

Power Defense™ Molded Case Circuit Breakers

# Power Defense™ Molded Case Circuit Breaker



*Powering Business Worldwide*



An Eaton Brand



# Energizing a world that demands more.

## We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

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## Power Defense™ Molded Case Circuit Breakers

### Product Description

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Eaton's globally accepted Power Defense™ molded case circuit breakers (MCCBs) can safely and reliably distribute, switch, and control electrical energy through innovative protecting concept, and are widely used in industry, buildings and machinery manufacturing, bringing you more optimized solutions.

## **Power Defense molded case circuit breakers, a globally rated platform from Eaton.**





## SAFELY PROTECTED

ArcFlash Reduction Maintenance System helps protect workers by reducing dangerous and potential arc flash incident energy levels, and enabling workers to activate this system from a safe distance without altering critical protection settings of the breaker.

Zone Selective Interlock (ZSI) technology protects equipment by intelligently selecting faster trip times in coordinated systems, an advantage which can keep operators safe and productive.

Power Xpert® Release (PXR) electronic trip units are equipped with the latest microprocessor technology including advanced algorithms that notify you when your power distribution system needs to be maintained or replaced, **keeping your facility and equipment on-line, safe, and productive.**



## EASILY COMMUNICATED

Power Defense MCCBs with Power Xpert Release electronic trip units feature built-in communications allowing you to use fewer components and a simplified design while keeping your system connected, and customers informed. With the optional second independent communications channel through an external module, you have unprecedented connectivity options.

The PXR trip unit family has models that will cover all of your needs, including fully programmable models that enable ultimate customizability and flexibility, as well as basic models that offer all of the benefits of electronic trip units, with simple set-up and coordination.

PXR technology provides the embedded ability to accurately measure energy consumption with no additional meters or equipment, delivering critical data about your power distribution system and energy use in your facility. PXR trip units record time-stamp captured events, and store critical data and waveforms associated with each event for **fault analysis and timeline reconstruction.**



## GLOBALLY CERTIFIED

Power Defense MCCBs are globally certified to meet your local requirements while empowering you to design and build systems that can be used anywhere in the world. Wherever Eaton does business, Power Defense MCCBs are there, backed by Eaton's global support and fulfillment network, with the right resources in place to minimize your project lead-time and maximize your uptime.

Integrating new products can be a challenge, which is why the Power Defense MCCBs are available with online instructions, support, and product selector: **these tools help you engineer work more efficiently and deliver your projects safely and quickly.**

# Power Defense Molded Case Circuit Breaker (MCCB)

## Product Description

Eaton's Power Defense MCCBs can safely and reliably distribute, switch and control electrical energy for industry, buildings and machinery manufacturing. They feature innovative protecting conception and offer fault diagnosis and communication.

- Compact structure, with only four current frames
- 3P and 4P
- Rated current up to 800A
- Multiple mounting methods
- Broad use, with CE and CCC certifications
- Auxiliary contacts of the same catalogue models are installed at different positions, offering different functions
- Direct clamping for mounting, saving mounting cost
- Universal cutout dimensions for different models
- Automatic adjustment, to locate central position



**PDC1**

- 16-160A
- Thermo-magnetic circuit breaker
- Single-magnetic circuit breaker
- Disconnecting switch



**PDC9**

- 63-160A
- Electronic circuit breaker



**PDC2**

- 90A to 250A
- Thermo-magnetic circuit breaker
- Single-magnetic circuit breaker
- Electronic circuit breaker
- Disconnecting switch



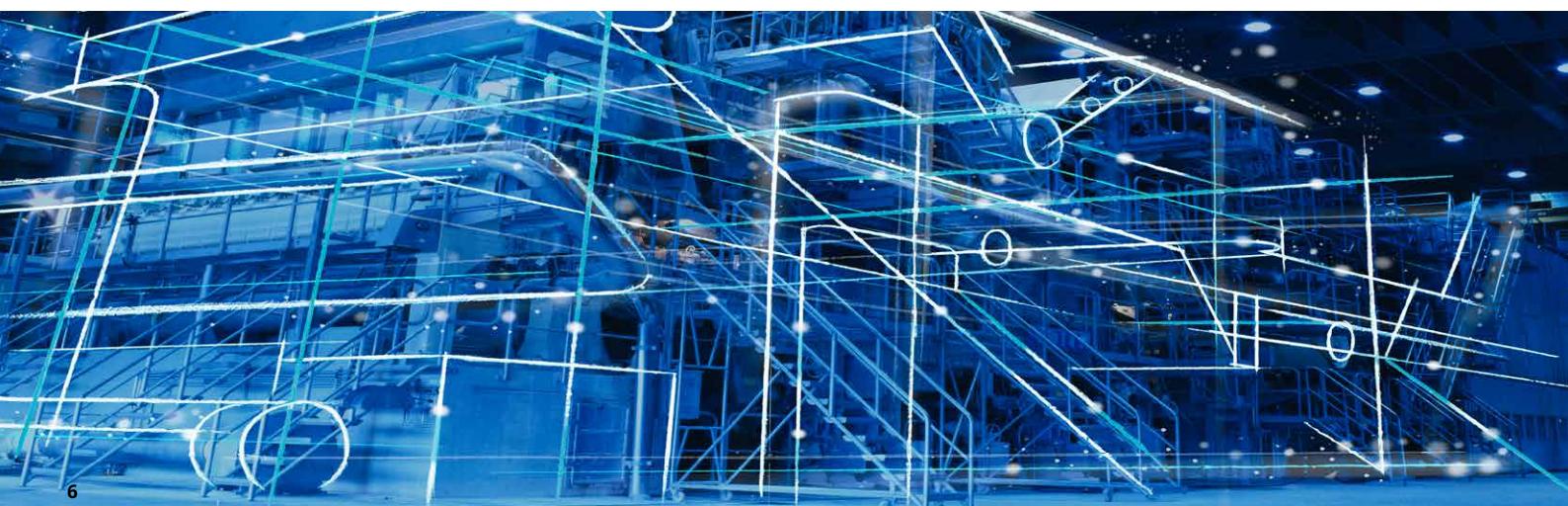
**PDC3**

- 250A to 630A
- Thermo-magnetic circuit breaker
- Single-magnetic circuit breaker
- Electronic circuit breaker
- Disconnecting switch



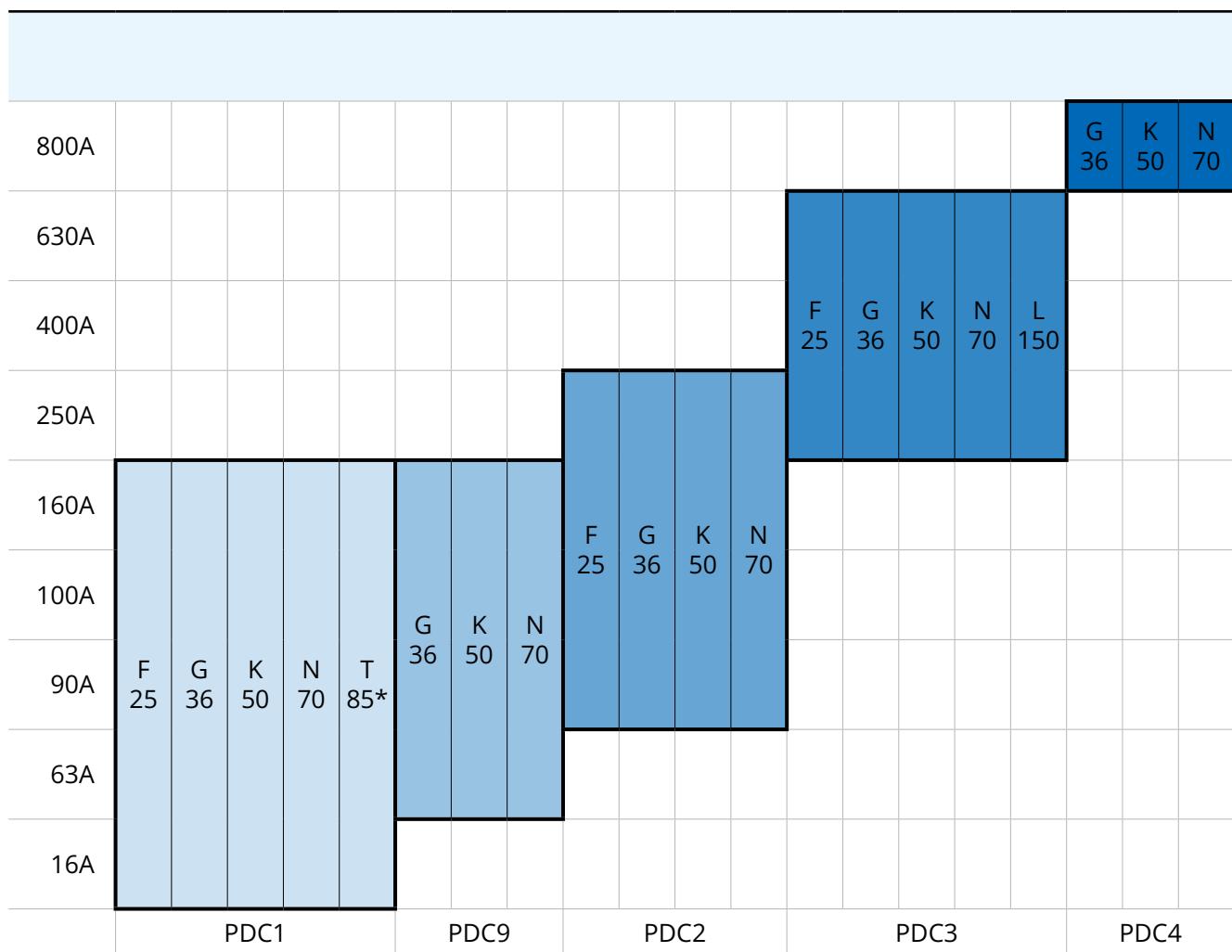
**PDC4**

- 800A
- Thermo-magnetic circuit breaker
- Electronic circuit breaker
- Disconnecting switch



# Interruption Ratings

The Power Defense molded case circuit breaker line is truly a global product, with multiple interruption ratings across a broad range of voltages. These interruption ratings are optimized for power distribution system and meet the broadest range of application needs. Refer to below table for the specific interruption levels.



415 Vac

I<sub>cs</sub> = 100% I<sub>cu</sub>

\*T = 85kA (I<sub>cs</sub> = 70kA)

# Trip Unit Selection

Different types of trip units are available across the frames, meeting application requirements in different countries and regions and allowing the breaker to be upgraded from the basic model to a high-end model to satisfy intelligent power distribution system demands.

## Thermo-magnetic

- Adjustable magnetic protection settings.
- Adjustable thermal protection settings

## Single magnetic type

- Adjustable magnetic protection settings.

## Power Xpert® Release Electronic Trip Units

Combined with the Power Defense molded case circuit breaker portfolio, the Power Xpert® Release (PXR) electronic trip units for global low-voltage commercial and industrial applications are Eaton's latest innovation in circuit protection technology. They're designed to help you simplify your communications, enhance your protection and support your energy metering.

- Unique Eaton trip unit platform enables you to easily change set points, test and configure circuit breakers, and achieve meter energy and power information.
- Enhanced, easy-to-use interface allows you to view and adjust the trip unit settings.
- Intuitive interface provides simple scroll-through visibility for critical performance metrics such as metering, battery life, zone selective interlock settings and circuit breaker health.



## PXR 10

An electronic trip unit in a simple interface for easy operation.

- Available with LSI and LI protection options.
- Programmable settings to meet specific application needs

## PXR 20

A fully functional trip unit with LSI and LISG protection capabilities, offering more advanced features.

- Current metering
- Embedded communications
- Built-in programmable relays to enable integration into logic control and communication systems

## PXR 25

A trip unit with embedded full protection functionality and advanced design.

- 1% accuracy for energy readings, coupled with the option for multiple communication protocols and embedded programmable relays, satisfy tailor-made requests for intelligent power distribution systems.
- Built-in electrical metering function, ensuring decreased investment in meters and other components.



# Functions and Features

## Communication Functionality

The PXR family of trip units offers wide support for communications. A USB port is present on all PXR Family trip units. All PXR 20 and 25 support external Communication Adapter Modules (CAM) while certain models have built-in Modbus-RTU.

- Integrated Modbus-Remote Terminal Unit (RTU)
- USB port
- External Communications Adapter Modules (CAMs)

## ArcFlash Reduction Maintenance System™

### Better safety and productivity

The Power Defense MCCB offers ArcFlash Reduction Maintenance System (ARMSTM), to reduce arc flash level energy. This safety feature can help you:

- Decrease personal protection equipment (PPE) requirements to enhance productivity
- Enhance the safety of your personnel

## Breaker Health Feature and Programmable Alarms

### Less costly downtime

By enabling you to perform predictive and preventive maintenance on your power distribution system prior to component failure, the breaker health feature and programmable alarms will help you avoid costly system or equipment downtime.

- Communicates circuit breaker status at the level of 25% to prompt for breaker maintenance or inspection
- Provides real-time evaluation of breaker condition by tracking and analyzing diagnostic details including breaker operations, short circuit fault levels, operational time, internal temperature and overloads



## Enhanced GF Protection and Curve

### Inter-phase or ground fault detection and warning

The Power Defense portfolio offers selection for ground fault protections and protection curves, and provides the ability to turn protection off.

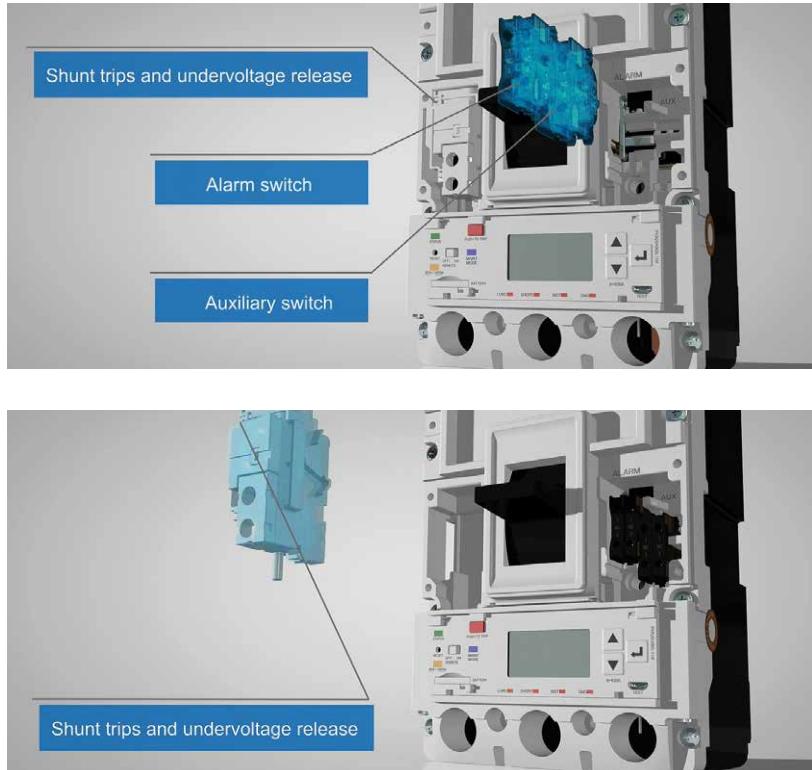
- ON/OFF feature simplifies system testing
- GF switch combines function ability of LSIG, LSIA and OFF
- GF delays



## Modular Accessories

The Power Defense molded case circuit breakers feature new, modular accessories designed to meet different requests from customers.

- A common line of auxiliary switch and bell alarms allow for interchangeability among different Power Defense breaker frames to minimize inventory.
- Compact, modular shunt trips and under voltage coils can be easily installed



## Power Xpert® Protection Manager (PXPM) – Configuration Software

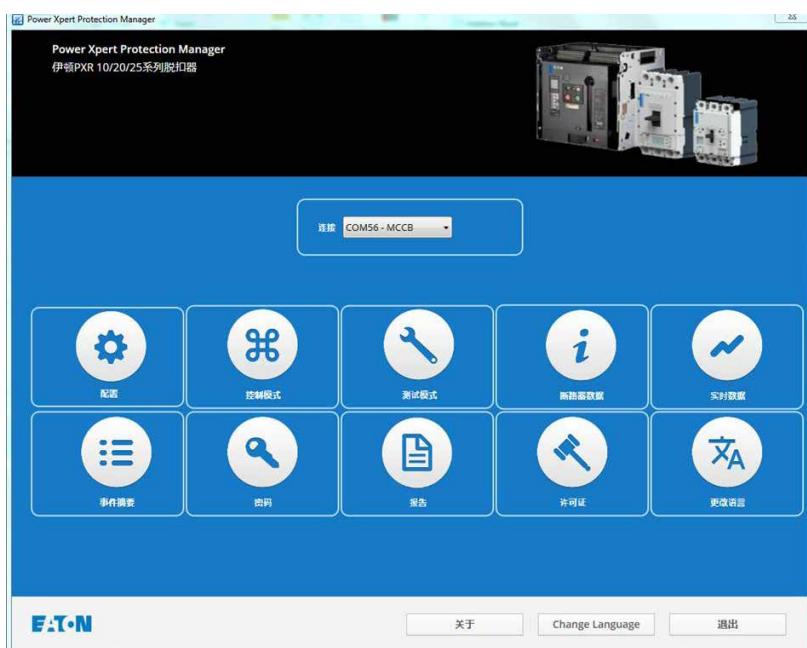
### Simpler operation

### Reduced maintenance

Once installed, your Power Xpert Release trip unit continues to provide cost savings with your computer upon secondary injection testing, offering savings on manpower time and expensive testing kits.

- Avoids complicated wiring
- Intuitive user interface is available to support real-time metering of power and energy, and enable checking of critical performance metrics to meet most of your application needs while reducing maintenance and field testing time

### User interface

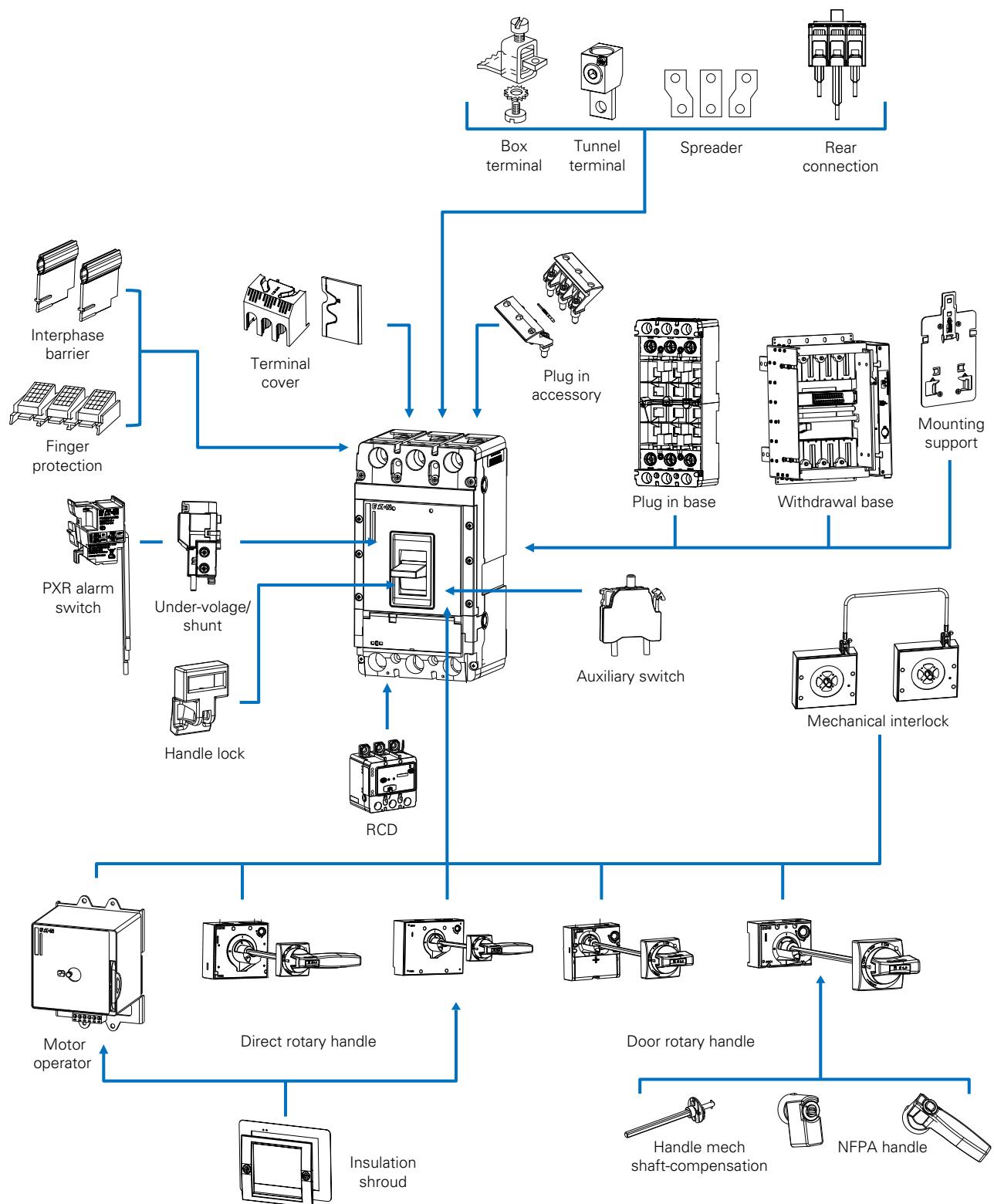




## I System Overview I

# Power Defense

## Molded Case Circuit Breaker



# Power Defense Molded Case Circuit Breaker

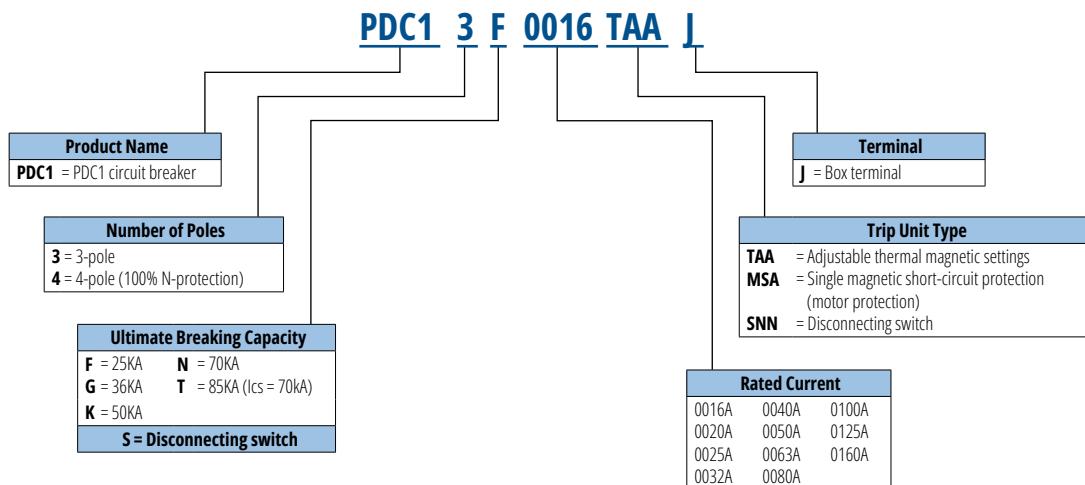
Technical data of trip units

## Power Defense Molded Case Circuit Breaker PDC1



- 16A to 160A
- Thermo-magnetic circuit breaker
- Can be equipped additionally with a variety of accessories, such as, shunt /under-voltage release, motor operator and residual current protection device
- Adjustable thermo-magnetic settings when >32A

### PDC1 Thermo-magnetic Model Description



**Note:** Consult Eaton for devices marked with “\*”

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

**Circuit breaker**

PDC1						
		F	G	K	N	T
Max. rated current $I_B$ , A		160				
No. of poles		3 & 4				
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>						
EC 60947-2	220-240 Vac	$I_{cu}$	35	55	85	100
		$I_{cs}$	35	55	85	100
	380-415 Vac	$I_{cu}$	25	36	50	70
		$I_{cs}$	25	36	50	70
	440 Vac	$I_{cu}$	25	30	35	50
		$I_{cs}$	18.5	22.5	35	37
	660-690 Vac	$I_{cu}$	-	8	10	10
		$I_{cs}$	-	4	7.5	7.5
	125/250 Vdc	$I_{cu}$	10	10	10	14
		$I_{cs}$	10	10	10	14
$I_{cm}$ Rated short-circuit making capacity	220-240 Vac	$I_{cm}$	73.5	121	187	220
	380-415 Vac	$I_{cm}$	52.5	75.6	105	154
	440 Vac	$I_{cm}$	52.5	63	73.5	105
	660-690 Vac	$I_{cm}$	-	16.8	21	21
	125-250 Vdc	$I_{cm}$	-	-	-	14
Rated short-time withstand capacity	kA	$I_{cw}$	-			
Tripping delay @ 415V, ms	$I_{cu}$ kA @ 415V		<10 ms			
Rated amperage range	A		16-160			
Utilization category			A			
Certificates			CE/CCC			
Max rated current			160			
<b>Rated insulation voltage to IEC 60947-2</b>						
Main circuit V			800			
Auxiliary circuit V			690			
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>						
Main circuit (kV)			8			
Auxiliary circuit (kV)			6			
Rated operating voltage $U_e$ IEC/CCC, Vac			690			
Rated operating voltage $U_e$ IEC/CCC, Vdc			250			
Storage temperature			-25° C to 70° C			
Operating temperature			-25° C to 70° C			
Product complies with IEC 60068 Shock Test			Yes			
Temperature derating factor	40° C		100%			
	45° C		97%			
	50° C		95%			
	55° C		92%			
	60° C		90%			
	70° C		80%			
Altitude derating factor	2000m	Voltage V	690			
		Current %	100			
	3000m	Voltage V	624			
		Current %	95			
	4000m	Voltage V	565			
		Current %	90			
Mechanical life			25000			
Electrical life to IEC/EN60947-4 Part B AC-1			10000			
Max operating frequency /min			2			
<b>Product dimensions (inches) H x W x D</b>						
3P			144.8 x 89.9 x 68.1 (5.70 x 3.54 x 2.68)			
4P			144.8 x 119.9 x 68.1 (5.70 x 4.72 x 2.68)			
Inter-phase distance mm (inches)			30.00 (1.18)			
Approximate weight kg (lbs)	Fixed type	TMTU	1.046kg (2.30 lbs) /3P 1.325kg (2.92 lbs)/4P			
		PXR	- -			
Suitable for reverse-feed applications			Yes			
Exhaust direction upon short circuit	IEC		60 mm (690V) & 30mm (440V)			
CB adjacent mounting (mm)	IEC		0			
Mounting method			Fixed type			
IP degree	Accessory mounting		IP2X with finger protection			
Pollution level			III			
Over-voltage category			III			
Suitable for IT power grid	415 V		Suitable			

# Power Defense Molded Case Circuit Breaker

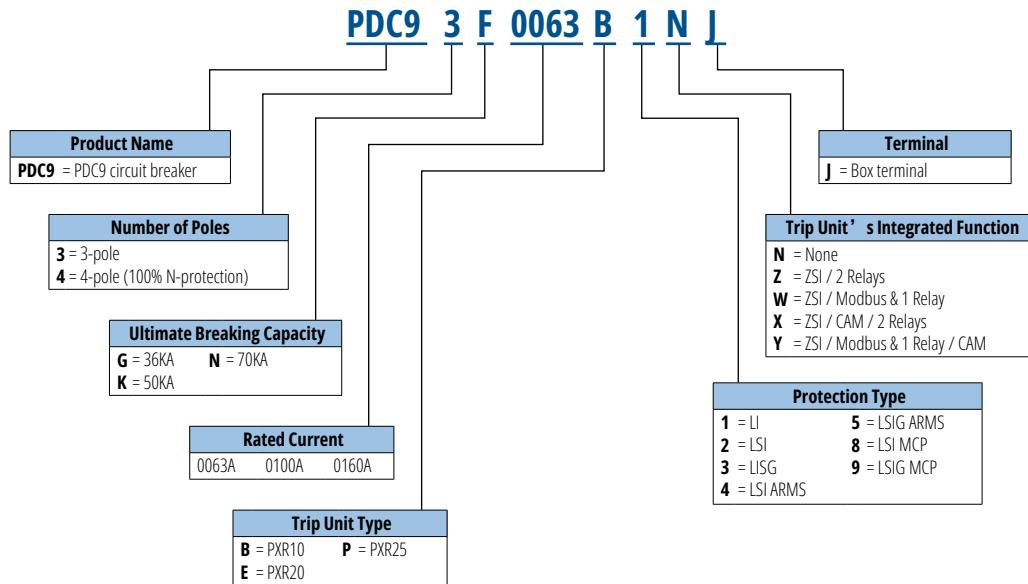
Technical data of trip units

## Power Defense Molded Case Circuit Breaker PDC9



- 63A to 160A
- Electronic circuit breaker
- Can be equipped additionally with a variety of accessories, such as, shunt / under-voltage release, motor operator and residual current protection device
- PXR10/20/25 electronic devices are optional

### PDC9 Electronic Model Description



**Note:** Consult Eaton for devices marked with “\*”

### Circuit breaker

<b>PDC9</b>				
		<b>G</b>	<b>K</b>	<b>N</b>
Max. rated current $I_B$ , A		160		
No. of poles		3 & 4		
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>				
EC 60947-2	220-240 Vac	$I_{cu}$	55	85
		$I_{cs}$	55	85
	380-415 Vac	$I_{cu}$	36	50
		$I_{cs}$	36	50
	440 Vac	$I_{cu}$	30	35
		$I_{cs}$	22.5	35
	660-690 Vac	$I_{cu}$	8	10
		$I_{cs}$	4	5
	125/250 Vdc	$I_{cu}$	10	10
		$I_{cs}$	10	10
$I_{cm}$ Rated short-circuit making capacity	220-240 Vac	$I_{cm}$	121	187
	380-415 Vac	$I_{cm}$	75.6	105
	440 Vac	$I_{cm}$	63	73.5
	660-690 Vac	$I_{cm}$	16.8	21
	125-250 Vdc	$I_{cm}$	-	-
Rated short-time withstand capacity	kA	$I_{cw}$	1.8	
Tripping delay @ 415V, ms	$I_{cu}$ kA @ 415V		5.1 @ 70kA	
Rated amperage range	A		16-160	
Utilization category			A	
Certificates			CE/CCC	
Max rated current			160	
<b>Rated insulation voltage to IEC 60947-2</b>				
Main circuit V			800	
Auxiliary circuit V			690	
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>				
Main circuit (kV)			8	
Auxiliary circuit (kV)			6	
Rated operating voltage $U_e$ IEC/CCC, Vac			690	
Rated operating voltage $U_e$ IEC/CCC, Vdc			250	
Storage temperature			-25° C to 70° C	
Operating temperature			-25° C to 70° C	
Product complies with IEC 60068 Shock Test			-	
Temperature derating factor	40° C		100%	
	45° C		100%	
	50° C		100%	
	55° C		98%	
	60° C		95%	
	70° C		90%	
Altitude derating factor	2000m	Voltage V	690	
		Current %	100	
	3000m	Voltage V	624	
		Current %	100	
	4000m	Voltage V	565	
		Current %	95	
Mechanical life			20000	
Electrical life to IEC/EN60947-4 Part B AC-1			8000	
Max operating frequency /min			2	
<b>Product dimensions (inches) H x W x D</b>				
3P			152.4 x 104.6 x 88.9 (6 x 4.12 x 3.50)	
4P			152.4 x 139.5 x 88.9 (6 x 5.494 x 3.50)	
Inter-phase distance mm (inches)			34.93 (1.375)	
Approximate weight kg (lbs)	Fixed type	TMTU	1.82 (4.01)	
			2.46 (5.42)	
	PXR		-	
			-	
Suitable for reverse-feed applications			Yes	
Exhaust direction upon short circuit	IEC		25.4	
CB adjacent mounting (mm)	IEC		0	
Mounting method			Fixed type	
IP degree	Accessory mounting		IP2X with finger protection	
Pollution level			III	
Over-voltage category			III	
Suitable for IT power grid	415 V		Suitable	

# Power Defense Molded Case Circuit Breaker

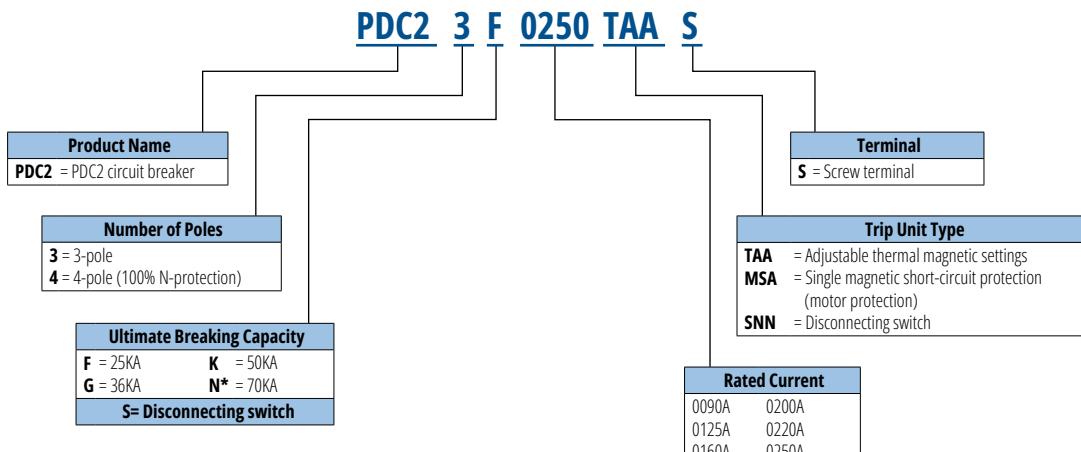
Technical data of trip units

## Power Defense Molded Case Circuit Breaker PDC2

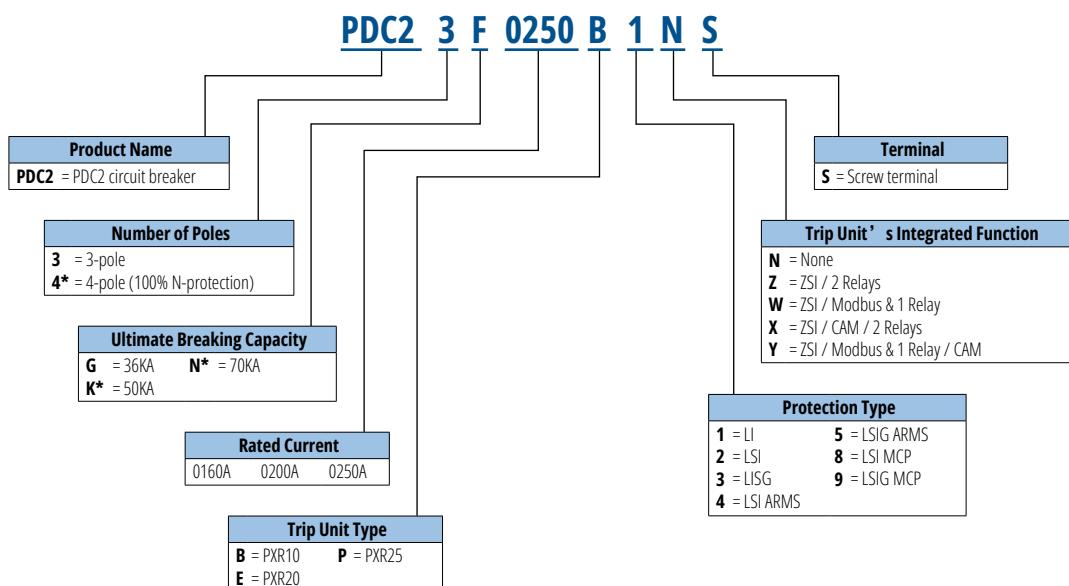


- 90A to 250A
- Thermo-magnetic circuit breaker, with adjustable thermal magnetic settings
- Single magnetic type
- Disconnecting switch
- PXR10/20/25 electronic types are optional
- Can be equipped additionally with a variety of accessories, such as, shunt / under-voltage release, motor operator and residual current device.

### PDC1 Thermo-magnetic Model Description



### PDC2 Electronic Model Description



**Note:** Consult Eaton for devices marked with “\*”

### Circuit breaker

PDC2					
		F	G	K	N
Max. rated current $I_B$ , A		250			
No. of poles		3 & 4			
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>					
EC 60947-2	220-240 Vac	$I_{cu}$	35	55	85
		$I_{cs}$	35	55	85
	380-415 Vac	$I_{cu}$	25	36	50
		$I_{cs}$	25	36	50
	440 Vac	$I_{cu}$	25	30	35
		$I_{cs}$	20	22.5	35
	660-690 Vac	$I_{cu}$	-	8	10
		$I_{cs}$	-	4	5
	125/250 Vdc	$I_{cu}$	10	10	10
		$I_{cs}$	10	10	10
$I_{cm}$ Rated short-circuit making capacity	220-240 Vac	$I_{cm}$	73.5	121	187
	380-415 Vac	$I_{cm}$	52.5	75.6	105
	440 Vac	$I_{cm}$	52.5	63	73.5
	660-690 Vac	$I_{cm}$	-	16.8	21
	125-250 Vdc	$I_{cm}$	-	-	-
Rated short-time withstand capacity	kA	$I_{cw}$	1,8		
Tripping delay @ 415V, ms	$I_{cu}$ kA @ 415V		5.1 @ 70kA		
Rated amperage range	A		16-250		
Utilization category			A		
Certificates			CE/CCC		
Max rated current			250		
<b>Rated insulation voltage to IEC 60947-2</b>					
Main circuit V			800		
Auxiliary circuit V			690		
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>					
Main circuit (kV)			8		
Auxiliary circuit (kV)			6		
Rated operating voltage $U_e$ IEC/CCC, Vac			690		
Rated operating voltage $U_e$ IEC/CCC, Vdc			250		
Storage temperature			-25° C to 70° C		
Operating temperature			-25° C to 70° C		
Product complies with IEC 60068 Shock Test			-		
Temperature derating factor	40° C		100%		
	45° C		100%		
	50° C		100%		
	55° C		98%		
	60° C		95%		
	70° C		90%		
Altitude derating factor	2000m	Voltage V	690		
		Current %	100		
	3000m	Voltage V	624		
		Current %	100		
	4000m	Voltage V	565		
		Current %	95		
Mechanical life			20000		
Electrical life to IEC/EN60947-4 Part B AC-1			10000		
Max operating frequency /min			2		
<b>Product dimensions (inches) H x W x D</b>					
3P			200.9 x 104.6 x 88.9 (7.90 x 4.12 x 3.501)		
4P			200.9 x 139.5 x 88.9 (7.90 x 5.494 x 3.501)		
Inter-phase distance mm (inches)			34.93 (1.375)		
Approximate weight kg (lbs)	Fixed type	TMTU	1.91 (4.21)kg/ 3P 2.58 (5.68)/ 4P		
		PXR	-		
Suitable for reverse-feed applications			Yes		
Exhaust direction upon short circuit	IEC		25.4		
CB adjacent mounting (mm)	IEC		0		
Mounting method			Fixed type		
IP degree	Accessory mounting		IP2X with finger protection		
Pollution level			III		
Over-voltage category			III		
Suitable for IT power grid	415 V		Suitable		

# Power Defense Molded Case Circuit Breaker

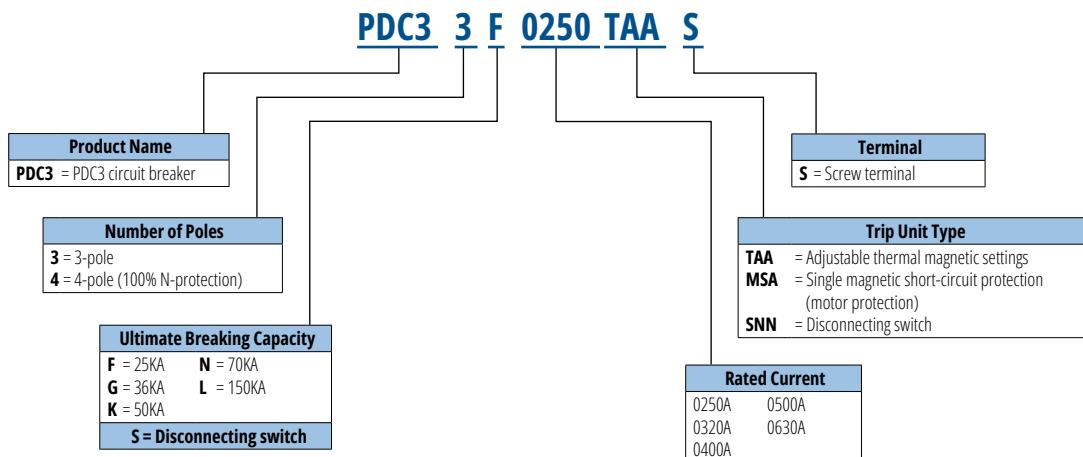
Technical data of trip units

## Power Defense Molded Case Circuit Breaker PDC3

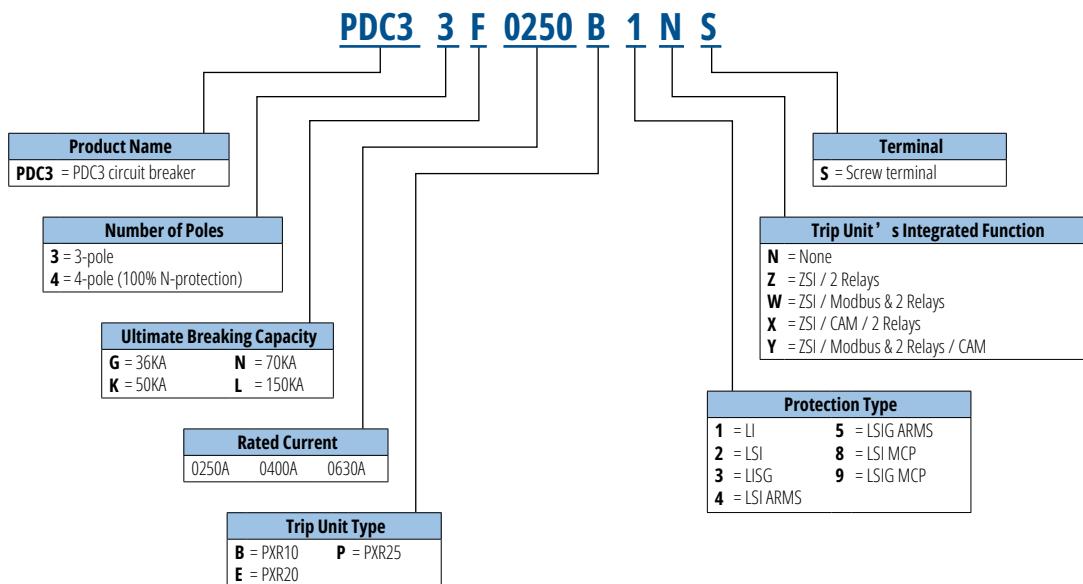


- 250A to 630A
- Thermo-magnetic circuit breaker, with adjustable thermal magnetic settings
- PXR10/20/25 electronic types are optional
- Can be equipped additionally with a variety of accessories, such as, shunt /under-voltage release, motor operator and residual current device

### PDC3 Thermal-magnetic Model Description



### PDC3 Electronic Model Description



**Note:** Consult Eaton for devices marked with “\*”

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

**Circuit breaker**

PDC3						
		F	G	K	N	L
Max. rated current $I_B$ , A		630				
No. of poles		3 & 4				
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>						
EC 60947-2	220-240 Vac	$I_{CU}$	35	55	85	150
		$I_{CS}$	35	55	85	150
	380-415 Vac	$I_{CU}$	25	36	50	70
		$I_{CS}$	25	36	50	70
	440 Vac	$I_{CU}$	25	30	35	70
		$I_{CS}$	20	22.5	35	50
	660-690 Vac	$I_{CU}$	-	8	10	20
		$I_{CS}$	-	4	5	10
	125/250 Vdc	$I_{CU}$	22	22	22	42
		$I_{CS}$	22	22	22	42
$I_{CM}$ Rated short-circuit making capacity	220-240 Vac	$I_{CM}$	73.5	121	187	330
	380-415 Vac	$I_{CM}$	52.5	75.6	105	154
	440 Vac	$I_{CM}$	52.5	63	73.5	154
	660-690 Vac	$I_{CM}$	-	16.8	21	42
	125-250 Vdc	$I_{CM}$	-	-	-	-
Rated short-time withstand capacity	kA	$I_{CW}$	6.3			
Tripping delay @ 415V, ms	$I_{CU}$ kA @ 415V		8.65 @ 53kA, 6.2 @ 70kA			
Rated amperage range	A		250-630			
Utilization category			A			
Certificates			CE/CCC			
Max rated current			630			
<b>Rated insulation voltage to IEC 60947-2</b>						
Main circuit V			800			
Auxiliary circuit V			690			
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>						
Main circuit (kV)			8			
Auxiliary circuit (kV)			6			
Rated operating voltage $U_e$ IEC/CCC, Vac			690			
Rated operating voltage $U_e$ IEC/CCC, Vdc			250			
Storage temperature			-25° C to 70° C			
Operating temperature			-25° C to 70° C			
Product complies with IEC 60068 Shock Test			Yes			
Temperature derating factor	40° C		100%			
	45° C		96%			
	50° C		91%			
	55° C		86%			
	60° C		82%			
	70° C		70%			
Altitude derating factor	2000m	Voltage V	690			
		Current %	100			
	3000m	Voltage V	624			
		Current %	91			
	4000m	Voltage V	565			
		Current %	86			
Mechanical life			15000			
Electrical life to IEC/EN60947-4 Part B AC-1			5000			
Max operating frequency /min			1			
<b>Product dimensions (inches) H x W x D</b>						
3P			257.2 x 139.2 x 109.1 (10.125 x 5.480 x 4.297)			
4P			257.2 x 183.4 x 109.1 (10.125 x 7.219 x 4.297)			
Inter-phase distance mm (inches)			43.66 (1.719)			
Approximate weight kg (lbs)	Fixed type	TMTU	5.8 (12.78) / 3P 7.9 (17.41) / 4P			
	PXR		-			
Suitable for reverse-feed applications			Yes			
Exhaust direction upon short circuit	IEC		25.4			
CB adjacent mounting (mm)	IEC		0			
Mounting method			Fixed type			
IP degree	Accessory mounting		IP2X with finger protection			
Pollution level			III			
Over-voltage category			III			
Suitable for IT power grid	415 V		Suitable			

# Power Defense Molded Case Circuit Breaker

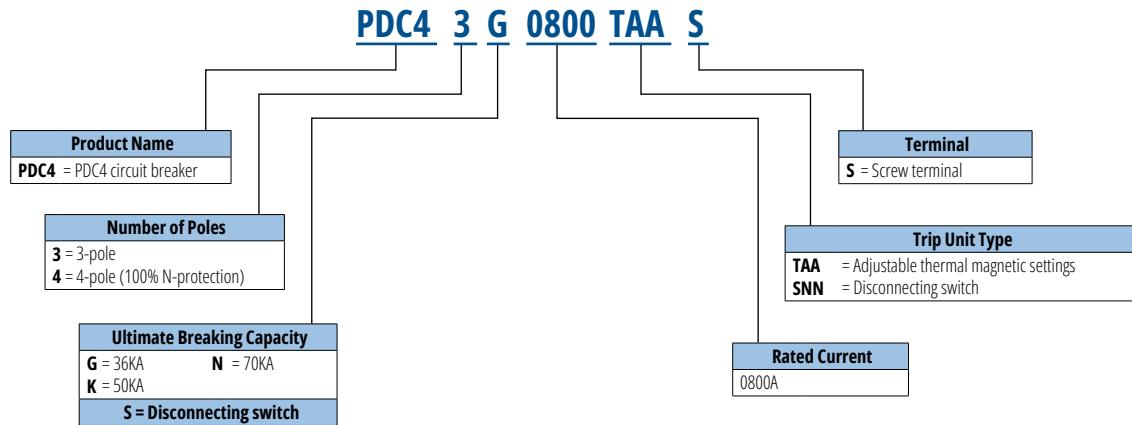
Technical data of trip units

## Power Defense Molded Case Circuit Breaker PDC4

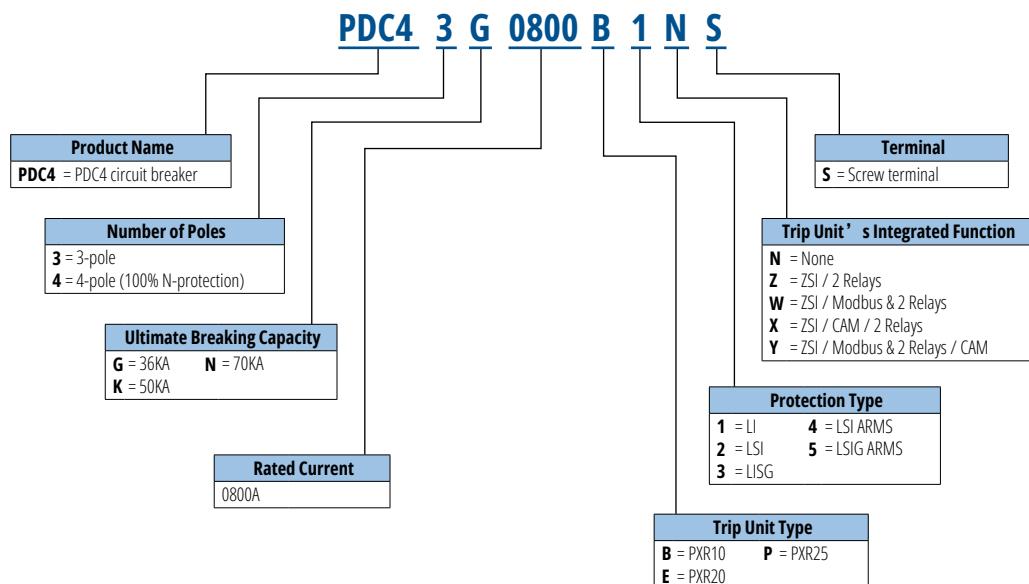


- 800A
- Thermo-magnetic / electronic, with adjustable thermal magnetic settings
- PXR10/20/25 electronic types are optional
- Can be equipped additionally with a variety of accessories, such as, shunt / under-voltage release, motor operator and residual current protection

### PDC4 Thermal-magnetic Model Description



### PDC4 Electronic Model Description



Note: Consult Eaton for devices marked with “\*”

### Circuit breaker

<b>PDC4</b>					
			<b>G</b>	<b>K</b>	<b>N</b>
Max. rated current $I_B$ , A			800		
No. of poles			3 & 4		
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>					
EC 60947-2	220-240 Vac	$I_{cu}$	55	85	100
		$I_{cs}$	55	85	100
	380-415 Vac	$I_{cu}$	36	50	70
		$I_{cs}$	36	50	70
	440 Vac	$I_{cu}$	30	35	65
		$I_{cs}$	22.5	35	50
	660-690 Vac	$I_{cu}$	8	10	20
		$I_{cs}$	4	5	10
	125/250 Vdc	$I_{cu}$	22	22	25
		$I_{cs}$	22	22	25
$I_{cm}$ Rated short-circuit making capacity	220-240 Vac	$I_{cm}$	121	187	220
	380-415 Vac	$I_{cm}$	75.6	105	154
	440 Vac	$I_{cm}$	63	73.5	143
	660-690 Vac	$I_{cm}$	16.8	21	42
	125-250 Vdc	$I_{cm}$	-	-	25
Rated short-time withstand capacity	kA	$I_{cw}$	6		
Tripping delay @ 415V, ms	$I_{cu}$ kA @ 415V		5.23 @ 70kA		
Rated amperage range	A		800		
Utilization category			A		
Certificates			CE/CCC		
Max rated current			800		
<b>Rated insulation voltage to IEC 60947-2</b>					
Main circuit V			800		
Auxiliary circuit V			690		
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>					
Main circuit (kV)			8		
Auxiliary circuit (kV)			6		
Rated operating voltage $U_e$ IEC/CCC, Vac			690		
Rated operating voltage $U_e$ IEC/CCC, Vdc			250		
Storage temperature			-40° C to 85° C		
Operating temperature			-25° C to 70° C		
Product complies with IEC 60068 Shock Test			Yes		
Temperature derating factor	40° C		100		
	45° C		97%		
	50° C		94%		
	55° C		90%		
	60° C		88%		
	70° C		80%		
Altitude derating factor	2000m	Voltage V	690		
		Current %	100		
	3000m	Voltage V	624		
		Current %	94		
	4000m	Voltage V	565		
		Current %	88		
Mechanical life			10000		
Electrical life to IEC/EN60947-4 Part B AC-1			3000		
Max operating frequency /min			1		
<b>Product dimensions (inches) H x W x D</b>					
3P			406.4 x 209.6 x 111.2 (16 x 8.25 x 4.38)		
4P			406.4 x 279.4 x 111.2 (16 x 11.0 x 4.38)		
Inter-phase distance mm (inches)			70 (2.75)		
Approximate weight kg (lbs)	Fixed type	TMTU	13.2 (29.1)/3P 17.55 (38.69) /4P *		
		PXR	13.6 (29.98) /3P (ETU) 18.088 (39.87) /4P (ETU) *		
Suitable for reverse-feed applications			Yes		
Exhaust direction upon short circuit	IEC		60 mm		
CB adjacent mounting (mm)	IEC		0 mm		
Mounting method			Fixed type		
IP degree	Accessory mounting		-		
Pollution level			III		
Over-voltage category			III		
Suitable for IT power grid	415 V		Suitable		

# Power Defense Molded Case Circuit Breaker

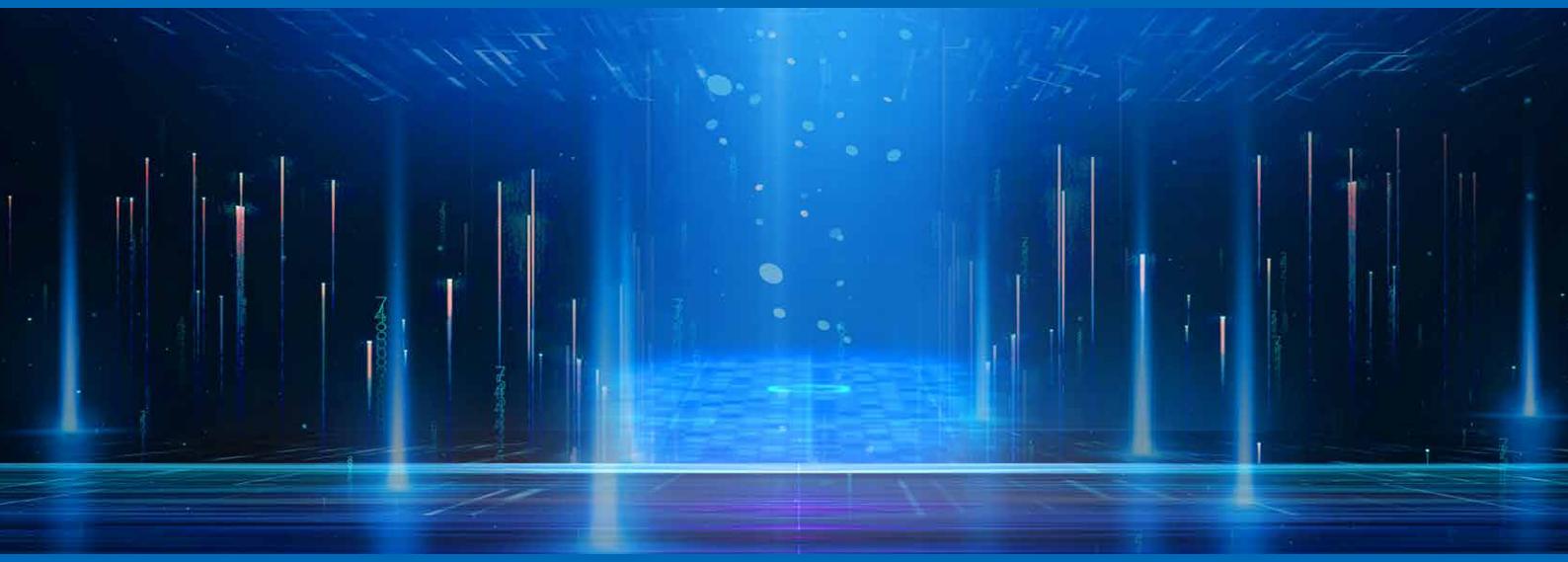
## Technical data of trip units

### Circuit breaker

		PDC1	PDC9						
		F	G	K	N	T	G	K	N
Max. rated current $I_{\text{B}}$ , A		160					160		
No. of poles		3 & 4					3 & 4		
<b>Breaking capacity (kA rms) Vac 50-60 Hz</b>									
EC 60947-2	220-240 Vac	$I_{\text{cu}}$	35	55	85	100	100	55	85
		$I_{\text{cs}}$	35	55	85	100	100	55	85
	380-415 Vac	$I_{\text{cu}}$	25	36	50	70	85	36	50
		$I_{\text{cs}}$	25	36	50	70	70	36	50
	440 Vac	$I_{\text{cu}}$	25	30	35	50	50	30	35
		$I_{\text{cs}}$	18.5	22.5	35	37	37	22.5	35
	660-690 Vac	$I_{\text{cu}}$	-	8	10	10	10	8	10
		$I_{\text{cs}}$	-	4	7.5	7.5	7.5	4	5
	125/250 Vdc	$I_{\text{cu}}$	10	10	10	14	14	10	10
		$I_{\text{cs}}$	10	10	10	14	14	10	10
$I_{\text{cm}}$ Rated short-circuit making capacity	220-240 Vac	$I_{\text{cm}}$	73.5	121	187	220	220	121	187
	380-415 Vac	$I_{\text{cm}}$	52.5	75.6	105	154	154	75.6	105
	440 Vac	$I_{\text{cm}}$	52.5	63	73.5	105	105	63	73.5
	660-690 Vac	$I_{\text{cm}}$	-	16.8	21	21	21	16.8	21
	125-250 Vdc	$I_{\text{cm}}$	-	-	-	14	14	-	-
Rated short-time withstand capacity	kA	$I_{\text{cw}}$	-					1.8	
Tripping delay @ 415V, ms	$I_{\text{cu}}$ kA @ 415V		<10 ms					5.1 @ 70kA	
Rated amperage range	A		16-160					16-160	
Utilization category			A					A	
Certificates			CE/CCC					CE/CCC	
Max rated current			160					160	
<b>Rated insulation voltage to IEC 60947-2</b>									
Main circuit V			800					800	
Auxiliary circuit V			690					690	
<b>Rated impulse withstand voltage <math>U_{\text{imp}}</math></b>									
Main circuit (kV)			8					8	
Auxiliary circuit (kV)			6					6	
Rated operating voltage $U_{\text{e}}$ IEC/CCC, Vac			690					690	
Rated operating voltage $U_{\text{e}}$ IEC/CCC, Vdc			250					250	
Storage temperature			-25° C to 70° C					-25° C to 70° C	
Operating temperature			-25° C to 70° C					-25° C to 70° C	
Product complies with IEC 60068 Shock Test			Yes					-	
Temperature derating factor	40° C		100%					100%	
	45° C		97%					100%	
	50° C		95%					100%	
	55° C		92%					98%	
	60° C		90%					95%	
	70° C		80%					90%	
Altitude derating factor	2000m	Voltage V	690					690	
		Current %	100					100	
	3000m	Voltage V	624					624	
		Current %	95					100	
	4000m	Voltage V	565					565	
		Current %	90					95	
Mechanical life			25000					20000	
Electrical life to IEC/EN60947-4 Part B AC-1			10000					8000	
Max operating frequency /min			2					2	
<b>Product dimensions (inches) H x W x D</b>									
3P			144.8 x 89.9 x 68.1 (5.70 x 3.54 x 2.68)					152.4 x 104.6 x 88.9 (6 x 4.12 x 3.50)	
4P			144.8 x 119.9 x 68.1 (5.70 x 4.72 x 2.68)					152.4 x 139.5 x 88.9 (6 x 5.494 x 3.50)	
Inter-phase distance mm (inches)			30.00 (1.18)					34.93 (1.375)	
Approximate weight kg (lbs)	Fixed type	TMTU	1.04kg (2.30 lbs) /3P					1.82 (4.01)	
			1.325kg (2.92 lbs)/4P					2.46 (5.42)	
	PXR		-					-	
			-					-	
Suitable for reverse-feed applications			Yes					Yes	
Exhaust direction upon short circuit	IEC		60 mm (690V) & 30mm (440V)					25.4	
CB adjacent mounting (mm)	IEC		0					0	
Mounting method			Fixed type					Fixed type	
IP degree	Accessory mounting		IP2X with finger protection					IP2X with finger protection	
Pollution level			III					III	
Over-voltage category			III					III	
Suitable for IT power grid	415 V		Suitable					Suitable	

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

PDC2				PDC3					PDC4		
F	G	K	N	F	G	K	N	L	G	K	N
250			630						800		
3 & 4			3 & 4						3 & 4		
F	G	K	N	F	G	K	N	L	G	K	N
35	55	85	150	35	55	85	150	150	55	85	100
35	55	85	100	35	55	85	100	150	55	85	100
25	36	50	70	25	36	50	70	150	36	50	70
25	36	50	70	25	36	50	70	150	36	50	70
25	30	35	70	25	30	35	70	70	30	35	65
20	22.5	35	50	20	22.5	35	50	50	22.5	35	50
-	8	10	10	-	8	10	20	20	8	10	20
-	4	5	5	-	4	5	10	10	4	5	10
10	10	10	22	22	22	22	42	42	22	22	25
10	10	10	22	22	22	22	42	42	22	22	25
73.5	121	187	330	73.5	121	187	330	330	121	187	220
52.5	75.6	105	154	52.5	75.6	105	154	330	75.6	105	154
52.5	63	73.5	154	52.5	63	73.5	154	154	63	73.5	143
-	16.8	21	21	-	16.8	21	42	42	16.8	21	42
-	-	-	22	-	-	-	42	-	-	-	25
1,8			6.3						6		
5.1 @ 70kA			8.65 @ 53kA, 6.2 @ 70kA						5.23 @ 70kA		
16-250			250-630						800		
A			A						A		
CE/CCC			CE/CCC						CE/CCC		
250			630						800		
800			800						800		
690			690						690		
8			8						8		
6			6						6		
690			690						690		
250			250						250		
-25° C to 70° C			-25° C to 70° C						-40° C to 85° C		
-25° C to 70° C			-25° C to 70° C						-25° C to 70° C		
-			Yes						Yes		
100%			100%						100		
100%			96%						97%		
100%			91%						94%		
98%			86%						90%		
95%			82%						88%		
90%			70%						80%		
690			690						690		
100			100						100		
624			624						624		
100			91						94		
565			565						565		
95			86						88		
20000			15000						10000		
10000			5000						3000		
2			1						1		
200.9 x 104.6 x 88.9 (7.90 x 4.12 x 3.501)			257.2 x 139.2 x 109.1 (10.125 x 5.480 x 4.297)						406.4 x 209.6 x 111.2 (16 x 8.25 x 4.38)		
200.9 x 139.5 x 88.9 (7.90 x 5.494 x 3.501)			257.2 x 183.4 x 109.1 (10.125 x 7.219 x 4.297)						406.4 x 279.4 x 111.2 (16 x 11.0 x 4.38)		
34.93 (1.375)			43.66 (1.719)						70 (2.75)		
1.91 (4.21)kg / 3P			5.8 (12.78) / 3P						13.2 (29.1) / 3P		
2.58 (5.68) / 4P			7.9 (17.41) / 4P						17.55 (38.69) / 4P *		
-			-						13.6 (29.98) / 3P (ETU)		
-			-						18.088 (39.87) / 4P (ETU) *		
Yes			Yes						Yes		
25.4			25.4						60 mm		
0			0						0 mm		
Fixed type			Fixed type						Fixed type		
IP2X with finger protection			IP2X with finger protection						-		
III			III						III		
III			III						III		
Suitable			Suitable						Suitable		



# I Introduction to Trip Units I

# Trip Unit Configurations

**Power Defense  
molded case circuit  
breakers**

	Frame 1	Frame 9	Frame 2	Frame 3	Frame 4
Rated current (A)	160	160	250	630	800
Certificate	CE/CCC	CE/CCC	CE/CCC	CE/CCC	CE/CCC

**Thermo-magnetic  
trip units**

Adjustable thermal magnet settings	•		•	•	•
Adjustable single magnet settings (motor protection)	•		•	•	

## PXR 10

Rated current $I_n$		63/100/160	160/200/250	250/400/630	800
LI	N/A	•	•	•	•
LSI			•	•	•

## PXR 20

Rated current $I_n$	N/A	63/100/160	160/200/250	250/400/630	800
LSI		•	•	•	•
LSIG		•	•	•	•
ARMS				Optional	Optional
Embedded Modbus communication			Optional	Optional	Optional
Other communication protocols		Optional	Optional	Optional	Optional
Programmable relay		2 (Optional)	2 (Optional)	2 (Optional)	2 (Optional)
ZSI		Optional	Optional	Optional	Optional

## PXR 25

Rated current $I_n$	N/A		63/100/160/ 200/250	250/400/630	800
LSI		•	•	•	•
LSIG		•	•	•	•
Embedded Modbus communication		Optional		Optional	Optional
Other communication protocols		•	•	•	•
Programmable relay		Optional	Optional	Optional	Optional
Embedded Modbus communication		2	2	2	2
ZSI		•	•	•	•

**Power Xpert®  
Release (PXR)  
electronic trip units**

## Power Defense Molded Case Circuit Breaker

### Introduction to trip units



# Power Xpert® Release

## Electronic Trip Units

The Power Xpert Release (PXR) trip unit has powerful features and high operating flexibility that allow configuration for a wide variety of protection applications. Communication options support integration into supervisory systems to monitor circuit performance and, if desired, control the circuit breaker. Advanced metering of current, voltage, energy and power allow monitoring of real-time energy use.

The PXR trip unit is available for multiple frames ranging MCCBs and ACB products. All PXR trip units share common features including configuration of their protective functions, cause-of-trip information, built in secondary injection for testing and a USB port for connection to configuration and monitoring software. Certain models include energy metering with 1% accuracy, network connectivity, multi-language display and advanced protection features.

The PXR trip unit, along with current sensors and a trip actuator, is the subsystem of a circuit breaker that provides the protective functions. The PXR analyzes signals from the current sensors; if current level and time delay settings are exceeded then the PXR will trip the circuit breaker. The overload and short circuit tripping characteristics for a specific circuit breaker are determined by the current rating and user selected protection settings.

Metering uses those same current sensors to monitor and record current. In models that include voltage metering, a rich set of power and energy data is available with 1% accuracy. Additionally, the PXR supports a waveform capture mechanism by which you can monitor your systems currents and voltages.

The communication systems provide real-time status and data from the PXR for integration with business information systems, control schemes or other systems used by service personnel. The PXR trip units support several field-buses including ModbusRTU, Ethernet and ProfibusDP. Ethernet communications also includes an advanced web-interface for use with phone, tablet or PC browsers.

Certain models have a LCD display to make set-up and system monitoring possible from the face of the MCCB. Other models have rotary switches to set the available protection settings. Configuration and performance can be achieved for all types of trip units using Power Xpert Protection Manager (PXPM) software.

This manual covers the Power Xpert Release Family in the Power Defense line of circuit breakers. Instruction Leaflets (IL) are provided with each circuit breaker that covers the installation. Both this manual and circuit breaker Instruction Leaflets should be consulted when applying the PXR trip unit. Please access <http://www.eaton.com/powerdefense> for full details.

# PXR's Key Functions



## Visualized User Interface

The PXR trip unit interface is common across all frame sizes of the Power Defense Family of circuit breaker frames (except Frame 1). This common user interface ensures rapid configuration and makes it easier to train service personnel. The elements of the interface are easily recognized even when compressed into smaller frames or mounted horizontally.

## Customized Protection Settings

The PXR trip unit protection settings are easily customized to any application. Settings for long delay pickup, long delay time, short delay pickup, short delay time, instantaneous pickup, ground fault pickup, and ground fault time are all configurable.

## Inter-Connectivity

The PXR family of trip units offers wide support for communications. A USB port is present on all PXR Family trip units. All PXR 20 and 25 support external Communication Adapter Modules (CAM) while certain models have built-in Modbus-RTU.

## Override

The PXR trip unit provides an override trip function that will trip the circuit breaker at the withstand rating of the circuit breaker frame. This function is factory set and reacts to the peak current level. It is always active regardless of the user's instantaneous adjustment selection. The instantaneous ("INST") indicator shows this cause-of-trip.

## Zone Selective Interlocking (ZSI)

The Zone Selective Interlocking (ZSI) function is an option when ordering the circuit breaker. ZSI functions in conjunction with the Short Delay and Ground Fault protection functions. ZSI provides the fastest possible tripping for faults within the zone of protection of the circuit breaker and also provides positive coordination among all circuit breakers in the system.

## Operating Temperature

All models of trip units are designed for commercial/industrial circuit breaker environments. The frames are rated for load and temperature per individual circuit breaker. As an additional protection, if temperatures in the PXR trip-unit exceed 105°C (220°F), a factory set over-temperature protection feature will trip the circuit breaker to protect the internal electronic components.



# Power Defense Molded Case Circuit Breaker

## Introduction to trip units

### Protection Settings Overview

The following table shows an overview of protection functionality available in the PXR family trip units in Power Defense circuit breakers. Please consult technical specification for full details of each trip unit and circuit breaker. Note that external control voltage is not required for protection functionality.

Protection Settings	PXR 10	PXR 20	PXR 25	Units
- Available Protection Styles	LI LSI	LSI LSIG LSI with ARMS LSIG with ARMS	LSI LSIG LSI with ARMS LSIG with ARMS	-
<b>Overload Protection (L)</b>				
$I_r$	Pickup	10 settings	10 settings	Amps
$t_r$	Time delay at $6 \times I_r$	Fixed at 10	10 settings	Seconds From 0.50
$t_r$	Reverse time	$I^2t$	$I^2t$	$I^2t/14t$ -
-	Thermal memory	Enable/Disable	Enable/Disable	Enable/Disable
<b>Short Circuit Protection (S)</b>				
-	Enable/Disable (OFF position)	Yes	Yes	Yes -
$I_{sd}$	Pickup	6 settings 2.0 to 10	9 settings From 1.50	Variable $\times I_r$
$t_{sd}$	Time delay flat	2 settings 0.15 or 0.30	7 settings 0.05 to 0.50	Variable 0.05 to 0.50 Seconds
$t_{sd}$	Time delay $I^2t @ 8 \times I_r$	0.30	3 settings 0.07/0.15/0.30	Variable 0.07 to 0.30 Seconds
-	Zone Selective Interlock With indication	Not available	Enable/Disable	Enable/Disable -
<b>Instantaneous Protection (I)</b>				
$I_i$	Pickup	10 settings	10 settings	Variable From 2.0 $\times I_n$
<b>Ground Fault Protection (G)</b>				
-	Enable/Disable (OFF position)	Not available	Enable/Disable	Enable/Disable -
$I_g$	Pickup – trip		6 settings From 0.2	Variable $\times I_n$
	Pickup – alarm only		3 settings 0.20/0.50/1.0	Variable -
$t_g$	Time delay flat		7 settings 0.10 to 1.0	Variable -
	Time delay $I^2t @ 1.0 \times I_r$		3 settings 0.07/0.15/0.30	Variable -
-	Bell contact		Optional	Configurable -
	Thermal memory		Enable/Disable	Enable/Disable -
<b>Neutral Protection</b>				
-	4th pole or external neutral trip	3 settings 0.60/1.0/OFF	3 settings 0.60/1.0/OFF	3 settings 0.60/1.0/OFF $\times I_r$
<b>Maintenance Mode Protection (ARMS)</b>				
-	Maintenance Mode with indication	Not available	Local OFF w/ remote enable; or local ON	Local OFF w/ remote enable; or local ON -
	Pickup		5 settings 2.5/4.0/6.0/8.0/10	5 settings 2.5/4.0/6.0/8.0/10 $\times I_n$
	Status indication		Optional	Optional -
<b>General</b>				
-	Cause-of-trip	In memory	In memory	In memory -
		-	Visual indication	Visual indication -
	High load alarm 1	Not applicable	85%	Variable $\times I_r$
	High load alarm 2		105%	50% to 120%
	High load alarm 3 pickup		Optional	Variable -
	Temperature trip	105 °C / 220 °F	105 °C / 220 °F	105 °C / 220 °F -

## Metering Features

The following table shows the electrical system information which is metered by the trip unit. It is available for viewing in PXPM, on the display (if equipped) or for reading via communication channels.

Metering Data	PXR 10	PXR 20	PXR 25
Current	*	*	*
Current maximum and minimum		*	*
Voltage line to line and line to neutral		*	
Voltage maximum and minimum (L-L & L-N)		*	
Power kW (real, demand, peak)		*	
Power kVAR (reactive, demand, peak)		*	
Power kVA (apparent, demand, peak)		*	
Energy kWh (total, forward, reverse) VARh (net), Vah (net)		*	
Frequency		*	
Power factor		*	

## Metering Data Specifications

Metered Value	Range of conditions (units)	PXR 10	PXR 20	PXR 25
Current (I)	5% to 10% $I_n$ (A)	5.0 %	5.0 %	1.0 %
	10% to 120% $I_n$ (A)	5.0 %	2.0 %	0.5 %
Voltage (V)	60 to 102 (V)			1.0 %
	102 to 690 (V)			0.5 %
	690 to 750 (V)			1.0 %
Power (kW) Energy (kWh)	5% to 10% $I_n$ (A)			
	102 to 690 (V)			1.5 %
	Power factor = 1			
	10% to 120 % $I_n$ (A)			
Power (kW) Energy (kWh)	102 - 690 (V)			1.0 %
	Power factor = 1			
	10% to 20 % $I_n$ (A)			
	102 to 690 (V)			1.5 %
Power (kW) Energy (kWh)	PF = 0.5 inductive or 0.8 capacitive			
	20% to 120 % $I_n$ (A)			
	102 to 690 (V)			
	PF = 0.5 inductive or 0.8 capacitive			1.0 %

Note: Accuracy is expressed as % of reading, currents are RMS, voltages are line-to-line.

## Health Monitor

The PXR 25 trip units utilize an innovative algorithm to determine a health status. The health status is continuously updated as overloads and interruption events occur. To view the factors that affect the health monitor, select the "Diagnostics" menu. The Summary screen displays a simple bar-graph while the other screens show number of operations, internal temperature, overload events or short circuit events.

## Time Current Curves

The Time-Current Curve (TCC) for every Power Defense circuit breaker with the PXR family of trip units is available at the following address on Eaton's Website: <http://www.eaton.com/Electrical/USA/Support/Documentation/TimeCurrentCurves/index.htm>

## Power Defense Molded Case Circuit Breaker

Introduction to trip units

# PXR User Interface

The PXR trip unit interface is common across all frame sizes of the Power Defense Family of circuit breaker frames (except Frame 1). This common user interface ensures rapid configuration and makes it easier to train service personnel. In each frame size, the elements of the interface are easily recognized even when compressed into smaller frames or installed horizontally.

The PXR 10 has the simplest user interface (UI), including the essential protection settings and status. The PXR 25 have the richest UI, providing setting and operational information at a glance. Refer to the front panel illustrations of the PXR 10, PXR 20 & PXR 25 to determine which user interface elements are provided.



## Key Interface Elements

### Status Indicator

All PXR trip units have an indicator in the top left labeled "STATUS". During normal operation, this indicator blinks green (on and off approximately once each second), indicating that the trip unit is operating normally.

The status indicator blinks red if the trip unit detects an internal problem. This indicates a problem with the trip actuator coil, a firmware error, or a mechanism error. Take immediate action to replace the trip unit or breaker.

When the status indicator remains off, there is no auxiliary power applied or insufficient primary current to power the trip unit. PXR trip units in MCCB will self-power at 20% of the circuit breaker frame In.

### USB – Test & Configuration Port

The lower right corner of all PXR trip units has a standard micro-B USB connector. Power Xpert Protection Manager software (PXPM) uses the USB port to configure, test and monitor the trip unit. Download the installation package for PXPM software from <http://www.eaton.com/pxpm>

A USB cable connection from a host PC will power the trip unit when the trip unit is not harvesting sufficient energy from the mains or there is no auxiliary power applied. Commercially available battery packs can also power the trip unit. This connection is intended for temporary use while a user is configuring, monitoring or testing the



trip unit.

## Trip / Cause-of-Trip indicators

All PXR family trip units record the cause-of-trip (CoT) in memory. The CoT is available by using PXPM software and via the communication networks.

There are four cause-of-trip indicators labeled "LONG", "SHORT", "INST", and "GROUND" on all except the PXR 10. The appropriate cause-of-trip indicator blinks when a current level pickup setting is exceeded. After a trip event, the appropriate indicator flashes (0.25 second on, three seconds off) and is annunciated on the display.

"LONG" – Long Delay or over temperature

"SHORT" – Short Delay

"INST" – Instantaneous, Override or Maintenance Mode

"GROUND" – Ground Fault

## Reset

The button labeled "RESET" can be pressed using a small tool. When pressed, it clears the cause-of-trip indicators, clears any latched alarms on the configurable relays and clears the ZSI "check mark" on the display (illuminates after a ZSI input signal is detected).

## Battery

For PXR units, which have cause-of-trip indicators, within the trip unit is a small tray that holds the battery. The battery supports the cause-of-trip indicators for 20 days when the trip unit is not powered. The battery plays no part in the protection functions of the trip system. On the initial installation of the circuit breaker, remove and discard the insulating tab to enable the battery. This battery is a standard CR type "coin-cell", for replacement use: CR1216.

The "RESET" button can be pressed and held for 2 seconds to test the battery. If OK, the "LONG" LED will illuminate green, if the battery should be replaced it will illuminate yellow. Battery status is also indicated in the lower right corner of the display.

## High Load Indicator

Two high load alarm set points can be configured on the PXR25 trip unit. The indicator labeled "Alarm1/Alarm2" (high load indicator) is illuminated yellow based on the configured load setting. It will illuminate (noted as: \_\_\_) when above the Alarm1 pickup and blink (noted as \_\_\_) when above the Alarm2 pickup. Note that High Load Alarm2 (blink) takes precedence over High Load Alarm1 (on).

## Maintenance Mode Switch

The PXR trip unit incorporates the Arc Flash Reduction Maintenance System™ (ARMS). The switch is labeled "Maintenance Mode" and has two positions labeled "OFF/Remote" & "ON". A blue light next to the Maintenance Mode switch illuminates when the ARMS protection is

enabled.

- "ON" - ARMS is enabled locally and cannot be disabled remotely
- "OFF/Remote" - ARMS can be enabled or disabled remotely by a dry contact, communications or PXPM

## Push to Trip

A red button on the front of the trip unit or circuit breaker provides a mechanical means of tripping the circuit breaker. Use a small tool to depress it and trip the breaker mechanism.

## Tamper Proof Cover

A clear plastic cover allows the settings to be viewed but not changed. Controlling physical access is a key element in your comprehensive security policy. Unauthorized access to change settings is prevented by insertion of a standard sealing wire through the security holes in order to meet applicable tamper-proof requirements.

## Password Security

Protecting your system from cyber security threats is very important. In addition to the tamper-proof cover, PXR trip units have a 4-digit password used to secure certain settings and to enable secondary injection testing. To change a setting, which is not set by a physical switch, will require you to enter the 4-digit password. Authorization to make changes will timeout after 10 seconds of inactivity. Password security is also enforced when using the display, PXPM software and when another device attempts a change via a communication network.

Changing the factory default password is a key element of a comprehensive cyber security policy. From the factory the default is '0000'. Upon installation of the PXR, the password should be changed (under the settings menu) and only made available to those individuals who require it.

For additional information and cyber security best practices, please go to <http://www.Eaton.com/cybersecurity>. Detailed guidance is under the "Documentation" tab on this cybersecurity home page.

## Catalog Number & In Rating

Trip unit family and protection functionality are printed in the upper right of the front panel. The rated In values are printed near the test port. The catalog number is also printed on the front, it starts with "PD" and the last 3 digits define the factory configuration options.

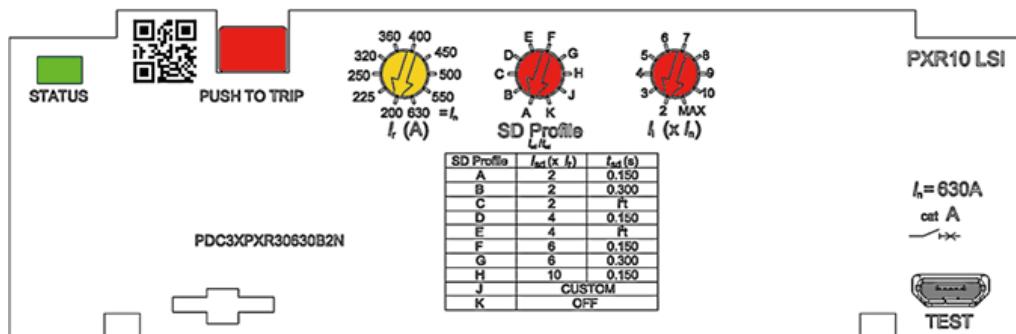
## 2-D bar Code

The 2D barcode on the front of each trip unit encodes the trip unit catalog and serial number. This can be used to look up product information that is available on-line from Eaton.

## Power Defense Molded Case Circuit Breaker

Introduction to trip units

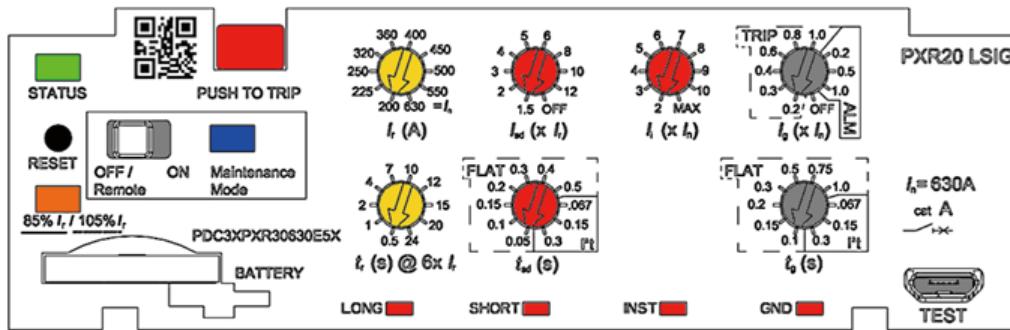
### PXR 10 (with simplified rotary switches)



The PXR 10 trip curve configuration is simple, using the switches on the front panel. LSI trip units have 3 rotary switches, while the LI version has only 2, eliminating the center "SD Profile" switch. For all, the yellow color rotary switch sets the  $I_r$  and the red switches define short circuit behavior.

The cause of any breaker tripping event Cause-of-trip (CoT) is recorded by the PXR 10 and can be accessed along with captured current values by using the Power Xpert Protection Manager (PXPM) software.

### PXR 20 (with Rotary Switches)



Depending on the trip unit style, up to 7 rotary switches can be found on the trip unit's front panel. The switches are color-coded and set protection settings using a surrounding legend indicating the value of that setting. These are the core protection settings, other configurable settings can be set using PXPM. Each switch has ten positions and is set to achieve the appropriate trip-curve response. The yellow color switches set the overload configuration, red switches set the short circuit behavior and grey switches set the ground fault behavior. The "TIME" switches set the response time in seconds. Each switch can be set using a small screwdriver, the arrow pointing to the selected value.

## PXR 25 Display (with Keypad)



The PXR 25 user interface (UI) has a display and keypad on the front of the trip unit. This display provides information regarding the operation and configuration of the trip unit. The keypad provides for navigation through the menu structures. Information is presented on the display in English, Chinese, German, Spanish, or up to 2 additional languages (loaded by PXPM). To provide for easier reading of the display with the circuit breaker installed on its side, the display is configurable to rotate 90 degrees left or right.

There are three navigation buttons near the display used to control the information shown on the display and to select configuration options:

- Up Arrow Button – Used to move up in the menu display screen or increase an adjustment value.
- Down Arrow Button - Used to move down in the menu screens or decrease an adjustment value.
- Enter Button - Used to enter a menu or configuration setting or to go back to the previous menu.

Each trip unit style has configurable settings for protection and other features. All can be configured using either the front panel or by using PXPM software.

When the PXR trip unit is initially powered-up, the display will briefly show a loading screen and then change to the Main menu. During this time, the trip unit is already functioning and performing protection operations. Depending on the trip unit style, there are up to 12 submenu selections from the main menu. Each is accessed by pressing the Down Arrow or Up Arrow buttons to highlight the appropriate submenu, then pressing the Enter button.

Back lighting is included on the display with a power saver feature that after 2 minutes of inactivity will extinguish the backlight. In addition, after 20 minutes of inactivity, the display will enter an idle-screen mode that scrolls through the most important status information and settings. Pressing any button will light the backlight and, if active, stop automatic scrolling, allowing you to get back to the menu structure. With the tamper proof cover secured, only the Up Arrow and Down Arrow buttons are accessible, pressing either will light the backlight, stop the automatic scrolling and allow you to navigate and view status and setting information.

# Power Xpert® Protection Manager (PXPM) - Configuration Software

Eaton's Power Xpert Protection Manager (PXPM) is a Microsoft® Windows-based software that configures, controls, monitors and tests Eaton PXR trip units. The user can create, modify, and save configurations for a PXR trip unit. The software further allows user to reset trip units, adjust trip unit's date and time, capture current or voltage waveforms, and perform trip or no-trip tests.

The software is available as a download from the following link: <http://www.eaton.com/PXPM>

The Power Xpert Protection Manager provides two key features. You may choose Set Point Configuration to create, modify and save configurations for PXR trip units. The Remote Control & Test offers users the ability to reset trip units, adjust trip unit time, capture current or voltage waveforms, perform trip or no-trip tests and generate test reports.

## Set Point Configuration through PXPM

Key to configuring your trip unit is the configuration screen, which allows users to view and edit set points. Typical actions available from the configuration screens include:

- View and Edit Set points – For each set point, its range, step size and description are shown in the tooltip when a user hovers the mouse cursor over that set point. A blank space for a set point indicates that user may work in offline mode, and cannot edit the read-only set point.

- Change Trip Unit - Takes user back to Create New Offline Setting Screen to modify trip unit's settings.
- Save (visible in Open Settings) - Saves changes in set points. Note that if set points have already been saved to a file, clicking Save button will overwrite the file with new set points.
- Save As - Saves set points to a configuration file. Users will be prompted to select a location and a name for the configuration file.
- Export - Sends the set points to a trip unit. The trip unit must be connected to the computer through a USB to Micro-USB cable for successful operation.
- Curves - Shows a dynamic representation of the trip-curve as you are configuring the set points. It displays long and short delay protection curves, as well as ground (earth) and instantaneous protection curves.
- Change Summary – Displays a summary of set points that have been changed in the present session. Both original and changed values are displayed.
- Extract to PDF - Exports all set points to a portable document format (PDF) file. Modified set point parameters are highlighted in the exported PDF file.
- Undo All Changes: Resets all set points to their original values.



## Remote Control & Test

When service is required, the Remote Control & Test section allows users to reset trip unit, change trip unit date and time, capture waveforms, and performs trip or no-trip tests. The test functions require no extra equipment and provide a battery of testing possibilities. All PXR trip units can perform secondary injection testing using a totally independent circuit to provide the secondary injection.

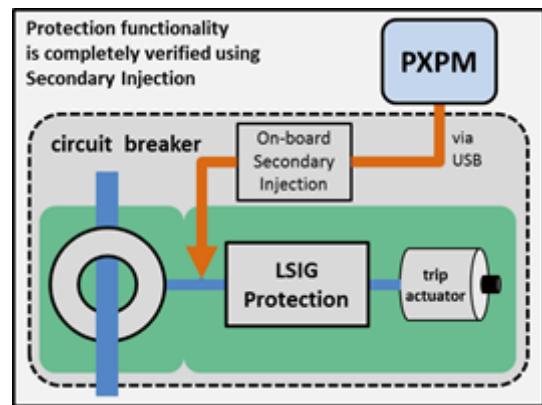
- **Reset Trip Unit** - The internal record of causes of trip, diagnostics and metering data can be reset in this set of screens.
- **Change Trip Unit Date and Time** - The internal clock that keeps track of time can be set to the desired date and time.
- **Capture Waveform** – The PXR trip units allow user to manually capture both current and voltage waveforms by simply clicking the mouse. A full cycle of waveform is captured, and displayed in the PXPM software.
- **Test Trip Unit** - The PXR trip units allow the user to perform LSIG, Maintenance Mode and Current Sensor tests. Click Test Mode button to perform test operations.

## Testing the Breaker & Trip Unit

The PXPM software controls the testing of long delay trip, short circuit short delay trip, instantaneous trip, maintenance mode, and ground (earth) fault trip via the USB communication. The software allows for testing on any phase including neutral. The trip unit's display is used to observe the current being injected and the elapsed time until trip. To perform testing will require you to enter the 4-digit password.

The PXR trip unit has two built-in functional test modes available for use. One is a Simulated current test and the other is an internal Secondary Injection current test. Either mode can be configured for opening or not opening the breaker.

The Simulated test is an easy test to verify multiple points on the Time-Current curve. The test current values are simulated in the software algorithms to precisely verify the accuracy of the trip unit.



For internal Secondary Injection testing, the trip unit uses an independent built-in circuit to generate a test signal, which is injected into the sensor input circuit. This test feature replaces the need for an external secondary injection test kit.

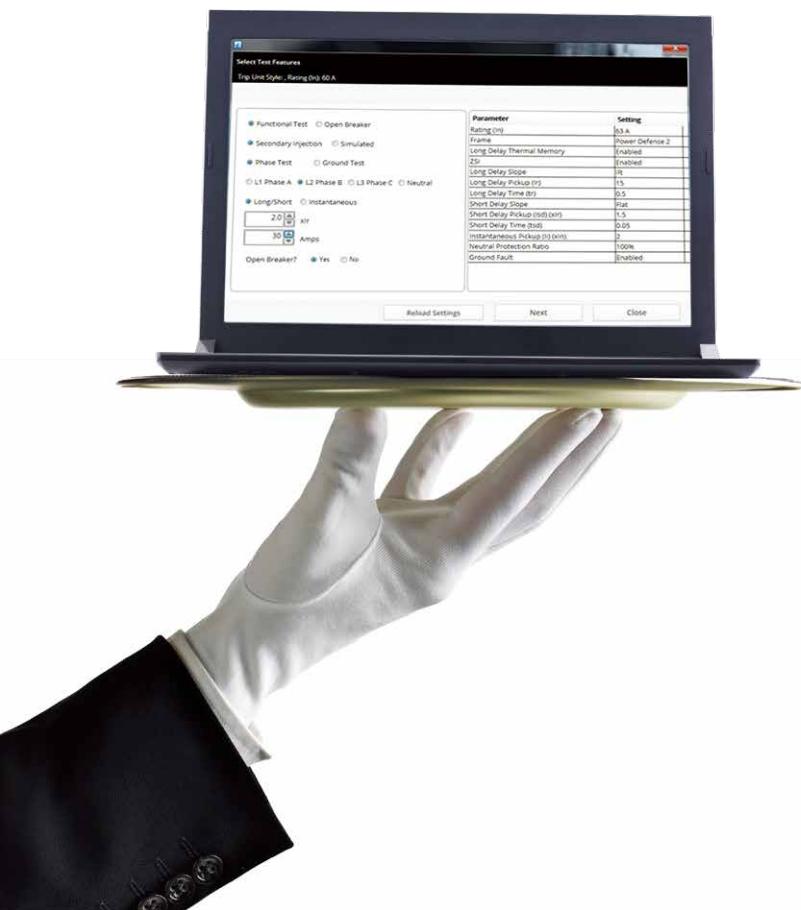
### Typical test set-up dialog box:

When beginning a test session, parameter values for "As Found" are captured. Selecting various test options, setting the current to be injected, executing the tests, and recording the results can be done in multiple passes within one test session. Parameter values for "As Left" are captured when the Test operation is stopped. Any difference between "As Found" and "As Left" parameter values will be highlighted.

The Generate Report function will record the testing results in a PDF file. The user can input information regarding the customer and breaker's location, environment, condition, etc. as part of the report. The report includes the settings and results of all tests run in that session.

## Record Keeping

The Power Xpert Protection Manager software provides printable copies of configuration and test results. If desired, make a copy and attach it to the interior of the circuit breaker cell door or another visible location. This information should be used and maintained by those personnel in your organization that have the responsibility for protection equipment.



## Power Defense Molded Case Circuit Breaker

### Introduction to trip units

# Event, Alarm and Trip Recording with Waveform Capture

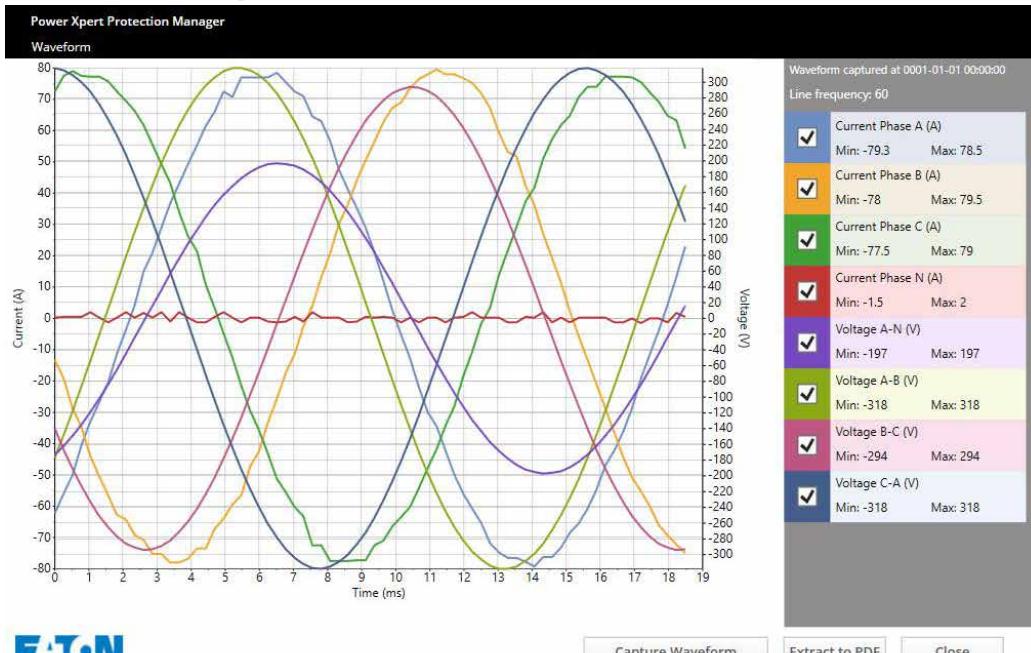
The PXR trip unit will record information surrounding events, alarms, and trips into a set of logs. The information is easily viewed using PXPM software. For simple events, only the reason and a time-stamp (based on the trip unit's real-time clock) are stored. Important events additionally store a snapshot of real-time values (currents and voltages). The most important events store additional information, storing waveforms of current and voltage experienced during the event as long as auxiliary power is applied. For a trip waveform, 10 cycles (6 pre-event and 4 post-event) are saved for review using PXPM software.

Each log can store a set number of events and is managed as a first-in first-out buffer (FIFO). As the information is stored for the most recent event, the information from the oldest event is eliminated.

## Trigger & Data Log Matrix

What triggers a capture:	What data is captured:			
	Event cause time-stamp			
	Current: IA/IB/IC/IN/IG Voltage: VAB/VBC/VCA/VAN/VBN/VCN (PXR 25 Only) Power & demand: Watts, Var, VA (PXR 25 Only) Power factor (PXR 25 Only) Line frequency Breaker operations count Trip unit internal temperature	Waveform of IA/IB/IC/IN/IG Waveform of VAB/VBC/VCA/VAN/VBN/VCN (PXR 25)		
Event – Power Up – Clock OK	•	-	-	-
Event – Power Up – Clock Bad	•	-	-	-
Event – Set Points Download	•	-	-	-
Event – Enter Test Mode	•	-	-	-
Event – Exit Test Mode	•	-	-	-
Event – Test Complete	•	-	-	-
Event – Enter Maintenance Mode	•	-	-	Indicator also illuminates
Event – Exit Maintenance Mode	•	-	-	-
Event – Time Change (if >60 seconds)	•	-	-	Previous time is recorded
Alarm – Calibration	•	-	-	-
Alarm – Set Points Fault	•	-	-	-
Alarm – Battery Low Voltage	•	-	-	-
Alarm – Low Control Voltage	•	-	-	-
Alarm – RTC Error	•	-	-	-
Alarm – NV Memory Error	•	-	-	-
Alarm – Watchdog Timer	•	-	-	-
Alarm – Long Delay Pickup (Test Mode)	•	•	-	-
Alarm – Ground Fault (Test Mode)	•	•	-	-
Alarm – Trip Actuator Fault	•	-	-	-
Alarm – Operations Count	•	-	-	-
Alarm – Long Delay Pickup	•	•	•	-
Alarm – Ground Fault	•	•	•	-
Alarm – High Load	•	•	•	-
Alarm – Neutral Current	•	•	•	-
Trip – Over Temperature	•	•	-	-
Trip – Test	•	•	-	-
Trip – Long Delay	•	•	•	
Trip – Short Delay	•	•	•	
Trip – Instantaneous	•	•	•	
Trip – Ground	•	•	•	Up to ten events can be recorded together with the waveform of the most recent trip event (6 cycles pre-event and 4 cycles post-event)
Trip – Maintenance Mode	•	•	•	
Trip – Neutral	•	•	•	

## Waveform Capture



## Test Report

### Power Xpert Protection Manager for PXR 20/25 Trip Units - Test Report

Created: 4/27/2018 10:17:38 AM

Customer Information									
Customer Name	Eaton Corporation								
Plant Location	Beaver, PA								
Job#	10000								
Device Summary									
Manufacturer	Eaton								
Circuit Breaker Type/Model	Power Defense 2								
Circuit Breaker Serial Number									
Circuit Breaker Frame Rating (A)	-								
Electronic Trip Unit Model									
Electronic Trip Unit Serial Number									
Electronic Trip Unit In	63 A								
Voltage class	480Vac								
Frequency	60hz								
Circuit Breaker Location									
Room/vault/switchgear #	Main Switchgear room								
Cell #	2								
Environment Data									
Temperature	65F								
Humidity	30%								
Equipment Condition									
Circuit Breaker	PD2								
ETU	PXR 25								
Enclosure	Feeder 2								
Protection / Configuration Settings #1									
Parameter	Setting	Parameter	Setting	Parameter	Setting				
Maint. Mode	N/A	HLA	100 %	GST	Residual				
MM Trip Level	N/A	SDS	I <sup>t</sup>	GF Setting	Off				
LDTM	Disabled	SDPDU	1.5	GFS	I <sup>t</sup>				
LDS	I <sup>t</sup>	SDT	0.25	GFPU	0.20				
LDPU	16	INST	2	GFT	0.150				
LDT	10	ZSI	Disabled	NPR	100%				
LSIG Test Results #1									
Test Settings			Test Results						
Phase	Current (Amps)	Multiple (xI <sub>r</sub> /xIn)	Current Type	Test Type	Open Blk	Cause	Time	Result	
A	1239	19.7xIn	Sec. Inj.	Instantaneo	us	No	Instantaneous	32ms	Trip

# **Power Xpert® Release -Multiple Protection Settings**

The PXR trip unit protection settings are easily customized to any application. Settings for long delay trip, adjustable long delay time, short delay protection, adjustable short delay time, instantaneous trip, ground fault protection, and ground fault time are all configurable. These functions are set using Power Xpert Protection Manager (PXPM) software, or rotary switches or the UI on the front of the trip unit.

Maximum and minimum settings will vary by trip unit style and breaker frame. Available settings of PXR models and circuit breaker frames are summarized.

Before delivery from the factory, set each trip unit protection setting to default values by the engineer responsible for the installation.

- **Long Delay Pickup and Time Settings**
- **Short Delay Pickup and Time Settings**
- **Instantaneous Pickup Settings**
- **Ground Fault Settings**
- **Maintenance Mode Protection (ARMS)**

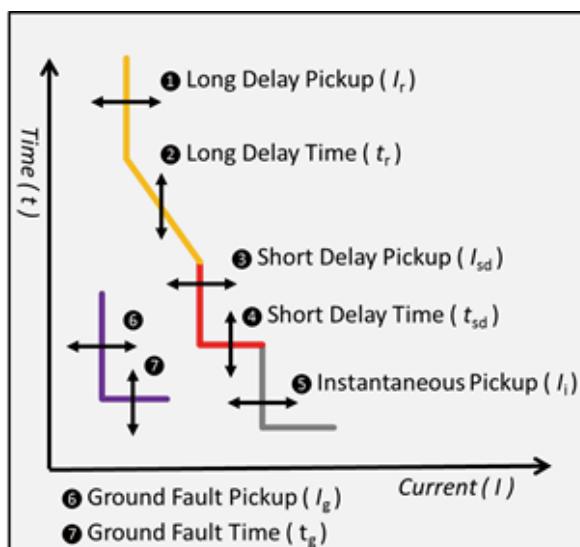


## Long Delay Pickup and Time Settings

The PXR trip unit offers a wide range of settings for Long Delay Pickup (LDPU or  $I_r$ ). The actual pickup value for Long Delay will be 110% of the set point value with a +/- 5% tolerance to ensure that the circuit breaker can carry the over-load current rating of ( $I_r$ ), without tripping.

The long delay time setting value represents the clearing times when the current value equals six times ( $I_r$ ). All times are referenced from the top of the tolerance band, ensuring that the time never exceeds that maximum setting.

$I_r$  is also the base for the short delay current setting.



### Long Delay Slope Selection

The  $I^{2}t$  setting is the factory default curve for long delay. Certain styles of trip unit offer other slope selections. The curve can be changed using PXPM software or the UI to better match application requirements for protection and coordination.

- $I^2t$  - Inverse Time Current Curve, used in standard distribution protection (factory default)
- $I^4t$  - Extremely Inverse Time Current Curve, for coordination with fuses or special types of loads

### Long Delay Thermal Memory

In addition to the standard Long Delay protection, a Long Time Memory (LTM) function is supported. This protects load circuits from the effects of repeated overload conditions. LTM is enabled from the factory but can be reconfigured using the UI or by using Power Xpert Protection Manager (PXPM) software.

As an example, if a circuit breaker is closed soon after a Long Delay trip, and the current again exceeds the Long Delay setting ( $I_r$ ), the LTM automatically reduces the time to trip to allow for the fact that the load conductor temperature is already higher than normal because of the prior overload condition. When the load current returns to normal, below pickup, the LTM will begin to reset (after about ten minutes it will have reset fully) so the next long delay trip time will

again correspond to cold start on the curve. In certain applications and when doing repetitive field testing, it may be desirable to disable the LTM function.

## Short Delay Pickup and Time Settings

Settings for Short Delay Pickup (SDPU or  $I_{sd}$ ) are expressed as multiples of the long delay pickup current setting ( $I_r$ ).

The short delay time ( $t_{sd}$ ) is selected in conjunction with one of two short delay slopes, flat, or  $I^2t$ . The  $I^2t$  response curve will provide a longer time delay for currents below eight times  $I_r$  as compared with a flat response curve. For currents greater than eight times  $I_r$ , the  $I^2t$  response reverts to a flat response.

The optional Zone Selective Interlocking (ZSI) feature may affect the tripping times for the short delay protective function.

## Instantaneous Pickup Settings

The instantaneous ( $I_i$ ) setting is expressed as multiples of the circuit breaker frame rating ( $I_n$ ). The instantaneous protection trips the breaker with no intentional time delay.

## Ground Fault Settings

When the PXR 20, 25 trip unit includes ground fault protection features, the distribution system characteristics (such as system grounding, number of sources, and number and location of ground points) must be considered along with the manner and location in which the circuit breaker is applied to the system. To ensure correct ground fault equipment performance and compliance, you must conduct the field testing required to comply with country or regional requirements.

### Ground Fault Pickup

The PXR trip unit provides flexibility in detecting and acting on ground currents. A ground fault alarm can provide an early warning of a ground fault condition and a ground fault trip can provide protection under these conditions. Three modes of operation are selectable on the trip unit.

- The ground detection may be turned off by selecting "OFF".
- The ground fault detection pickup level with an alarm only action can be used by selecting "Alarm". Multiple levels of pickup are available depending on the trip unit style.
- The ground fault pickup level with an action of trip may also be used by selected "Trip", if a ground fault causes the circuit breaker to trip.

### Ground Fault Time

The PXR trip unit provides selection for two different ground fault slopes: a fixed time (flat) or  $I^2t$  response. The slope should be chosen to match coordination needs. The  $I^2t$  slope response provides a longer time delay for coordination of currents below 1.0 x  $I_n$  frame. After 1.0x the response reverts to a fixed time (flat) response. The time delay and slope are selected using PXPM or the user interface (UI).

## Power Defense Molded Case Circuit Breaker

### Introduction to trip units



#### Ground Fault Thermal Memory

In addition to standard ground fault protection, the PXR trip unit also has a ground fault memory function. This protects load circuits from the effects of intermittent ground faults over a short period of time. Ground fault memory is enabled from the factory but can be reconfigured using the UI or by using Power Xpert Protection Manager (PXPM) software.

Consider an example where there is "sputtering" ground fault. With ground fault memory, the trip unit "remembers" the sputtering ground current. When the ground current returns to normal, below pickup, the memory will begin to reset (after about ten minutes it will have reset fully). The next ground trip time will again correspond to the curve. Without this function enabled, ground fault protection memory resets each time the arc goes out, so that a sputtering fault may not trip the circuit breaker.

#### Ground Fault Relay

If the Ground Fault Alarm option is selected, a red ground Alarm indicator will illuminate to show the presence of ground current in excess of the Ground Alarm setting. The optional relays in the trip unit can be configured to energize an alarm relay upon this condition. The indicator and relay will reset automatically when the ground current reduces to a value less than the ground fault pickup setting.

If the Ground Fault Trip option is selected, the trip unit can indicate the cause of trip when the circuit breaker has tripped on a ground fault. You must then push the "RESET" button in order to reset the relay contact.

#### Ground Fault Sensing

Depending on different frames, the PXR 20/25 trip unit provides for different modes of sensing to detect ground fault currents: Residual, Source Ground, and Zero Sequence. The mode is selected using the UI or by using the configuration software.

#### Residual Current Sensing

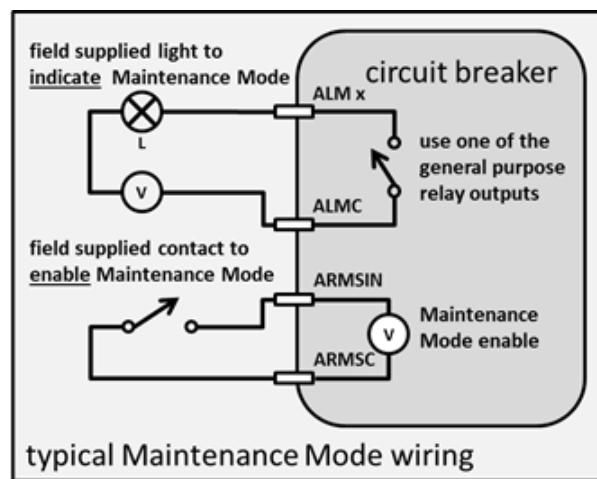
Residual sensing is the standard mode of ground fault sensing in PXR based circuit breakers. This mode uses one current sensor on each phase conductor and one on the neutral for a four-wire system. If the system neutral is grounded, but phase to neutral loads are not used, the PXR trip unit includes all of the components necessary for ground fault protection. This mode of sensing sums the outputs of the three or four individual current sensors. If the sum is zero, then no ground fault exists. Residual ground fault sensing features are adaptable to main and feeder circuit breaker applications. If an external neutral

sensor is used with reverse feed breaker applications, the proper polarity of the neutral needs to be considered.

## Maintenance Mode Protection (ARMS)

The PXR trip units support Eaton's Arc Flash Reduction Maintenance System (ARMS), also known as Maintenance Mode. When maintenance is being performed and the ARMS is enabled, the trip unit will trip the breaker with no intentional delay whenever the configured pickup level is exceeded. The Maintenance Mode protection overlays the LSI protection functions and operates in parallel. If Maintenance Mode causes the circuit breaker to trip, the "INST" indicator will be illuminated and the "Maintenance Mode Trip" message will be displayed if the style of trip unit has a display.

The Maintenance Mode pickup level setting is configured using the UI or PXPM software. They range from 2.5 (most protective) to 10, expressed as a multiplier of  $I_n$ . The adjustable current settings allow for different levels of protection. A higher level may be needed when, for example, another load fed from the ARMS protected breaker may contain motors that are being started and create large inrush currents over the lowest trip current level. The protection settings should be determined and selected by a person who is experienced in power system analysis.



## Override

The PXR trip unit provides an override trip function that will trip the circuit breaker at the withstand rating of the circuit breaker frame. This function is factory set and reacts to the peak current level. It is always active regardless of the user's instantaneous adjustment selection. The instantaneous ("INST") indicator shows this cause-of-trip.

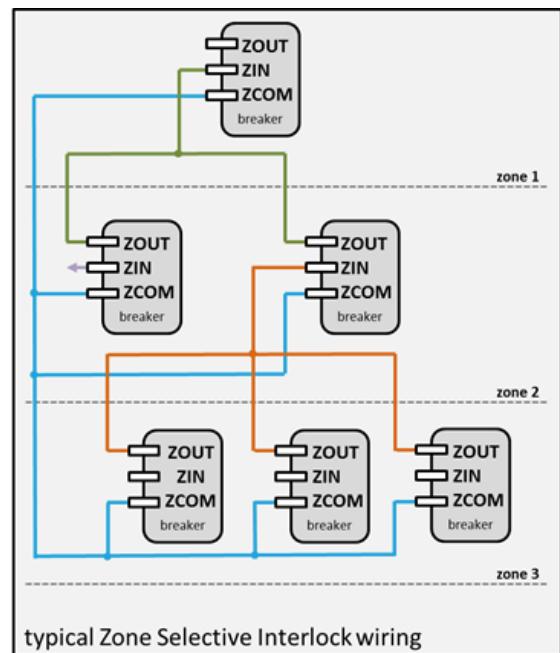
## Zone Selective Interlocking (ZSI)

The Zone Selective Interlocking (ZSI) function is an option when ordering the circuit breaker. ZSI functions in conjunction with the Short Delay and Ground Fault protection functions. ZSI provides the fastest possible tripping for faults within the zone of protection of the circuit breaker and also provides positive coordination among all circuit breakers in the system (mains, ties, feeders, and downstream circuit breakers). Application note (AP02602002E) is available and has additional detail.

When ZSI is enabled, a fault within the zone of protection will immediately trip the breaker and send a signal to upstream trip units to restrain them from tripping immediately. The restraining signal causes the upstream circuit breakers to follow their set coordination time delays so that the service is interrupted to the isolated fault area.

The ZSI is wired using a set of three wires labeled Zone In (Zin), Zone Out (Zout), and Zone Common (Zcom). These signals are compatible with all Eaton circuit breakers which have the ZSI function. The zone out signal is sent whenever a ground fault pickup or short delay pickup is exceeded. This provides maximum selectivity for coordination with larger upstream circuit breakers.

ZSI in the PXR trip unit is fully compatible with ZSI in the Magnum Digitrip, OPTIM and 310+ Series C and Series G trip units. If a PXR trip unit has the ZSI option but it is not needed in an application, it may be disabled using the Power Xpert Protection Manager software or the menus on the UI, or the ZOUT and ZIN may be connected to "self-interlock" the unit.



PXR trip units with a display have a visual indication of the ZSI system being active and connected to the other breakers in the ZSI system. A small check-mark will appear next to the ZSI when the trip unit receives a ZSI-IN signal. The general-purpose, configurable, relay contacts may also be programmed to indicate ZSI signals and status.

## Operating Temperature

All models of trip units are designed for commercial/industrial circuit breaker environments. The frames are rated for load and temperature per individual circuit breaker. As an additional protection, if temperatures in the PXR trip-unit exceed 105°C (220°F), a factory-set over-temperature protection feature will trip the circuit breaker to protect the internal electronic components.



## Power Defense Molded Case Circuit Breaker

### Introduction to trip units

# Communication Functionality

## Integrated Modbus Remote Terminal Unit (RTU)

A Modbus communication port is integrated into the PXR trip unit. Breaker status (closed/tripped/open), set points and operating information are all available via Modbus. The trip unit responds to messages from the master using the Remote Terminal Unit (RTU) protocol. Modbus port configuration can be viewed and set using the user interface (UI) or using Power Xpert Protection Manager software. The trip unit uses Modbus function codes 02 (read discrete input), 03 (keep register), 04 (read/input register), 06 (write a single register), 08 (diagnose/only use for serial link), and 16 (write several registers), and supports up to 122 registers (244 bytes) in a single Modbus transaction.

## USB Port

The PXR includes a micro-B form USB port on the front of the trip unit. This USB connection is used in conjunction with your PC running the Power Xpert Protection Manager (PXPM) software to configure, control, and test the trip unit. The USB host-side also supplies power to the trip unit for configuration and trip unit testing (both trip and no-trip) when the circuit breaker is not carrying current or when no auxiliary power is applied. A commercial USB battery supply may also be used.

The USB port is covered by the clear, lockable cover to prevent unauthorized modification to settings. Controlling physical access to the USB port is a key element in your comprehensive cyber security plan.

## External Communications Adapter Modules (CAM)

The PXR 20, 25 trip units are equipped to handle a flexible and modular system operation by using Communication Adapter Modules (CAMs). These modules provide communication from the trip unit to a field bus network. These modules mount on a DIN rail and wired into the trip unit.



The supported networks are listed below:

Network	Module Name	Instruction Leaflet	Wiring Harness
ETHERNET	PXR-ECAM-MTCP-AS (CCP00001)	IL0131132EN	Field wired
PROFIBUS	PXR-PCAM	IL120009EN	Field wired
<b>Legacy CAM modules</b>			
Modbus-RTU	MCAM	IL0131091EN	IL019001EN
INCOM	ICAM	IL01301033E	IL019001EN

# External Wiring of the Trip Unit

The PXR family has a rich set of options for integrating the trip unit into a larger system. Wires exit the breaker at the rear through a trough on both the left and right side. The wiring functionality and color coding is identical throughout the family and frames.

## Wiring Table

Wire colors and function are consistent across all PXRs in the Power Defense family. The styles and options ordered determine which of the following wires are provided.

Feature	Short Name	Color	Proposed Text On Shrink-Wrap	Notes
Aux Power	AUX V	Orange	+24V	Auxiliary power is required for running relays or Modbus communication. Eaton's EASY400 series (Model: EASY400-POW-CN) is recommended or 240VDC 1A and above source is purchased separately.
	AUX CMN	Orange / Black	GND	
ZSI	ZIN	Yellow / Black	ZIN	These connect to other ZSI enabled breakers in the system. Maximum length of 75 meters (250 feet) using AWG # 22 wire.
	ZOUT	Yellow / Black	ZOUT	
Neutral Sensor	ZCOM	Yellow	ZCOM	Connect to the external neutral current sensor.
	N1	Grey	N1	
Voltage Sensor	N2	White	N2	Connect to the neutral module and then the neutral bus.
	NV	White / Grey	NV	
Alarm Relay (s)	ALM1	Black / Red	ALM1	Normally open contacts, close when the associated alarm is active. Contacts rated to 240VAC, 1 Amp
	ALM2	Black / White	ALM2	
	ALM3	Black / Violet	ALM3	
	ALMC	Black	ALMC	
Modbus	Modbus A (D-)	Green / Red	MBA	Modbus RTU, max of 99 nodes, max length of 1200 meters (4000 ft.). Recommended Cable: twisted-pair shield, 120 ohms impedance. Typical model: Belden 3105A
	Modbus B (D+)	Green / Black	MBB	
	Modbus Com	Green	MBG	
Maintenance Mode	ARMSIN	Brown	AIN	External dry contact. This is a low-voltage signal, use a high-quality gold contact and keep wire length under 3 meters (15 feet).
	ARMSC	Brown / White	AC	
Communication Adapter (CAM) Link	CMM1(TX+)	Violet / Green	CMM1	Connection to the selected CAM module.
	CMM2(TX-)	Violet / Yellow	CMM2	
	CMM3 (RX+)	Violet / White	CMM3	
	CMM4 (RX-)	Violet / Red	CMM4	
	COMM(GND)	Violet	CMMG	

## Auxiliary Power

Providing auxiliary power to the PXR trip unit will provide full functionality even when the circuit breaker is open or when the circuit breaker is under very light load such that the self-powering current transformer cannot provide sufficient energy to fully power the trip unit.

The power requirements are: 24 VDC +/- 10%, 1.0 A. The Eaton PSG family of power supplies with 24V output are recommended. One supply can feed multiple PXR trip units if desired.

REMEMBER: Auxiliary power is not required to provide current protection features. Protection is active well before any overload. The trip unit begins to power-up at very low levels of current (approximately 20% of the frame rating). For single-phase applications, self power occurs at a higher current threshold (approximately 30% of the frame rating).



## General Purpose Relay Mapping

The PXR family supports optional general purpose relay contacts (1 to 3 relays depending on the PXR model and the breaker frame). Any relay in the PXR can be configured to any one of the functions. The mapping is conveniently done using the Power Xpert Protection Manager software. Relays require auxiliary power to operate.

Function Name	Description of Relay Operation: “The Relay will close when ...”	“The relay will open when ...”
Auxiliary Contact	breaker is closed	breaker is open
Bell Contact	breaker is tripped	breaker is not tripped (open or closed)
Trip Alarm - Overload	there is a Long or Over-temperature trip	RESET button is pressed or communications reset command received
Trip Alarm - Neutral Current	there is a Neutral Current trip	RESET button is pressed or communications reset command received
Trip Alarm - Short Delay	there is a Short Delay trip	RESET button is pressed or communications reset command received
Trip Alarm - Instantaneous	there is an Instantaneous trip	RESET button is pressed or communications reset command received
Trip Alarm - Short Circuit	there is a Short, Inst or Override trip	RESET button is pressed or communications reset command received
Trip Alarm - Ground Fault	there is a Ground Fault trip	RESET button is pressed or communications reset command received
Trip Alarm - (ARMS) Maintenance Mode	there is a Maintenance Mode trip	RESET button is pressed or communications reset command received
Trip Alarm - All Trips	there is any type of protective current (all the above) trip	RESET button is pressed or communications reset command received
Alarm - High Load Alarm 2	current flow is greater than set point (adjustable from 50% to 120% of Ir) Note: Alarm1/Alarm2 LED will BLINK	current flow falls 5% below the set point
Alarm - High Load Alarm 1	current flow is greater than set point (adjustable from 50% to 120% of Ir) Note: the Alarm1/Alarm2 LED will be ON	current flow falls 5% below the set point
Alarm - High Temperature	temperature exceeds 5C below the level of the temperature trip setting	temperature falls 5C below the trip setting
Alarm - Ground Fault Pre-Alarm	ground current is greater than the set point (adjustable from 50% to 100%)	ground current falls 5% below the set point
Alarm - Thermal Memory	the Thermal Memory value is >75%	the Thermal Memory value is <70%
Alarm - Watchdog & Aux Power	auxiliary power is active and the trip unit is healthy and operating.	there is an error in the trip unit from any of the self-diagnostics
Alarm - Low Battery	the battery is below 1 bar (25%)	the battery value is 1 bar (25%) or higher
Fault - Internal	there is an internal fault detected	RESET button is pressed or communications reset command received
Fault - Health	the health value is below 25%	the health value is at or above 25%
Fault - Communication	any external communications error occurs	RESET button is pressed or communications reset command received
Alarm - All fault alarms	any of the above 4 faults are active	all of the above 4 faults are inactive
Maintenance Mode Active	the trip unit is in the Maintenance Mode	when the trip unit exits Maintenance Mode
ZSI Active	the ZSI function active	ZSI is not active
ZSI Input Received	a ZSI INPUT signal is received	RESET button is pressed or communications reset command received
ZSI Output Sent	a ZSI OUTPUT signal is sent	RESET button is pressed or communications reset command received
Open Breaker Pulsed	an OPEN breaker command from any of the communications channels is received	2 seconds after the OPEN breaker command is received
Close Breaker Pulsed	a CLOSE breaker command from any of the communications channels is received	2 seconds after the CLOSE breaker command is received
Output 1	an Output 1 ON command is received on any of the communications channels	an Output 1 OFF command is received on any of the communications channels
Output 2	an Output 2 ON command is received on any of the communications channels	an Output 2 OFF command is received on any of the communications channels

# Maintenance of the Trip Unit

Minimal maintenance is required. Keep the clear plastic cover in place regardless of if you lock it or not to help keep the front of the unit clear of dirt. Do not insert any foreign objects into the USB port; this may damage the connector's contacts. Do not subject the trip unit to any harsh chemicals or gasses to preserve the original look and feel of the unit.

## Replacing the Battery

The battery is provided in certain PXR styles to maintain the LED indication of the cause-of-trip. A battery icon at the bottom of the display indicates remaining battery life. The battery plays no part in the protection function of the trip system. The battery can be replaced at any time, even while the circuit breaker is in-service, without affecting the operation of the circuit breaker or its protection functions.

The 3 V lithium battery, type CR1216 ("coin-cell"), is easily removed and replaced; pull to remove the battery tray, remove the old battery from the holder, replace with new one (observe proper polarity as marked on the tray), and then re-insert the battery tray into the slot on the trip unit. In the PD2, remove the cover above the handle & pockets using a small screwdriver to access the battery. Installing the battery in the reverse direction will not harm the battery or the trip unit, but will defeat the function of the battery.

## Replacing the Electronic Trip Unit

Although not typically needed, certain styles of the PXR trip unit can be changed in the field to add features. The Instruction Leaflet for each trip unit includes instructions for possible replacement and/or addition of features.







## I Technical Data of Trip Units I

## Thermomagnetic Trip Units

Rated current	$I_n$ (A) <sup>①</sup>	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630	800
Circuit Breaker	PDC1	•	•	•	•	•	•	•	•	•	•	•							
	PDC2										•	•	•	•					
	PDC3										•	•	•	•	•	•	•		
	PDC4																	•	

### Overload protection (thermal protection)

Tripping current setting (A)	$I_t = I_n \times \dots$	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630	800
Factory setting $I_t$ (A)	PDC1					0.8,0.9,1.0													
	PDC2									0.8,0.9,1.0									
	PDC3												0.8,0.9,1.0						
	PDC4															0.8,0.9,1.0			

### Short-circuit protection (magnetic protection)

	$I_j = I_n \times \dots$	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630	800
Short circuit protection current setting (A)	PDC1	21.9 (350A)	17.5 (350A)	14 (350A)	11 (350A)	8,9,10		6,7,8,9,10			8								
	PDC2									5,6,7,8,9,10									
	PDC3												5,6,7,8,9,10						
	PDC4															5,6,7,8			

### Single magnetic protection (motor protection)

	$I_j = I_n \times \dots$	1.2	2	3	5	8	12	18	26	33									
Short circuit protection current setting (A)	PDC1 小电流					8,10,12,14													
	$I_j = I_n \times \dots$	40	50	63	80	100	90	125	160	200	220	250	320	400	500	630			
	PDC1				8,10,12,14		8,10,12,5												
	PDC2							6-14		6-12.5	6-11.36								
	PDC3															5-10			
	PDC4																		

<sup>a</sup> When the temperature is higher than 40° C, protective features should be corrected.

中性线保护 (4P=100%)。

## Power Defense Molded Case Circuit Breaker

Technical data of trip units

### Power Xpert Release (PXR) Electronic Trip Unit - PDC9

The following tables detail the settings available in each PXR and circuit breaker frame style.

#### PDC9 PXR10 Settings (LI)

Frame	63A	100A	160A	All	63A	100A	160A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_i(nxI_n)$	$I_i(nxI_n)$	$I_i(nxI_n)$
Switch	1			-	2		
1	16	25	40	10	2	2	2
2	18	32	50	10	3	3	3
3	20	40	63	10	4	4	4
4	25	50	70	10	5	5	5
5	32	55	80	10	6	6	6
6	40	63	90	10	8	7	8
7	45	70	100	10	10	8	10
8	50	80	125	10	12	9	12
9	55	90	150	10	15	10	14
10	63	100	160	10	17.4	11.0	13.1

#### PDC9 PXR10 Settings (LSI)

Frame	63A	100A	160A	All	SD Profile	63A	100A	160A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(nxI_r)$	$t_{sd}(s)$	$I_i(nxI_n)$	$I_i(nxI_n)$
Switch	1			-	2		3	
1	16	25	40	10	2.0	0.150	2	2
2	18	32	50	10	2.0	0.300	3	3
3	20	40	63	10	2.0	12t	4	4
4	25	50	70	10	4.0	0.150	5	5
5	32	55	80	10	4.0	12t	6	6
6	40	63	90	10	6.0	0.150	8	8
7	45	70	100	10	6.0	0.300	10	8
8	50	80	125	10	10.0	0.150	12	9
9	55	90	150	10	2.0 to 10.0	0.05 to 0.30	15	10
10	63	100	160	10	OFF	-	17.4	11.0
					Configurable using PXPM software			

#### PDC9 PXR10 MCP Settings (LSI)

Frame	63A	100A	160A	Trip Level	Phase Imbalance All	63A	100A	160A
Setting	$I_r$	$I_r$	$I_r$			$t_{sd}(s)$	$I_i(nxI_n)$	$I_i(nxI_n)$
1	16	25	40	5	No	50ms (Fixed)	3	3
2	18	32	50	10	No	50ms (Fixed)	4	4
3	20	40	63	15	No	50ms (Fixed)	5	5
4	25	50	70	20	No	50ms (Fixed)	6	6
5	32	55	80	30	No	50ms (Fixed)	7	7
6	40	63	90	5	Yes	50ms (Fixed)	8	8
7	45	70	100	10	Yes	50ms (Fixed)	10	10
8	50	80	125	15	Yes	50ms (Fixed)	11	11
9	55	90A - 12.2x max	150	20	Yes	50ms (Fixed)	12	12*
10	63	100A - 11x max	160	30	Yes	50ms (Fixed)	13	13*
					Override=	1100	1100	2100
					Max =	17.46	11.00	13.13

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

**PDC9 PXR20 Settings**

Frame	63A	100A	160A	All	All	63A	100A	160A	G Styles	
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_i(n \times I_n)$	$I_i(n \times I_n)$	$I_g(n \times I_n)$	$t_g(s)$
Switch	1			2	3	4	5		6	7)
1	16	25	40	0.5	1.5	0.050	2	2	2	0.20
2	18	32	50	1.0	2.0	0.100	3	3	3	0.30
3	20	40	63	2.0	3.0	0.150	4	4	4	0.40
4	25	50	70	4.0	4.0	0.200	5	5	5	0.60
5	32	55	80	7.0	5.0	0.300	6	6	6	0.80
6	40	63	90	10.0	6.0	0.400	8	7	8	1.00
7	45	70	100	12.0	8.0	0.500	10	8	10	0.20
8	50	80	125	15.0	10.0	0.067	12	9	12	0.50
9	55	90	150	20.0	12.0	0.150	15	10	14	1.00
10	63	100	160	24.0	OFF	0.300	17.4	11.0	13.1	OFF
						Flat			Trip	Flat
						$I^2t$			Alarm	$I^2t$

**PDC9 PXR25 Settings**

Frame	63A	100A	160A	All	All	63A	100A	160A	G Styles	
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_i(n \times I_n)$	$I_i(n \times I_n)$	$I_g(n \times I_n)$	$t_g(s)$
Min.	16	25	40	0.5	1.5	0.050	2	2	2	0.20
Max.	63	100	160	24.0	12.0	0.500	17.4	11.0	13.1	1.00
Min.						0.067			0.20	0.067
Max.						0.300			1.00	0.300
Step	1	1	1	0.10	0.10	0.010	0.10	0.10	0.10	0.010
Additional option									OFF	
						Flat			Trip	Flat
						$I^2t$			Alarm	$I^2t$

**PDC9 PXR25 MCP Settings (LSIG)**

Frame	63A	100A	160A	Trip Level	All	All	63A	100A	160A	All	All
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_i(n \times I_n)$	$I_i(n \times I_n)$	$I_g(n \times I_n)$	$t_g(s)$	
Min	16	25	40	5	3.0	0.050	3	3	3	0.20	0.100
Max	63	100	160	30	13*	0.500	Max	Max	Max	1.00	1.000
Min2										0.20	
Max2										1.00	
Step	1.000	1.000	1.000	0.100	0.100	0.010	0.100	0.100	0.100	0.010	0.010
Additional option					OFF					OFF	
		>84A - < 13x				Fixed trip time				Fixed trip time	Flat
										Only alarm, no tripping	

## Power Defense Molded Case Circuit Breaker

Technical data of trip units

### Power Xpert Release (PXR) Electronic Trip Unit – PDC2

The following tables detail the settings available in each PXR and circuit breaker frame style.

#### PDC2 PXR10 Settings (LI)

Frame	160A	200A	250A	All	160A	200A	250A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_i(nxI_n)$	$I_i(nxI_n)$	$I_i(nxI_n)$
Switch	1			-			
1	40	50	63	10	2	2	2
2	50	63	80	10	3	3	3
3	63	80	100	10	4	4	4
4	70	90	125	10	5	5	5
5	80	100	150	10	6	6	6
6	90	125	160	10	8	7	6.5
7	100	150	175	10	10	8	7
8	125	160	200	10	12	9	7.5
9	150	175	225	10	14	10	8
10	160	200	250	10	13.1	10.5	8.4

#### PDC2 PXR10 Settings (LSI)

Frame	160A	200A	250A	All	SD Profile	160A	200A	250A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(nxI_r)$	$t_{sd}(s)$	$I_i(nxI_n)$	$I_i(nxI_n)$
Switch	1			-	2			
1	40	50	63	10	2.0	0.150	2	2
2	50	63	80	10	2.0	0.300	3	3
3	63	80	100	10	2.0	I <sub>2t</sub>	4	4
4	70	90	125	10	4.0	0.150	5	5
5	80	100	150	10	4.0	I <sub>2t</sub>	6	6
6	90	125	160	10	6.0	0.150	8	7
7	100	150	175	10	6.0	0.300	10	8
8	125	160	200	10	10.0	0.150	12	9
9	150	175	225	10	2.0 to 10.0	0.05 to 0.30	14	10
10	160	200	250	10	OFF	-	13.1	10.5
Configurable using PXPM software								

#### PDC2 PXR10 MCP Settings (LSI)

Frame	160A	200A	220A	Trip Level	Phase Imbalance	All	160A	200A	220A
Setting	$I_r$	$I_r$	$I_r$			$t_{sd}(s)$	$I_i(nxI_r)$	$I_i(nxI_r)$	$I_i(nxI_r)$
1	40	50	63	5	No	50ms (fixed)	3	3	3
2	50	63	80	10	No	50ms (fixed)	4	4	4
3	63	80	90	15	No	50ms (fixed)	5	5	5
4	70	90	100	20	No	50ms (fixed)	6	6	6
5	80	100	125	30	No	50ms (fixed)	7	7	7
6	90	125	150	5	Yes	50ms (fixed)	8	8	8
7	100	150	160	10	Yes	50ms (fixed)	10	10	10
8	125	160	175	15	Yes	50ms (fixed)	11	11**	11**
9	150	175A - 12x max	200	20	Yes	50ms (fixed)	12	12**	12**
10	160	200A - 10.5x max	220	30	Yes	50ms (fixed)	13	13**	13**
						Override =	2100	2100	2100
						Max =	13.13	10.50	9.55

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

**PDC2 PXR 20 Settings**

Frame	160A	200A	250A	All	All	160A	200A	250A	G Style	
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_l(n \times I_n)$	$I_l(n \times I_n)$	$I_g(n \times I_n)$	$t_g(s)$
Switch	1			2	3	4	5			6 7)
1	40	50	63	0.5	1.5	0.050	2	2	2	0.20 0.100
2	50	63	80	1.0	2.0	0.100	3	3	3	0.30 0.150
3	63	80	100	2.0	3.0	0.150	4	4	4	0.40 0.200
4	70	90	125	4.0	4.0	0.200	5	5	5	0.60 0.300
5	80	100	150	7.0	5.0	0.300	6	6	6	0.80 0.500
6	90	125	160	10.0	6.0	0.400	8	7	6.5	1.00 0.750
7	100	150	175	12.0	8.0	0.500	10	8	7	0.20 1.000
8	125	160	200	15.0	10.0	0.067	12	9	7.5	0.50 0.067
9	150	175	225	20.0	12.0	0.150	14	10	8	1.00 0.150
10	160	200	250	24.0	OFF	0.300	13.1	10.5	8.4	OFF 0.300
						Flat				Trip Flat
						$I^2t$				Alarm $I^2t$

**PDC2 PXR25 Settings**

Frame	160A	200A	250A	All	All	160A	200A	250A	G Style	
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_l(n \times I_n)$	$I_l(n \times I_n)$	$I_g(n \times I_n)$	$t_g(s)$
Min.	40	50	63	0.5	1.5	0.050	2	2	2	0.20 0.100
Max.	160	200	250	24.0	12.0	0.500	13.1	10.5	8.4	1.00 1.000
Min.						0.067				0.20 0.067
Max.						0.300				1.00 0.300
Step	1	1	1	0.10	0.10	0.010	0.10	0.10	0.10	0.010 0.010
Additional option										OFF
						Flat				Trip Flat
						$I^2t$				Alarm $I^2t$

## Power Defense Molded Case Circuit Breaker

Technical data of trip units

### Power Xpert Release (PXR) Electronic Trip Unit – PDC3

The following tables detail the settings available in each PXR and circuit breaker frame style.

#### PDC3 PXR10 Settings (LI)

Frame	250A	400A	630A	All	250A	400A	630A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_i(nxl_n)$	$I_i(nxl_n)$	$I_i(nxl_n)$
Switch	1			-	2		
1	63	100	200	10	2	2	2
2	80	125	225	10	3	3	3
3	100	140	250	10	4	4	4
4	125	160	320	10	5	5	5
5	150	200	360	10	6	6	6
6	160	225	400	10	10	8	7
7	175	250	450	10	15	10	8
8	200	320	500	10	20	12	9
9	225	360	550	10	25	15	10
10	250	400	630	10	28.8	18.0	11.4

#### PDC3 PXR10 Settings (LSI)

Frame	250A	400A	630A	All	SD Profile	250A	400A	630A
Setting	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n xl_r)$	$t_{sd}(s)$	$I_i(n xl_n)$	$I_i(n xl_n)$
Switch	1			-	2		3	
1	63	100	200	10	2.0	0.150	2	2
2	80	125	225	10	2.0	0.300	3	3
3	100	140	250	10	2.0	$I_2 t$	4	4
4	125	160	320	10	4.0	0.150	5	5
5	150	200	360	10	4.0	$I_2 t$	6	6
6	160	225	400	10	6.0	0.150	10	8
7	175	250	450	10	6.0	0.300	15	10
8	200	320	500	10	10.0	0.150	20	12
9	225	360	550	10	10.0	0.300	25	15
10	250	400	630	10	OFF		28.8	18.0
					Configurable using PXPM software			

#### PDC3 PXR10 MCP Settings (LSI)

Frame	250A	400A	630A	Trip Level	Phase Imbalance	All	250A	400A
Setting	$I_r$	$I_r$	$I_r$			$t_{sd}(s)$	$I_i(n xl_r)$	$I_i(n xl_r)$
1	63	100	200	5	No	50ms (Fixed)	3	3
2	80	125	225	10	No	50ms (Fixed)	4	4
3	100	140	250	15	No	50ms (Fixed)	5	5
4	125	160	320	20	No	50ms (Fixed)	6	6
5	150	200	360	30	No	50ms (Fixed)	7	7
6	160	225	400	5	Yes	50ms (Fixed)	8	8
7	175	250	450	10	Yes	50ms (Fixed)	10	10
8	200	320	500	15	Yes	50ms (Fixed)	11	11**
9	225	360A - 12x max	550	20	Yes	50ms (Fixed)	12	12**
10	250	400A - 11x max	630	30	Yes	50ms (Fixed)	13	13**
					Override=	4400	4400	
					Max =	17.60	11.00	

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

**PDC3 PXR20 Settings**

Rated current	250A	400A	630A	All	All	All	250A	400A	630A	All	All
Dial	$I_r$	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd} (nxI_r)$	$t_{sd} (s)$	$I_i (nxI_n)$	$I_i (nxI_n)$	$I_i (nxI_n)$	$I_g (nxI_n)$	$t_g (s)$
1	63	100	200	0.5	1.5	0.050	2	2	2	0.20	0.100
2	80	125	225	1.0	2.0	0.100	3	3	3	0.30	0.150
3	100	140	250	2.0	3.0	0.150	4	4	4	0.40	0.200
4	125	160	320	4.0	4.0	0.200	5	5	5	0.60	0.300
5	150	200	360	7.0	5.0	0.300	6	6	6	0.80	0.500
6	160	225	400	10.0	6.0	0.400	10	8	7	1.00	0.750
7	175	250	450	12.0	8.0	0.500	15	10	8	0.20	1.000
8	200	320	500	15.0	10.0	0.067	20	12	9	0.50	0.067
9	225	360	550	20.0	12.0	0.150	25	15	10	1.00	0.150
10	250	400	630	24.0	OFF	0.300	Max	Max	Max	OFF	0.300
							7200	7200	7200		
						Max =	28.80	18.00	11.43	$I_g = I_n$	
						Flat				Action	Flat
						$I^2t$				Alarm	$I^2t$

**PDC3 PXR25 Settings**

Frame	3A						3B						G Style	
	250A	400A	250A	400A	630A	All	250A	400A	250A	400A	630A			
Setting	$I_r$	$I_r$	$I_r$	$I_r$	$I_r$	$I_r(nxI_r)$	$I_{sd}$	$t_{sd}(s)$	$I_i(nxI_n)$	$I_i(nxI_n)$	$I_i(nxI_n)$	$I_i(nxI_n)$	$I_g(nxI_n)$	$t_g(s)$
Min.	63	100	63	100	200	0.5	1.5	0.050	2	2	2	2	0.20	0.100
Max.	250	400	250	400	630	24.0	12.0	0.500	17.6	11.0	28.8	18.0	11.4	1.00
Min.							0.067						0.20	0.067
Max.							0.300						1.00	0.300
Step	1	1	1	1	1	1	0.10	0.010	0.10	0.10	0.10	0.10	0.010	0.010
Additional option								Flat					Trip	Flat
								$I^2t$					Alarm	$I^2t$

## Power Defense Molded Case Circuit Breaker

Technical data of trip units

### Power Xpert Release (PXR) Electronic Trip Unit – PDC4

The following tables detail the settings available in each PXR and circuit breaker frame style.

#### PDC4 PXR10 Settings (LI)

Frame	800A	1000A	All	800	1000
Setting	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_r(nxI_n)$	$I_r(nxI_n)$
Switch	1		-	2	
1	320	400	10	2	2
2	400	550	10	3	3
3	450	630	10	4	4
4	500	700	10	5	5
5	550	750	10	6	6
6	600	800	10	6.5	6.5
7	630	850	10	6	6
8	700	900	10	7.5	7.5
9	750	950	10	8	8
10	800	1000	10	8.5	6.8

#### PDC4 PXR10 Settings (LSI)

Frame	800A	1000A	All	SD Profile	800	1000
Setting	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(nxI_r)$	$t_{sd}(s)$	$I_r(nxI_n)$
Switch	1		-	2		3
1	320	400	10	2.0	0.150	2
2	400	550	10	2.0	0.300	3
3	450	630	10	2.0	$I_2t$	4
4	500	700	10	4.0	0.150	5
5	550	750	10	4.0	$I_2t$	6
6	600	800	10	6.0	0.150	6.5
7	630	850	10	6.0	0.300	6
8	700	900	10	8.0	0.150	7.5
9	750	950	10	8.0	0.300	8
10	800	1000	10	OFF		8.5
				Configurable using PXPM software		

**Power Defense Molded Case Circuit Breaker**  
Technical data of trip units

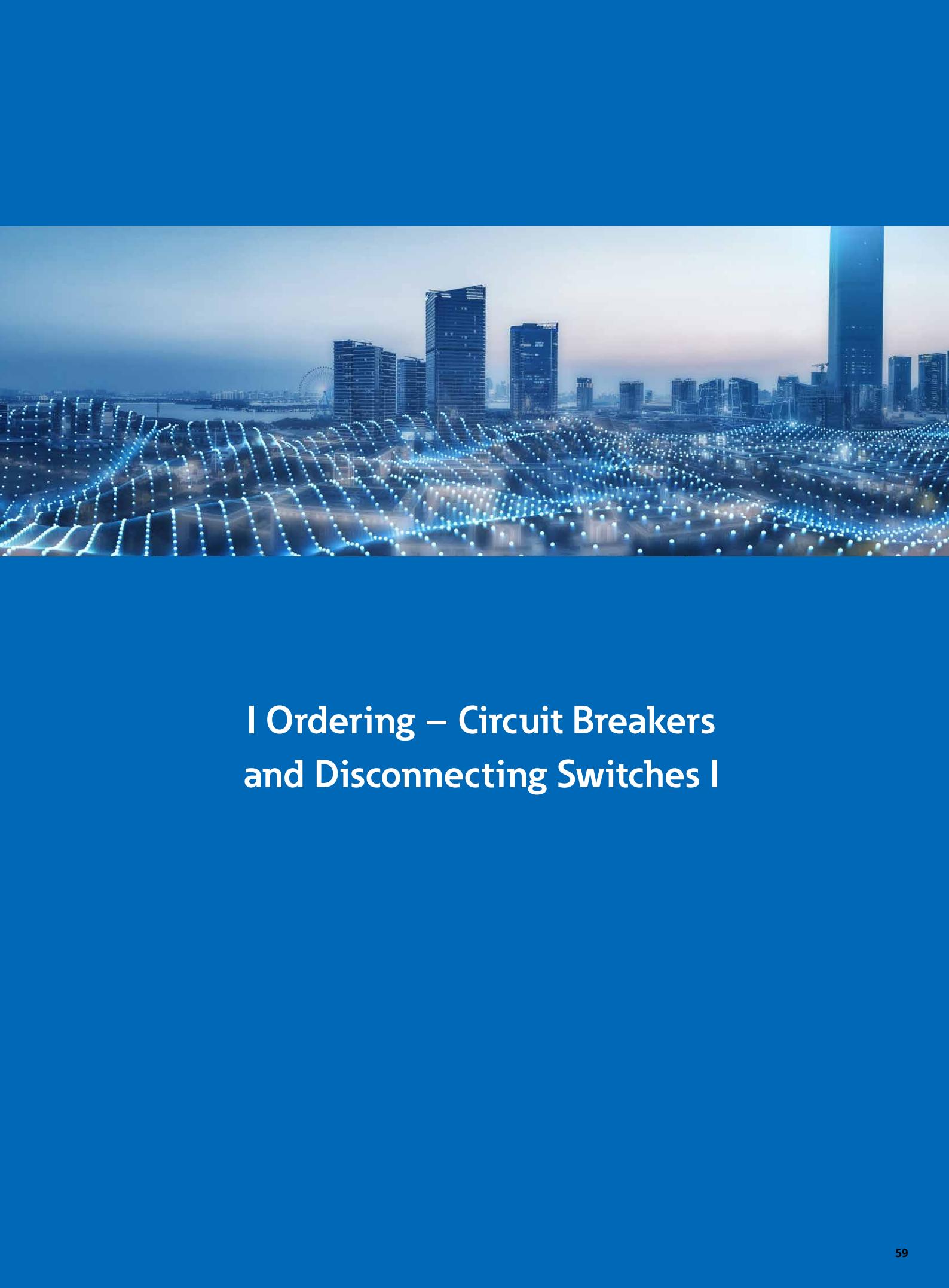
**PDC4 PXR20 Settings**

Frame	800A	1000A	All	All	All	800	1000	G Style
Setting	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_l(n \times I_n)$	$I_l(n \times I_n)$	$I_g(n \times I_n)$
Switch	1		2	3	4	5	6	7
1	320	400	0.5	1.5	0.050	2	2	0.20
2	400	550	1.0	2.0	0.100	3	3	0.30
3	450	630	2.0	2.5	0.150	4	4	0.40
4	500	700	4.0	3.0	0.200	5	5	0.60
5	550	750	7.0	4.0	0.300	6	6	0.80
6	600	800	10.0	5.0	0.400	6.5	6.5	1.00
7	630	850	12.0	6.0	0.500	6	6	0.20
8	700	900	15.0	7.0	0.067	7.5	7.5	0.50
9	750	950	20.0	8.0	0.150	8	8	1.00
10	800	1000	24.0	OFF	0.300	8.5	8.0	OFF
					Flat			Trip
					$I^2t$			Alarm
								$I^2t$

**PDC4 PXR25 Settings**

Frame	800A	1000A	All	All	All	800	1000	G Style
Setting	$I_r$	$I_r$	$t_r @ 6xI_r$	$I_{sd}(n \times I_r)$	$t_{sd}(s)$	$I_l(n \times I_n)$	$I_l(n \times I_n)$	$I_g(n \times I_n)$
Min.	320	400	0.5	1.5	0.050	2	2	0.20
Max.	800	1000	24.0	8.0	0.500	8.50	8.00	1.00
Min.2					0.067			0.20
Max.2					0.300			1.00
Step	1.00	1.00	0.100	0.100	0.010	0.10	0.10	0.01
Additional option								OFF
					Flat			Trip
					$I^2t$			Alarm
								$I^2t$

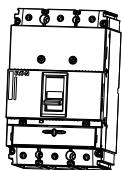




## I Ordering – Circuit Breakers and Disconnecting Switches I

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



### PDC1

Thermomagnetic release, with adjustable Thermo-magnetic settings  
Standard box wiring terminal

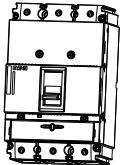
Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity F: 25 kA@415V</b>				
16	PDC13F0016TAAJ	PDC110001	PDC14F0016TAAJ	PDC110045
20	PDC13F0020TAAJ	PDC110002	PDC14F0020TAAJ	PDC110046
25	PDC13F0025TAAJ	PDC110003	PDC14F0025TAAJ	PDC110047
32	PDC13F0032TAAJ	PDC110004	PDC14F0032TAAJ	PDC110048
40	PDC13F0040TAAJ	PDC110005	PDC14F0040TAAJ	PDC110049
50	PDC13F0050TAAJ	PDC110006	PDC14F0050TAAJ	PDC110050
63	PDC13F0063TAAJ	PDC110007	PDC14F0063TAAJ	PDC110051
80	PDC13F0080TAAJ	PDC110008	PDC14F0080TAAJ	PDC110052
100	PDC13F0100TAAJ	PDC110009	PDC14F0100TAAJ	PDC110053
125	PDC13F0125TAAJ	PDC110010	PDC14F0125TAAJ	PDC110054
160	PDC13F0160TAAJ	PDC110011	PDC14F0160TAAJ	PDC110055
<b>Maximum breaking capacity G: 36 kA@415V</b>				
16	PDC13G0016TAAJ	PDC110012	PDC14G0016TAAJ	PDC110056
20	PDC13G0020TAAJ	PDC110013	PDC14G0020TAAJ	PDC110057
25	PDC13G0025TAAJ	PDC110014	PDC14G0025TAAJ	PDC110058
32	PDC13G0032TAAJ	PDC110015	PDC14G0032TAAJ	PDC110059
40	PDC13G0040TAAJ	PDC110016	PDC14G0040TAAJ	PDC110060
50	PDC13G0050TAAJ	PDC110017	PDC14G0050TAAJ	PDC110061
63	PDC13G0063TAAJ	PDC110018	PDC14G0063TAAJ	PDC110062
80	PDC13G0080TAAJ	PDC110019	PDC14G0080TAAJ	PDC110063
100	PDC13G0100TAAJ	PDC110020	PDC14G0100TAAJ	PDC110064
125	PDC13G0125TAAJ	PDC110021	PDC14G0125TAAJ	PDC110065
160	PDC13G0160TAAJ	PDC110022	PDC14G0160TAAJ	PDC110066
<b>Maximum breaking capacity K: 50 kA@415V</b>				
16	PDC13K0016TAAJ	PDC110023	PDC14K0016TAAJ	PDC110067
20	PDC13K0020TAAJ	PDC110024	PDC14K0020TAAJ	PDC110068
25	PDC13K0025TAAJ	PDC110025	PDC14K0025TAAJ	PDC110069
32	PDC13K0032TAAJ	PDC110026	PDC14K0032TAAJ	PDC110070
40	PDC13K0040TAAJ	PDC110027	PDC14K0040TAAJ	PDC110071
50	PDC13K0050TAAJ	PDC110028	PDC14K0050TAAJ	PDC110072
63	PDC13K0063TAAJ	PDC110029	PDC14K0063TAAJ	PDC110073
80	PDC13K0080TAAJ	PDC110030	PDC14K0080TAAJ	PDC110074
100	PDC13K0100TAAJ	PDC110031	PDC14K0100TAAJ	PDC110075
125	PDC13K0125TAAJ	PDC110032	PDC14K0125TAAJ	PDC110076
160	PDC13K0160TAAJ	PDC110033	PDC14K0160TAAJ	PDC110077
<b>Maximum breaking capacity N: 70 kA@415V (Ics=50kA)</b>				
16	PDC13N0016TAAJ	PDC111001	PDC14N0016TAAJ	PDC111012
20	PDC13N0020TAAJ	PDC111002	PDC14N0020TAAJ	PDC111013
25	PDC13N0025TAAJ	PDC111003	PDC14N0025TAAJ	PDC111014
32	PDC13N0032TAAJ	PDC111004	PDC14N0032TAAJ	PDC111015
40	PDC13N0040TAAJ	PDC111005	PDC14N0040TAAJ	PDC111016
50	PDC13N0050TAAJ	PDC111006	PDC14N0050TAAJ	PDC111017
63	PDC13N0063TAAJ	PDC111007	PDC14N0063TAAJ	PDC111018
80	PDC13N0080TAAJ	PDC111008	PDC14N0080TAAJ	PDC111019
100	PDC13N0100TAAJ	PDC111009	PDC14N0100TAAJ	PDC111020
125	PDC13N0125TAAJ	PDC111010	PDC14N0125TAAJ	PDC111021
160	PDC13N0160TAAJ	PDC111011	PDC14N0160TAAJ	PDC111022

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

### PDC1

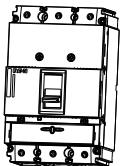
Thermomagnetic release, with adjustable Thermo-magnetic settings, Standard box wiring terminal



Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity T: 85 kA@415V (Ics = 70kA)</b>				
16	PDC13T0016TAAJ	PDC111048	PDC14T0016TAAJ	PDC111059
20	PDC13T0020TAAJ	PDC111049	PDC14T0020TAAJ	PDC111060
25	PDC13T0025TAAJ	PDC111050	PDC14T0025TAAJ	PDC111061
32	PDC13T0032TAAJ	PDC111051	PDC14T0032TAAJ	PDC111062
40	PDC13T0040TAAJ	PDC111052	PDC14T0040TAAJ	PDC111063
50	PDC13T0050TAAJ	PDC111053	PDC14T0050TAAJ	PDC111064
63	PDC13T0063TAAJ	PDC111054	PDC14T0063TAAJ	PDC111065
80	PDC13T0080TAAJ	PDC111055	PDC14T0080TAAJ	PDC111066
100	PDC13T0100TAAJ	PDC111056	PDC14T0100TAAJ	PDC111067
125	PDC13T0125TAAJ	PDC111057	PDC14T0125TAAJ	PDC111068
160	PDC13T0160TAAJ	PDC111058	PDC14T0160TAAJ	PDC111069

### PDC1

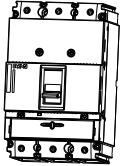
Disconnecting switch, Standard box wiring terminal



Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity T: 85 kA@415V (Ics = 70kA)</b>				
63	PDC13S0063SNNJ	PDC110089	PDC14S0063SNNJ	PDC110093
100	PDC13S0100SNNJ	PDC110090	PDC14S0100SNNJ	PDC110094
125	PDC13S0125SNNJ	PDC110091	PDC14S0125SNNJ	PDC110095
160	PDC13S0160SNNJ	PDC110092	PDC14S0160SNNJ	PDC110096

### PDC1

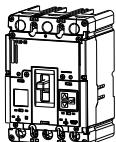
Single-magnetic short-circuit protection (motor protection), Standard box wiring terminal



Rated current (A)	Part No.	Article No.	Rated current (A)	Part No.	Article No.			
<b>Maximum breaking capacity F: 25 kA@415V</b>								
40	PDC13F0040MSAJ	PDC110097	1.2	PDC13N0001MSAJ	PDC111028			
50	PDC13F0050MSAJ	PDC110101	2	PDC13N0002MSAJ	PDC111029			
63	PDC13F0063MSAJ	PDC110105	3	PDC13N0003MSAJ	PDC111030			
80	PDC13F0080MSAJ	PDC110109	5	PDC13N0005MSAJ	PDC111031			
100	PDC13F0100MSAJ	PDC110113	8	PDC13N0008MSAJ	PDC111032			
<b>Maximum breaking capacity G: 36 kA@415V</b>								
40	PDC13G0040MSAJ	PDC110098	12	PDC13N0012MSAJ	PDC111033			
50	PDC13G0050MSAJ	PDC110102	18	PDC13N0018MSAJ	PDC111034			
63	PDC13G0063MSAJ	PDC110106	26	PDC13N0026MSAJ	PDC111035			
80	PDC13G0080MSAJ	PDC110110	33	PDC13N0033MSAJ	PDC111036			
100	PDC13G0100MSAJ	PDC110114	40	PDC13N0040MSAJ	PDC111023			
<b>Maximum breaking capacity K: 50 kA@415V</b>								
1.2	PDC13K0001MSAJ	PDC120002	50	PDC13N0050MSAJ	PDC111024			
2	PDC13K0002MSAJ	PDC120007	63	PDC13N0063MSAJ	PDC111025			
3	PDC13K0003MSAJ	PDC120012	80	PDC13N0080MSAJ	PDC111026			
5	PDC13K0005MSAJ	PDC120017	100	PDC13N0100MSAJ	PDC111027			
8	PDC13K0008MSAJ	PDC120022	<b>Maximum breaking capacity N: 70 kA@415V</b>					
12	PDC13K0012MSAJ	PDC120027	1.2	PDC13N0001MSAJ	PDC111075			
18	PDC13K0018MSAJ	PDC120032	2	PDC13N0002MSAJ	PDC111076			
26	PDC13K0026MSAJ	PDC120037	3	PDC13N0003MSAJ	PDC111077			
33	PDC13K0033MSAJ	PDC120042	5	PDC13N0005MSAJ	PDC111078			
40	PDC13K0040MSAJ	PDC110099	8	PDC13N0008MSAJ	PDC111079			
50	PDC13K0050MSAJ	PDC110103	12	PDC13N0012MSAJ	PDC111080			
63	PDC13K0063MSAJ	PDC110107	18	PDC13N0018MSAJ	PDC111081			
80	PDC13K0080MSAJ	PDC110111	26	PDC13N0026MSAJ	PDC111082			
100	PDC13K0100MSAJ	PDC110115	33	PDC13N0033MSAJ	PDC111083			
<b>Maximum breaking capacity T: 85 kA@415V (Ics = 70kA)</b>								
1.2	PDC13T0001MSAJ	PDC111075	40	PDC13N0040MSAJ	PDC111070			
2	PDC13T0002MSAJ	PDC111076	50	PDC13N0050MSAJ	PDC111071			
3	PDC13T0003MSAJ	PDC111077	63	PDC13N0063MSAJ	PDC111072			
5	PDC13T0005MSAJ	PDC111078	80	PDC13N0080MSAJ	PDC111073			
8	PDC13T0008MSAJ	PDC111079	100	PDC13N0100MSAJ	PDC111074			

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

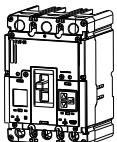


### PDC9 G: 36kA@415V

Electronic release

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC93G0063B1NJ	PDC920187
	100	LI	N: NA/No Comm	PDC93G0100B1NJ	PDC920188
	160	LI	N: NA/No Comm	PDC93G0160B1NJ	PDC920189
	63	LSI	N: NA/No Comm	PDC93G0063B2NJ	PDC920190
	100	LSI	N: NA/No Comm	PDC93G0100B2NJ	PDC920191
	160	LSI	N: NA/No Comm	PDC93G0160B2NJ	PDC920192
PXR20	63	LSI	N: NA/No Comm	PDC93G0063E2NJ	PDC920193
	100	LSI	N: NA/No Comm	PDC93G0100E2NJ	PDC920194
	160	LSI	N: NA/No Comm	PDC93G0160E2NJ	PDC920195
	63	LSI	Z: ZSI & 2Relays	PDC93G0063E2ZJ	PDC920202
	100	LSI	Z: ZSI & 2Relays	PDC93G0100E2ZJ	PDC920203
	160	LSI	Z: ZSI & 2Relays	PDC93G0160E2ZJ	PDC920204
	63	LSIG	Z: ZSI & 2Relays	PDC93G0063E3ZJ	PDC920205
	100	LSIG	Z: ZSI & 2Relays	PDC93G0100E3ZJ	PDC920206
	160	LSIG	Z: ZSI & 2Relays	PDC93G0160E3ZJ	PDC920207
	63	LSI	W: ZSI &Modbus & 1Relay	PDC93G0063E2WJ	PDC920220
	100	LSI	W: ZSI &Modbus & 1Relay	PDC93G0100E2WJ	PDC920221
	160	LSI	W: ZSI &Modbus & 1Relay	PDC93G0160E2WJ	PDC920222
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0063E3WJ	PDC920223
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0100E3WJ	PDC920224
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0160E3WJ	PDC920225
	63	LSI	X: ZSI & CAM & 2Relays	PDC93G0063E2XJ	PDC920226
	100	LSI	X: ZSI & CAM & 2Relays	PDC93G0100E2XJ	PDC920227
	160	LSI	X: ZSI & CAM & 2Relays	PDC93G0160E2XJ	PDC920228
	63	LSIG	X: ZSI & CAM & 2Relays	PDC93G0063E3XJ	PDC920229
	100	LSIG	X: ZSI & CAM & 2Relays	PDC93G0100E3XJ	PDC920230
	160	LSIG	X: ZSI & CAM & 2Relays	PDC93G0160E3XJ	PDC920231
PXR25	63	LSI	W: ZSI &Modbus & 1Relay	PDC93G0063P2WJ	PDC920262
	100	LSI	W: ZSI &Modbus & 1Relay	PDC93G0100P2WJ	PDC920263
	160	LSI	W: ZSI &Modbus & 1Relay	PDC93G0160P2WJ	PDC920264
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0063P3WJ	PDC920265
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0100P3WJ	PDC920266
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC93G0160P3WJ	PDC920267
	63	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0063P2YJ	PDC920274
	100	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0100P2YJ	PDC920275
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0160P2YJ	PDC920276
	63	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0063P3YJ	PDC920277
	100	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0100P3YJ	PDC920278
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0160P3YJ	PDC920279



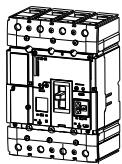
**PDC9 G: 36kA@415V**

Electronic release  
Motor protection  
Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P	Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>						
PXR10	63	LSI MCP	N: NA/No Comm	PDC93G0063B8NJ	PDC921000	
	100	LSI MCP	N: NA/No Comm	PDC93G0100B8NJ	PDC921001	
	160	LSI MCP	N: NA/No Comm	PDC93G0160B8NJ	PDC921002	
PXR25	63	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93G0063P8WJ	PDC921012	
	100	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93G0100P8WJ	PDC921013	
	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93G0160P8WJ	PDC921014	
	63	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0063P8YJ	PDC921018	
	100	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0100P8YJ	PDC921019	
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0160P8YJ	PDC921020	
	63	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93G0063P9WJ	PDC921048	
	100	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93G0100P9WJ	PDC921049	
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93G0160P9WJ	PDC921050	
	63	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0063P9YJ	PDC921054	
	100	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0100P9YJ	PDC921055	
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93G0160P9YJ	PDC921056	

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

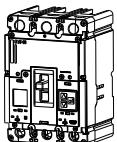


### PDC9 G: 36kA@415V

Electronic release

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC94G0063B1NJ	PDC920280
	100	LI	N: NA/No Comm	PDC94G0100B1NJ	PDC920281
	160	LI	N: NA/No Comm	PDC94G0160B1NJ	PDC920282
	63	LSI	N: NA/No Comm	PDC94G0063B2NJ	PDC920283
	100	LSI	N: NA/No Comm	PDC94G0100B2NJ	PDC920284
	160	LSI	N: NA/No Comm	PDC94G0160B2NJ	PDC920285
PXR20	63	LSI	N: NA/No Comm	PDC94G0063E2NJ	PDC920286
	100	LSI	N: NA/No Comm	PDC94G0100E2NJ	PDC920287
	160	LSI	N: NA/No Comm	PDC94G0160E2NJ	PDC920288
	63	LSI	Z: ZSI & 2Relays	PDC94G0063E2ZJ	PDC920295
	100	LSI	Z: ZSI & 2Relays	PDC94G0100E2ZJ	PDC920296
	160	LSI	Z: ZSI & 2Relays	PDC94G0160E2ZJ	PDC920297
	63	LSIG	Z: ZSI & 2Relays	PDC94G0063E3ZJ	PDC920298
	100	LSIG	Z: ZSI & 2Relays	PDC94G0100E3ZJ	PDC920299
	160	LSIG	Z: ZSI & 2Relays	PDC94G0160E3ZJ	PDC920300
	63	LSI	W: ZSI &Modbus & 1Relay	PDC94G0063E2WJ	PDC920313
	100	LSI	W: ZSI &Modbus & 1Relay	PDC94G0100E2WJ	PDC920314
	160	LSI	W: ZSI &Modbus & 1Relay	PDC94G0160E2WJ	PDC920315
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0063E3WJ	PDC920316
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0100E3WJ	PDC920317
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0160E3WJ	PDC920318
	63	LSI	X: ZSI & CAM & 2Relays	PDC94G0063E2XJ	PDC920319
	100	LSI	X: ZSI & CAM & 2Relays	PDC94G0100E2XJ	PDC920320
	160	LSI	X: ZSI & CAM & 2Relays	PDC94G0160E2XJ	PDC920321
	63	LSIG	X: ZSI & CAM & 2Relays	PDC94G0063E3XJ	PDC920322
	100	LSIG	X: ZSI & CAM & 2Relays	PDC94G0100E3XJ	PDC920323
	160	LSIG	X: ZSI & CAM & 2Relays	PDC94G0160E3XJ	PDC920324
PXR25	63	LSI	W: ZSI &Modbus & 1Relay	PDC94G0063P2WJ	PDC920355
	100	LSI	W: ZSI &Modbus & 1Relay	PDC94G0100P2WJ	PDC920356
	160	LSI	W: ZSI &Modbus & 1Relay	PDC94G0160P2WJ	PDC920357
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0063P3WJ	PDC920358
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0100P3WJ	PDC920359
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC94G0160P3WJ	PDC920360
	63	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0063P2YJ	PDC920367
	100	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0100P2YJ	PDC920368
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0160P2YJ	PDC920369
	63	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0063P3YJ	PDC920370
	100	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0100P3YJ	PDC920371
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94G0160P3YJ	PDC920372



**PDC9 K: 50kA@415V**

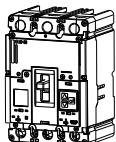
Electronic release

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC93K0063B1NJ	PDC920373
	100	LI	N: NA/No Comm	PDC93K0100B1NJ	PDC920374
	160	LI	N: NA/No Comm	PDC93K0160B1NJ	PDC920375
	63	LSI	N: NA/No Comm	PDC93K0063B2NJ	PDC920376
	100	LSI	N: NA/No Comm	PDC93K0100B2NJ	PDC920377
	160	LSI	N: NA/No Comm	PDC93K0160B2NJ	PDC920378
PXR20	63	LSI	N: NA/No Comm	PDC93K0063E2NJ	PDC920379
	100	LSI	N: NA/No Comm	PDC93K0100E2NJ	PDC920380
	160	LSI	N: NA/No Comm	PDC93K0160E2NJ	PDC920381
	63	LSI	Z: ZSI & 2Relays	PDC93K0063E2ZJ	PDC920388
	100	LSI	Z: ZSI & 2Relays	PDC93K0100E2ZJ	PDC920389
	160	LSI	Z: ZSI & 2Relays	PDC93K0160E2ZJ	PDC920390
	63	LSIG	Z: ZSI & 2Relays	PDC93K0063E3ZJ	PDC920391
	100	LSIG	Z: ZSI & 2Relays	PDC93K0100E3ZJ	PDC920392
	160	LSIG	Z: ZSI & 2Relays	PDC93K0160E3ZJ	PDC920393
	63	LSI	W: ZSI &Modbus & 1Relay	PDC93K0063E2WJ	PDC920406
	100	LSI	W: ZSI &Modbus & 1Relay	PDC93K0100E2WJ	PDC920407
	160	LSI	W: ZSI &Modbus & 1Relay	PDC93K0160E2WJ	PDC920408
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0063E3WJ	PDC920409
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0100E3WJ	PDC920410
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0160E3WJ	PDC920411
	63	LSI	X: ZSI & CAM & 2Relays	PDC93K0063E2XJ	PDC920412
	100	LSI	X: ZSI & CAM & 2Relays	PDC93K0100E2XJ	PDC920413
	160	LSI	X: ZSI & CAM & 2Relays	PDC93K0160E2XJ	PDC920414
	63	LSIG	X: ZSI & CAM & 2Relays	PDC93K0063E3XJ	PDC920415
	100	LSIG	X: ZSI & CAM & 2Relays	PDC93K0100E3XJ	PDC920416
	160	LSIG	X: ZSI & CAM & 2Relays	PDC93K0160E3XJ	PDC920417
PXR25	63	LSI	W: ZSI &Modbus & 1Relay	PDC93K0063P2WJ	PDC920448
	100	LSI	W: ZSI &Modbus & 1Relay	PDC93K0100P2WJ	PDC920449
	160	LSI	W: ZSI &Modbus & 1Relay	PDC93K0160P2WJ	PDC920450
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0063P3WJ	PDC920451
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0100P3WJ	PDC920452
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC93K0160P3WJ	PDC920453
	63	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0063P2YJ	PDC920460
	100	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0100P2YJ	PDC920461
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0160P2YJ	PDC920462
	63	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0063P3YJ	PDC920463
	100	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0100P3YJ	PDC920464
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0160P3YJ	PDC920465

# Power Defense Molded Case Circuit Breaker

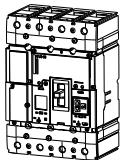
## Circuit breaker ordering instructions



### PDC9 K: 50kA@415V

Electronic release  
Motor protection  
Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P	Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>						
PXR10	63	LSI MCP	N: NA/No Comm	PDC93K0063B8NJ	PDC921003	
	100	LSI MCP	N: NA/No Comm	PDC93K0100B8NJ	PDC921004	
	160	LSI MCP	N: NA/No Comm	PDC93K0160B8NJ	PDC921005	
PXR25	63	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93K0063P8WJ	PDC921024	
	100	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93K0100P8WJ	PDC921025	
	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93K0160P8WJ	PDC921026	
	63	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0063P8YJ	PDC921030	
	100	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0100P8YJ	PDC921031	
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0160P8YJ	PDC921032	
	63	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93K0063P9WJ	PDC921060	
	100	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93K0100P9WJ	PDC921061	
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93K0160P9WJ	PDC921062	
	63	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0063P9YJ	PDC921066	
	100	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0100P9YJ	PDC921067	
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93K0160P9YJ	PDC921068	



**PDC9 K: 50kA@415V**

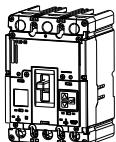
Electronic release

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC94K0063B1NJ	PDC920466
	100	LI	N: NA/No Comm	PDC94K0100B1NJ	PDC920467
	160	LI	N: NA/No Comm	PDC94K0160B1NJ	PDC920468
	63	LSI	N: NA/No Comm	PDC94K0063B2NJ	PDC920469
	100	LSI	N: NA/No Comm	PDC94K0100B2NJ	PDC920470
	160	LSI	N: NA/No Comm	PDC94K0160B2NJ	PDC920471
PXR20	63	LSI	N: NA/No Comm	PDC94K0063E2NJ	PDC920472
	100	LSI	N: NA/No Comm	PDC94K0100E2NJ	PDC920473
	160	LSI	N: NA/No Comm	PDC94K0160E2NJ	PDC920474
	63	LSI	Z: ZSI & 2Relays	PDC94K0063E2ZJ	PDC920481
	100	LSI	Z: ZSI & 2Relays	PDC94K0100E2ZJ	PDC920482
	160	LSI	Z: ZSI & 2Relays	PDC94K0160E2ZJ	PDC920483
	63	LSIG	Z: ZSI & 2Relays	PDC94K0063E3ZJ	PDC920484
	100	LSIG	Z: ZSI & 2Relays	PDC94K0100E3ZJ	PDC920485
	160	LSIG	Z: ZSI & 2Relays	PDC94K0160E3ZJ	PDC920486
	63	LSI	W: ZSI &Modbus & 1Relay	PDC94K0063E2WJ	PDC920499
	100	LSI	W: ZSI &Modbus & 1Relay	PDC94K0100E2WJ	PDC920500
	160	LSI	W: ZSI &Modbus & 1Relay	PDC94K0160E2WJ	PDC920501
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0063E3WJ	PDC920502
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0100E3WJ	PDC920503
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0160E3WJ	PDC920504
	63	LSI	X: ZSI & CAM & 2Relays	PDC94K0063E2XJ	PDC920505
	100	LSI	X: ZSI & CAM & 2Relays	PDC94K0100E2XJ	PDC920506
	160	LSI	X: ZSI & CAM & 2Relays	PDC94K0160E2XJ	PDC920507
	63	LSIG	X: ZSI & CAM & 2Relays	PDC94K0063E3XJ	PDC920508
	100	LSIG	X: ZSI & CAM & 2Relays	PDC94K0100E3XJ	PDC920509
	160	LSIG	X: ZSI & CAM & 2Relays	PDC94K0160E3XJ	PDC920510
PXR25	63	LSI	W: ZSI &Modbus & 1Relay	PDC94K0063P2WJ	PDC920541
	100	LSI	W: ZSI &Modbus & 1Relay	PDC94K0100P2WJ	PDC920542
	160	LSI	W: ZSI &Modbus & 1Relay	PDC94K0160P2WJ	PDC920543
	63	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0063P3WJ	PDC920544
	100	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0100P3WJ	PDC920545
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC94K0160P3WJ	PDC920546
	63	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94K0063P2YJ	PDC920553
	100	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94K0100P2YJ	PDC920554
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94K0160P2YJ	PDC920555
	63	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94K0063P3YJ	PDC920556
	100	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94K0100P3YJ	PDC920557
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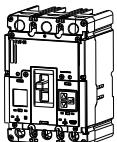
# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



**PDC9 N: 70kA@415V**

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC93N0063B1NJ	PDC920559
	100	LI	N: NA/No Comm	PDC93N0100B1NJ	PDC920560
	160	LI	N: NA/No Comm	PDC93N0160B1NJ	PDC920561
	63	LSI	N: NA/No Comm	PDC93N0063B2NJ	PDC920562
	100	LSI	N: NA/No Comm	PDC93N0100B2NJ	PDC920563
	160	LSI	N: NA/No Comm	PDC93N0160B2NJ	PDC920564
PXR20	63	LSI	N: NA/No Comm	PDC93N0063E2NJ	PDC920565
	100	LSI	N: NA/No Comm	PDC93N0100E2NJ	PDC920566
	160	LSI	N: NA/No Comm	PDC93N0160E2NJ	PDC920567
	63	LSI	Z: ZSI & 2Relays	PDC93N0063E2ZJ	PDC920574
	100	LSI	Z: ZSI & 2Relays	PDC93N0100E2ZJ	PDC920575
	160	LSI	Z: ZSI & 2Relays	PDC93N0160E2ZJ	PDC920576
	63	LSIG	Z: ZSI & 2Relays	PDC93N0063E3ZJ	PDC920577
	100	LSIG	Z: ZSI & 2Relays	PDC93N0100E3ZJ	PDC920578
	160	LSIG	Z: ZSI & 2Relays	PDC93N0160E3ZJ	PDC920579
	63	LSI	W: ZSI & Modbus & 1Relay	PDC93N0063E2WJ	PDC920592
	100	LSI	W: ZSI & Modbus & 1Relay	PDC93N0100E2WJ	PDC920593
	160	LSI	W: ZSI & Modbus & 1Relay	PDC93N0160E2WJ	PDC920594
	63	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0063E3WJ	PDC920595
	100	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0100E3WJ	PDC920596
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0160E3WJ	PDC920597
	63	LSI	X: ZSI & CAM & 2Relays	PDC93N0063E2XJ	PDC920598
	100	LSI	X: ZSI & CAM & 2Relays	PDC93N0100E2XJ	PDC920599
	160	LSI	X: ZSI & CAM & 2Relays	PDC93N0160E2XJ	PDC920600
	63	LSIG	X: ZSI & CAM & 2Relays	PDC93N0063E3XJ	PDC920601
	100	LSIG	X: ZSI & CAM & 2Relays	PDC93N0100E3XJ	PDC920602
	160	LSIG	X: ZSI & CAM & 2Relays	PDC93N0160E3XJ	PDC920603
PXR25	63	LSI	W: ZSI & Modbus & 1Relay	PDC93N0063P2WJ	PDC920634
	100	LSI	W: ZSI & Modbus & 1Relay	PDC93N0100P2WJ	PDC920635
	160	LSI	W: ZSI & Modbus & 1Relay	PDC93N0160P2WJ	PDC920636
	63	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0063P3WJ	PDC920637
	100	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0100P3WJ	PDC920638
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC93N0160P3WJ	PDC920639
	63	LSI	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0063P2YJ	PDC920646
	100	LSI	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0100P2YJ	PDC920647
	160	LSI	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0160P2YJ	PDC920648
	63	LSIG	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0063P3YJ	PDC920649
	100	LSIG	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0100P3YJ	PDC920650
	160	LSIG	Y: ZSI / Modbus & 1 Relay / CAM	PDC93N0160P3YJ	PDC920651



**PDC9 N: 70kA@415V**

Electronic release

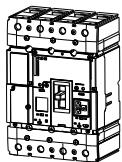
Motor protection

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	63	LSI MCP	N: NA/No Comm	PDC93N0063B8NJ	PDC921006
	100	LSI MCP	N: NA/No Comm	PDC93N0100B8NJ	PDC921007
	160	LSI MCP	N: NA/No Comm	PDC93N0160B8NJ	PDC921008
PXR25	63	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93N0063P8WJ	PDC921036
	100	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93N0100P8WJ	PDC921037
	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC93N0160P8WJ	PDC921038
	63	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0063P8YJ	PDC921042
	100	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0100P8YJ	PDC921043
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0160P8YJ	PDC921044
	63	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93N0063P9WJ	PDC921072
	100	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93N0100P9WJ	PDC921073
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC93N0160P9WJ	PDC921074
	63	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0063P9YJ	PDC921078
	100	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0100P9YJ	PDC921079
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC93N0160P9YJ	PDC921080

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



### PDC9 N: 70kA@415V

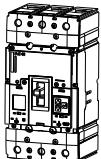
Electronic release

Standard box wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.*
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	63	LI	N: NA/No Comm	PDC94N0063B1NJ	PDC920652*
	100	LI	N: NA/No Comm	PDC94N0100B1NJ	PDC920653*
	160	LI	N: NA/No Comm	PDC94N0160B1NJ	PDC920654*
	63	LSI	N: NA/No Comm	PDC94N0063B2NJ	PDC920655*
	100	LSI	N: NA/No Comm	PDC94N0100B2NJ	PDC920656*
	160	LSI	N: NA/No Comm	PDC94N0160B2NJ	PDC920657*
PXR20	63	LSI	N: NA/No Comm	PDC94N0063E2NJ	PDC920658*
	100	LSI	N: NA/No Comm	PDC94N0100E2NJ	PDC920659*
	160	LSI	N: NA/No Comm	PDC94N0160E2NJ	PDC920660*
	63	LSI	Z: ZSI & 2Relays	PDC94N0063E2ZJ	PDC920667*
	100	LSI	Z: ZSI & 2Relays	PDC94N0100E2ZJ	PDC920668*
	160	LSI	Z: ZSI & 2Relays	PDC94N0160E2ZJ	PDC920669*
	63	LSIG	Z: ZSI & 2Relays	PDC94N0063E3ZJ	PDC920670*
	100	LSIG	Z: ZSI & 2Relays	PDC94N0100E3ZJ	PDC920671*
	160	LSIG	Z: ZSI & 2Relays	PDC94N0160E3ZJ	PDC920672*
	63	LSI	W: ZSI & Modbus & 1Relay	PDC94N0063E2WJ	PDC920685*
	100	LSI	W: ZSI & Modbus & 1Relay	PDC94N0100E2WJ	PDC920686*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC94N0160E2WJ	PDC920687*
	63	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0063E3WJ	PDC920688*
	100	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0100E3WJ	PDC920689*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0160E3WJ	PDC920690*
	63	LSI	X: ZSI & CAM & 2Relays	PDC94N0063E2XJ	PDC920691*
	100	LSI	X: ZSI & CAM & 2Relays	PDC94N0100E2XJ	PDC920692*
	160	LSI	X: ZSI & CAM & 2Relays	PDC94N0160E2XJ	PDC920693*
	63	LSIG	X: ZSI & CAM & 2Relays	PDC94N0063E3XJ	PDC920694*
	100	LSIG	X: ZSI & CAM & 2Relays	PDC94N0100E3XJ	PDC920695*
	160	LSIG	X: ZSI & CAM & 2Relays	PDC94N0160E3XJ	PDC920696*
PXR25	63	LSI	W: ZSI & Modbus & 1Relay	PDC94N0063P2WJ	PDC920727*
	100	LSI	W: ZSI & Modbus & 1Relay	PDC94N0100P2WJ	PDC920728*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC94N0160P2WJ	PDC920729*
	63	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0063P3WJ	PDC920730*
	100	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0100P3WJ	PDC920731*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC94N0160P3WJ	PDC920732*
	63	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0063P2YJ	PDC920739*
	100	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0100P2YJ	PDC920740*
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0160P2YJ	PDC920741*
	63	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0063P3YJ	PDC920742*
	100	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0100P3YJ	PDC920743*
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC94N0160P3YJ	PDC920744*

**Note:** Consult Eaton for devices marked with \*\*.

### PDC2



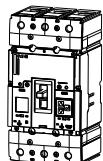
Thermomagnetic release, with adjustable Thermo-magnetic settings  
Standard screw wiring terminal

3P			4P	
Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity F: 25 kA@415V</b>				
125	PDC23F0125TAAS	PDC210001	PDC24F0125TAAS	PDC210021
160	PDC23F0160TAAS	PDC210002	PDC24F0160TAAS	PDC210022
200	PDC23F0200TAAS	PDC210003	PDC24F0200TAAS	PDC210023
250	PDC23F0250TAAS	PDC210004	PDC24F0250TAAS	PDC210024
<b>Maximum breaking capacity G: 36 kA@415V</b>				
125	PDC23G0125TAAS	PDC210005	PDC24G0125TAAS	PDC210025
160	PDC23G0160TAAS	PDC210006	PDC24G0160TAAS	PDC210026
200	PDC23G0200TAAS	PDC210007	PDC24G0200TAAS	PDC210027
250	PDC23G0250TAAS	PDC210008	PDC24G0250TAAS	PDC210028
<b>Maximum breaking capacity K: 50 kA@415V</b>				
125	PDC23K0125TAAS	PDC210009	PDC24K0125TAAS	PDC210029
160	PDC23K0160TAAS	PDC210010	PDC24K0160TAAS	PDC210030
200	PDC23K0200TAAS	PDC210011	PDC24K0200TAAS	PDC210031
250	PDC23K0250TAAS	PDC210012	PDC24K0250TAAS	PDC210032
<b>Maximum breaking capacity N: 70 kA@415V</b>				
125	PDC23N0125TAAS	PDC210017	PDC24N0125TAAS	PDC210037*
160	PDC23N0160TAAS	PDC210018	PDC24N0160TAAS	PDC210038*
200	PDC23N0200TAAS	PDC210019	PDC24N0200TAAS	PDC210039*
250	PDC23N0250TAAS	PDC210020	PDC24N0250TAAS	PDC210040*

**Note:** Consult Eaton for devices marked with “\*\*” .

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

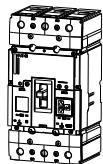


### PDC2

Single-magnetic short-circuit protection(Motor protection)  
Standard screw wiring terminal

Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity K: 50 kA@415V</b>				
90	PDC23K0090MSAS	PDC210067		
125	PDC23K0125MSAS	PDC210071		
160	PDC23K0160MSAS	PDC210075		
200	PDC23K0200MSAS	PDC210079		
220	PDC23K0220MSAS	PDC210083		
<b>Maximum breaking capacity N: 70 kA@415V</b>				
90	PDC23N0090MSAS	PDC210068		
125	PDC23N0125MSAS	PDC210072		
160	PDC23N0160MSAS	PDC210076		
200	PDC23N0200MSAS	PDC210080		
220	PDC23N0220MSAS	PDC210084		

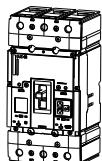
**Note:** Consult Eaton for devices marked with “\*”.



### PDC2

Disconnecting switch  
Standard screw wiring terminal

Rated current (A)	Part No.	Article No.	Part No.	Article No.
250	PDC23S0250SNNS	PDC210062	PDC24S0250SNNS	PDC210064



**PDC2 G: 36kA@415V**

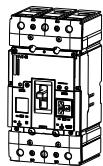
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC23G0160B1NS	PDC220187
	200	LI	N: NA/No Comm	PDC23G0200B1NS	PDC220188
	250	LI	N: NA/No Comm	PDC23G0250B1NS	PDC220189
	160	LSI	N: NA/No Comm	PDC23G0160B2NS	PDC220190
	200	LSI	N: NA/No Comm	PDC23G0200B2NS	PDC220191
	250	LSI	N: NA/No Comm	PDC23G0250B2NS	PDC220192
PXR20	160	LSI	N: NA/No Comm	PDC23G0160E2NS	PDC220193
	200	LSI	N: NA/No Comm	PDC23G0200E2NS	PDC220194
	250	LSI	N: NA/No Comm	PDC23G0250E2NS	PDC220195
	160	LSI	Z: ZSI & 2Relays	PDC23G0160E2ZS	PDC220202
	200	LSI	Z: ZSI & 2Relays	PDC23G0200E2ZS	PDC220203
	250	LSI	Z: ZSI & 2Relays	PDC23G0250E2ZS	PDC220204
	160	LSIG	Z: ZSI & 2Relays	PDC23G0160E3ZS	PDC220205
	200	LSIG	Z: ZSI & 2Relays	PDC23G0200E3ZS	PDC220206
	250	LSIG	Z: ZSI & 2Relays	PDC23G0250E3ZS	PDC220207
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23G0160E2WS	PDC220220
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23G0200E2WS	PDC220221
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23G0250E2WS	PDC220222
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0160E3WS	PDC220223
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0200E3WS	PDC220224
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0250E3WS	PDC220225
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC23G0160E2XS	PDC220226
	200	LSI	X: ZSI & CAM & 2Relays	PDC23G0200E2XS	PDC220227
	250	LSI	X: ZSI & CAM & 2Relays	PDC23G0250E2XS	PDC220228
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23G0160E3XS	PDC220229
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23G0200E3XS	PDC220230
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23G0250E3XS	PDC220231
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23G0160P2WS	PDC220262
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23G0200P2WS	PDC220263
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23G0250P2WS	PDC220264
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0160P3WS	PDC220265

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

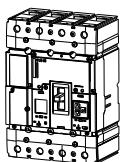


### PDC2 G: 36kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	160	LSI MCP	N: NA/No Comm	PDC23G0160B8NS	PDC221000
	200	LSI MCP	N: NA/No Comm	PDC23G0200B8NS	PDC221001
	220	LSI MCP	N: NA/No Comm	PDC23G0220B8NS	PDC221002
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0160P8WS	PDC221012
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0200P8WS	PDC221013
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0220P8WS	PDC221014
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0160P8YS	PDC221018
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0200P8YS	PDC221019
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0220P8YS	PDC221020
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0160P9WS	PDC221048
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0200P9WS	PDC221049
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0220P9WS	PDC221050
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0160P9YS	PDC221054
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0200P9YS	PDC221055
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0220P9YS	PDC221056



**PDC2 G: 36kA@415V**

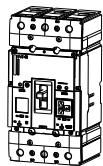
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC24G0160B1NS	PDC220280
	200	LI	N: NA/No Comm	PDC24G0200B1NS	PDC220281
	250	LI	N: NA/No Comm	PDC24G0250B1NS	PDC220282
	160	LSI	N: NA/No Comm	PDC24G0160B2NS	PDC220283
	200	LSI	N: NA/No Comm	PDC24G0200B2NS	PDC220284
	250	LSI	N: NA/No Comm	PDC24G0250B2NS	PDC220285
PXR20	160	LSI	N: NA/No Comm	PDC24G0160E2NS	PDC220286
	200	LSI	N: NA/No Comm	PDC24G0200E2NS	PDC220287
	250	LSI	N: NA/No Comm	PDC24G0250E2NS	PDC220288
	160	LSI	Z: ZSI & 2Relays	PDC24G0160E2ZS	PDC220295
	200	LSI	Z: ZSI & 2Relays	PDC24G0200E2ZS	PDC220296
	250	LSI	Z: ZSI & 2Relays	PDC24G0250E2ZS	PDC220297
	160	LSIG	Z: ZSI & 2Relays	PDC24G0160E3ZS	PDC220298
	200	LSIG	Z: ZSI & 2Relays	PDC24G0200E3ZS	PDC220299
	250	LSIG	Z: ZSI & 2Relays	PDC24G0250E3ZS	PDC220300
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24G0160E2WS	PDC220313
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24G0200E2WS	PDC220314
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24G0250E2WS	PDC220315
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0160E3WS	PDC220316
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0200E3WS	PDC220317
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0250E3WS	PDC220318
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24G0160E2XS	PDC220319
	200	LSI	X: ZSI & CAM & 2Relays	PDC24G0200E2XS	PDC220320
	250	LSI	X: ZSI & CAM & 2Relays	PDC24G0250E2XS	PDC220321
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24G0160E3XS	PDC220322
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24G0200E3XS	PDC220323
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24G0250E3XS	PDC220324
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24G0160P2WS	PDC220355
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24G0200P2WS	PDC220356
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24G0250P2WS	PDC220357
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0160P3WS	PDC220358

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

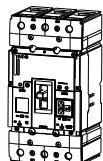


### PDC2 K: 50kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC23K0160B1NS	PDC220373
	200	LI	N: NA/No Comm	PDC23K0200B1NS	PDC220374
	250	LI	N: NA/No Comm	PDC23K0250B1NS	PDC220375
	160	LSI	N: NA/No Comm	PDC23K0160B2NS	PDC220376
	200	LSI	N: NA/No Comm	PDC23K0200B2NS	PDC220377
	250	LSI	N: NA/No Comm	PDC23K0250B2NS	PDC220378
PXR20	160	LSI	N: NA/No Comm	PDC23K0160E2NS	PDC220379
	200	LSI	N: NA/No Comm	PDC23K0200E2NS	PDC220380
	250	LSI	N: NA/No Comm	PDC23K0250E2NS	PDC220381
	160	LSI	Z: ZSI & 2Relays	PDC23K0160E2ZS	PDC220388
	200	LSI	Z: ZSI & 2Relays	PDC23K0200E2ZS	PDC220389
	250	LSI	Z: ZSI & 2Relays	PDC23K0250E2ZS	PDC220390
	160	LSIG	Z: ZSI & 2Relays	PDC23K0160E3ZS	PDC220391
	200	LSIG	Z: ZSI & 2Relays	PDC23K0200E3ZS	PDC220392
	250	LSIG	Z: ZSI & 2Relays	PDC23K0250E3ZS	PDC220393
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23K0160E2WS	PDC220406
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23K0200E2WS	PDC220407
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23K0250E2WS	PDC220408
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0160E3WS	PDC220409
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0200E3WS	PDC220410
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0250E3WS	PDC220411
	160	LSI	X: ZSI & CAM & 2Relays	PDC23K0160E2XS	PDC220412
	200	LSI	X: ZSI & CAM & 2Relays	PDC23K0200E2XS	PDC220413
	250	LSI	X: ZSI & CAM & 2Relays	PDC23K0250E2XS	PDC220414
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23K0160E3XS	PDC220415
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23K0200E3XS	PDC220416
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23K0250E3XS	PDC220417
PXR25	160	LSI	W: ZSI &Modbus & 1Relay	PDC23K0160P2WS	PDC220448
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23K0200P2WS	PDC220449
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23K0250P2WS	PDC220450
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0160P3WS	PDC220451
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0200P3WS	PDC220452
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23K0250P3WS	PDC220453
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P2YS	PDC220460
	200	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P2YS	PDC220461
	250	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0250P2YS	PDC220462
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P3YS	PDC220463
	200	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P3YS	PDC220464
	250	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0250P3YS	PDC220465



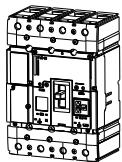
**PDC2 K: 50kA@415V**

Electronic release  
Motor protection  
Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P	Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>						
PXR10	160	LSI MCP	N: NA/No Comm	PDC23K0160B8NS	PDC221003	
	200	LSI MCP	N: NA/No Comm	PDC23K0200B8NS	PDC221004	
	220	LSI MCP	N: NA/No Comm	PDC23K0220B8NS	PDC221005	
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0160P8WS	PDC221024	
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0200P8WS	PDC221025	
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0220P8WS	PDC221026	
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P8YS	PDC221030	
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P8YS	PDC221031	
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0220P8YS	PDC221032	
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0160P9WS	PDC221060	
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0200P9WS	PDC221061	
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0220P9WS	PDC221062	
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P9YS	PDC221066	
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P9YS	PDC221067	
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0220P9YS	PDC221068	

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



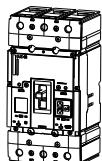
### PDC2 K: 50kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC24K0160B1NS	PDC220466
	200	LI	N: NA/No Comm	PDC24K0200B1NS	PDC220467
	250	LI	N: NA/No Comm	PDC24K0250B1NS	PDC220468*
	160	LSI	N: NA/No Comm	PDC24K0160B2NS	PDC220469
	200	LSI	N: NA/No Comm	PDC24K0200B2NS	PDC220470
	250	LSI	N: NA/No Comm	PDC24K0250B2NS	PDC220471*
PXR20	160	LSI	N: NA/No Comm	PDC24K0160E2NS	PDC220472
	200	LSI	N: NA/No Comm	PDC24K0200E2NS	PDC220473
	250	LSI	N: NA/No Comm	PDC24K0250E2NS	PDC220474*
	160	LSI	Z: ZSI & 2Relays	PDC24K0160E2ZS	PDC220481
	200	LSI	Z: ZSI & 2Relays	PDC24K0200E2ZS	PDC220482
	250	LSI	Z: ZSI & 2Relays	PDC24K0250E2ZS	PDC220483*
	160	LSIG	Z: ZSI & 2Relays	PDC24K0160E3ZS	PDC220484
	200	LSIG	Z: ZSI & 2Relays	PDC24K0200E3ZS	PDC220485
	250	LSIG	Z: ZSI & 2Relays	PDC24K0250E3ZS	PDC220486*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC24K0160E2WS	PDC220499
	200	LSI	W: ZSI & Modbus & 1Relay	PDC24K0200E2WS	PDC220500
	250	LSI	W: ZSI & Modbus & 1Relay	PDC24K0250E2WS	PDC220501*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC24K0160E3WS	PDC220502
	200	LSIG	W: ZSI & Modbus & 1Relay	PDC24K0200E3WS	PDC220503
	250	LSIG	W: ZSI & Modbus & 1Relay	PDC24K0250E3WS	PDC220504*
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24K0160E2XS	PDC220505
	200	LSI	X: ZSI & CAM & 2Relays	PDC24K0200E2XS	PDC220506
	250	LSI	X: ZSI & CAM & 2Relays	PDC24K0250E2XS	PDC220507*
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24K0160E3XS	PDC220508
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24K0200E3XS	PDC220509
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24K0250E3XS	PDC220510*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC24K0160P2WS	PDC220541
	200	LSI	W: ZSI & Modbus & 1Relay	PDC24K0200P2WS	PDC220542
	250	LSI	W: ZSI & Modbus & 1Relay	PDC24K0250P2WS	PDC220543*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC24K0160P3WS	PDC220544

**Note:** Consult Eaton for devices marked with “\*\*”.



**PDC2 N: 70kA@415V**

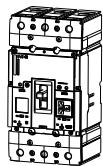
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC23N0160B1NS	PDC220559
	200	LI	N: NA/No Comm	PDC23N0200B1NS	PDC220560
	250	LI	N: NA/No Comm	PDC23N0250B1NS	PDC220561
	160	LSI	N: NA/No Comm	PDC23N0160B2NS	PDC220562
	200	LSI	N: NA/No Comm	PDC23N0200B2NS	PDC220563
	250	LSI	N: NA/No Comm	PDC23N0250B2NS	PDC220564
PXR20	160	LSI	N: NA/No Comm	PDC23N0160E2NS	PDC220565
	200	LSI	N: NA/No Comm	PDC23N0200E2NS	PDC220566
	250	LSI	N: NA/No Comm	PDC23N0250E2NS	PDC220567
	160	LSI	Z: ZSI & 2Relays	PDC23N0160E2ZS	PDC220574
	200	LSI	Z: ZSI & 2Relays	PDC23N0200E2ZS	PDC220575
	250	LSI	Z: ZSI & 2Relays	PDC23N0250E2ZS	PDC220576
	160	LSIG	Z: ZSI & 2Relays	PDC23N0160E3ZS	PDC220577
	200	LSIG	Z: ZSI & 2Relays	PDC23N0200E3ZS	PDC220578
	250	LSIG	Z: ZSI & 2Relays	PDC23N0250E3ZS	PDC220579
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23N0160E2WS	PDC220592
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23N0200E2WS	PDC220593
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23N0250E2WS	PDC220594
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0160E3WS	PDC220595
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0200E3WS	PDC220596
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0250E3WS	PDC220597
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC23N0160E2XS	PDC220598
	200	LSI	X: ZSI & CAM & 2Relays	PDC23N0200E2XS	PDC220599
	250	LSI	X: ZSI & CAM & 2Relays	PDC23N0250E2XS	PDC220600
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23N0160E3XS	PDC220601
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23N0200E3XS	PDC220602
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23N0250E3XS	PDC220603
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23N0160P2WS	PDC220634
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23N0200P2WS	PDC220635
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23N0250P2WS	PDC220636
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0160P3WS	PDC220637
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0200P3WS	PDC220638
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23N0250P3WS	PDC220639
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P2YS	PDC220646
	200	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P2YS	PDC220647
	250	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0250P2YS	PDC220648
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P3YS	PDC220649
	200	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P3YS	PDC220650
	250	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0250P3YS	PDC220651

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



### PDC2 N: 70kA@415V

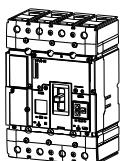
Electronic release

Motor protection

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P	Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>						
PXR10	160	LSI MCP	N: NA/No Comm	PDC23N0160B8NS	PDC221006	
	200	LSI MCP	N: NA/No Comm	PDC23N0200B8NS	PDC221007	
	220	LSI MCP	N: NA/No Comm	PDC23N0220B8NS	PDC221008	
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0160P8WS	PDC221036	
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0200P8WS	PDC221037	
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0220P8WS	PDC221038	
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P8YS	PDC221042	
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P8YS	PDC221043	
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0220P8YS	PDC221044	
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0160P9WS	PDC221072	
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0200P9WS	PDC221073	
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0220P9WS	PDC221074	
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P9YS	PDC221078	
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P9YS	PDC221079	
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0220P9YS	PDC221080	

**Power Defense Molded Case Circuit Breaker**  
Circuit breaker ordering instructions



**PDC2 N: 70kA@415V**

Electronic release

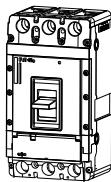
Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.*
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC24N0160B1NS	PDC220652*
	200	LI	N: NA/No Comm	PDC24N0200B1NS	PDC220653*
	250	LI	N: NA/No Comm	PDC24N0250B1NS	PDC220654*
	160	LSI	N: NA/No Comm	PDC24N0160B2NS	PDC220655*
	200	LSI	N: NA/No Comm	PDC24N0200B2NS	PDC220656*
	250	LSI	N: NA/No Comm	PDC24N0250B2NS	PDC220657*
PXR20	160	LSI	N: NA/No Comm	PDC24N0160E2NS	PDC220658*
	200	LSI	N: NA/No Comm	PDC24N0200E2NS	PDC220659*
	250	LSI	N: NA/No Comm	PDC24N0250E2NS	PDC220660*
	160	LSI	Z: ZSI & 2Relays	PDC24N0160E2ZS	PDC220667*
	200	LSI	Z: ZSI & 2Relays	PDC24N0200E2ZS	PDC220668*
	250	LSI	Z: ZSI & 2Relays	PDC24N0250E2ZS	PDC220669*
	160	LSIG	Z: ZSI & 2Relays	PDC24N0160E3ZS	PDC220670*
	200	LSIG	Z: ZSI & 2Relays	PDC24N0200E3ZS	PDC220671*
	250	LSIG	Z: ZSI & 2Relays	PDC24N0250E3ZS	PDC220672*
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24N0160E2WS	PDC220685*
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24N0200E2WS	PDC220686*
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24N0250E2WS	PDC220687*
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0160E3WS	PDC220688*
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0200E3WS	PDC220689*
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0250E3WS	PDC220690*
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24N0160E2XS	PDC220691*
	200	LSI	X: ZSI & CAM & 2Relays	PDC24N0200E2XS	PDC220692*
	250	LSI	X: ZSI & CAM & 2Relays	PDC24N0250E2XS	PDC220693*
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24N0160E3XS	PDC220694*
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24N0200E3XS	PDC220695*
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24N0250E3XS	PDC220696*
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24N0160P2WS	PDC220727*
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24N0200P2WS	PDC220728*
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24N0250P2WS	PDC220729*
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0160P3WS	PDC220730*

**Note:** Consult Eaton for devices marked with “\*”.

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

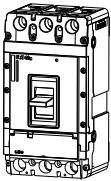


### PDC3

Thermomagnetic release, with adjustable Thermo-magnetic settings  
Standard screw wiring terminal

Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity F: 25 kA@415V</b>				
250	PDC33F0250TAAS	PDC310001	PDC34F0250TAAS	PDC310026
320	PDC33F0320TAAS	PDC310002	PDC34F0320TAAS	PDC310027
400	PDC33F0400TAAS	PDC310003	PDC34F0400TAAS	PDC310028
500	PDC33F0500TAAS	PDC310004	PDC34F0500TAAS	PDC310029
630	PDC33F0630TAAS	PDC310005	PDC34F0630TAAS	PDC310030
<b>Maximum breaking capacity G: 36 kA@415V</b>				
250	PDC33G0250TAAS	PDC310006	PDC34G0250TAAS	PDC310031
320	PDC33G0320TAAS	PDC310007	PDC34G0320TAAS	PDC310032
400	PDC33G0400TAAS	PDC310008	PDC34G0400TAAS	PDC310033
500	PDC33G0500TAAS	PDC310009	PDC34G0500TAAS	PDC310034
630	PDC33G0630TAAS	PDC310010	PDC34G0630TAAS	PDC310035
<b>Maximum breaking capacity K: 50 kA@415V</b>				
250	PDC33K0250TAAS	PDC310011	PDC34K0250TAAS	PDC310036
320	PDC33K0320TAAS	PDC310012	PDC34K0320TAAS	PDC310037
400	PDC33K0400TAAS	PDC310013	PDC34K0400TAAS	PDC310038
500	PDC33K0500TAAS	PDC310014	PDC34K0500TAAS	PDC310039
630	PDC33K0630TAAS	PDC310015	PDC34K0630TAAS	PDC310040
<b>Maximum breaking capacity N: 70 kA@415V</b>				
250	PDC33N0250TAAS	PDC310021	PDC34N0250TAAS	PDC310046
320	PDC33N0320TAAS	PDC310022	PDC34N0320TAAS	PDC310047
400	PDC33N0400TAAS	PDC310023	PDC34N0400TAAS	PDC310048
500	PDC33N0500TAAS	PDC310024	PDC34N0500TAAS	PDC310049
630	PDC33N0630TAAS	PDC310025	PDC34N0630TAAS	PDC310050
<b>Maximum breaking capacity L: 150 kA@415V</b>				
250	PDC33L0250TAAS	PDC310123	PDC34L0250TAAS	PDC310128
320	PDC33L0320TAAS	PDC310124	PDC34L0320TAAS	PDC310129
400	PDC33L0400TAAS	PDC310125	PDC34L0400TAAS	PDC310130
500	PDC33L0500TAAS	PDC310126	PDC34L0500TAAS	PDC310131
630	PDC33L0630TAAS	PDC310127	PDC34L0630TAAS	PDC310132

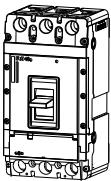
### PDC3



Single-magnetic short-circuit protection(Motor protection)  
Standard screw wiring terminal

3P		4P	
Rated current (A)	Part No.	Part No.	Article No.
<b>Maximum breaking capacity F: 25 kA@415V</b>			
250	PDC33F0250MSAS	PDC310080	
320	PDC33F0320MSAS	PDC310081	
400	PDC33F0400MSAS	PDC310082	
500	PDC33F0500MSAS	PDC310100	
630	PDC33F0630MSAS	PDC310101	
<b>Maximum breaking capacity G: 36 kA@415V</b>			
250	PDC33G0250MSAS	PDC310083	
320	PDC33G0320MSAS	PDC310084	
400	PDC33G0400MSAS	PDC310085	
500	PDC33G0500MSAS	PDC310102	
630	PDC33G0630MSAS	PDC310103	
<b>Maximum breaking capacity K: 50 kA@415V</b>			
250	PDC33K0250MSAS	PDC310086	
320	PDC33K0320MSAS	PDC310087	
400	PDC33K0400MSAS	PDC310088	
500	PDC33K0500MSAS	PDC310104	
630	PDC33K0630MSAS	PDC310105	
<b>Maximum breaking capacity N: 70 kA@415V</b>			
250	PDC33N0250MSAS	PDC310092	
320	PDC33N0320MSAS	PDC310093	
400	PDC33N0400MSAS	PDC310094	
500	PDC33N0500MSAS	PDC310106	
630	PDC33N0630MSAS	PDC310107	
<b>Maximum breaking capacity L: 150 kA@415V</b>			
250	PDC33L0250MSAS	PDC310133	
320	PDC33L0320MSAS	PDC310134	
400	PDC33L0400MSAS	PDC310135	
500	PDC33L0500MSAS	PDC310136	
630	PDC33L0630MSAS	PDC310137	

### PDC3

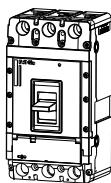


Disconnecting switch  
Standard screw wiring terminal

3P		4P	
Rated current (A)	Part No.	Part No.	Article No.
400	PDC33S0400SNNS	PDC310076	
630	PDC33S0630SNNS	PDC310077	

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

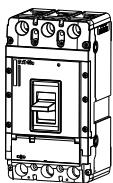


### PDC3 G: 36kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC33G0250B1NS	PDC320355
	400	LI	N: NA/No Comm	PDC33G0400B1NS	PDC320356
	630	LI	N: NA/No Comm	PDC33G0630B1NS	PDC320357
	250	LSI	N: NA/No Comm	PDC33G0250B2NS	PDC320358
	400	LSI	N: NA/No Comm	PDC33G0400B2NS	PDC320359
	630	LSI	N: NA/No Comm	PDC33G0630B2NS	PDC320360
PXR20	250	LSI	N: NA/No Comm	PDC33G0250E2NS	PDC320361
	400	LSI	N: NA/No Comm	PDC33G0400E2NS	PDC320362
	630	LSI	N: NA/No Comm	PDC33G0630E2NS	PDC320363
	250	LSI	Z: ZSI & 2Relays	PDC33G0250E2ZS	PDC320370
	400	LSI	Z: ZSI & 2Relays	PDC33G0400E2ZS	PDC320371
	630	LSI	Z: ZSI & 2Relays	PDC33G0630E2ZS	PDC320372
	250	LSIG	Z: ZSI & 2Relays	PDC33G0250E3ZS	PDC320373
	400	LSIG	Z: ZSI & 2Relays	PDC33G0400E3ZS	PDC320374
	630	LSIG	Z: ZSI & 2Relays	PDC33G0630E3ZS	PDC320375
	250	LSI	W: ZSI & Modbus & 2Relays	PDC33G0250E2WS	PDC320388
	400	LSI	W: ZSI & Modbus & 2Relays	PDC33G0400E2WS	PDC320389
	630	LSI	W: ZSI & Modbus & 2Relays	PDC33G0630E2WS	PDC320390
	250	LSIG	W: ZSI & Modbus & 2Relays	PDC33G0250E3WS	PDC320391
	400	LSIG	W: ZSI & Modbus & 2Relays	PDC33G0400E3WS	PDC320392
	630	LSIG	W: ZSI & Modbus & 2Relays	PDC33G0630E3WS	PDC320393
	250	LSI	X: ZSI & CAM & 2Relays	PDC33G0250E2XS	PDC320394
	400	LSI	X: ZSI & CAM & 2Relays	PDC33G0400E2XS	PDC320395
	630	LSI	X: ZSI & CAM & 2Relays	PDC33G0630E2XS	PDC320396
	250	LSIG	X: ZSI & CAM & 2Relays	PDC33G0250E3XS	PDC320397
	400	LSIG	X: ZSI & CAM & 2Relays	PDC33G0400E3XS	PDC320398
	630	LSIG	X: ZSI & CAM & 2Relays	PDC33G0630E3XS	PDC320399
	250	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33G0250E4WS	PDC320406
	400	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33G0400E4WS	PDC320407
	630	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33G0630E4WS	PDC320408
	250	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33G0250E5WS	PDC320409
	400	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33G0400E5WS	PDC320410
	630	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33G0630E5WS	PDC320411
	250	LSI ARMS	Z: ZSI & 2Relays	PDC33G0250E4ZS	PDC320415
	400	LSI ARMS	Z: ZSI & 2Relays	PDC33G0400E4ZS	PDC320416
	630	LSI ARMS	Z: ZSI & 2Relays	PDC33G0630E4ZS	PDC320417
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33G0250E4XS	PDC320421
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33G0400E4XS	PDC320422
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33G0630E4XS	PDC320423
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC33G0250E5ZS	PDC320427
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC33G0400E5ZS	PDC320428
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC33G0630E5ZS	PDC320429
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33G0250E5XS	PDC320433
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33G0400E5XS	PDC320434
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33G0630E5XS	PDC320435

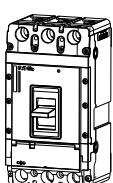


### PDC3 G: 36kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC33G0250P2WS	PDC320490
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33G0400P2WS	PDC320491
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33G0630P2WS	PDC320492
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33G0250P3WS	PDC320493
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33G0400P3WS	PDC320494
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33G0630P3WS	PDC320495
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33G0250P4WS	PDC320502
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33G0400P4WS	PDC320503
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33G0630P4WS	PDC320504
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33G0250P5WS	PDC320505
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33G0400P5WS	PDC320506
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33G0630P5WS	PDC320507
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P2YS	PDC320520
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P2YS	PDC320521
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33G0630P2YS	PDC320522
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P3YS	PDC320523
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P3YS	PDC320524
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33G0630P3YS	PDC320525
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P4YS	PDC320526
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P4YS	PDC320527
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0630P4YS	PDC320528
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P5YS	PDC320529
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P5YS	PDC320530
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33G0630P5YS	PDC320531



### PDC3 G: 36kA@415V

Electronic release

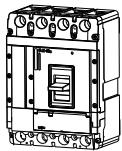
Motor protection

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	250	LSI MCP	N: NA/No Comm	PDC33G0250B8NS	PDC322000
	400	LSI MCP	N: NA/No Comm	PDC33G0400B8NS	PDC322001
	600	LSI MCP	N: NA/No Comm	PDC33G0600B8NS	PDC322002
PXR25	250	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33G0250P8WS	PDC322012
	400	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33G0400P8WS	PDC322013
	600	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33G0600P8WS	PDC322014
	250	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P8YS	PDC322018
	400	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P8YS	PDC322019
	600	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0600P8YS	PDC322020
	250	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33G0250P9WS	PDC322048
	400	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33G0400P9WS	PDC322049
	600	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33G0600P9WS	PDC322050
	250	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0250P9YS	PDC322054
	400	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0400P9YS	PDC322055
	600	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33G0600P9YS	PDC322056

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

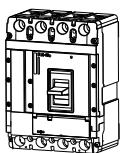


### PDC3 G: 36kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC34G0250B1NS	PDC320532
	400	LI	N: NA/No Comm	PDC34G0400B1NS	PDC320533
	630	LI	N: NA/No Comm	PDC34G0630B1NS	PDC320534
	250	LSI	N: NA/No Comm	PDC34G0250B2NS	PDC320535
	400	LSI	N: NA/No Comm	PDC34G0400B2NS	PDC320536
	630	LSI	N: NA/No Comm	PDC34G0630B2NS	PDC320537
PXR20	250	LSI	N: NA/No Comm	PDC34G0250E2NS	PDC320538
	400	LSI	N: NA/No Comm	PDC34G0400E2NS	PDC320539
	630	LSI	N: NA/No Comm	PDC34G0630E2NS	PDC320540
	250	LSI	Z: ZSI & 2Relays	PDC34G0250E2ZS	PDC320547
	400	LSI	Z: ZSI & 2Relays	PDC34G0400E2ZS	PDC320548
	630	LSI	Z: ZSI & 2Relays	PDC34G0630E2ZS	PDC320549
	250	LSIG	Z: ZSI & 2Relays	PDC34G0250E3ZS	PDC320550
	400	LSIG	Z: ZSI & 2Relays	PDC34G0400E3ZS	PDC320551
	630	LSIG	Z: ZSI & 2Relays	PDC34G0630E3ZS	PDC320552
	250	LSI	W: ZSI &Modbus & 2Relays	PDC34G0250E2WS	PDC320565
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34G0400E2WS	PDC320566
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34G0630E2WS	PDC320567
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0250E3WS	PDC320568
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0400E3WS	PDC320569
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0630E3WS	PDC320570
	250	LSI	X: ZSI & CAM & 2Relays	PDC34G0250E2XS	PDC320571
	400	LSI	X: ZSI & CAM & 2Relays	PDC34G0400E2XS	PDC320572
	630	LSI	X: ZSI & CAM & 2Relays	PDC34G0630E2XS	PDC320573
	250	LSIG	X: ZSI & CAM & 2Relays	PDC34G0250E3XS	PDC320574
	400	LSIG	X: ZSI & CAM & 2Relays	PDC34G0400E3XS	PDC320575
	630	LSIG	X: ZSI & CAM & 2Relays	PDC34G0630E3XS	PDC320576
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0250E4WS	PDC320583
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0400E4WS	PDC320584
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0630E4WS	PDC320585
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0250E5WS	PDC320586
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0400E5WS	PDC320587
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0630E5WS	PDC320588
	250	LSI ARMS	Z: ZSI & 2Relays	PDC34G0250E4ZS	PDC320592
	400	LSI ARMS	Z: ZSI & 2Relays	PDC34G0400E4ZS	PDC320593
	630	LSI ARMS	Z: ZSI & 2Relays	PDC34G0630E4ZS	PDC320594
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34G0250E4XS	PDC320598
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34G0400E4XS	PDC320599
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34G0630E4XS	PDC320600
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC34G0250E5ZS	PDC320604
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC34G0400E5ZS	PDC320605
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC34G0630E5ZS	PDC320606
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34G0250E5XS	PDC320610
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34G0400E5XS	PDC320611
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34G0630E5XS	PDC320612



**PDC3 G: 36kA@415V**

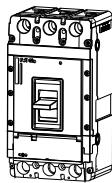
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC34G0250P2WS	PDC320667
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34G0400P2WS	PDC320668
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34G0630P2WS	PDC320669
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0250P3WS	PDC320670
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0400P3WS	PDC320671
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34G0630P3WS	PDC320672
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0250P4WS	PDC320679
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0400P4WS	PDC320680
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34G0630P4WS	PDC320681
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0250P5WS	PDC320682
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0400P5WS	PDC320683
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34G0630P5WS	PDC320684
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34G0250P2YS	PDC320697
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34G0400P2YS	PDC320698
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34G0630P2YS	PDC320699
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34G0250P3YS	PDC320700
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34G0400P3YS	PDC320701
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34G0630P3YS	PDC320702
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0250P4YS	PDC320703
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0400P4YS	PDC320704
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0630P4YS	PDC320705
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0250P5YS	PDC320706
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0400P5YS	PDC320707
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34G0630P5YS	PDC320708

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



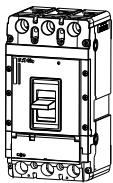
### PDC3 K: 50kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC33K0250B1NS	PDC320709
	400	LI	N: NA/No Comm	PDC33K0400B1NS	PDC320710
	630	LI	N: NA/No Comm	PDC33K0630B1NS	PDC320711
	250	LSI	N: NA/No Comm	PDC33K0250B2NS	PDC320712
	400	LSI	N: NA/No Comm	PDC33K0400B2NS	PDC320713
	630	LSI	N: NA/No Comm	PDC33K0630B2NS	PDC320714
PXR20	250	LSI	N: NA/No Comm	PDC33K0250E2NS	PDC320715
	400	LSI	N: NA/No Comm	PDC33K0400E2NS	PDC320716
	630	LSI	N: NA/No Comm	PDC33K0630E2NS	PDC320717
	250	LSI	Z: ZSI & 2Relays	PDC33K0250E2ZS	PDC320724
	400	LSI	Z: ZSI & 2Relays	PDC33K0400E2ZS	PDC320725
	630	LSI	Z: ZSI & 2Relays	PDC33K0630E2ZS	PDC320726
	250	LSIG	Z: ZSI & 2Relays	PDC33K0250E3ZS	PDC320727
	400	LSIG	Z: ZSI & 2Relays	PDC33K0400E3ZS	PDC320728
	630	LSIG	Z: ZSI & 2Relays	PDC33K0630E3ZS	PDC320729
	250	LSI	W: ZSI & Modbus & 2Relays	PDC33K0250E2WS	PDC320742
	400	LSI	W: ZSI & Modbus & 2Relays	PDC33K0400E2WS	PDC320743
	630	LSI	W: ZSI & Modbus & 2Relays	PDC33K0630E2WS	PDC320744
	250	LSIG	W: ZSI & Modbus & 2Relays	PDC33K0250E3WS	PDC320745
	400	LSIG	W: ZSI & Modbus & 2Relays	PDC33K0400E3WS	PDC320746
	630	LSIG	W: ZSI & Modbus & 2Relays	PDC33K0630E3WS	PDC320747
	250	LSI	X: ZSI & CAM & 2Relays	PDC33K0250E2XS	PDC320748
	400	LSI	X: ZSI & CAM & 2Relays	PDC33K0400E2XS	PDC320749
	630	LSI	X: ZSI & CAM & 2Relays	PDC33K0630E2XS	PDC320750
	250	LSIG	X: ZSI & CAM & 2Relays	PDC33K0250E3XS	PDC320751
	400	LSIG	X: ZSI & CAM & 2Relays	PDC33K0400E3XS	PDC320752
	630	LSIG	X: ZSI & CAM & 2Relays	PDC33K0630E3XS	PDC320753
	250	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33K0250E4WS	PDC320760
	400	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33K0400E4WS	PDC320761
	630	LSI ARMS	W: ZSI & Modbus & 2Relays	PDC33K0630E4WS	PDC320762
	250	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33K0250E5WS	PDC320763
	400	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33K0400E5WS	PDC320764
	630	LSIG ARMS	W: ZSI & Modbus & 2Relays	PDC33K0630E5WS	PDC320765
	250	LSI ARMS	Z: ZSI & 2Relays	PDC33K0250E4ZS	PDC320769
	400	LSI ARMS	Z: ZSI & 2Relays	PDC33K0400E4ZS	PDC320770
	630	LSI ARMS	Z: ZSI & 2Relays	PDC33K0630E4ZS	PDC320771
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33K0250E4XS	PDC320775
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33K0400E4XS	PDC320776
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33K0630E4XS	PDC320777
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC33K0250E5ZS	PDC320781
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC33K0400E5ZS	PDC320782
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC33K0630E5ZS	PDC320783
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33K0250E5XS	PDC320787
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33K0400E5XS	PDC320788
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**Power Defense Molded Case Circuit Breaker**  
Circuit breaker ordering instructions

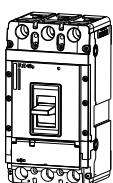


**PDC3 K: 50kA@415V**

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC33K0250P2WS	PDC320844
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33K0400P2WS	PDC320845
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33K0630P2WS	PDC320846
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33K0250P3WS	PDC320847
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33K0400P3WS	PDC320848
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33K0630P3WS	PDC320849
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33K0250P4WS	PDC320856
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33K0400P4WS	PDC320857
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33K0630P4WS	PDC320858
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33K0250P5WS	PDC320859
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33K0400P5WS	PDC320860
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33K0630P5WS	PDC320861
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P2YS	PDC320874
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P2YS	PDC320875
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33K0630P2YS	PDC320876
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P3YS	PDC320877
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P3YS	PDC320878
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33K0630P3YS	PDC320879
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P4YS	PDC320880
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P4YS	PDC320881
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0630P4YS	PDC320882
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P5YS	PDC320883
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P5YS	PDC320884
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33K0630P5YS	PDC320885



**PDC3 K: 50kA@415V**

Electronic release

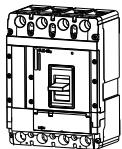
Motor protection

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR25	250	LSI MCP	N: NA/No Comm	PDC33K0250B8NS	PDC322003
	400	LSI MCP	N: NA/No Comm	PDC33K0400B8NS	PDC322004
	600	LSI MCP	N: NA/No Comm	PDC33K0600B8NS	PDC322005
	250	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33K0250P8WS	PDC322024
	400	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33K0400P8WS	PDC322025
	600	LSI MCP	W: ZSI &Modbus & 2Relays	PDC33K0600P8WS	PDC322026
	250	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P8YS	PDC322030
	400	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P8YS	PDC322031
	600	LSI MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0600P8YS	PDC322032
	250	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33K0250P9WS	PDC322060
	400	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33K0400P9WS	PDC322061
	600	LSIG MCP	W: ZSI &Modbus & 2Relays	PDC33K0600P9WS	PDC322062
	250	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0250P9YS	PDC322066
	400	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0400P9YS	PDC322067
	600	LSIG MCP	Y: ZSI &Modbus &2Relays &CAM	PDC33K0600P9YS	PDC322068

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

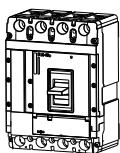


### PDC3 K: 50kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC34K0250B1NS	PDC320886
	400	LI	N: NA/No Comm	PDC34K0400B1NS	PDC320887
	630	LI	N: NA/No Comm	PDC34K0630B1NS	PDC320888
	250	LSI	N: NA/No Comm	PDC34K0250B2NS	PDC320889
	400	LSI	N: NA/No Comm	PDC34K0400B2NS	PDC320890
	630	LSI	N: NA/No Comm	PDC34K0630B2NS	PDC320891
PXR20	250	LSI	N: NA/No Comm	PDC34K0250E2NS	PDC320892
	400	LSI	N: NA/No Comm	PDC34K0400E2NS	PDC320893
	630	LSI	N: NA/No Comm	PDC34K0630E2NS	PDC320894
	250	LSI	Z: ZSI & 2Relays	PDC34K0250E2ZS	PDC320901
	400	LSI	Z: ZSI & 2Relays	PDC34K0400E2ZS	PDC320902
	630	LSI	Z: ZSI & 2Relays	PDC34K0630E2ZS	PDC320903
	250	LSIG	Z: ZSI & 2Relays	PDC34K0250E3ZS	PDC320904
	400	LSIG	Z: ZSI & 2Relays	PDC34K0400E3ZS	PDC320905
	630	LSIG	Z: ZSI & 2Relays	PDC34K0630E3ZS	PDC320906
	250	LSI	W: ZSI &Modbus & 2Relays	PDC34K0250E2WS	PDC320919
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34K0400E2WS	PDC320920
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34K0630E2WS	PDC320921
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0250E3WS	PDC320922
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0400E3WS	PDC320923
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0630E3WS	PDC320924
	250	LSI	X: ZSI & CAM & 2Relays	PDC34K0250E2XS	PDC320925
	400	LSI	X: ZSI & CAM & 2Relays	PDC34K0400E2XS	PDC320926
	630	LSI	X: ZSI & CAM & 2Relays	PDC34K0630E2XS	PDC320927
	250	LSIG	X: ZSI & CAM & 2Relays	PDC34K0250E3XS	PDC320928
	400	LSIG	X: ZSI & CAM & 2Relays	PDC34K0400E3XS	PDC320929
	630	LSIG	X: ZSI & CAM & 2Relays	PDC34K0630E3XS	PDC320930
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0250E4WS	PDC320937
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0400E4WS	PDC320938
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0630E4WS	PDC320939
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0250E5WS	PDC320940
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0400E5WS	PDC320941
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0630E5WS	PDC320942
	250	LSI ARMS	Z: ZSI & 2Relays	PDC34K0250E4ZS	PDC320946
	400	LSI ARMS	Z: ZSI & 2Relays	PDC34K0400E4ZS	PDC320947
	630	LSI ARMS	Z: ZSI & 2Relays	PDC34K0630E4ZS	PDC320948
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34K0250E4XS	PDC320952
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34K0400E4XS	PDC320953
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34K0630E4XS	PDC320954
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC34K0250E5ZS	PDC320958
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC34K0400E5ZS	PDC320959
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC34K0630E5ZS	PDC320960
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34K0250E5XS	PDC320964
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34K0400E5XS	PDC320965
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34K0630E5XS	PDC320966



**PDC3 K: 50kA@415V**

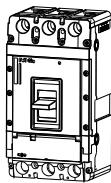
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC34K0250P2WS	PDC321021
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34K0400P2WS	PDC321022
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34K0630P2WS	PDC321023
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0250P3WS	PDC321024
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0400P3WS	PDC321025
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34K0630P3WS	PDC321026
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0250P4WS	PDC321033
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0400P4WS	PDC321034
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34K0630P4WS	PDC321035
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0250P5WS	PDC321036
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0400P5WS	PDC321037
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34K0630P5WS	PDC321038
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34K0250P2YS	PDC321051
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34K0400P2YS	PDC321052
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34K0630P2YS	PDC321053
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34K0250P3YS	PDC321054
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34K0400P3YS	PDC321055
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34K0630P3YS	PDC321056
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0250P4YS	PDC321057
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0400P4YS	PDC321058
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0630P4YS	PDC321059
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0250P5YS	PDC321060
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0400P5YS	PDC321061
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34K0630P5YS	PDC321062

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



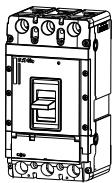
### PDC3 N: 70kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC33N0250B1NS	PDC321417
	400	LI	N: NA/No Comm	PDC33N0400B1NS	PDC321418
	630	LI	N: NA/No Comm	PDC33N0630B1NS	PDC321419
	250	LSI	N: NA/No Comm	PDC33N0250B2NS	PDC321420
	400	LSI	N: NA/No Comm	PDC33N0400B2NS	PDC321421
	630	LSI	N: NA/No Comm	PDC33N0630B2NS	PDC321422
PXR20	250	LSI	N: NA/No Comm	PDC33N0250E2NS	PDC321423
	400	LSI	N: NA/No Comm	PDC33N0400E2NS	PDC321424
	630	LSI	N: NA/No Comm	PDC33N0630E2NS	PDC321425
	250	LSI	Z: ZSI & 2Relays	PDC33N0250E2ZS	PDC321432
	400	LSI	Z: ZSI & 2Relays	PDC33N0400E2ZS	PDC321433
	630	LSI	Z: ZSI & 2Relays	PDC33N0630E2ZS	PDC321434
	250	LSIG	Z: ZSI & 2Relays	PDC33N0250E3ZS	PDC321435
	400	LSIG	Z: ZSI & 2Relays	PDC33N0400E3ZS	PDC321436
	630	LSIG	Z: ZSI & 2Relays	PDC33N0630E3ZS	PDC321437
	250	LSI	W: ZSI &Modbus & 2Relays	PDC33N0250E2WS	PDC321450
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33N0400E2WS	PDC321451
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33N0630E2WS	PDC321452
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0250E3WS	PDC321453
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0400E3WS	PDC321454
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0630E3WS	PDC321455
	250	LSI	X: ZSI & CAM & 2Relays	PDC33N0250E2XS	PDC321456
	400	LSI	X: ZSI & CAM & 2Relays	PDC33N0400E2XS	PDC321457
	630	LSI	X: ZSI & CAM & 2Relays	PDC33N0630E2XS	PDC321458
	250	LSIG	X: ZSI & CAM & 2Relays	PDC33N0250E3XS	PDC321459
	400	LSIG	X: ZSI & CAM & 2Relays	PDC33N0400E3XS	PDC321460
	630	LSIG	X: ZSI & CAM & 2Relays	PDC33N0630E3XS	PDC321461
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0250E4WS	PDC321468
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0400E4WS	PDC321469
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0630E4WS	PDC321470
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0250E5WS	PDC321471
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0400E5WS	PDC321472
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0630E5WS	PDC321473
	250	LSI ARMS	Z: ZSI & 2Relays	PDC33N0250E4ZS	PDC321477
	400	LSI ARMS	Z: ZSI & 2Relays	PDC33N0400E4ZS	PDC321478
	630	LSI ARMS	Z: ZSI & 2Relays	PDC33N0630E4ZS	PDC321479
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33N0250E4XS	PDC321483
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33N0400E4XS	PDC321484
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33N0630E4XS	PDC321485
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC33N0250E5ZS	PDC321489
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC33N0400E5ZS	PDC321490
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC33N0630E5ZS	PDC321491
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33N0250E5XS	PDC321495
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33N0400E5XS	PDC321496
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33N0630E5XS	PDC321497

**Power Defense Molded Case Circuit Breaker**  
Circuit breaker ordering instructions

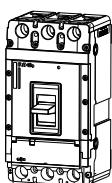


**PDC3 N: 70kA@415V**

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC33N0250P2WS	PDC321552
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33N0400P2WS	PDC321553
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33N0630P2WS	PDC321554
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0250P3WS	PDC321555
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0400P3WS	PDC321556
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0630P3WS	PDC321557
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0250P4WS	PDC321564
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0400P4WS	PDC321565
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33N0630P4WS	PDC321566
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0250P5WS	PDC321567
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0400P5WS	PDC321568
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33N0630P5WS	PDC321569
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P2YS	PDC321582
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P2YS	PDC321583
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0630P2YS	PDC321584
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P3YS	PDC321585
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P3YS	PDC321586
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0630P3YS	PDC321587
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P4YS	PDC321588
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P4YS	PDC321589
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0630P4YS	PDC321590
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P5YS	PDC321591
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P5YS	PDC321592
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33N0630P5YS	PDC321593



**PDC3 N: 70kA@415V**

Electronic release

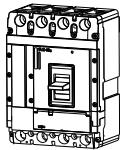
Motor protection

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR25	250	LSI	N: NA/No Comm	PDC33N0250B8NS	PDC322006
	400	LSI	N: NA/No Comm	PDC33N0400B8NS	PDC322007
	600	LSI	N: NA/No Comm	PDC33N0600B8NS	PDC322008
	250	LSI	W: ZSI &Modbus & 2Relays	PDC33N0250P8WS	PDC322036
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33N0400P8WS	PDC322037
	600	LSI	W: ZSI &Modbus & 2Relays	PDC33N0600P8WS	PDC322038
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P8YS	PDC322042
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P8YS	PDC322043
	600	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33N0600P8YS	PDC322044
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0250P9WS	PDC322072
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0400P9WS	PDC322073
	600	LSIG	W: ZSI &Modbus & 2Relays	PDC33N0600P9WS	PDC322074
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0250P9YS	PDC322078
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0400P9YS	PDC322079
	600	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33N0600P9YS	PDC322080

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



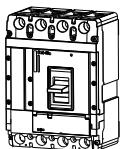
### PDC3 N: 70kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P	Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>						
PXR10	250	LI	N: NA/No Comm	PDC34N0250B1NS	PDC321594	
	400	LI	N: NA/No Comm	PDC34N0400B1NS	PDC321595	
	630	LI	N: NA/No Comm	PDC34N0630B1NS	PDC321596	
	250	LSI	N: NA/No Comm	PDC34N0250B2NS	PDC321597	
	400	LSI	N: NA/No Comm	PDC34N0400B2NS	PDC321598	
	630	LSI	N: NA/No Comm	PDC34N0630B2NS	PDC321599	
PXR20	250	LSI	N: NA/No Comm	PDC34N0250E2NS	PDC321600	
	400	LSI	N: NA/No Comm	PDC34N0400E2NS	PDC321601	
	630	LSI	N: NA/No Comm	PDC34N0630E2NS	PDC321602	
	250	LSI	Z: ZSI & 2Relays	PDC34N0250E2ZS	PDC321609	
	400	LSI	Z: ZSI & 2Relays	PDC34N0400E2ZS	PDC321610	
	630	LSI	Z: ZSI & 2Relays	PDC34N0630E2ZS	PDC321611	
	250	LSIG	Z: ZSI & 2Relays	PDC34N0250E3ZS	PDC321612	
	400	LSIG	Z: ZSI & 2Relays	PDC34N0400E3ZS	PDC321613	
	630	LSIG	Z: ZSI & 2Relays	PDC34N0630E3ZS	PDC321614	
	250	LSI	W: ZSI &Modbus & 2Relays	PDC34N0250E2WS	PDC321627	
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34N0400E2WS	PDC321628	
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34N0630E2WS	PDC321629	
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0250E3WS	PDC321630	
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0400E3WS	PDC321631	
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0630E3WS	PDC321632	
	250	LSI	X: ZSI & CAM & 2Relays	PDC34N0250E2XS	PDC321633	
	400	LSI	X: ZSI & CAM & 2Relays	PDC34N0400E2XS	PDC321634	
	630	LSI	X: ZSI & CAM & 2Relays	PDC34N0630E2XS	PDC321635	
	250	LSIG	X: ZSI & CAM & 2Relays	PDC34N0250E3XS	PDC321636	
	400	LSIG	X: ZSI & CAM & 2Relays	PDC34N0400E3XS	PDC321637	
	630	LSIG	X: ZSI & CAM & 2Relays	PDC34N0630E3XS	PDC321638	
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0250E4WS	PDC321645	
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0400E4WS	PDC321646	
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0630E4WS	PDC321647	
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0250E5WS	PDC321648	
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0400E5WS	PDC321649	
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0630E5WS	PDC321650	
	250	LSI ARMS	Z: ZSI & 2Relays	PDC34N0250E4ZS	PDC321654	
	400	LSI ARMS	Z: ZSI & 2Relays	PDC34N0400E4ZS	PDC321655	
	630	LSI ARMS	Z: ZSI & 2Relays	PDC34N0630E4ZS	PDC321656	
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34N0250E4XS	PDC321660	
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34N0400E4XS	PDC321661	
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34N0630E4XS	PDC321662	
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC34N0250E5ZS	PDC321666	
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC34N0400E5ZS	PDC321667	
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC34N0630E5ZS	PDC321668	
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34N0250E5XS	PDC321672	
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34N0400E5XS	PDC321673	
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34N0630E5XS	PDC321674	

**Power Defense Molded Case Circuit Breaker**  
Circuit breaker ordering instructions



**PDC3 N: 70kA@415V**

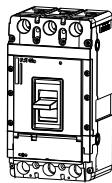
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC34N0250P2WS	PDC321729
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34N0400P2WS	PDC321730
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34N0630P2WS	PDC321731
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0250P3WS	PDC321732
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0400P3WS	PDC321733
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34N0630P3WS	PDC321734
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0250P4WS	PDC321741
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0400P4WS	PDC321742
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34N0630P4WS	PDC321743
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0250P5WS	PDC321744
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0400P5WS	PDC321745
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34N0630P5WS	PDC321746
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34N0250P2YS	PDC321759
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34N0400P2YS	PDC321760
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34N0630P2YS	PDC321761
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34N0250P3YS	PDC321762
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34N0400P3YS	PDC321763
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34N0630P3YS	PDC321764
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0250P4YS	PDC321765
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0400P4YS	PDC321766
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0630P4YS	PDC321767
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0250P5YS	PDC321768
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0400P5YS	PDC321769
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34N0630P5YS	PDC321770

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



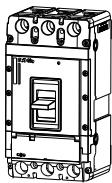
### PDC3 L: 150 kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity L: 150 kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC33L0250B1NS	PDC322081
	400	LI	N: NA/No Comm	PDC33L0400B1NS	PDC322082
	630	LI	N: NA/No Comm	PDC33L0630B1NS	PDC322083
	250	LSI	N: NA/No Comm	PDC33L0250B2NS	PDC322084
	400	LSI	N: NA/No Comm	PDC33L0400B2NS	PDC322085
	630	LSI	N: NA/No Comm	PDC33L0630B2NS	PDC322086
PXR20	250	LSI	N: NA/No Comm	PDC33L0250E2NS	PDC322087
	400	LSI	N: NA/No Comm	PDC33L0400E2NS	PDC322088
	630	LSI	N: NA/No Comm	PDC33L0630E2NS	PDC322089
	250	LSI	Z: ZSI & 2Relays	PDC33L0250E2ZS	PDC322090
	400	LSI	Z: ZSI & 2Relays	PDC33L0400E2ZS	PDC322091
	630	LSI	Z: ZSI & 2Relays	PDC33L0630E2ZS	PDC322092
	250	LSIG	Z: ZSI & 2Relays	PDC33L0250E3ZS	PDC322093
	400	LSIG	Z: ZSI & 2Relays	PDC33L0400E3ZS	PDC322094
	630	LSIG	Z: ZSI & 2Relays	PDC33L0630E3ZS	PDC322095
	250	LSI	W: ZSI &Modbus & 2Relays	PDC33L0250E2WS	PDC322096
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33L0400E2WS	PDC322097
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33L0630E2WS	PDC322098
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0250E3WS	PDC322099
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0400E3WS	PDC322100
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0630E3WS	PDC322101
	250	LSI	X: ZSI & CAM & 2Relays	PDC33L0250E2XS	PDC322102
	400	LSI	X: ZSI & CAM & 2Relays	PDC33L0400E2XS	PDC322103
	630	LSI	X: ZSI & CAM & 2Relays	PDC33L0630E2XS	PDC322104
	250	LSIG	X: ZSI & CAM & 2Relays	PDC33L0250E3XS	PDC322105
	400	LSIG	X: ZSI & CAM & 2Relays	PDC33L0400E3XS	PDC322106
	630	LSIG	X: ZSI & CAM & 2Relays	PDC33L0630E3XS	PDC322107
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0250E4WS	PDC322108
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0400E4WS	PDC322109
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0630E4WS	PDC322110
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0250E5WS	PDC322111
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0400E5WS	PDC322112
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0630E5WS	PDC322113
	250	LSI ARMS	Z: ZSI & 2Relays	PDC33L0250E4ZS	PDC322114
	400	LSI ARMS	Z: ZSI & 2Relays	PDC33L0400E4ZS	PDC322115
	630	LSI ARMS	Z: ZSI & 2Relays	PDC33L0630E4ZS	PDC322116
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33L0250E4XS	PDC322117
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33L0400E4XS	PDC322118
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC33L0630E4XS	PDC322119
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC33L0250E5ZS	PDC322120
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC33L0400E5ZS	PDC322121
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC33L0630E5ZS	PDC322122
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33L0250E5XS	PDC322123
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33L0400E5XS	PDC322124
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC33L0630E5XS	PDC322125

**Power Defense Molded Case Circuit Breaker**  
Circuit breaker ordering instructions

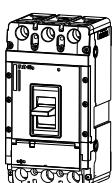


**PDC3 L: 150 kA@415V**

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity L: 150 kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC33L0250P2WS	PDC322150
	400	LSI	W: ZSI &Modbus & 2Relays	PDC33L0400P2WS	PDC322151
	630	LSI	W: ZSI &Modbus & 2Relays	PDC33L0630P2WS	PDC322152
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0250P3WS	PDC322153
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0400P3WS	PDC322154
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC33L0630P3WS	PDC322155
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0250P4WS	PDC322156
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0400P4WS	PDC322157
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC33L0630P4WS	PDC322158
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0250P5WS	PDC322159
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0400P5WS	PDC322160
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC33L0630P5WS	PDC322161
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33L0250P2YS	PDC322162
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33L0400P2YS	PDC322163
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC33L0630P2YS	PDC322164
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33L0250P3YS	PDC322165
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33L0400P3YS	PDC322166
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC33L0630P3YS	PDC322167
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0250P4YS	PDC322168
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0400P4YS	PDC322169
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0630P4YS	PDC322170
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0250P5YS	PDC322171
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0400P5YS	PDC322172
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC33L0630P5YS	PDC322173



**PDC3 L: 150 kA@415V**

Electronic release

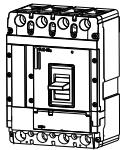
Motor protection

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity L: 150 kA@415V</b>					
PXR10	250	LSI MCP	N: NA/No Comm	PDC33L0250B8NS	PDC322267
	400	LSI MCP	N: NA/No Comm	PDC33L0400B8NS	PDC322268
	600	LSI MCP	N: NA/No Comm	PDC33L0600B8NS	PDC322269
PXR25	250	LSI MCP	W: ZSI & Modbus & 2Relays	PDC33L0250P8WS	PDC322270
	400	LSI MCP	W: ZSI & Modbus & 2Relays	PDC33L0400P8WS	PDC322271
	600	LSI MCP	W: ZSI & Modbus & 2Relays	PDC33L0600P8WS	PDC322272
	250	LSI MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0250P8YS	PDC322273
	400	LSI MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0400P8YS	PDC322274
	600	LSI MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0600P8YS	PDC322275
	250	LSIG MCP	W: ZSI & Modbus & 2Relays	PDC33L0250P9WS	PDC322276
	400	LSIG MCP	W: ZSI & Modbus & 2Relays	PDC33L0400P9WS	PDC322277
	600	LSIG MCP	W: ZSI & Modbus & 2Relays	PDC33L0600P9WS	PDC322278
	250	LSIG MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0250P9YS	PDC322279
	400	LSIG MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0400P9YS	PDC322280
	600	LSIG MCP	Y: ZSI & Modbus & 2Relays & CAM	PDC33L0600P9YS	PDC322281

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



### PDC3 L: 150 kA@415V

Electronic release

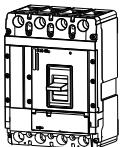
Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity L: 150 kA@415V</b>					
PXR10	250	LI	N: NA/No Comm	PDC34L0250B1NS	PDC322174
	400	LI	N: NA/No Comm	PDC34L0400B1NS	PDC322175
	630	LI	N: NA/No Comm	PDC34L0630B1NS	PDC322176
	250	LSI	N: NA/No Comm	PDC34L0250B2NS	PDC322177
	400	LSI	N: NA/No Comm	PDC34L0400B2NS	PDC322178
	630	LSI	N: NA/No Comm	PDC34L0630B2NS	PDC322179
PXR20	250	LSI	N: NA/No Comm	PDC34L0250E2NS	PDC322180
	400	LSI	N: NA/No Comm	PDC34L0400E2NS	PDC322181
	630	LSI	N: NA/No Comm	PDC34L0630E2NS	PDC322182
	250	LSI	Z: ZSI & 2Relays	PDC34L0250E2ZS	PDC322183
	400	LSI	Z: ZSI & 2Relays	PDC34L0400E2ZS	PDC322184
	630	LSI	Z: ZSI & 2Relays	PDC34L0630E2ZS	PDC322185
	250	LSIG	Z: ZSI & 2Relays	PDC34L0250E3ZS	PDC322186
	400	LSIG	Z: ZSI & 2Relays	PDC34L0400E3ZS	PDC322187
	630	LSIG	Z: ZSI & 2Relays	PDC34L0630E3ZS	PDC322188
	250	LSI	W: ZSI &Modbus & 2Relays	PDC34L0250E2WS	PDC322189
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34L0400E2WS	PDC322190
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34L0630E2WS	PDC322191
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0250E3WS	PDC322192
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0400E3WS	PDC322193
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0630E3WS	PDC322194
	250	LSI	X: ZSI & CAM & 2Relays	PDC34L0250E2XS	PDC322195
	400	LSI	X: ZSI & CAM & 2Relays	PDC34L0400E2XS	PDC322196
	630	LSI	X: ZSI & CAM & 2Relays	PDC34L0630E2XS	PDC322197
	250	LSIG	X: ZSI & CAM & 2Relays	PDC34L0250E3XS	PDC322198
	400	LSIG	X: ZSI & CAM & 2Relays	PDC34L0400E3XS	PDC322199
	630	LSIG	X: ZSI & CAM & 2Relays	PDC34L0630E3XS	PDC322200
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0250E4WS	PDC322201
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0400E4WS	PDC322202
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0630E4WS	PDC322203
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0250E5WS	PDC322204
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0400E5WS	PDC322205
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0630E5WS	PDC322206
	250	LSI ARMS	Z: ZSI & 2Relays	PDC34L0250E4ZS	PDC322207
	400	LSI ARMS	Z: ZSI & 2Relays	PDC34L0400E4ZS	PDC322208
	630	LSI ARMS	Z: ZSI & 2Relays	PDC34L0630E4ZS	PDC322209
	250	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34L0250E4XS	PDC322210
	400	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34L0400E4XS	PDC322211
	630	LSI ARMS	X: ZSI & CAM & 2Relays	PDC34L0630E4XS	PDC322212
	250	LSIG ARMS	Z: ZSI & 2Relays	PDC34L0250E5ZS	PDC322213
	400	LSIG ARMS	Z: ZSI & 2Relays	PDC34L0400E5ZS	PDC322214
	630	LSIG ARMS	Z: ZSI & 2Relays	PDC34L0630E5ZS	PDC322215
	250	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34L0250E5XS	PDC322216
	400	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34L0400E5XS	PDC322217
	630	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC34L0630E5XS	PDC322218

### PDC3 L: 150 kA@415V

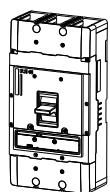
Electronic release

Standard screw wiring terminal



Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity L: 150 kA@415V</b>					
PXR25	250	LSI	W: ZSI &Modbus & 2Relays	PDC34L0250P2WS	PDC322243
	400	LSI	W: ZSI &Modbus & 2Relays	PDC34L0400P2WS	PDC322244
	630	LSI	W: ZSI &Modbus & 2Relays	PDC34L0630P2WS	PDC322245
	250	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0250P3WS	PDC322246
	400	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0400P3WS	PDC322247
	630	LSIG	W: ZSI &Modbus & 2Relays	PDC34L0630P3WS	PDC322248
	250	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0250P4WS	PDC322249
	400	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0400P4WS	PDC322250
	630	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC34L0630P4WS	PDC322251
	250	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0250P5WS	PDC322252
	400	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0400P5WS	PDC322253
	630	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC34L0630P5WS	PDC322254
	250	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34L0250P2YS	PDC322255
	400	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34L0400P2YS	PDC322256
	630	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC34L0630P2YS	PDC322257
	250	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34L0250P3YS	PDC322258
	400	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34L0400P3YS	PDC322259
	630	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC34L0630P3YS	PDC322260
	250	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0250P4YS	PDC322261
	400	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0400P4YS	PDC322262
	630	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0630P4YS	PDC322263
	250	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0250P5YS	PDC322264
	400	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0400P5YS	PDC322265
	630	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC34L0630P5YS	PDC322266

### PDC4

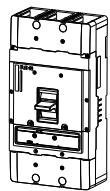


Rated current (A)	3P Part No.	Article No.	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36 kA@415V</b>				
800	PDC43G0800TAAS	PDC410001	PDC44G0800TAAS	PDC410009
<b>Maximum breaking capacity K: 50 kA@415V</b>				
800	PDC43K0800TAAS	PDC410003	PDC44K0800TAAS	PDC410011
<b>Maximum breaking capacity N: 70 kA@415V</b>				
800	PDC43N0800TAAS	PDC410007	PDC44N0800TAAS	PDC410015

### PDC4

Disconnecting switch

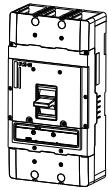
Standard screw wiring terminal



Rated current (A)	3P Part No.	Article No.	4P Part No.	Article No.
800	PDC43S0800SNNS	PDC410025	PDC44S0800SNNS	PDC410027

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

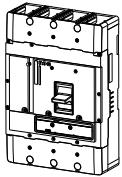


### PDC4 G: 36kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC43G0800B1NS	PDC420001
	800	LSI	N: NA/No Comm	PDC43G0800B2NS	PDC420003
PXR20	800	LSI	N: NA/No Comm	PDC43G0800E2NS	PDC420005
	800	LSI	Z: ZSI & 2Relays	PDC43G0800E2ZS	PDC420011
	800	LSIG	Z: ZSI & 2Relays	PDC43G0800E3ZS	PDC420013
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43G0800E2WS	PDC420023
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43G0800E3WS	PDC420025
	800	LSI	X: ZSI & CAM & 2Relays	PDC43G0800E2XS	PDC420027
	800	LSIG	X: ZSI & CAM & 2Relays	PDC43G0800E3XS	PDC420029
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43G0800E4WS	PDC420035
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43G0800E5WS	PDC420037
	800	LSI ARMS	Z: ZSI & 2Relays	PDC43G0800E4ZS	PDC420041
PXR25	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC43G0800E4XS	PDC420045
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC43G0800E5ZS	PDC420049
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC43G0800E5XS	PDC420053
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43G0800P2WS	PDC420091
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43G0800P3WS	PDC420093
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43G0800P4WS	PDC420099
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43G0800P5WS	PDC420101
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC43G0800P2YS	PDC420111
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC43G0800P3YS	PDC420113
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43G0800P4YS	PDC420115
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43G0800P5YS	PDC420117



**PDC4 G: 36kA@415V**

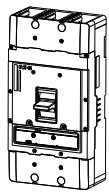
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC44G0800B1NS	PDC420119
	800	LSI	N: NA/No Comm	PDC44G0800B2NS	PDC420121
PXR20	800	LSI	N: NA/No Comm	PDC44G0800E2NS	PDC420123
	800	LSI	Z: ZSI & 2Relays	PDC44G0800E2ZS	PDC420129
	800	LSIG	Z: ZSI & 2Relays	PDC44G0800E3ZS	PDC420131
	800	LSI	W: ZSI &Modbus & 2Relays	PDC44G0800E2WS	PDC420141
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44G0800E3WS	PDC420143
	800	LSI	X: ZSI & CAM & 2Relays	PDC44G0800E2XS	PDC420145
	800	LSIG	X: ZSI & CAM & 2Relays	PDC44G0800E3XS	PDC420147
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44G0800E4WS	PDC420153
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44G0800E5WS	PDC420155
	800	LSI ARMS	Z: ZSI & 2Relays	PDC44G0800E4ZS	PDC420159
	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC44G0800E4XS	PDC420163
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC44G0800E5ZS	PDC420167
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC44G0800E5XS	PDC420171
PXR25	800	LSI	W: ZSI &Modbus & 2Relays	PDC44G0800P2WS	PDC420209
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44G0800P3WS	PDC420211
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44G0800P4WS	PDC420217
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44G0800P5WS	PDC420219
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC44G0800P2YS	PDC420229
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC44G0800P3YS	PDC420231
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44G0800P4YS	PDC420233
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44G0800P5YS	PDC420235

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

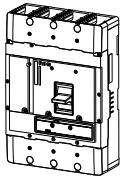


### PDC4 K: 50kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC43K0800B1NS	PDC420237
	800	LSI	N: NA/No Comm	PDC43K0800B2NS	PDC420239
PXR20	800	LSI	N: NA/No Comm	PDC43K0800E2NS	PDC420241
	800	LSI	Z: ZSI & 2Relays	PDC43K0800E2ZS	PDC420247
	800	LSIG	Z: ZSI & 2Relays	PDC43K0800E3ZS	PDC420249
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43K0800E2WS	PDC420259
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43K0800E3WS	PDC420261
	800	LSI	X: ZSI & CAM & 2Relays	PDC43K0800E2XS	PDC420263
	800	LSIG	X: ZSI & CAM & 2Relays	PDC43K0800E3XS	PDC420265
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43K0800E4WS	PDC420271
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43K0800E5WS	PDC420273
	800	LSI ARMS	Z: ZSI & 2Relays	PDC43K0800E4ZS	PDC420277
PXR25	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC43K0800E4XS	PDC420281
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC43K0800E5ZS	PDC420285
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC43K0800E5XS	PDC420289
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43K0800P2WS	PDC420327
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43K0800P3WS	PDC420329
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43K0800P4WS	PDC420335
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43K0800P5WS	PDC420337
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC43K0800P2YS	PDC420347
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC43K0800P3YS	PDC420349
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43K0800P4YS	PDC420351
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43K0800P5YS	PDC420353



**PDC4 K: 50kA@415V**

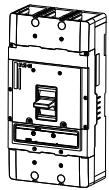
Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC44K0800B1NS	PDC420355
	800	LSI	N: NA/No Comm	PDC44K0800B2NS	PDC420357
PXR20	800	LSI	N: NA/No Comm	PDC44K0800E2NS	PDC420359
	800	LSI	Z: ZSI & 2Relays	PDC44K0800E2ZS	PDC420365
	800	LSIG	Z: ZSI & 2Relays	PDC44K0800E3ZS	PDC420367
	800	LSI	W: ZSI &Modbus & 2Relays	PDC44K0800E2WS	PDC420377
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44K0800E3WS	PDC420379
	800	LSI	X: ZSI & CAM & 2Relays	PDC44K0800E2XS	PDC420381
	800	LSIG	X: ZSI & CAM & 2Relays	PDC44K0800E3XS	PDC420383
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44K0800E4WS	PDC420389
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44K0800E5WS	PDC420391
	800	LSI ARMS	Z: ZSI & 2Relays	PDC44K0800E4ZS	PDC420395
	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC44K0800E4XS	PDC420399
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC44K0800E5ZS	PDC420403
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC44K0800E5XS	PDC420407
PXR25	800	LSI	W: ZSI &Modbus & 2Relays	PDC44K0800P2WS	PDC420445
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44K0800P3WS	PDC420447
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44K0800P4WS	PDC420453
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44K0800P5WS	PDC420455
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC44K0800P2YS	PDC420465
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC44K0800P3YS	PDC420467
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44K0800P4YS	PDC420469
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44K0800P5YS	PDC420471

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

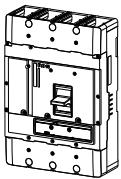


### PDC4 N: 70kA@415V

Electronic release

Standard screw wiring terminal

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC43N0800B1NS	PDC420473
	800	LSI	N: NA/No Comm	PDC43N0800B2NS	PDC420475
PXR20	800	LSI	N: NA/No Comm	PDC43N0800E2NS	PDC420477
	800	LSI	Z: ZSI & 2Relays	PDC43N0800E2ZS	PDC420483
	800	LSIG	Z: ZSI & 2Relays	PDC43N0800E3ZS	PDC420485
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43N0800E2WS	PDC420495
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43N0800E3WS	PDC420497
	800	LSI	X: ZSI & CAM & 2Relays	PDC43N0800E2XS	PDC420499
	800	LSIG	X: ZSI & CAM & 2Relays	PDC43N0800E3XS	PDC420501
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43N0800E4WS	PDC420507
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43N0800E5WS	PDC420509
	800	LSI ARMS	Z: ZSI & 2Relays	PDC43N0800E4ZS	PDC420513
PXR25	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC43N0800E4XS	PDC420517
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC43N0800E5ZS	PDC420521
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC43N0800E5XS	PDC420525
	800	LSI	W: ZSI &Modbus & 2Relays	PDC43N0800P2WS	PDC420563
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC43N0800P3WS	PDC420565
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC43N0800P4WS	PDC420571
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC43N0800P5WS	PDC420573
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC43N0800P2YS	PDC420583
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC43N0800P3YS	PDC420585
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43N0800P4YS	PDC420587
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC43N0800P5YS	PDC420589



**PDC4 N: 70kA@415V**

Electronic release

Standard screw wiring terminal

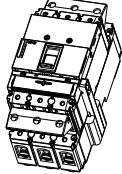
Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	800	LI	N: NA/No Comm	PDC44N0800B1NS	PDC420591
	800	LSI	N: NA/No Comm	PDC44N0800B2NS	PDC420593
PXR20	800	LSI	N: NA/No Comm	PDC44N0800E2NS	PDC420595
	800	LSI	Z: ZSI & 2Relays	PDC44N0800E2ZS	PDC420601
	800	LSIG	Z: ZSI & 2Relays	PDC44N0800E3ZS	PDC420603
	800	LSI	W: ZSI &Modbus & 2Relays	PDC44N0800E2WS	PDC420613
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44N0800E3WS	PDC420615
	800	LSI	X: ZSI & CAM & 2Relays	PDC44N0800E2XS	PDC420617
	800	LSIG	X: ZSI & CAM & 2Relays	PDC44N0800E3XS	PDC420619
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44N0800E4WS	PDC420625
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44N0800E5WS	PDC420627
	800	LSI ARMS	Z: ZSI & 2Relays	PDC44N0800E4ZS	PDC420631
	800	LSI ARMS	X: ZSI & CAM & 2Relays	PDC44N0800E4XS	PDC420635
	800	LSIG ARMS	Z: ZSI & 2Relays	PDC44N0800E5ZS	PDC420639
	800	LSIG ARMS	X: ZSI & CAM & 2Relays	PDC44N0800E5XS	PDC420643
PXR25	800	LSI	W: ZSI &Modbus & 2Relays	PDC44N0800P2WS	PDC420681
	800	LSIG	W: ZSI &Modbus & 2Relays	PDC44N0800P3WS	PDC420683
	800	LSI ARMS	W: ZSI &Modbus & 2Relays	PDC44N0800P4WS	PDC420689
	800	LSIG ARMS	W: ZSI &Modbus & 2Relays	PDC44N0800P5WS	PDC420691
	800	LSI	Y: ZSI &Modbus &2Relays &CAM	PDC44N0800P2YS	PDC420701
	800	LSIG	Y: ZSI &Modbus &2Relays &CAM	PDC44N0800P3YS	PDC420703
	800	LSI ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44N0800P4YS	PDC420705
	800	LSIG ARMS	Y: ZSI &Modbus &2Relays &CAM	PDC44N0800P5YS	PDC420707

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions

### Plug in One

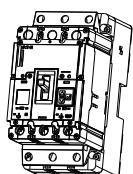
Circuit breaker with plug-in base



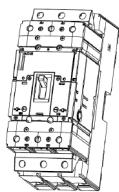
Frame	Part No.	Article No.
PDC1 thermomagnetic type	PDC13K0016TAAP	PDC110117
	PDC13K0020TAAP	PDC110118
	PDC13K0025TAAP	PDC110119
	PDC13K0032TAAP	PDC110120
	PDC13K0040TAAP	PDC110121
	PDC13K0050TAAP	PDC110122
	PDC13K0063TAAP	PDC110123
	PDC13K0080TAAP	PDC110124
	PDC13K0100TAAP	PDC110125
	PDC13K0125TAAP	PDC110126
	PDC13K0160TAAP	PDC110127
	PDC13N0016TAAP	PDC111037
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	PDC13N0063TAAP	PDC111043
	PDC13N0080TAAP	PDC111044
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	PDC13N0125TAAP	PDC111046
	PDC13N0160TAAP	PDC111047
PDC3 thermomagnetic type	PDC33K0250TAASP	PDC310095
	PDC33K0320TAASP	PDC310096
	PDC33K0400TAASP	PDC310097
	PDC33K0500TAASP	PDC310098
	PDC33K0630TAASP	PDC310099
	PDC33N0250TAASP	PDC310108
	PDC33N0320TAASP	PDC310109
	PDC33N0400TAASP	PDC310110
	PDC33N0500TAASP	PDC310111
	PDC33N0630TAASP	PDC310112

### Plug in One

Circuit breaker with plug-in base



Frame	Part No.	Article No.
PDC9 electronic type	PDC93K0063B2NP	PDC920931
	PDC93K0100B2NP	PDC920932
	PDC93K0160B2NP	PDC920933
	PDC93K0063E2NP	PDC920934
	PDC93K0100E2NP	PDC920935
	PDC93K0160E2NP	PDC920936
	PDC93N0063B2NP	PDC920943
	PDC93N0100B2NP	PDC920944
	PDC93N0160B2NP	PDC920945
	PDC93N0063E2NP	PDC920946
	PDC93N0100E2NP	PDC920947
	PDC93N0160E2NP	PDC920948
PDC3 electronic type	PDC33K0250B2NSP	PDC321771
	PDC33K0400B2NSP	PDC321772
	PDC33K0630B2NSP	PDC321773
	PDC33K0250E2NSP	PDC321774
	PDC33K0400E2NSP	PDC321775
	PDC33K0630E2NSP	PDC321776
	PDC33N0250B2NSP	PDC321786
	PDC33N0400B2NSP	PDC321787
	PDC33N0630B2NSP	PDC321788
	PDC33N0250E2NSP	PDC321789
	PDC33N0400E2NSP	PDC321790
	PDC33N0630E2NSP	PDC321791



### Plug in one

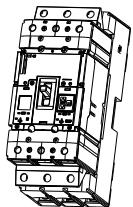
PDC2 一体式产品  
热磁式断路器 + 插拔式底座

Rated current (A)	Part No.	Article No.	Part No.	Article No.
<b>Maximum breaking capacity F: 25 kA@415V</b>				
125	PDC23F0125TAASP	PDC210101	PDC24F0125TAASP	PDC210109
160	PDC23F0160TAASP	PDC210102	PDC24F0160TAASP	PDC210110
200	PDC23F0200TAASP	PDC210103	PDC24F0200TAASP	PDC210111
250	PDC23F0250TAASP	PDC210104	PDC24F0250TAASP	PDC210112
<b>Maximum breaking capacity G: 36 kA@415V</b>				
125	PDC23G0125TAASP	PDC210105	PDC24G0125TAASP	PDC210113
160	PDC23G0160TAASP	PDC210106	PDC24G0160TAASP	PDC210114
200	PDC23G0200TAASP	PDC210107	PDC24G0200TAASP	PDC210115
250	PDC23G0250TAASP	PDC210108	PDC24G0250TAASP	PDC210116
<b>Maximum breaking capacity K: 50 kA@415V</b>				
125	PDC23K0125TAASP	PDC210085	PDC24K0125TAASP	PDC210117
160	PDC23K0160TAASP	PDC210086	PDC24K0160TAASP	PDC210118
200	PDC23K0200TAASP	PDC210087	PDC24K0200TAASP	PDC210119
250	PDC23K0250TAASP	PDC210088	PDC24K0250TAASP	PDC210120
<b>Maximum breaking capacity N: 70 kA@415V</b>				
125	PDC23N0125TAASP	PDC210089	PDC24N0125TAASP	PDC210121*
160	PDC23N0160TAASP	PDC210090	PDC24N0160TAASP	PDC210122*
200	PDC23N0200TAASP	PDC210091	PDC24N0200TAASP	PDC210123*
250	PDC23N0250TAASP	PDC210092	PDC24N0250TAASP	PDC210124*

**Note:** Consult Eaton for devices marked with “\*\*”.

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



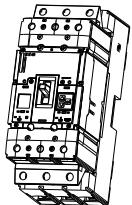
### Plug in one

Circuit breaker with plug-in base

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC23G0160B1NSP	PDC221081
	200	LI	N: NA/No Comm	PDC23G0200B1NSP	PDC221082
	250	LI	N: NA/No Comm	PDC23G0250B1NSP	PDC221083
	160	LSI	N: NA/No Comm	PDC23G0160B2NSP	PDC221084
	200	LSI	N: NA/No Comm	PDC23G0200B2NSP	PDC221085
	250	LSI	N: NA/No Comm	PDC23G0250B2NSP	PDC221086
PXR20	160	LSI	N: NA/No Comm	PDC23G0160E2NSP	PDC221087
	200	LSI	N: NA/No Comm	PDC23G0200E2NSP	PDC221088
	250	LSI	N: NA/No Comm	PDC23G0250E2NSP	PDC221089
	160	LSI	Z: ZSI & 2Relays	PDC23G0160E2ZSP	PDC221090
	200	LSI	Z: ZSI & 2Relays	PDC23G0200E2ZSP	PDC221091
	250	LSI	Z: ZSI & 2Relays	PDC23G0250E2ZSP	PDC221092
	160	LSIG	Z: ZSI & 2Relays	PDC23G0160E3ZSP	PDC221093
	200	LSIG	Z: ZSI & 2Relays	PDC23G0200E3ZSP	PDC221094
	250	LSIG	Z: ZSI & 2Relays	PDC23G0250E3ZSP	PDC221095
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23G0160E2WSP	PDC221096
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23G0200E2WSP	PDC221097
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23G0250E2WSP	PDC221098
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0160E3WSP	PDC221099
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0200E3WSP	PDC221100
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0250E3WSP	PDC221101
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC23G0160E2XSP	PDC221102
	200	LSI	X: ZSI & CAM & 2Relays	PDC23G0200E2XSP	PDC221103
	250	LSI	X: ZSI & CAM & 2Relays	PDC23G0250E2XSP	PDC221104
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23G0160E3XSP	PDC221105
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23G0200E3XSP	PDC221106
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23G0250E3XSP	PDC221107
	160	LSI	W: ZSI &Modbus & 1Relay	PDC23G0160P2WSP	PDC221120
	200	LSI	W: ZSI &Modbus & 1Relay	PDC23G0200P2WSP	PDC221121
	250	LSI	W: ZSI &Modbus & 1Relay	PDC23G0250P2WSP	PDC221122
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC23G0160P3WSP	PDC221123

**Plug in one**

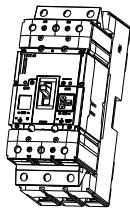
Circuit breaker with plug-in base



Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P	Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>						
PXR10	160	LSI MCP	N: NA/No Comm	PDC23G0160B8NSP	PDC221375	
	200	LSI MCP	N: NA/No Comm	PDC23G0200B8NSP	PDC221376	
	220	LSI MCP	N: NA/No Comm	PDC23G0220B8NSP	PDC221377	
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0160P8WSP	PDC221384	
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0200P8WSP	PDC221385	
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23G0220P8WSP	PDC221386	
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0160P8YS	PDC221387	
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0200P8YS	PDC221388	
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0220P8YS	PDC221389	
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0160P9WSP	PDC221402	
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0200P9WSP	PDC221403	
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23G0220P9WSP	PDC221404	
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0160P9YS	PDC221405	
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0200P9YS	PDC221406	
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23G0220P9YS	PDC221407	

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



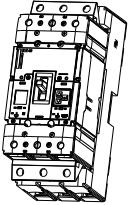
### Plug in one

Circuit breaker with plug-in base

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P	Part No.	Article No.
<b>Maximum breaking capacity G: 36kA@415V</b>						
PXR10	160	LI	N: NA/No Comm	PDC24G0160B1NSP	PDC221132	
	200	LI	N: NA/No Comm	PDC24G0200B1NSP	PDC221133	
	250	LI	N: NA/No Comm	PDC24G0250B1NSP	PDC221134	
	160	LSI	N: NA/No Comm	PDC24G0160B2NSP	PDC221135	
	200	LSI	N: NA/No Comm	PDC24G0200B2NSP	PDC221136	
	250	LSI	N: NA/No Comm	PDC24G0250B2NSP	PDC221137	
PXR20	160	LSI	N: NA/No Comm	PDC24G0160E2NSP	PDC221138	
	200	LSI	N: NA/No Comm	PDC24G0200E2NSP	PDC221139	
	250	LSI	N: NA/No Comm	PDC24G0250E2NSP	PDC221140	
	160	LSI	Z: ZSI & 2Relays	PDC24G0160E2ZSP	PDC221141	
	200	LSI	Z: ZSI & 2Relays	PDC24G0200E2ZSP	PDC221142	
	250	LSI	Z: ZSI & 2Relays	PDC24G0250E2ZSP	PDC221143	
	160	LSIG	Z: ZSI & 2Relays	PDC24G0160E3ZSP	PDC221144	
	200	LSIG	Z: ZSI & 2Relays	PDC24G0200E3ZSP	PDC221145	
	250	LSIG	Z: ZSI & 2Relays	PDC24G0250E3ZSP	PDC221146	
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24G0160E2WSP	PDC221147	
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24G0200E2WSP	PDC221148	
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24G0250E2WSP	PDC221149	
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0160E3WSP	PDC221150	
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0200E3WSP	PDC221151	
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0250E3WSP	PDC221152	
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24G0160E2XSP	PDC221153	
	200	LSI	X: ZSI & CAM & 2Relays	PDC24G0200E2XSP	PDC221154	
	250	LSI	X: ZSI & CAM & 2Relays	PDC24G0250E2XSP	PDC221155	
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24G0160E3XSP	PDC221156	
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24G0200E3XSP	PDC221157	
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24G0250E3XSP	PDC221158	
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24G0160P2WSP	PDC221171	
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24G0200P2WSP	PDC221172	
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24G0250P2WSP	PDC221173	
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24G0160P3WSP	PDC221174	

**Plug in one**

Circuit breaker with plug-in base

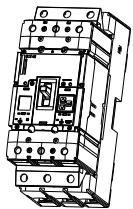


Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC23K0160B1NSP	PDC221183
	200	LI	N: NA/No Comm	PDC23K0200B1NSP	PDC221184
	250	LI	N: NA/No Comm	PDC23K0250B1NSP	PDC221185*
	160	LSI	N: NA/No Comm	PDC23K0160B2NSP	PDC220931
	200	LSI	N: NA/No Comm	PDC23K0200B2NSP	PDC220932
	250	LSI	N: NA/No Comm	PDC23K0250B2NSP	PDC220933*
PXR20	160	LSI	N: NA/No Comm	PDC23K0160E2NSP	PDC220934
	200	LSI	N: NA/No Comm	PDC23K0200E2NSP	PDC220935
	250	LSI	N: NA/No Comm	PDC23K0250E2NSP	PDC220936*
	160	LSI	Z: ZSI & 2Relays	PDC23K0160E2ZSP	PDC221186
	200	LSI	Z: ZSI & 2Relays	PDC23K0200E2ZSP	PDC221187
	250	LSI	Z: ZSI & 2Relays	PDC23K0250E2ZSP	PDC221188*
	160	LSIG	Z: ZSI & 2Relays	PDC23K0160E3ZSP	PDC221189
	200	LSIG	Z: ZSI & 2Relays	PDC23K0200E3ZSP	PDC221190
	250	LSIG	Z: ZSI & 2Relays	PDC23K0250E3ZSP	PDC221191*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC23K0160E2WSP	PDC221192
	200	LSI	W: ZSI & Modbus & 1Relay	PDC23K0200E2WSP	PDC221193
	250	LSI	W: ZSI & Modbus & 1Relay	PDC23K0250E2WSP	PDC221194*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC23K0160E3WSP	PDC221195
	200	LSIG	W: ZSI & Modbus & 1Relay	PDC23K0200E3WSP	PDC221196
	250	LSIG	W: ZSI & Modbus & 1Relay	PDC23K0250E3WSP	PDC221197*
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC23K0160E2XSP	PDC221198
	200	LSI	X: ZSI & CAM & 2Relays	PDC23K0200E2XSP	PDC221199
	250	LSI	X: ZSI & CAM & 2Relays	PDC23K0250E2XSP	PDC221200*
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23K0160E3XSP	PDC221201
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23K0200E3XSP	PDC221202
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23K0250E3XSP	PDC221203*
	160	LSI	W: ZSI & Modbus & 1Relay	PDC23K0160P2WSP	PDC221216
	200	LSI	W: ZSI & Modbus & 1Relay	PDC23K0200P2WSP	PDC221217
	250	LSI	W: ZSI & Modbus & 1Relay	PDC23K0250P2WSP	PDC221218*
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC23K0160P3WSP	PDC221219

**Note:** Consult Eaton for devices marked with “\*\*”.

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



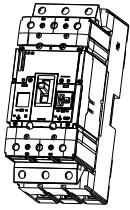
### Plug in one

Circuit breaker with plug-in base

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>					
PXR10	160	LSI MCP	N: NA/No Comm	PDC23K0160B8NSP	PDC221378
	200	LSI MCP	N: NA/No Comm	PDC23K0200B8NSP	PDC221379
	220	LSI MCP	N: NA/No Comm	PDC23K0220B8NSP	PDC221380
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0160P8WSP	PDC221390
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0200P8WSP	PDC221391
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23K0220P8WSP	PDC221392
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P8YSP	PDC221393
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P8YSP	PDC221394
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0220P8YSP	PDC221395
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0160P9WSP	PDC221408
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0200P9WSP	PDC221409
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23K0220P9WSP	PDC221410
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0160P9YSP	PDC221411
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0200P9YSP	PDC221412
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23K0220P9YSP	PDC221413

**Plug in one**

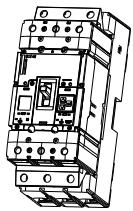
Circuit breaker with plug-in base



Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P	Part No.	Article No.
<b>Maximum breaking capacity K: 50kA@415V</b>						
PXR10	160	LI	N: NA/No Comm	PDC24K0160B1NSP	PDC221228	
	200	LI	N: NA/No Comm	PDC24K0200B1NSP	PDC221229	
	250	LI	N: NA/No Comm	PDC24K0250B1NSP	PDC221230	
	160	LSI	N: NA/No Comm	PDC24K0160B2NSP	PDC221231	
	200	LSI	N: NA/No Comm	PDC24K0200B2NSP	PDC221232	
	250	LSI	N: NA/No Comm	PDC24K0250B2NSP	PDC221233	
PXR20	160	LSI	N: NA/No Comm	PDC24K0160E2NSP	PDC221234	
	200	LSI	N: NA/No Comm	PDC24K0200E2NSP	PDC221235	
	250	LSI	N: NA/No Comm	PDC24K0250E2NSP	PDC221236	
	160	LSI	Z: ZSI & 2Relays	PDC24K0160E2ZSP	PDC221237	
	200	LSI	Z: ZSI & 2Relays	PDC24K0200E2ZSP	PDC221238	
	250	LSI	Z: ZSI & 2Relays	PDC24K0250E2ZSP	PDC221239	
	160	LSIG	Z: ZSI & 2Relays	PDC24K0160E3ZSP	PDC221240	
	200	LSIG	Z: ZSI & 2Relays	PDC24K0200E3ZSP	PDC221241	
	250	LSIG	Z: ZSI & 2Relays	PDC24K0250E3ZSP	PDC221242	
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24K0160E2WSP	PDC221243	
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24K0200E2WSP	PDC221244	
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24K0250E2WSP	PDC221245	
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24K0160E3WSP	PDC221246	
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC24K0200E3WSP	PDC221247	
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC24K0250E3WSP	PDC221248	
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24K0160E2XSP	PDC221249	
	200	LSI	X: ZSI & CAM & 2Relays	PDC24K0200E2XSP	PDC221250	
	250	LSI	X: ZSI & CAM & 2Relays	PDC24K0250E2XSP	PDC221251	
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24K0160E3XSP	PDC221252	
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24K0200E3XSP	PDC221253	
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24K0250E3XSP	PDC221254	
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24K0160P2WSP	PDC221267	
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24K0200P2WSP	PDC221268	
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24K0250P2WSP	PDC221269	
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24K0160P3WSP	PDC221270	

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



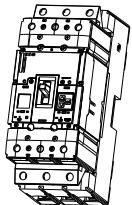
### Plug in one

Circuit breaker with plug-in base

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P	Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>						
PXR10	160	LI	N: NA/No Comm	PDC23N0160B1NSP	PDC221279	
	200	LI	N: NA/No Comm	PDC23N0200B1NSP	PDC221280	
	250	LI	N: NA/No Comm	PDC23N0250B1NSP	PDC221281	
	160	LSI	N: NA/No Comm	PDC23N0160B2NSP	PDC220943	
	200	LSI	N: NA/No Comm	PDC23N0200B2NSP	PDC220944	
	250	LSI	N: NA/No Comm	PDC23N0250B2NSP	PDC220945	
PXR20	160	LSI	N: NA/No Comm	PDC23N0160E2NSP	PDC220946	
	200	LSI	N: NA/No Comm	PDC23N0200E2NSP	PDC220947	
	250	LSI	N: NA/No Comm	PDC23N0250E2NSP	PDC220948	
	160	LSI	Z: ZSI & 2Relays	PDC23N0160E2ZSP	PDC221282	
	200	LSI	Z: ZSI & 2Relays	PDC23N0200E2ZSP	PDC221283	
	250	LSI	Z: ZSI & 2Relays	PDC23N0250E2ZSP	PDC221284	
	160	LSIG	Z: ZSI & 2Relays	PDC23N0160E3ZSP	PDC221285	
	200	LSIG	Z: ZSI & 2Relays	PDC23N0200E3ZSP	PDC221286	
	250	LSIG	Z: ZSI & 2Relays	PDC23N0250E3ZSP	PDC221287	
	160	LSI	W: ZSI & Modbus & 1Relay	PDC23N0160E2WSP	PDC221288	
	200	LSI	W: ZSI & Modbus & 1Relay	PDC23N0200E2WSP	PDC221289	
	250	LSI	W: ZSI & Modbus & 1Relay	PDC23N0250E2WSP	PDC221290	
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0160E3WSP	PDC221291	
	200	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0200E3WSP	PDC221292	
	250	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0250E3WSP	PDC221293	
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC23N0160E2XSP	PDC221294	
	200	LSI	X: ZSI & CAM & 2Relays	PDC23N0200E2XSP	PDC221295	
	250	LSI	X: ZSI & CAM & 2Relays	PDC23N0250E2XSP	PDC221296	
	160	LSIG	X: ZSI & CAM & 2Relays	PDC23N0160E3XSP	PDC221297	
	200	LSIG	X: ZSI & CAM & 2Relays	PDC23N0200E3XSP	PDC221298	
	250	LSIG	X: ZSI & CAM & 2Relays	PDC23N0250E3XSP	PDC221299	
	160	LSI	W: ZSI & Modbus & 1Relay	PDC23N0160P2WSP	PDC221312	
	200	LSI	W: ZSI & Modbus & 1Relay	PDC23N0200P2WSP	PDC221313	
	250	LSI	W: ZSI & Modbus & 1Relay	PDC23N0250P2WSP	PDC221314	
	160	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0160P3WSP	PDC221315	
	200	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0200P3WSP	PDC221316	
	250	LSIG	W: ZSI & Modbus & 1Relay	PDC23N0250P3WSP	PDC221317	
	160	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P2YSP	PDC221318	
	200	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P2YSP	PDC221319	
	250	LSI	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0250P2YSP	PDC221320	
	160	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P3YSP	PDC221321	
	200	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P3YSP	PDC221322	
	250	LSIG	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0250P3YSP	PDC221323	

**Plug in one**

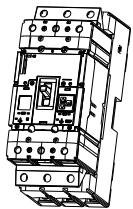
Circuit breaker with plug-in base



Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	3P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	160	LSI MCP	N: NA/No Comm	PDC23N0160B8NSP	PDC221381
	200	LSI MCP	N: NA/No Comm	PDC23N0200B8NSP	PDC221382
	220	LSI MCP	N: NA/No Comm	PDC23N0220B8NSP	PDC221383
PXR25	160	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0160P8WSP	PDC221396
	200	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0200P8WSP	PDC221397
	220	LSI MCP	W: ZSI &Modbus & 1Relay	PDC23N0220P8WSP	PDC221398
	160	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P8YSP	PDC221399
	200	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P8YSP	PDC221400
	220	LSI MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0220P8YSP	PDC221401
	160	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0160P9WSP	PDC221414
	200	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0200P9WSP	PDC221415
	220	LSIG MCP	W: ZSI &Modbus & 1Relay	PDC23N0220P9WSP	PDC221416
	160	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0160P9YSP	PDC221417
	200	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0200P9YSP	PDC221418
	220	LSIG MCP	Y:ZSI / Modbus & 1 Relay / CAM	PDC23N0220P9YSP	PDC221419

# Power Defense Molded Case Circuit Breaker

## Circuit breaker ordering instructions



### Plug in one

Circuit breaker with plug-in base

Trip unit	Rated current	Trip unit protection	Trip unit's internal accessory	4P Part No.	Article No.
<b>Maximum breaking capacity N: 70kA@415V</b>					
PXR10	160	LI	N: NA/No Comm	PDC24N0160B1NSP	PDC221324*
	200	LI	N: NA/No Comm	PDC24N0200B1NSP	PDC221325*
	250	LI	N: NA/No Comm	PDC24N0250B1NSP	PDC221326*
	160	LSI	N: NA/No Comm	PDC24N0160B2NSP	PDC221327*
	200	LSI	N: NA/No Comm	PDC24N0200B2NSP	PDC221328*
	250	LSI	N: NA/No Comm	PDC24N0250B2NSP	PDC221329*
PXR20	160	LSI	N: NA/No Comm	PDC24N0160E2NSP	PDC221330*
	200	LSI	N: NA/No Comm	PDC24N0200E2NSP	PDC221331*
	250	LSI	N: NA/No Comm	PDC24N0250E2NSP	PDC221332*
	160	LSI	Z: ZSI & 2Relays	PDC24N0160E2ZSP	PDC221333*
	200	LSI	Z: ZSI & 2Relays	PDC24N0200E2ZSP	PDC221334*
	250	LSI	Z: ZSI & 2Relays	PDC24N0250E2ZSP	PDC221335*
	160	LSIG	Z: ZSI & 2Relays	PDC24N0160E3ZSP	PDC221336*
	200	LSIG	Z: ZSI & 2Relays	PDC24N0200E3ZSP	PDC221337*
	250	LSIG	Z: ZSI & 2Relays	PDC24N0250E3ZSP	PDC221338*
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24N0160E2WSP	PDC221339*
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24N0200E2WSP	PDC221340*
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24N0250E2WSP	PDC221341*
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0160E3WSP	PDC221342*
	200	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0200E3WSP	PDC221343*
	250	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0250E3WSP	PDC221344*
PXR25	160	LSI	X: ZSI & CAM & 2Relays	PDC24N0160E2XSP	PDC221345*
	200	LSI	X: ZSI & CAM & 2Relays	PDC24N0200E2XSP	PDC221346*
	250	LSI	X: ZSI & CAM & 2Relays	PDC24N0250E2XSP	PDC221347*
	160	LSIG	X: ZSI & CAM & 2Relays	PDC24N0160E3XSP	PDC221348*
	200	LSIG	X: ZSI & CAM & 2Relays	PDC24N0200E3XSP	PDC221349*
	250	LSIG	X: ZSI & CAM & 2Relays	PDC24N0250E3XSP	PDC221350*
	160	LSI	W: ZSI &Modbus & 1Relay	PDC24N0160P2WSP	PDC221363*
	200	LSI	W: ZSI &Modbus & 1Relay	PDC24N0200P2WSP	PDC221364*
	250	LSI	W: ZSI &Modbus & 1Relay	PDC24N0250P2WSP	PDC221365*
	160	LSIG	W: ZSI &Modbus & 1Relay	PDC24N0160P3WSP	PDC221366*

**Note:** Consult Eaton for devices marked with “\*\*”.

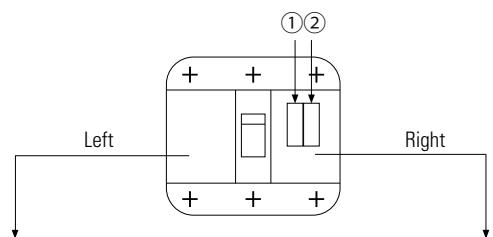




## I Ordering - Accessories I

### PDC1 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 3P



#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

#### Status indication accessory\*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

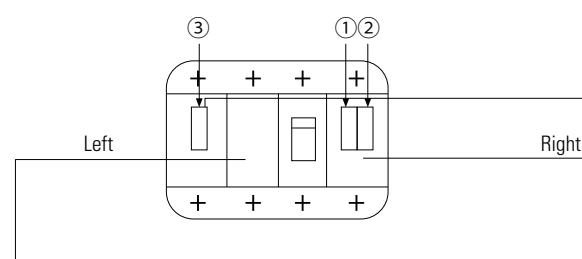
#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

1CO (1 position space)

### PDC1 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 4P



#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

#### Status indication accessory\*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

Position 3 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

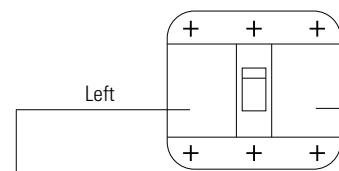
1CO (1 position space)

# Power Defense Molded Case Circuit Breaker

## Accessories installation instructions

### PDC9/2 Accessory Installation Instruction (Electronic)

Circuit breaker, 3P



#### Accessory \*

No installation

Shunt release (with shunt / alarm in one type)



Under-voltage release



Alarm accessory: Part No. PDG2XALMBC

#### Status indication accessory

No accessories shall be installed;  
One auxiliary contact (CO) is equipped as standard in the internal function of the trip unit

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

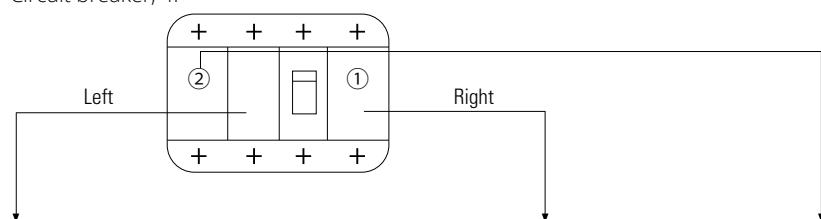
Or with 1 under-voltage release installed,

Or with 1 alarm accessory installed

**Note:** If the PXR trip unit, except for N Style, is selected, no additional space is available for the above-mentioned accessories

### PDC9/2 Accessory Installation Instruction (Electronic)

Circuit breaker, 4P



#### Status indication accessory \*\*

Position 1

#### Accessory \*

No installation

Shunt release (with shunt / alarm in one type)



Under-voltage release



Alarm accessory: Part No. PDG2XALMBC

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed,

Or with 1 alarm accessory installed

**Note:** If the PXR trip unit, except for N Style, is selected, no additional space is available for the above-mentioned accessories

Position 2 (with 2 position space)

#### Auxiliary contact

No installation

1CO

2CO

#### \*\* Status indication position space is shown in the diagram

No accessories should be installed at Position 1

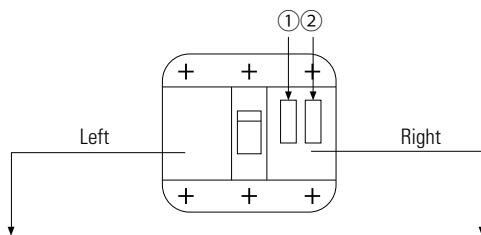
Can be no additional installation at Position 2,

with free combination, including

1 CO (1 position space)

### PDC2 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 3P



#### Tripping accessory\*

No installation	
Shunt release	
Under-voltage release	

#### \*1 position space, with free selection

- No installation,
- Or with 1 shunt release installed
- Or with 1 under-voltage release installed

#### Status indication accessory \*\*

Position 1 (with 2 position space)	
Bell contact	
No installation	
1CO	
2CO	

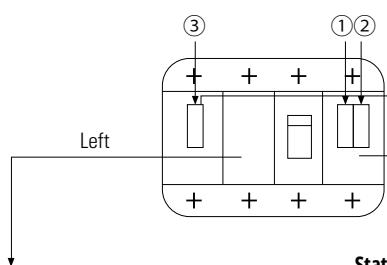
#### Position 2 (with 2 position space)

#### Auxiliary contact

No installation	
1CO	
2CO	

### PDC2 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 4P



#### Tripping accessory\*

No installation	
Shunt release	
Under-voltage release	

#### \*1 position space, with free selection

- No installation,
- Or with 1 shunt release installed
- Or with 1 under-voltage release installed

#### Status indication accessory \*\*

Position 1 (with 2 position space)	
Bell contact	
No installation	
1CO	
2CO	

#### Position 2 (with 2 position space)

#### Auxiliary contact

No installation	
1CO	
2CO	

#### Position 3 (with 2 position space)

#### Auxiliary contact

No installation	
1CO	
2CO	

#### \*\* Status indication position space is shown in the diagram

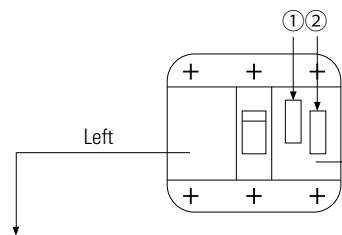
- No additional installation, with free combination, including
- 1 CO (1 position space)

# Power Defense Molded Case Circuit Breaker

## Accessories installation instructions

### PDC3 Accessory Installation Instruction (Thermomagnetic / Single-magnetic / Electronic)

Circuit breaker, 3P



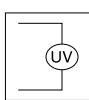
#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### Status indication accessory \*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

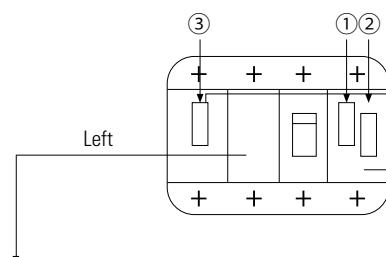
#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

1 CO (1 position space)

### PDC3 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 4P



#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### Status indication accessory \*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

Position 3 (with 2 position space)

Auxiliary contact

No installation

1CO

2CO

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

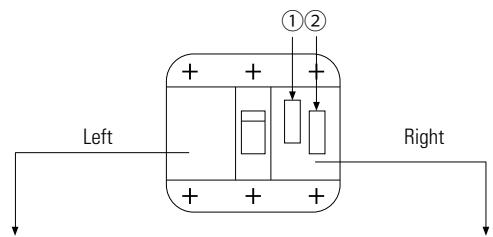
#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

1 CO (1 position space)

### PDC4 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 3P



#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### Status indication accessory \*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 4 position space)

Auxiliary contact

No installation

1CO

2CO

3CO

4CO

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

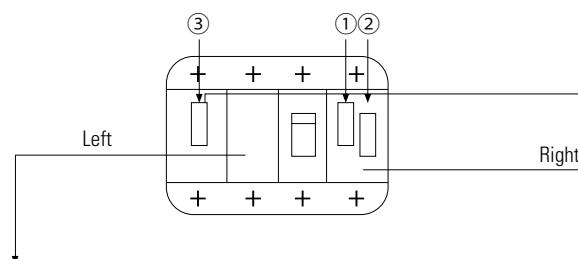
#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

1 CO (1 position space)

### PDC4 Accessory Installation Instruction (Thermomagnetic / Single-magnetic)

Circuit breaker, 4P



#### Tripping accessory\*

No installation

Shunt release



Under-voltage release



#### Status indication accessory \*\*

Position 1 (with 2 position space)

Bell contact

No installation

1CO

2CO

Position 2 (with 4 position space)

Auxiliary contact

No installation

1CO

2CO

3CO

4CO

Position 3 (with 3 position space)

Auxiliary contact

No installation

1CO

2CO

3CO

#### \*1 position space, with free selection

No installation,

Or with 1 shunt release installed

Or with 1 under-voltage release installed

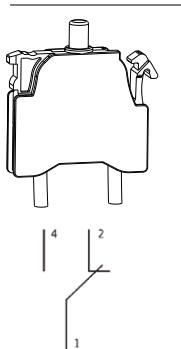
#### \*\* Status indication position space is shown in the diagram

No additional installation, with free combination, including

1 CO (1 position space)

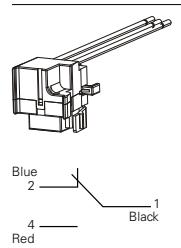
# Power Defense Molded Case Circuit Breaker

## Accessories Ordering



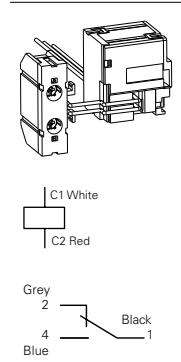
### Auxiliary / Alarm Contact

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Change-over contact with one module	1,2,3,4	PDC720013	PDCAUX1CO	1	Auxiliary / Alarm contacts are suitable for PDC1-4 (not suitable for PDC9 and PDC2 electronic type)



### Bell Alarm of PCD9/2 PXR

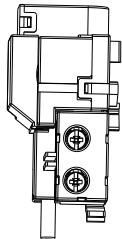
Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Alarm transfer contact, with 0.75m cable	9,2	PDG2XALMBC	PDC71009	1	Dedicated to PDC9 and PDC2 electronic circuit breakers



### Shunt Release with Bell Alarm

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
24VAC/DC, screw terminal	9,2	PDC2CST24ACDCT	PDC711001	1	Not suitable for PDC1, PDC3, and PDC4, with up to 440V support
48V DC, screw terminal	9,2	PDC2CST48DCT	PDC711002	1	Same as shunt release when installed
110-130V AC/125V DC, screw terminal	9,2	PDC2CST130ACDCT	PDC711004	1	
200-240V AC/250V DC, screw terminal	9,2	PDC2CST250ACDCT	PDC711005	1	
380-440V AC, screw terminal	9,2	PDC2CST440ACT	PDC711006	1	
24VAC/DC, with 0.75m cable	9,2	PDC2CST24ACDCS	PDC711010	1	
48V DC, with 0.75m cable	9,2	PDC2CST48DCS	PDC711011	1	
110-130V AC/125V DC, with 0.75m cable	9,2	PDC2CST130ACDCS	PDC711013	1	
200-240V AC/250V DC, with 0.75m cable	9,2	PDC2CST250ACDCS	PDC711014	1	
380-440V AC, with 0.75m cable	9,2	PDC2CST440ACS	PDC711015	1	

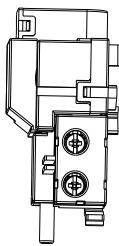
**Shunt release Shunt Release**



Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
380-440Vac, 50/60Hz, screw terminal	1	PDC1XST440ACT	PDC710173	1	
380-440Vac, 50/60Hz, screw terminal	9,2	PDG2XST440ACT	PDC710174	1	
380-440Vac, 50/60Hz, screw terminal	3	PDG3XST440ACT	PDC710175	1	
380-440Vac, 50/60Hz, screw terminal	4	PDG4XST440ACT	PDC710176	1	
380-440Vac, 50/60Hz, with 0.75m cable	1	PDC1XST440ACS	PDC710177	1	
380-440Vac, 50/60Hz, with 0.75m cable	9,2	PDG2XST440ACS	PDC710178	1	
380-440Vac, 50/60Hz, with 0.75m cable	3	PDG3XST440ACS	PDC710179	1	
380-440Vac, 50/60Hz, with 0.75m cable	4	PDG4XST440ACS	PDC710180	1	
200-240VAC/250VDC, screw terminal	1	PDC1XST250ACDCT	PDC710185	1	
200-240VAC/250VDC, screw terminal	9,2	PDG2XST250ACDCT	PDC710186	1	
200-240VAC/250VDC, screw terminal	3	PDG3XST250ACDCT	PDC710187	1	
200-240VAC/250VDC, screw terminal	4	PDG4XST250ACDCT	PDC710188	1	
200-240VAC/250VDC, with 0.75m cable	1	PDC1XST250ACDCS	PDC710189	1	
200-240VAC/250VDC, with 0.75m cable	9,2	PDG2XST250ACDCS	PDC710190	1	
200-240VAC/250VDC, with 0.75m cable	3	PDG3XST250ACDCS	PDC710191	1	
200-240VAC/250VDC, with 0.75m cable	4	PDG4XST250ACDCS	PDC710192	1	
110-130Vac/ 125DC, screw terminal	1	PDC1XST130ACDCT	PDC710197	1	
110-130Vac/ 125DC, screw terminal	9,2	PDG2XST130ACDCT	PDC710198	1	
110-130Vac/ 125DC, screw terminal	3	PDG3XST130ACDCT	PDC710199	1	
110-130Vac/ 125DC, screw terminal	4	PDG4XST130ACDCT	PDC710200	1	
110-130Vac/ 125DC, with 0.75m cable	1	PDC1XST130ACDCS	PDC710201	1	
110-130Vac/ 125DC, with 0.75m cable	9,2	PDG2XST130ACDCS	PDC710202	1	
110-130Vac/ 125DC, with 0.75m cable	3	PDG3XST130ACDCS	PDC710203	1	
110-130Vac/ 125DC, with 0.75m cable	4	PDG4XST130ACDCS	PDC710204	1	
24Vac/DC, screw terminal	1	PDC1XST24ACDCT	PDC710209	1	
24Vac/DC, screw terminal	9,2	PDG2XST24ACDCT	PDC710210	1	
24Vac/DC, screw terminal	3	PDG3XST24ACDCT	PDC710211	1	
24Vac/DC, screw terminal	4	PDG4XST24ACDCT	PDC710212	1	
24Vac/DC, with 0.75m cable	1	PDC1XST24ACDCS	PDC710213	1	
24Vac/DC, with 0.75m cable	9,2	PDG2XST24ACDCS	PDC710214	1	
24Vac/DC, with 0.75m cable	3	PDG3XST24ACDCS	PDC710215	1	
24Vac/DC, with 0.75m cable	4	PDG4XST24ACDCS	PDC710216	1	
48Vdc, screw terminal	1	PDC1XST48DCT	PDC710233	1	
48Vdc, screw terminal	9,2	PDG2XST48DCT	PDC710234	1	
48Vdc, screw terminal	3	PDG3XST48DCT	PDC710235	1	
48Vdc, screw terminal	4	PDG4XST48DCT	PDC710236	1	
48Vdc, with 0.75m cable	1	PDC1XST48DCS	PDC710237	1	
48Vdc, with 0.75m cable	9,2	PDG2XST48DCS	PDC710238	1	
48Vdc, with 0.75m cable	3	PDG3XST48DCS	PDC710239	1	
48Vdc, with 0.75m cable	4	PDG4XST48DCS	PDC710240	1	

# Power Defense Molded Case Circuit Breaker

## Accessories Ordering

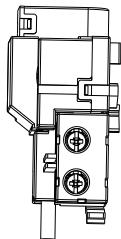


P1  
U<  
Ib2

### Undervoltage Release, AC Type

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
380-440Vac, 50/60Hz, screw terminal	1	PDC1XUV440ACV	PDC710032	1	
380-440Vac, 50/60Hz, screw terminal	9,2	PDG2XUV440ACV	PDC710033	1	
380-440Vac, 50/60Hz, screw terminal	3	PDG3XUV440ACV	PDC710034	1	
380-440Vac, 50/60Hz, screw terminal	4	PDG4XUV440ACV	PDC710035	1	
380-440Vac, 50/60Hz, with 0.75m cable	1	PDC1XUV440ACU	PDC710036	1	
380-440Vac, 50/60Hz, with 0.75m cable	9,2	PDG2XUV440ACU	PDC710037	1	
380-440Vac, 50/60Hz, with 0.75m cable	3	PDG3XUV440ACU	PDC710038	1	
380-440Vac, 50/60Hz, with 0.75m cable	4	PDG4XUV440ACU	PDC710039	1	
208-240Vac, 50/60Hz, screw terminal	1	PDC1XUV240ACV	PDC710044	1	
208-240Vac, 50/60Hz, screw terminal	9,2	PDG2XUV240ACV	PDC710045	1	
208-240Vac, 50/60Hz, screw terminal	3	PDG3XUV240ACV	PDC710046	1	
208-240Vac, 50/60Hz, screw terminal	4	PDG4XUV240ACV	PDC710047	1	
208-240Vac, 50/60Hz, with 0.75m cable	1	PDC1XUV240ACU	PDC710048	1	
208-240Vac, 50/60Hz, with 0.75m cable	9,2	PDG2XUV240ACU	PDC710049	1	
208-240Vac, 50/60Hz, with 0.75m cable	3	PDG3XUV240ACU	PDC710050	1	
208-240Vac, 50/60Hz, with 0.75m cable	4	PDG4XUV240ACU	PDC710051	1	
110-130Vac, 50/60Hz, screw terminal	1	PDC1XUV130ACV	PDC710056	1	
110-130Vac, 50/60Hz, screw terminal	9,2	PDG2XUV130ACV	PDC710057	1	
110-130Vac, 50/60Hz, screw terminal	3	PDG3XUV130ACV	PDC710058	1	
110-130Vac, 50/60Hz, screw terminal	4	PDG4XUV130ACV	PDC710059	1	
110-130Vac, 50/60Hz, with 0.75m cable	1	PDC1XUV130ACU	PDC710060	1	
110-130Vac, 50/60Hz, with 0.75m cable	9,2	PDG2XUV130ACU	PDC710061	1	
110-130Vac, 50/60Hz, with 0.75m cable	3	PDG3XUV130ACU	PDC710062	1	
110-130Vac, 50/60Hz, with 0.75m cable	4	PDG4XUV130ACU	PDC710063	1	
24Vac, 50/60Hz, screw terminal	1	PDC1XUV24ACV	PDC710068	1	
24Vac, 50/60Hz, screw terminal	9,2	PDG2XUV24ACV	PDC710069	1	
24Vac, 50/60Hz, screw terminal	3	PDG3XUV24ACV	PDC710070	1	
24Vac, 50/60Hz, screw terminal	4	PDG4XUV24ACV	PDC710071	1	
24Vac, 50/60Hz, with 0.75m cable	1	PDC1XUV24ACU	PDC710072	1	
24Vac, 50/60Hz, with 0.75m cable	9,2	PDG2XUV24ACU	PDC710073	1	
24Vac, 50/60Hz, with 0.75m cable	3	PDG3XUV24ACU	PDC710074	1	
24Vac, 50/60Hz, with 0.75m cable	4	PDG4XUV24ACU	PDC710075	1	

**Undervoltage Release, DC Type**



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Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
250Vdc, screw terminal	1	PDC1XUV250DCV	PDC710080	1	
250Vdc, screw terminal	9,2	PDG2XUV250DCV	PDC710081	1	
250Vdc, screw terminal	3	PDG3XUV250DCV	PDC710082	1	
250Vdc, screw terminal	4	PDG4XUV250DCV	PDC710083	1	
250Vdc, with 0.75m cable	1	PDC1XUV250DCU	PDC710084	1	
250Vdc, with 0.75m cable	9,2	PDG2XUV250DCU	PDC710085	1	
250Vdc, with 0.75m cable	3	PDG3XUV250DCU	PDC710086	1	
250Vdc, with 0.75m cable	4	PDG4XUV250DCU	PDC710087	1	
125Vdc, screw terminal	1	PDC1XUV125DCV	PDC710092	1	
125Vdc, screw terminal	9,2	PDG2XUV125DCV	PDC710093	1	
125Vdc, screw terminal	3	PDG3XUV125DCV	PDC710094	1	
125Vdc, screw terminal	4	PDG4XUV125DCV	PDC710095	1	
125Vdc, with 0.75m cable	1	PDC1XUV125DCU	PDC710096	1	
125Vdc, with 0.75m cable	9,2	PDG2XUV125DCU	PDC710097	1	
125Vdc, with 0.75m cable	3	PDG3XUV125DCU	PDC710098	1	
125Vdc, with 0.75m cable	4	PDG4XUV125DCU	PDC710099	1	
48Vdc, screw terminal	1	PDC1XUV48DCV	PDC710116	1	
48Vdc, screw terminal	9,2	PDG2XUV48DCV	PDC710117	1	
48Vdc, screw terminal	3	PDG3XUV48DCV	PDC710118	1	
48Vdc, screw terminal	4	PDG4XUV48DCV	PDC710119	1	
48Vdc, with 0.75m cable	1	PDC1XUV48DCU	PDC710120	1	
48Vdc, with 0.75m cable	9,2	PDG2XUV48DCU	PDC710121	1	
48Vdc, with 0.75m cable	3	PDG3XUV48DCU	PDC710122	1	
48Vdc, with 0.75m cable	4	PDG4XUV48DCU	PDC710123	1	
24Vdc, screw terminal	1	PDC1XUV24DCV	PDC710128	1	
24Vdc, screw terminal	9,2	PDG2XUV24DCV	PDC710129	1	
24Vdc, screw terminal	3	PDG3XUV24DCV	PDC710130	1	
24Vdc, screw terminal	4	PDG4XUV24DCV	PDC710131	1	
24Vdc, with 0.75m cable	1	PDC1XUV24DCU	PDC710132	1	
24Vdc, with 0.75m cable	9,2	PDG2XUV24DCU	PDC710133	1	
24Vdc, with 0.75m cable	3	PDG3XUV24DCU	PDC710134	1	
24Vdc, with 0.75m cable	4	PDG4XUV24DCU	PDC710135	1	
UVU Delay unit	1	PDC1XUV18DCW	PDC710355	1	To pairing with NZM UVU module, UVU-NZM 260154
UVU Delay unit	2,9	PDG2XUV18DCW	PDC710356	1	
UVU Delay unit	3	PDG3XUV18DCW	PDC710357	1	
UVU Delay unit	4	PDG4XUV18DCW	PDC710358	1	

# Power Defense Molded Case Circuit Breaker

## Accessories Ordering

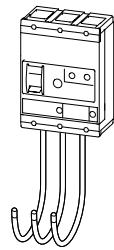
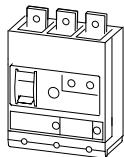
### Residual Current Protective Accessory (RCD)

Suitable for 3-phase system

Ue=200-415V 50/60 HZ

Standard: IEC 60947-2 /GB14048.2 Appendix M (MRCD) Appendix B(CBR)

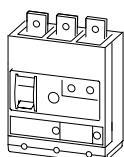
Type A: 



Product Description	Frame for use with	Part No.	Article No.	Units per package
<b>Circuit breaker with bottom mounting</b>				
<b>Max. current of 100A</b>				
Rated fault current 30mA, 3P	1	PDC1XRC3P100F030	PDE710038	1
Rated fault current 300mA, 3P	1	PDC1XRC3P100F300	PDE710039	1
Adjustable fault current , 3P	1	PDC1XRC3P100	PDE710040	1
Rated fault current 30mA, 4P	1	PDC1XRC4P100F030	PDE710041	1
Rated fault current 300mA, 4P	1	PDC1XRC4P100F300	PDE710042	1
Adjustable fault current , 4P	1	PDC1XRC4P100	PDE710043	1
<b>Circuit breaker with right mounting</b>				
<b>Max. current of 160A</b>				
Rated fault current 30mA, 3P	1	PDC1XRC3P160F030S	PDE710044	1
Rated fault current 300mA, 3P	1	PDC1XRC3P160F300S	PDE710045	1
Adjustable fault current , 3P	1	PDC1XRC3P160S	PDE710046	1
Rated fault current 30mA, 4P	1	PDC1XRC4P160F030S	PDE710047	1
Rated fault current 300mA, 4P	1	PDC1XRC4P160F300S	PDE710048	1
Adjustable fault current , 4P	1	PDC1XRC4P160S	PDE710049	1
<b>Note:</b>				
Type	LED Status	I Δ n Setting (A)	Time delay (ms)	
30mA Fixed	> 30%   Δ n	0.03	0	
300mA Fixed	> 30%   Δ n	0.3	0	
Adjustable	> 30%   Δ n	0.03, 0.1, 0.3, 0.5, 1, 3	0, 60, 150, 300, 450	

\*In 0.03 A = t: Inst

Two auxiliary contacts can be installed additionally by users, to indicate tripping: NO: M22-K01; NC: M22-K10  
The RCD is bottom mounting type, with no shunt or under-voltage release to be installed at the same time.

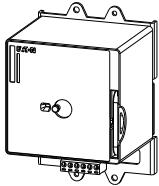


<b>Circuit breaker with bottom mounting</b>				
<b>Max. current of 160A</b>				
Adjustable fault current , 3P				
9	PDC9XRC3P160	PDC719473	1	
Adjustable fault current , 4P				
9	PDC9XRC4P160	PDC719474	1	
<b>Max. current of 250A</b>				
Adjustable fault current , 3P				
2	PDC2XRC3P250	PDC719475	1	
Adjustable fault current , 4P				
2	PDC2XRC4P250	PDC719476	1	
<b>Max. current of 630A</b>				
Adjustable fault current , 3P				
3	PDC3XRC3P630	PDC719007	1	
Adjustable fault current , 4P				
3	PDC3XRC4P630	PDC719008	1	
<b>Note:</b>				
Type	LED Status	I Δ n Setting (A)	Time delay (ms)	
PDC2, PDC9	≥ 50%   Δ n	0.03, 0.3, 0.5, 1, 3, 10	0, 60, 150, 300, 500, 1000	
PDC3	≥ 50%   Δ n	0.03, 0.1, 0.3, 1, 3, 10	0, 60, 150, 300, 500, 1000	

\*In 0.03 A = t: Inst

PDC2, PDC9 The RCD is bottom mounting type, with no shunt or under-voltage release to be installed at the same time. PDC3 not affected.

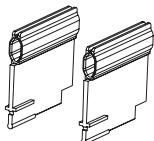
#### Remote operator - Non-energized



Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
24VDC	1	PDC1XROP024DCN	PDC712000	1	
110VAC&110VDC	1	PDC1XROP110ADN	PDC712001	1	
230VAC&220VDC	1	PDC1XROP220ADN	PDC712002	1	
400VAC	1	PDC1XROP400ACN	PDC712003	1	
24VDC	9,2	PDC2XROP024DCN	PDC712004	1	
110VAC&110VDC	9,2	PDC2XROP110ADN	PDC712005	1	
230VAC&220VDC	9,2	PDC2XROP220ADN	PDC712006	1	
400VAC	9,2	PDC2XROP400ACN	PDC712007	1	
24VDC	3	PDC3XROP024DCN	PDC712008*	1	
110VAC&110VDC	3	PDC3XROP110ADN	PDC712009*	1	
230VAC&220VDC	3	PDC3XROP220ADN	PDC712010*	1	
400VAC	3	PDC3XROP400ACN	PDC712011*	1	
24VDC	4	PDC4XROP024DCN	PDC712012	1	
110VAC&110VDC	4	PDC4XROP110ADN	PDC712013	1	
230VAC&220VDC	4	PDC4XROP220ADN	PDC712014	1	
400VAC	4	PDC4XROP400ACN	PDC712015	1	

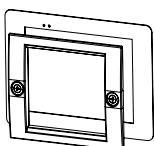
**Note:** \*For application with PDC3, the additional extension stick must be ordered PDC720022 PD3WDCL4R0

#### Interphase Barriers



Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
3P, IEC	1	PDC1XIB3P	PDC710359	2	
4P, IEC	1	PDC1XIB4P	PDC710360	3	
3P, IEC	2	PDC2XIB3P	PDC710361	2	
4P, IEC	2	PDC2XIB4P	PDC710362	3	
3P, UL/IEC	9	PDG2XIB3P	PDC710363	2	
4P, UL/IEC	9	PDG2XIB4P	PDC710364	3	
3P, UL/IEC	3	PDG3XIB3P	PDC710365	2	
4P, UL/IEC	3	PDG3XIB4P	PDC710366	3	
3P, UL/IEC	4	PDG4XIB3P	PDC710367	2	
4P, UL/IEC	4	PDG4XIB4P	PDC710368	3	

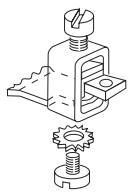
#### Insulation surround



Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
IP40, 3P	1	PDC1XIPDB3P	PDC710443	1	
IP40, 3P	9,2	PDC2XIPDB3P	PDC710444	1	
IP40, 3P	3	PDC3XIPDB3P	PDC710445	1	
IP40, 3P	4	PDC4XIPDB3P	PDC710446	1	
IP40, 4P	1	PDC1XIPDB4P	PDC710447	1	
IP40, 4P	9,2	PDC2XIPDB4P	PDC710448	1	
IP40, 4P	3	PDC3XIPDB4P	PDC710449	1	
IP40, 4P	4	PDC4XIPDB4P	PDC710450	1	
IP40, with manual operation, common use for 3-and 4P	1	PDC1XIPDBRH	PDC710451	1	
IP40, with manual operation, common use for 3-and 4P	2	PDC2XIPDBRH	PDC710452	1	
IP40, with manual operation, common use for 3-and 4P	3	PDC3XIPDBRH	PDC710454	1	
IP40, with manual operation, common use for 3-and 4P	4	PDC4XIPDBRH	PDC710455	1	

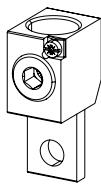
# Power Defense Molded Case Circuit Breaker

## Accessories Ordering



### Box Terminal

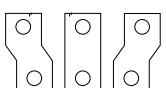
Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
3P, with max. current of 160A	2	PDC2X3T160	PDE710018	1	Refer to national standards for the specification of suitable conductors.
4P, with max. current of 160A	2	PDC2X4T160	PDE710019	1	Must order two sets at the same time (one for incoming end and one for outgoing end)
3P, with max. current of 250A	2	PDC2X3T250	PDE710020	1	
4P, with max. current of 250A	2	PDC2X4T250	PDE710021	1	
3P, with max. current of 630A	3	PDC3X3T630	PDC710398	1	
4P, with max. current of 630A	3	PDC3X4T630	PDC710397	1	



### Tunnel Terminal

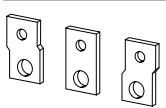
Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
3P, with max. current of 160A, no terminal protection cover	1	PDC1X3TA160CW	PDE710004	1	Refer to national standards for the specification of suitable conductors.
4P, with max. current of 160A, no terminal protection cover	1	PDC1X4TA160CW	PDE710005	1	Must order two sets at the same time (one for incoming end and one for outgoing end)
3P, with max. current of 160A	9	PDC9X3TA160	PDC710417*	1	
4P, with max. current of 160A	9	PDC9X4TA160	PDC710418*	1	
3P, with max. current of 250A, no terminal protection cover	2	PDC2X3TA250CW	PDE710022	1	
4P, with max. current of 250A, no terminal protection cover	2	PDC2X4TA250CW	PDE710023	1	
3P, with max. current of 800A	4	PDC4X3TA800	PDC710422	1	
4P, with max. current of 800A	4	PDC4X4TA800	PDC710421	1	
3P, with max. current of 600A	3	PDG3X3TA630CW	PDC710348	1	Refer to national standards for the specification of suitable conductors.
4P, with max. current of 600A	3	PDG3X4TA630CW	PDC710349	1	Must order two sets at the same time (one for incoming end and one for outgoing end)

**Note:** Consult Eaton for devices marked with “\*”.



### Spreader

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC3, 3P, with max. current of 630A	3	PDC3X3TSP630	PDC710412	1	Must order two sets at the same time (one for incoming end and one for outgoing end)
PDC3, 4P, with max. current of 630A	3	PDC3X4TSP630	PDC710411	1	
PDC4, 3P, with max. current of 1000A	4	PDC4X3TSP1000	PDC710414	1	
PDC4, 4P, with max. current of 1000A	4	PDC4X4TSP1000	PDC710413	1	

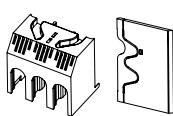


### Adapter plate(PDC/NZM)

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC3, 3P	3	PDC3XLZM3ADP3P	PDC710369	1	
PDC3, 4P	3	PDC3XLZM3ADP4P	PDC710457	1	
PDC4, 3P	4	PDC4XLZM4ADP3P	PDC710464	1	
PDC4, 4P	4	PDC4XLZM4ADP4P	PDC710465	1	

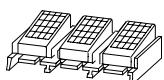
# Power Defense Molded Case Circuit Breaker

## Accessories Ordering



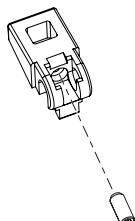
### Terminal Cover

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC1, 3P, IEC	1	PDC1XTC3P	PDE710009	1	
PDC1, 4P, IEC	1	PDC1XTC4P	PDE710010	1	
PDC9, 3P, UL/IEC	9	PDG2XTC3P	PDC710337	1	
PDC9, 4P, UL/IEC	9	PDG2XTC4P	PDC710338	1	
PDC2, 3P, UL/IEC	2	PDC2XTC3P	PDC719309	1	
PDC2, 4P, UL/IEC	2	PDC2XTC4P	PDC719310	1	
PDC3, 3P, UL/IEC	3	PDG3XTC3P	PDC710339	1	
PDC3, 4P, UL/IEC	3	PDG3XTC4P	PDC710340	1	



### Finger Protection

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC1, 3P, IEC	1	PDC1XFP3P	PDE710012	1	
PDC1, 4P, IEC	1	PDC1XFP4P	PDE710013	1	
PDC9, 3P, UL/IEC	9	PDG2XFP3P	PDC710331	1	
PDC9, 4P, UL/IEC	9	PDG2XFP4P	PDC710332	1	
PDC2, 3P, UL/IEC	2	PDC2XFP3P	PDC719400	1	
PDC2, 4P, UL/IEC	2	PDC2XFP4P	PDC719401	1	
PDC3, 3P, UL/IEC	3	PDG3XFP3P	PDC710333	1	
PDC3, 4P, UL/IEC	3	PDG3XFP4P	PDC710334	1	



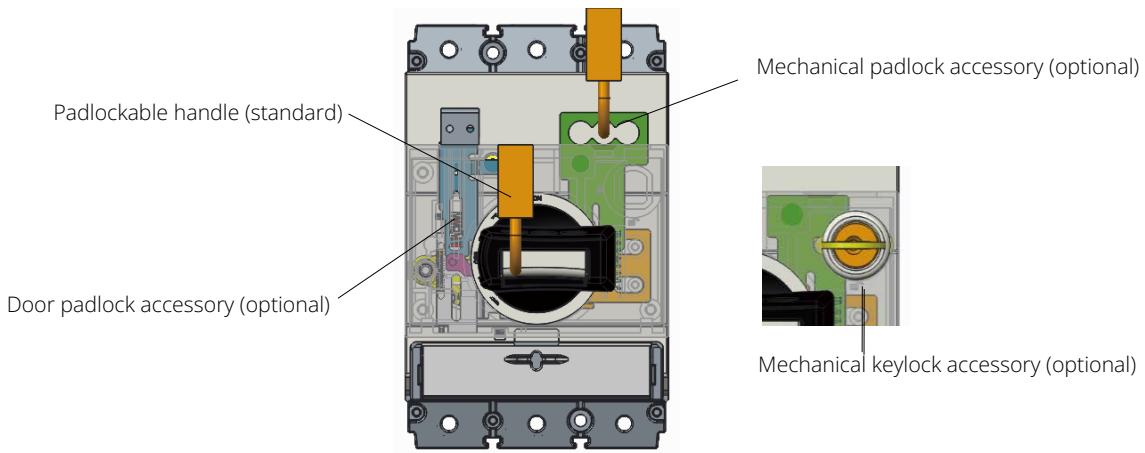
### Handle Block

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Can be equipped with padlock, with lockable positions ON/OFF	1	PDC1XPHB	PDC710423	1	
Can be equipped with padlock, with lockable positions ON/OFF	2,9	PDG2XPHB	PDC710424	1	
Can be equipped with padlock, with lockable positions ON/OFF	3	PDG3XPHB	PDC710425	1	
Can be equipped with padlock, with lockable positions ON/OFF	4	PDG4XPHB	PDC710426	1	

# Power Defense Molded Case Circuit Breaker

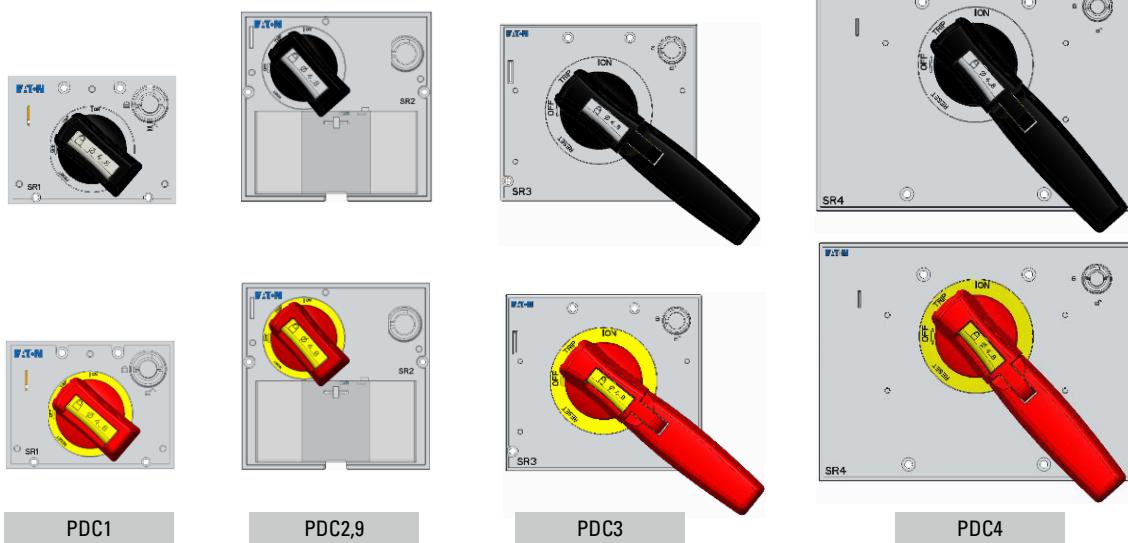
## Accessories Ordering

### Direct Rotary Handle

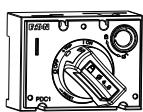


To distinguish emergency level, the handles are available in two colors:

- Standard: gray + black
- Emergency: yellow + red



### Direct Rotary Handle

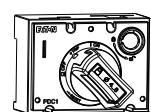
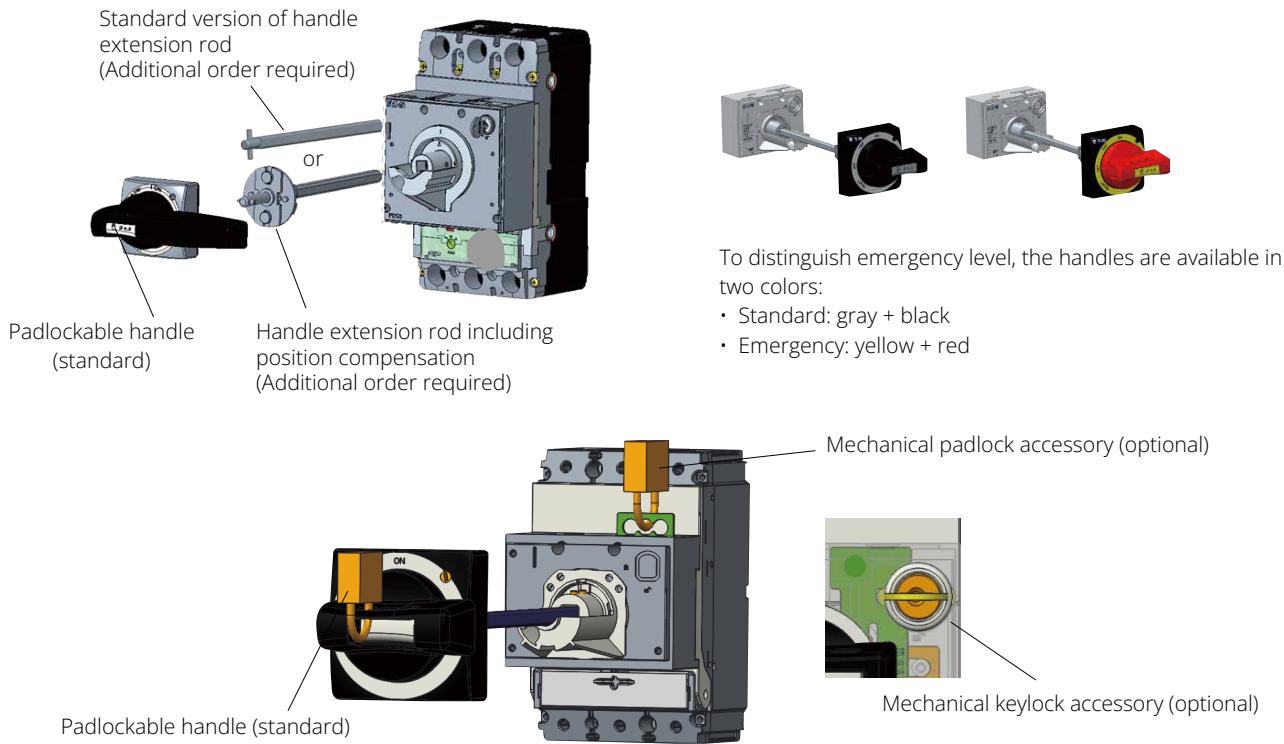


Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Padlockable handle - Standard	1	PDC1XHMC	PDC710257	1	
Padlockable handle - Emergency	1	PDC1XHMCE	PDC710258	1	
Handle with door interlock - Standard	1	PDC1XHMCN	PDC710259	1	
Handle with door interlock - Emergency	1	PDC1XHMCEN	PDC710260	1	
Handle with mechanical padlock - Standard	1	PDC1XHMCSP	PDC710261	1	
Handle with mechanical padlock - Emergency	1	PDC1XHMCEP	PDC710262	1	
Handle with mechanical keylock - Standard	1	PDC1XHMC	PDC710263	1	
Handle with mechanical keylock - Emergency	1	PDC1XHMCEK	PDC710264	1	
Handle with door interlock and padlock - Standard	1	PDC1XHMCNP	PDC710265	1	
Handle with door interlock and padlock - Emergency	1	PDC1XHMCENP	PDC710266	1	
Handle with door interlock and mech padlock - Standard	1	PDC1XHMCNK	PDC710267	1	
Handle with door interlock and mech padlock - Emergency	1	PDC1XHMCENK	PDC710268	1	
Padlockable handle - Standard	2,9	PDG2XHMC	PDC710275	1	
Padlockable handle - Emergency	2,9	PDG2XHMCE	PDC710276	1	
Handle with door interlock - Standard	2,9	PDG2XHMCN	PDC710277	1	
Handle with door interlock - Emergency	2,9	PDG2XHMCE	PDC710278	1	
Handle with mechanical padlock - Standard	2,9	PDG2XHMCSP	PDC710279	1	
Handle with mechanical padlock - Emergency	2,9	PDG2XHMCEP	PDC710280	1	
Handle with mechanical keylock - Standard	2,9	PDG2XHMC	PDC710281	1	
Handle with mechanical keylock - Emergency	2,9	PDG2XHMCEK	PDC710282	1	
Handle with door interlock and padlock - Standard	2,9	PDG2XHMCNP	PDC710283	1	
Handle with door interlock and padlock - Emergency	2,9	PDG2XHMCENP	PDC710284	1	
Handle with door interlock and mech padlock - Standard	2,9	PDG2XHMCNK	PDC710285	1	
Handle with door interlock and mech padlock - Emergency	2,9	PDG2XHMCENK	PDC710286	1	
Padlockable handle - Standard	3	PDG3XHMC	PDC710293	1	
Padlockable handle - Emergency	3	PDG3XHMCE	PDC710294	1	
Handle with door interlock - Standard	3	PDG3XHMCN	PDC710295	1	
Handle with door interlock - Emergency	3	PDG3XHMCE	PDC710296	1	
Handle with mechanical padlock - Standard	3	PDG3XHMCSP	PDC710297	1	
Handle with mechanical padlock - Emergency	3	PDG3XHMCEP	PDC710298	1	
Handle with mechanical keylock - Standard	3	PDG3XHMC	PDC710299	1	
Handle with mechanical keylock - Emergency	3	PDG3XHMCEK	PDC710300	1	
Handle with door interlock and padlock - Standard	3	PDG3XHMCNP	PDC710301	1	
Handle with door interlock and padlock - Emergency	3	PDG3XHMCENP	PDC710302	1	
Handle with door interlock and mech padlock - Standard	3	PDG3XHMCNK	PDC710303	1	
Handle with door interlock and mech padlock - Emergency	3	PDG3XHMCENK	PDC710304	1	
Padlockable handle - Standard	4	PDG4XHMC	PDC710311	1	
Padlockable handle - Emergency	4	PDG4XHMCE	PDC710312	1	
Handle with door interlock - Standard	4	PDG4XHMCN	PDC710313	1	
Handle with door interlock - Emergency	4	PDG4XHMCE	PDC710314	1	
Handle with mechanical padlock - Standard	4	PDG4XHMCSP	PDC710315	1	
Handle with mechanical padlock - Emergency	4	PDG4XHMCEP	PDC710316	1	
Handle with mechanical keylock - Standard	4	PDG4XHMC	PDC710317	1	
Handle with mechanical keylock - Emergency	4	PDG4XHMCEK	PDC710318	1	
Handle with door interlock and padlock - Standard	4	PDG4XHMCNP	PDC710319	1	
Handle with door interlock and padlock - Emergency	4	PDG4XHMCENP	PDC710320	1	
Handle with door interlock and mech padlock - Standard	4	PDG4XHMCNK	PDC710321	1	
Handle with door interlock and mech padlock - Emergency	4	PDG4XHMCENK	PDC710322	1	

# Power Defense Molded Case Circuit Breaker

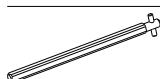
## Accessories Ordering

### Door Rotary Handle



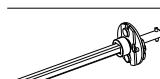
Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Padlockable door handle - Standard	1	PDC1XHMDS	PDC710269	1	
Padlockable door handle - Emergency	1	PDC1XHMDE	PDC710270	1	
Door handle with mechanical padlock - Standard	1	PDC1XHMDSP	PDC710271	1	
Door handle with mechanical padlock - Emergency	1	PDC1XHMDEP	PDC710272	1	
Door handle with mechanical keylock - Standard	1	PDC1XHMDSK	PDC710273	1	
Door handle with mechanical keylock - Emergency	1	PDC1XHMDEK	PDC710274	1	
Padlockable door handle - Standard	2,9	PDG2XHMDS	PDC710287	1	
Padlockable door handle - Emergency	2,9	PDG2XHMDE	PDC710288	1	
Door handle with mechanical padlock - Standard	2,9	PDG2XHMDSP	PDC710289	1	
Door handle with mechanical padlock - Emergency	2,9	PDG2XHMDEP	PDC710290	1	
Door handle with mechanical keylock - Standard	2,9	PDG2XHMDSK	PDC710291	1	
Door handle with mechanical keylock - Emergency	2,9	PDG2XHMDEK	PDC710292	1	
Padlockable door handle - Standard	3	PDG3XHMDS	PDC710305	1	
Padlockable door handle - Emergency	3	PDG3XHMDE	PDC710306	1	
Door handle with mechanical padlock - Standard	3	PDG3XHMDSP	PDC710307	1	
Door handle with mechanical padlock - Emergency	3	PDG3XHMDEP	PDC710308	1	
Door handle with mechanical keylock - Standard	3	PDG3XHMDSK	PDC710309	1	
Door handle with mechanical keylock - Emergency	3	PDG3XHMDEK	PDC710310	1	
Padlockable door handle - Standard	4	PDG4XHMDS	PDC710323	1	
Padlockable door handle - Emergency	4	PDG4XHMDE	PDC710324	1	
Door handle with mechanical padlock - Standard	4	PDG4XHMDSP	PDC710325	1	
Door handle with mechanical padlock - Emergency	4	PDG4XHMDEP	PDC710326	1	
Door handle with mechanical keylock - Standard	4	PDG4XHMDSK	PDC710327	1	
Door handle with mechanical keylock - Emergency	4	PDG4XHMDEK	PDC710328	1	

### Handle Mech shaft Handle



#### Handle Mech shaft

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
307mm length / 12in, Standard	1,9,2	PDG12XHMS307	PDC710343	1	Can be cut to the required length
507mm length / 20in, Standard	1,9,2	PDG12XHMS507	PDC710344	1	
245mm length / 9in, Standard	3,4	PDG34XHMS245	PDC710345	1	
445mm length / 17in, Standard	3,4	PDG34XHMS445	PDC710346	1	



#### Handle Mech shaft-Compensation

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Length: 307mm / 12in	1,9,2	PDG12XHMSC307	PDC719301	1	Can be cut to the required length
Length: 507mm / 20in	1,9,2	PDG12XHMSC507	PDC719302	1	
Length: 245mm / 9in	3,4	PDG34XHMSC245	PDC719303	1	
Length: 445mm / 17in	3,4	PDG34XHMSC445	PDC719304	1	

### Handle Mech shaft Handle (NFPA)

To distinguish emergency level, the handles are available in two colors



**PD1 9/2**



Standard (black)



Emergency (red)

**PD3/4**



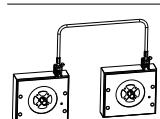
Standard (black)



Emergency (red)



Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
NFPA 79, Standard	1,2,9	PDG12XHM79S	PDC710351	1	
NFPA 79, Emergency	1,2,9	PDG12XHM79E	PDC710352	1	
NFPA 79, Standard	3,4	PDG34XHM79S	PDC710353	1	
NFPA 79, Emergency	3,4	PDG34XHM79E	PDC710354	1	



#### MECH interlock

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC1	1	PDC1XMC1	PDC710460	1	
PDC2/9	9,2	PDC2XMC1	PDC710461	1	To achieve interlocking, 2 and above interlocks
PDC3	3	PDC3XMC1	PDC710462	1	should be ordered at the same time, together with cables and direct rotary handles of the same quantity
PDC4	4	PDC4XMC1	PDC710463	1	

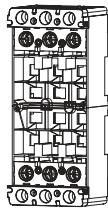


#### MECH interlock - cable

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Length: 225mm		NZM-XBZ225	281585	1	
Length: 600mm		NZM-XBZ600	281586	1	
Length: 1000mm		NZM-XBZ1000	281587	1	

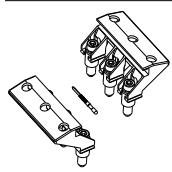
# Power Defense Molded Case Circuit Breaker

## Accessories Ordering



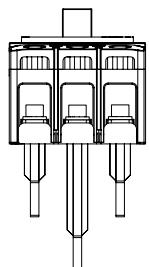
### Plug In Base Only

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Plug in base, with max. current of 160A, 3P	1	PDC1XPIBB3P160A	PDC710470	1	When ordering plug in base, corresponding plug in breaker parts kits (see the table below) must be ordered for installation.
Plug in base, with max. current of 160A, 4P	1	PDC1XPIBB4P160A	PDC710471	1	
Plug in base, with max. current of 160A, 3P	9	PDC9XPIBB3P160A	PDC710474	1	
Plug in base, with max. current of 160A, 4P	9	PDC9XPIBB4P160A	PDC710475	1	
Plug in base, with max. current of 250A, 3P	2	PDC2XPIBB3P250A	PDC710476	1	
Plug in base, with max. current of 250A, 4P	2	PDC2XPIBB4P250A	PDC710477	1	
Plug in base, with max. current of 630A, 3P	3	PDC3XPIBB3P630A	PDC710480	1	
Plug in base, with max. current of 630A, 4P	3	PDC3XPIBB4P630A	PDC710481	1	



### Plug In Breaker Parts Kit

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Plug in breaker parts kit, 3P	1	PDC1XPIBK3P160A	PDC710484	1	
Plug in breaker parts kit, 4P	1	PDC1XPIBK4P160A	PDC710485	1	
Plug in breaker parts kit, 3P	9	PDC9XPIBK3P160A	PDC710488	1	
Plug in breaker parts kit, 4P	9	PDC9XPIBK4P160A	PDC710489	1	
Plug in breaker parts kit, 3P	2	PDC2XPIBK3P250A	PDC710490	1	
Plug in breaker parts kit, 4P	2	PDC2XPIBK4P250A	PDC710491	1	
Plug in breaker parts kit, 3P	3	PDC3XPIBK3P630A	PDC710494	1	
Plug in breaker parts kit, 4P	3	PDC3XPIBK4P630A	PDC710495	1	



### Rear Connection

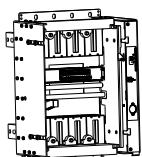
Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
PDC1, 3P (no terminal protection, no finger protection)	1	PDC1X3T160RC	PDE710006	1	Must order two sets at the same time (one for incoming end and one for outgoing end)
PDC1, 4P (no terminal protection, no finger protection)	1	PDC1X4T160RC	PDE710007	1	
PDC2/9, 3P (no terminal protection, no finger protection)	2,9	PDC2X3T250RC	PDE710024	1	
PDC2/9, 4P (no terminal protection, no finger protection)	2,9	PDC2X4T250RC	PDE710025	1	
PDC3, 4P	3	PDC3X4T630RC	PDC710399	1	
PDC3, 3P	3	PDC3X3T630RC	PDC710400	1	
PDC4, 3P	4	PDC4X3T1000RC	PDC712016*	1	
PDC4, 4P	4	PDC4X4T1000RC	PDC712017*	1	

**Note:** Consult Eaton for devices marked with “\*”.



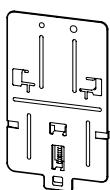
### Plug in end cap H02

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Plug in end cap H02, 3P	9	PDC9H02EC	PDC720011	1	To pairing with Plug in installation.
Plug in end cap H02, 4P	9	PDC9H02EC	PDC720012	1	
Plug in end cap H02, 3P	2	PDC23H02EC	PDC720007	1	*No need for PDC1 because it applies Knock off design.
Plug in end cap H02, 4P	2	PDC24H02EC	PDC720008	1	
Plug in end cap H02, 3P	3	PDC33H02EC	PDC720009	1	
Plug in end cap H02, 4P	3	PDC34H02EC	PDC720010	1	



#### Withdrawal

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
Withdrawal base, with max. current of 400A, 3P	3	PDG3XWDR3P400A	PDC719211	1	
Withdrawal base, with max. current of 400A, 4P	3	PDG3XWDR4P400A	PDC719212	1	
Withdrawal base, with max. current of 630A, 3P	3	PDG3XWDR3P630A	PDC719220	1	
Withdrawal base, with max. current of 630A, 4P	3	PDG3XWDR4P630A	PDC719221	1	
Withdrawal base, with max. current of 800A, 3P	4	PDG4XWDR3P800A	PDC719213	1	
Withdrawal base, with max. current of 800A, 4P	4	PDG4XWDR4P800A	PDC719214	1	



#### Din Rail

Product Description	Frame for use with	Part No.	Article No.	Units per package	Note
For 75mm rail	2,9	PDG2XDIN75	PDC710394	1	
For 35mm rail	1	PDC1XDIN35	PDE710008	1	



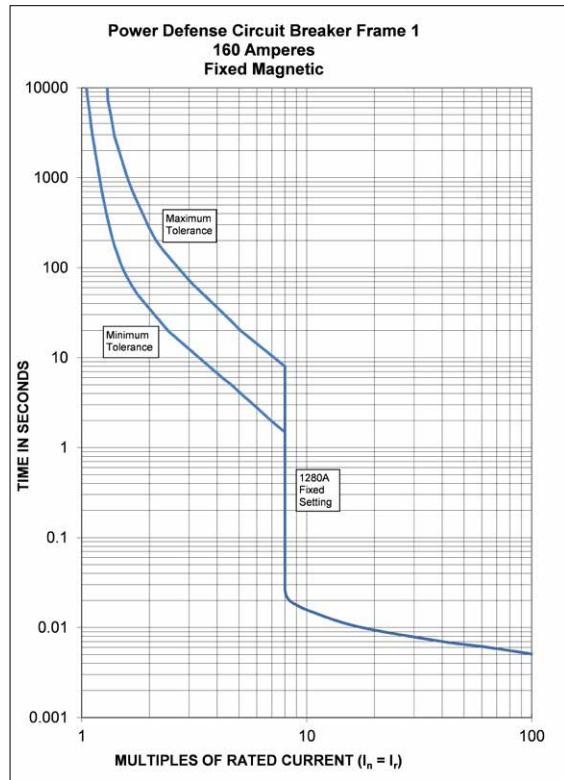
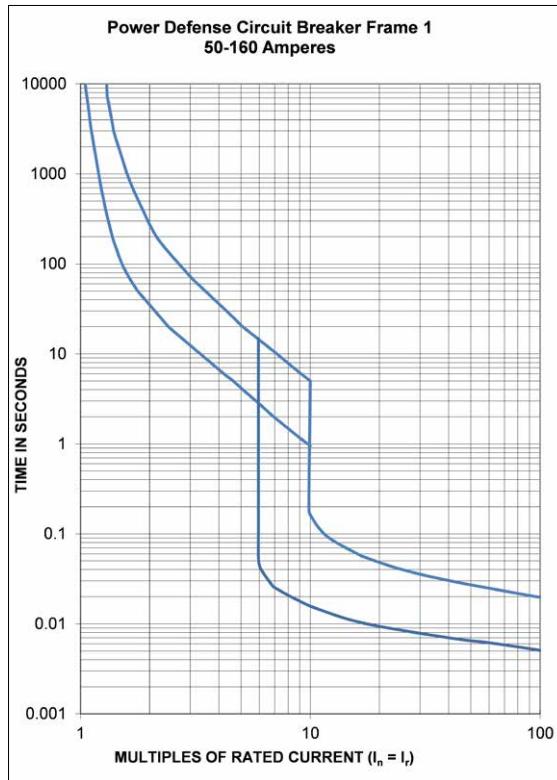
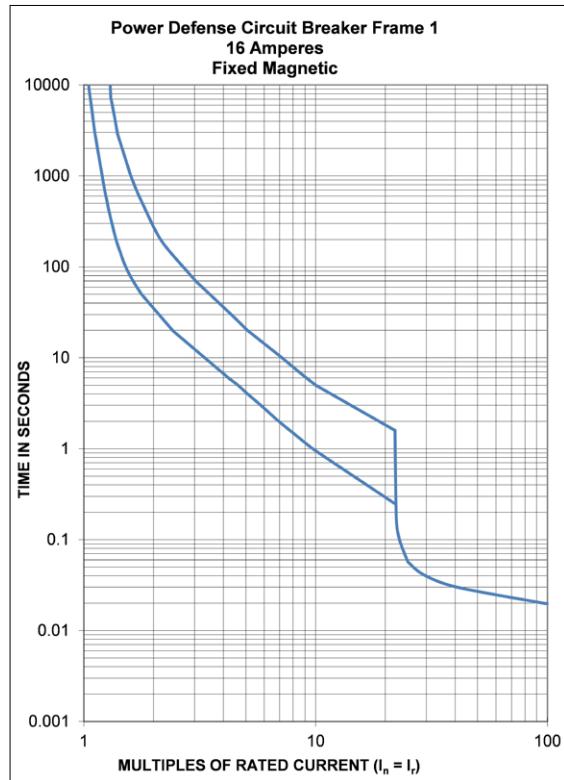


## I Features and Data I

# Power Defense Molded Case Circuit Breaker

## Tripping Characteristics

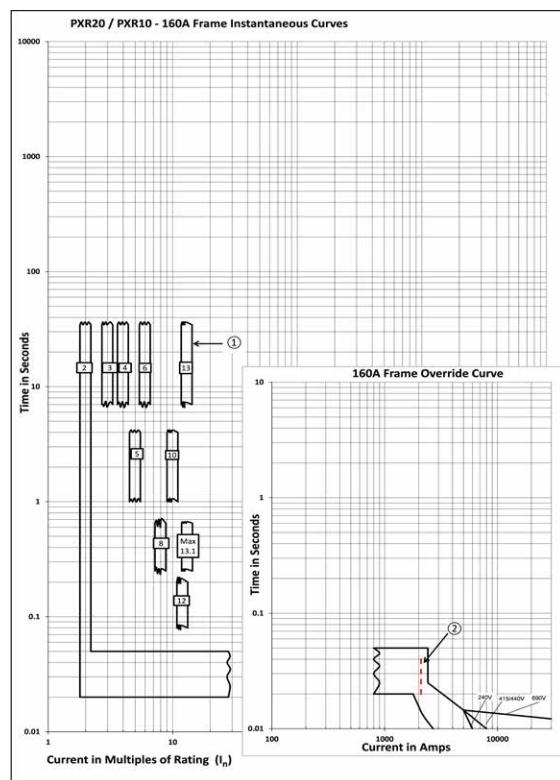
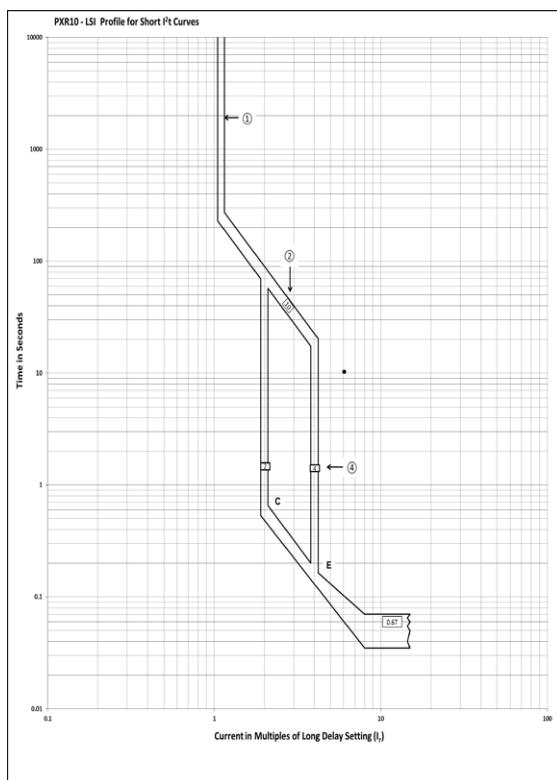
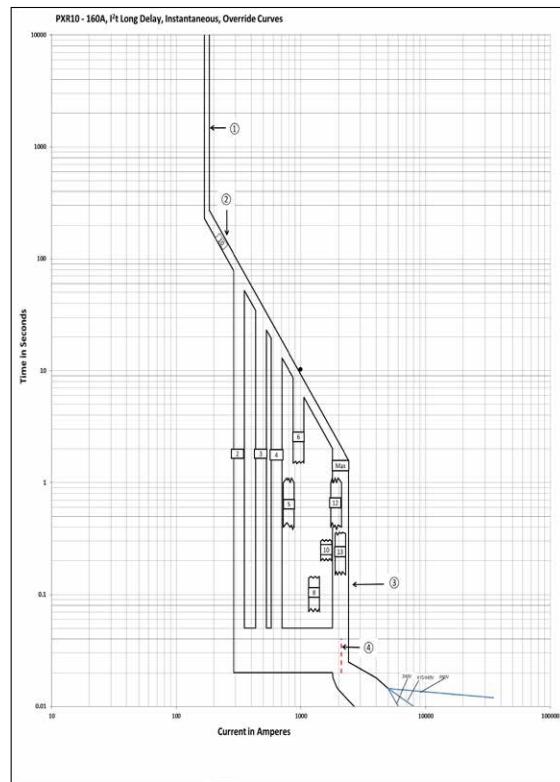
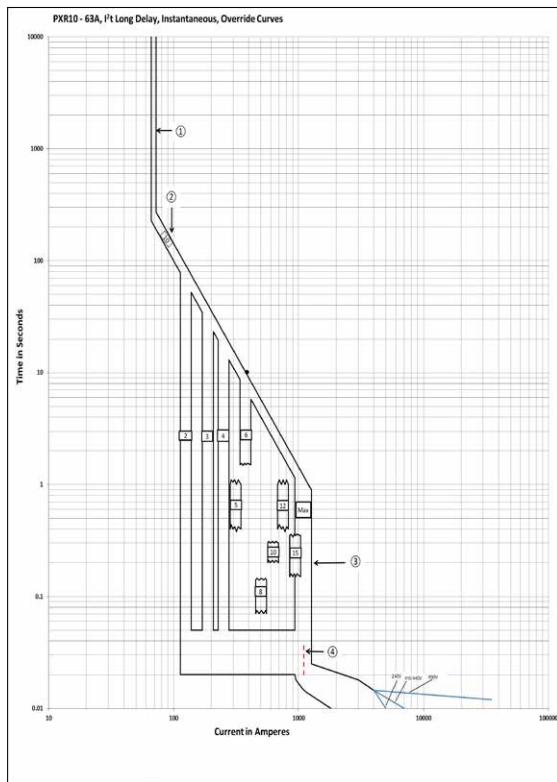
### PDC1 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker Tripping Characteristics

## PDC9 Tripping Characteristics\*

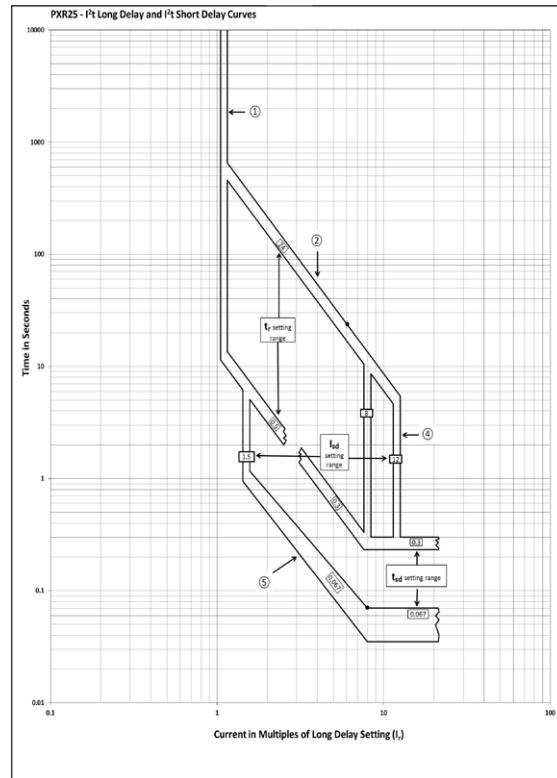
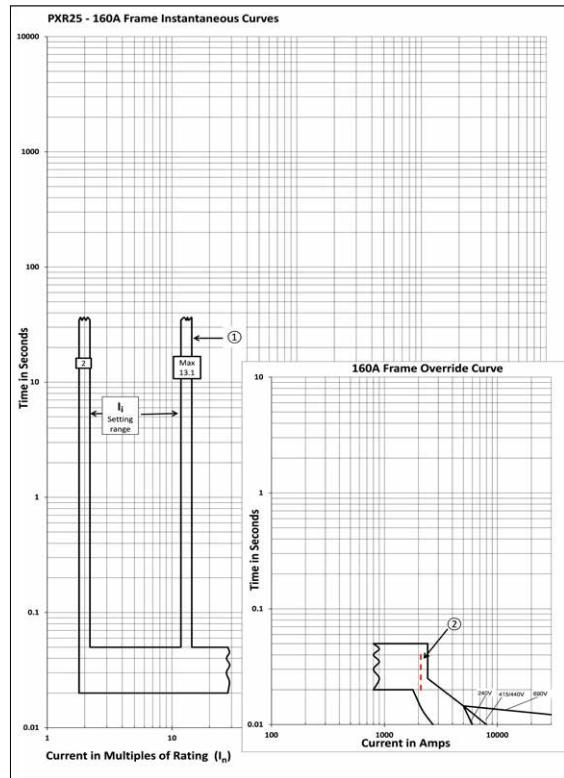
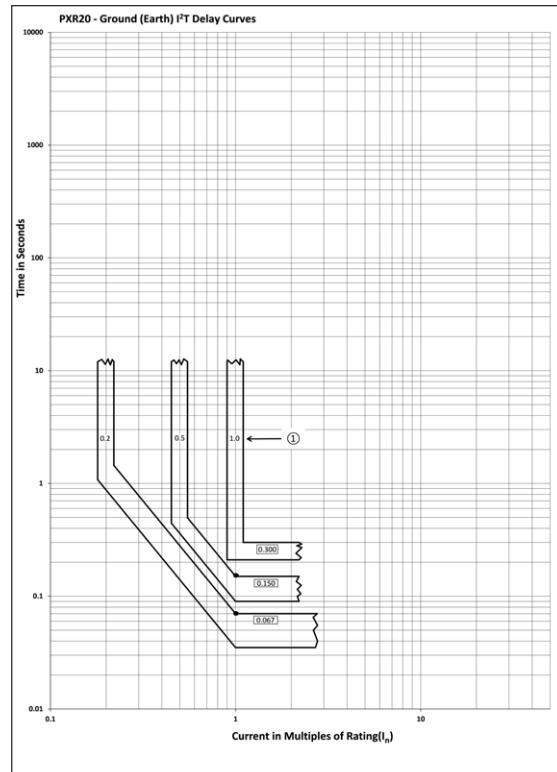
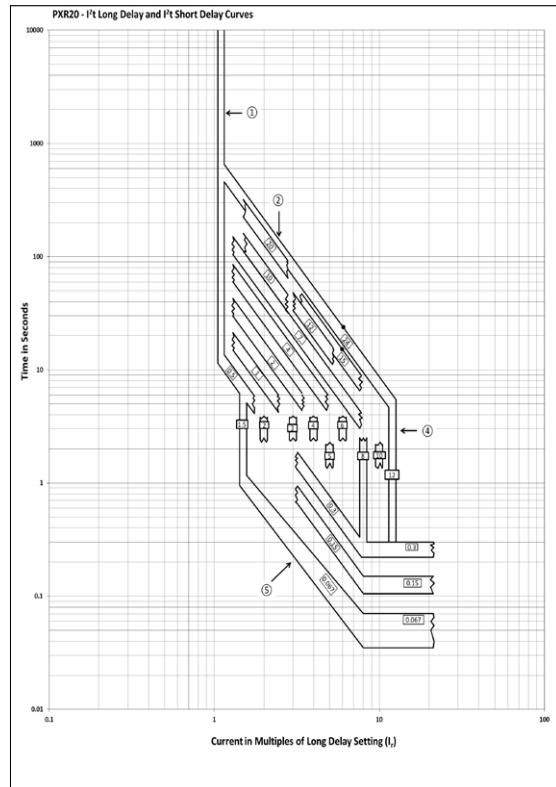


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

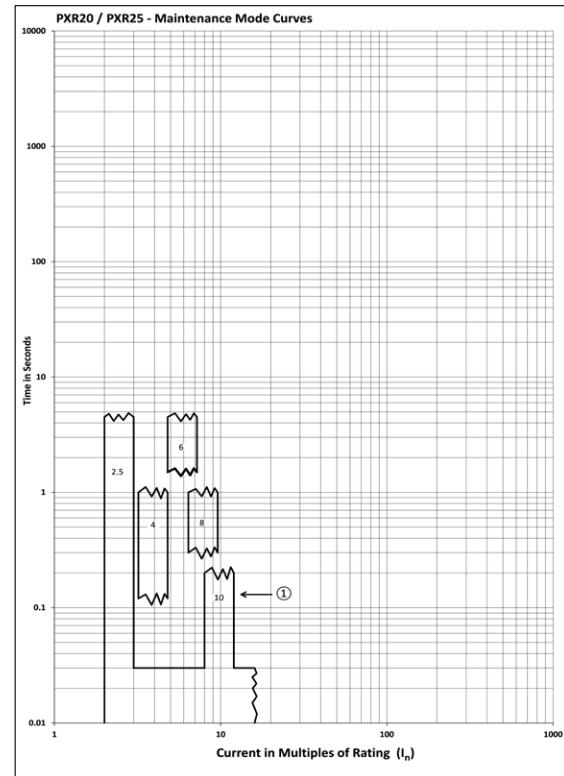
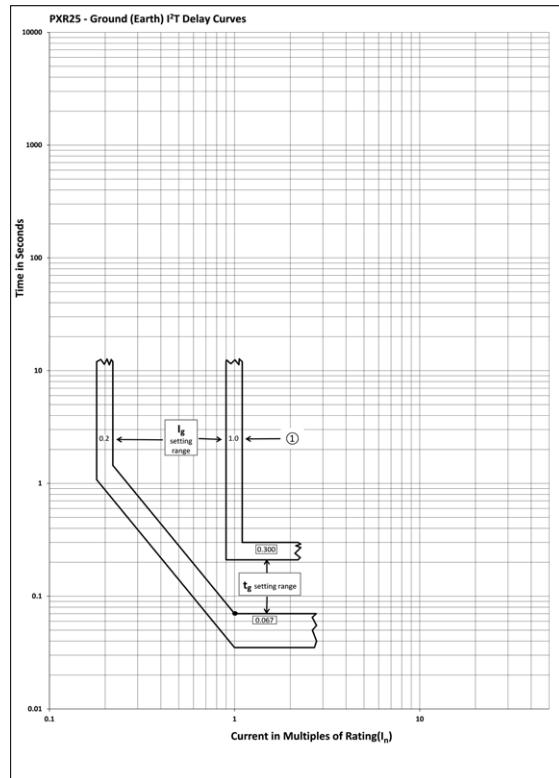
## Tripping Characteristics

### PDC9 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

**PDC9 Tripping Characteristics\***

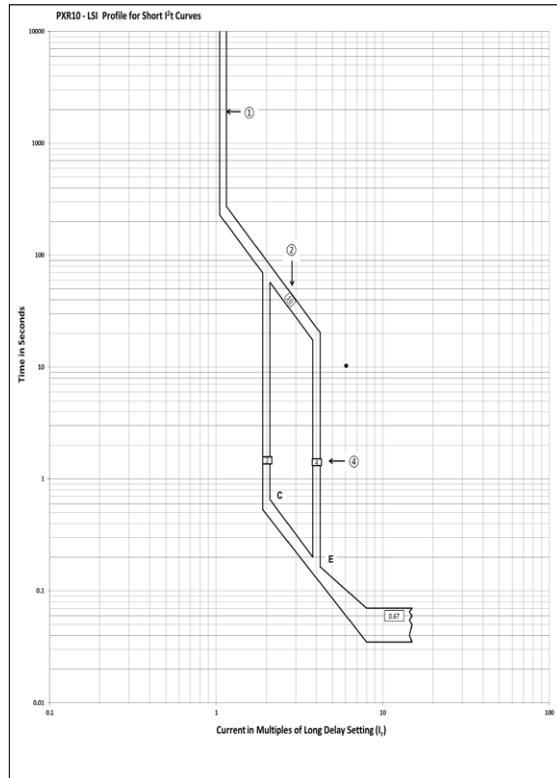
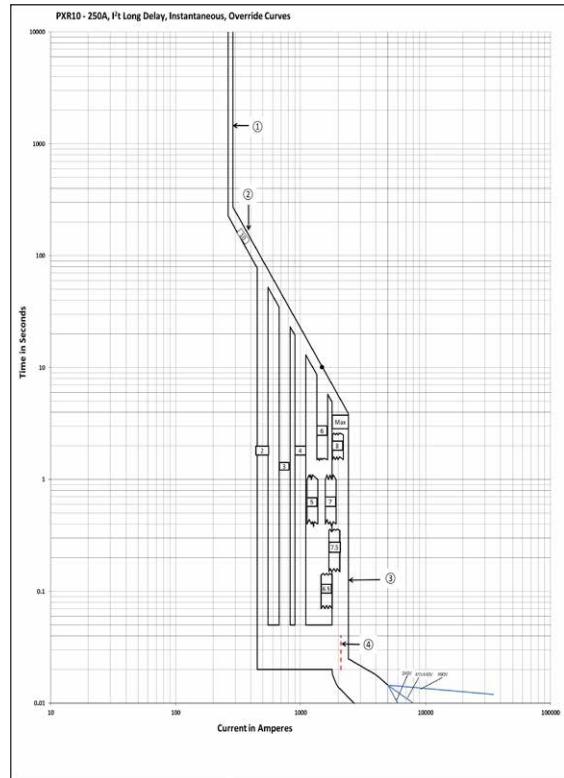
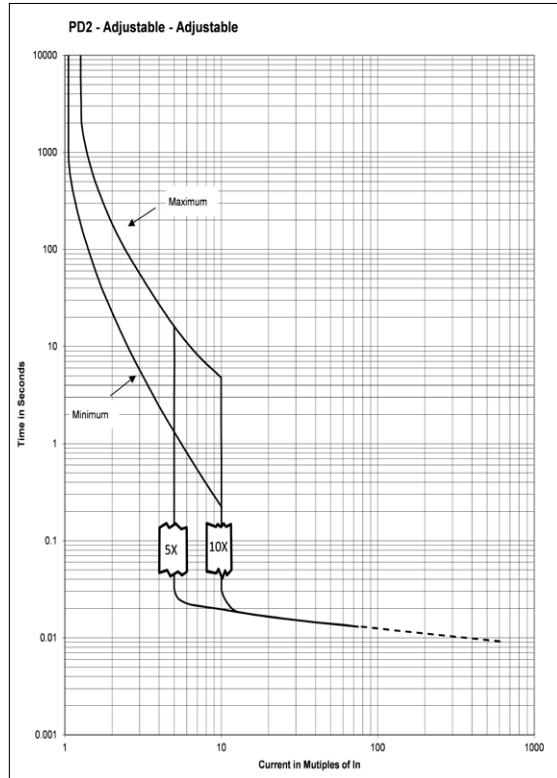
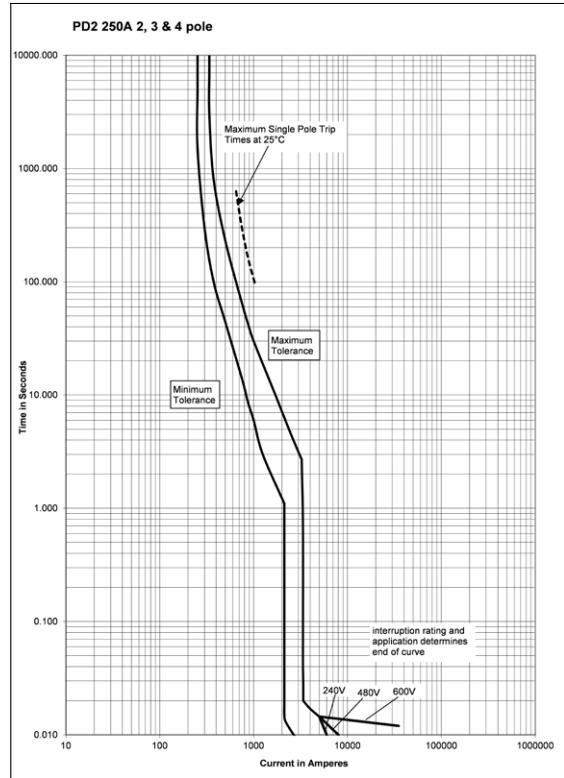


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

## Tripping Characteristics

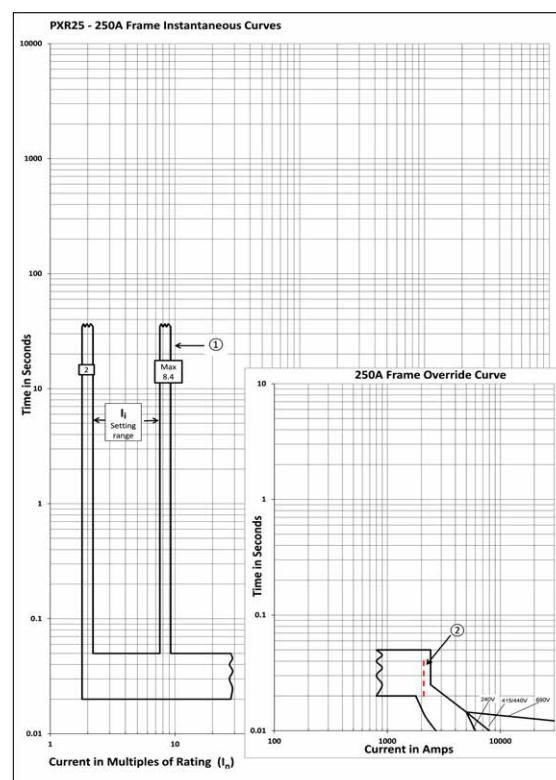
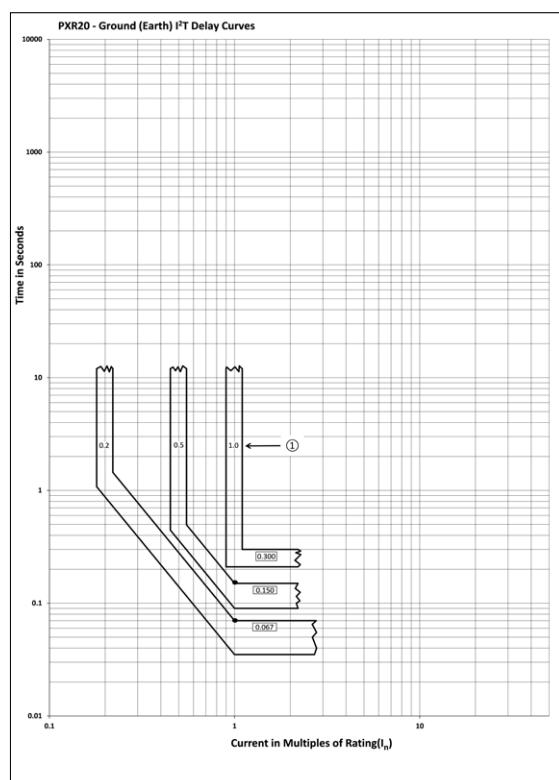
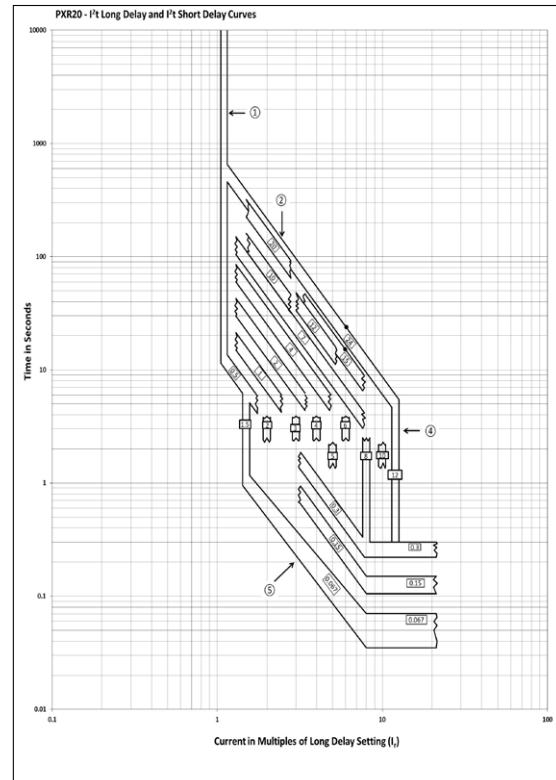
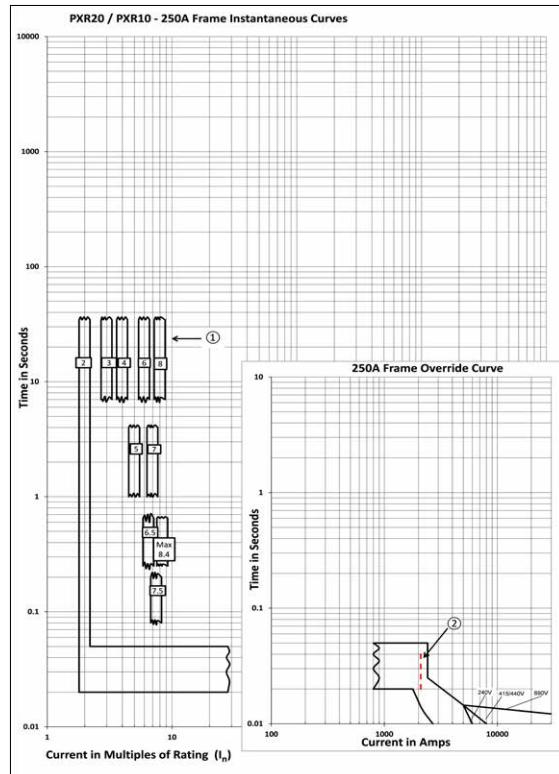
### PDC2 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker Tripping Characteristics

## PDC2 Tripping Characteristics\*

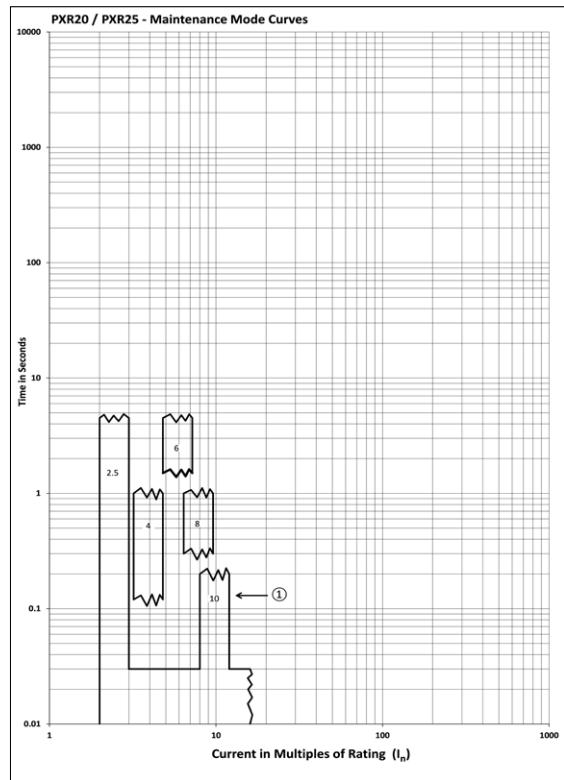
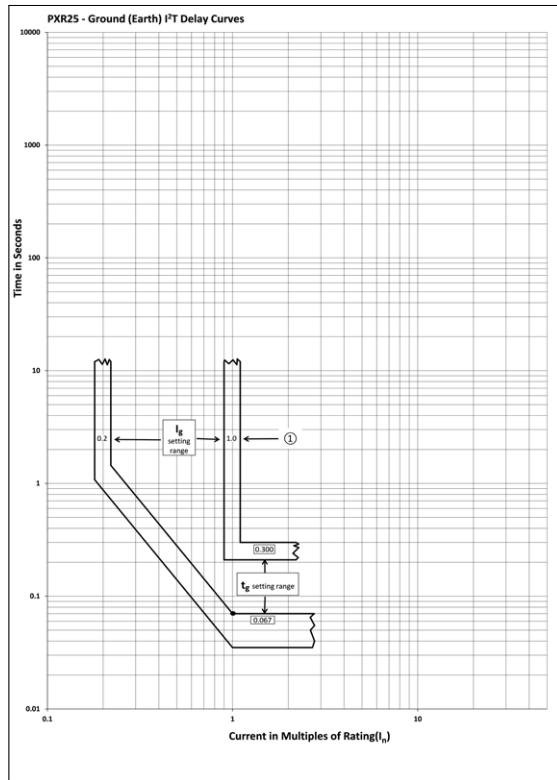
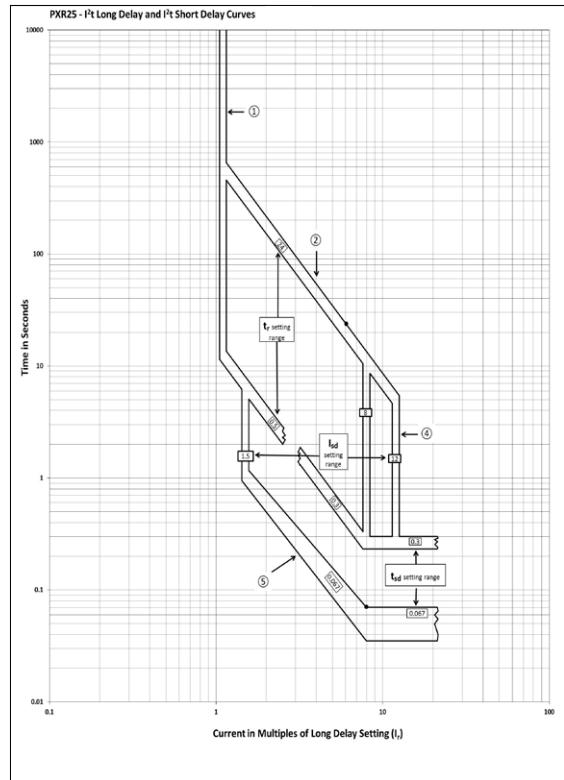


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

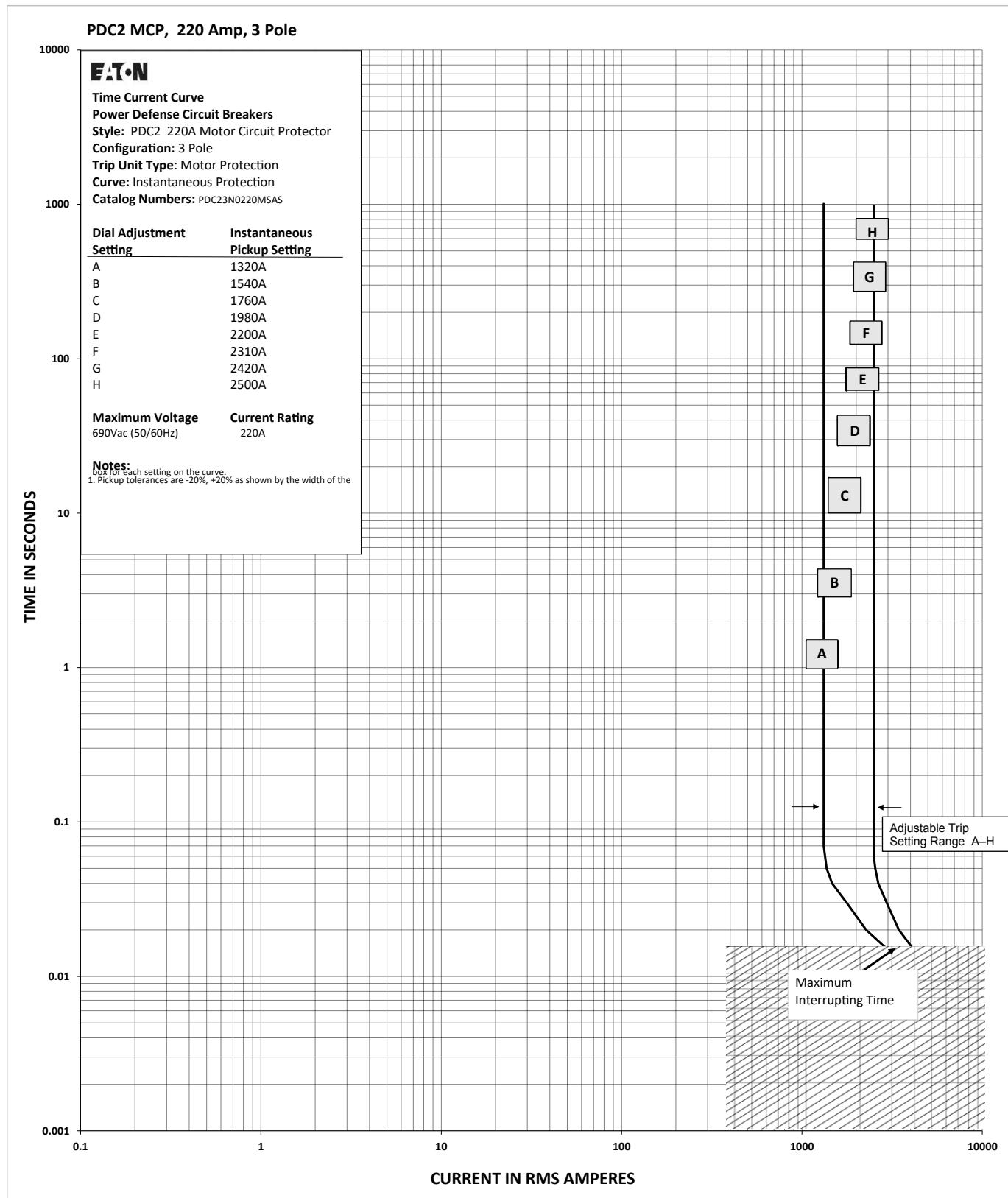
## Tripping Characteristics

### PDC2 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

PDC2 MCP Tripping Characteristics\*

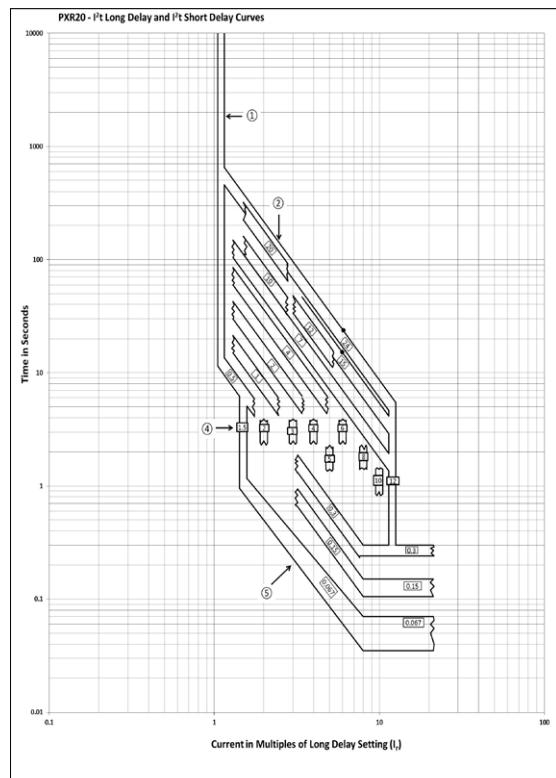
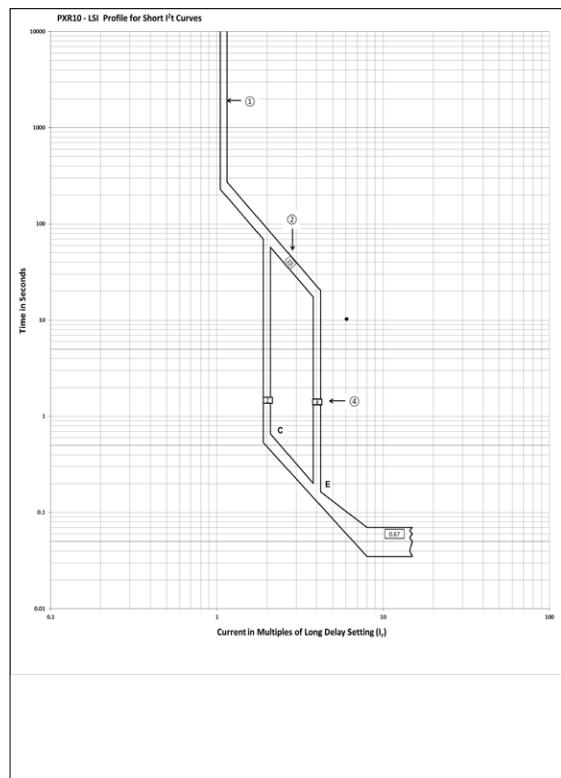
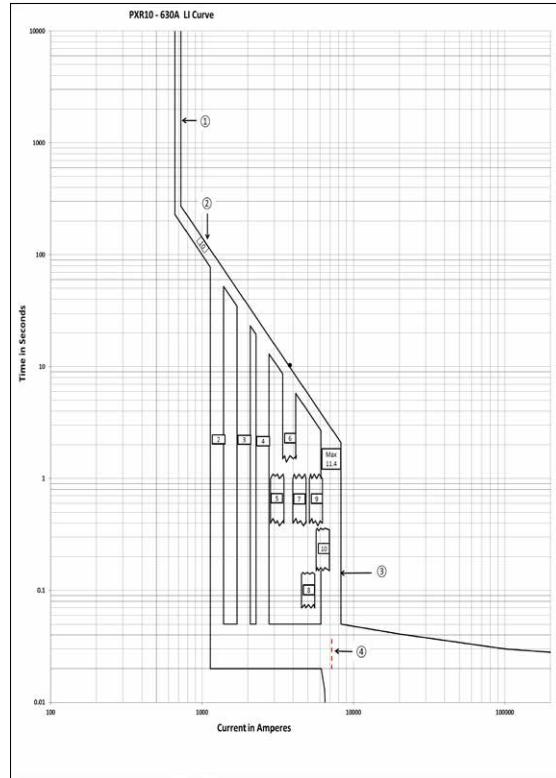
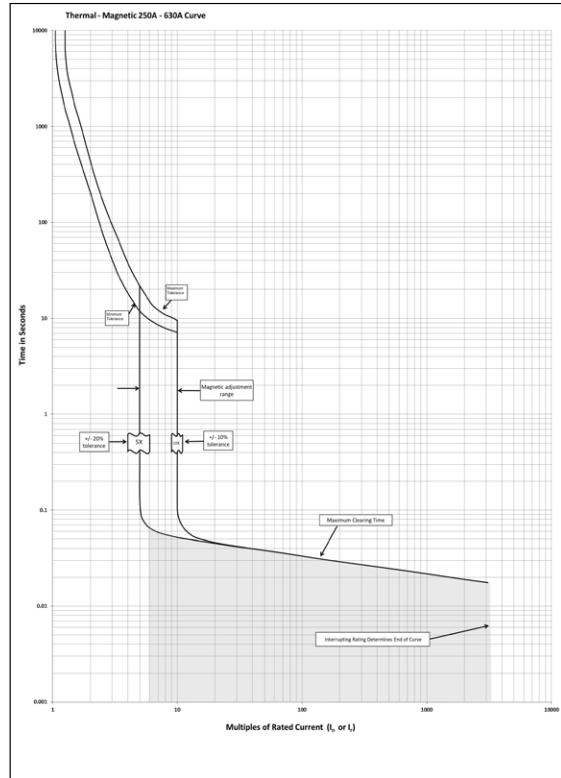


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

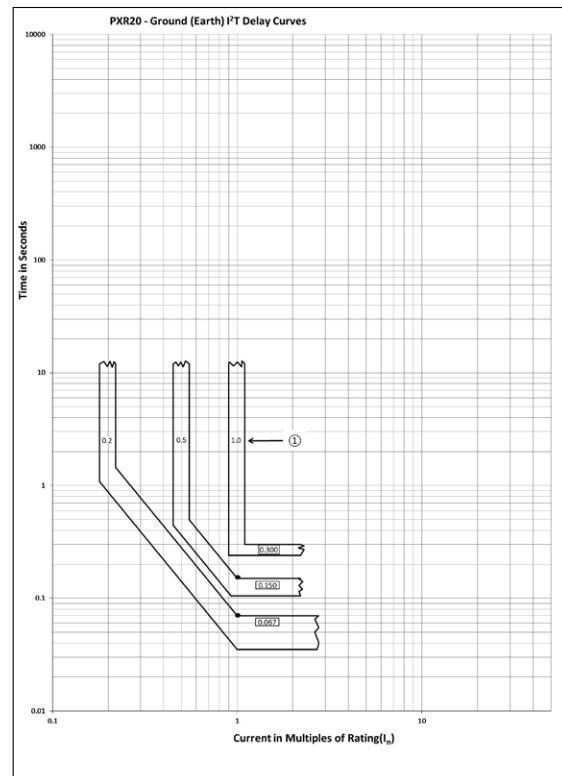
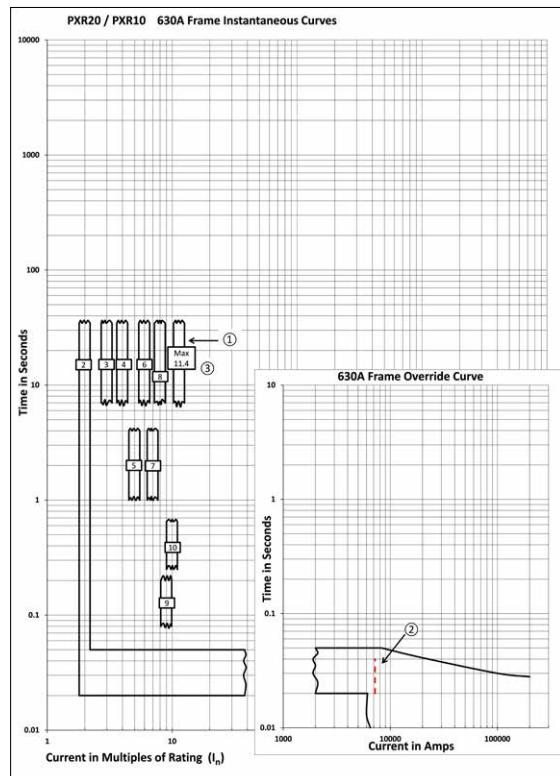
## Tripping Characteristics

### PDC3 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

### PDC3 Tripping Characteristics\*

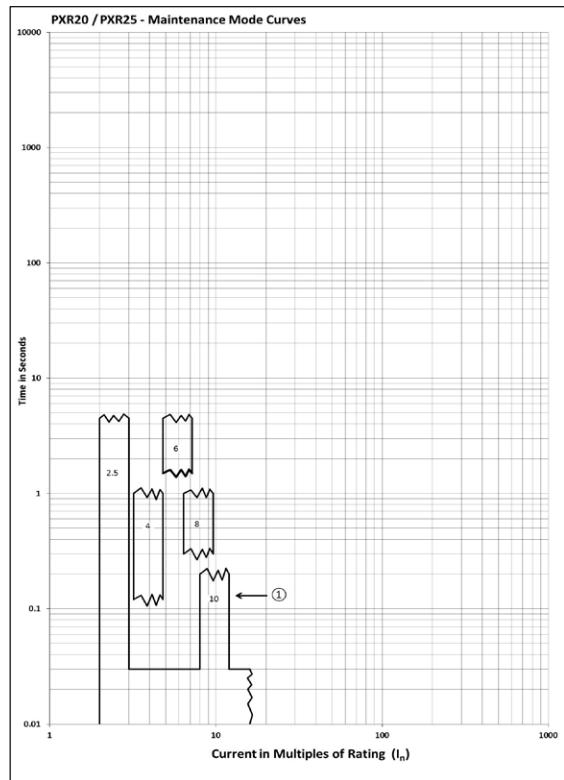
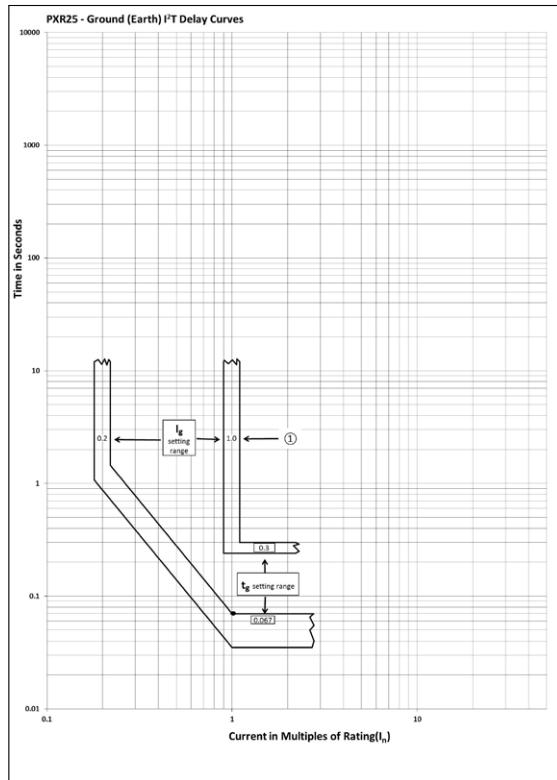
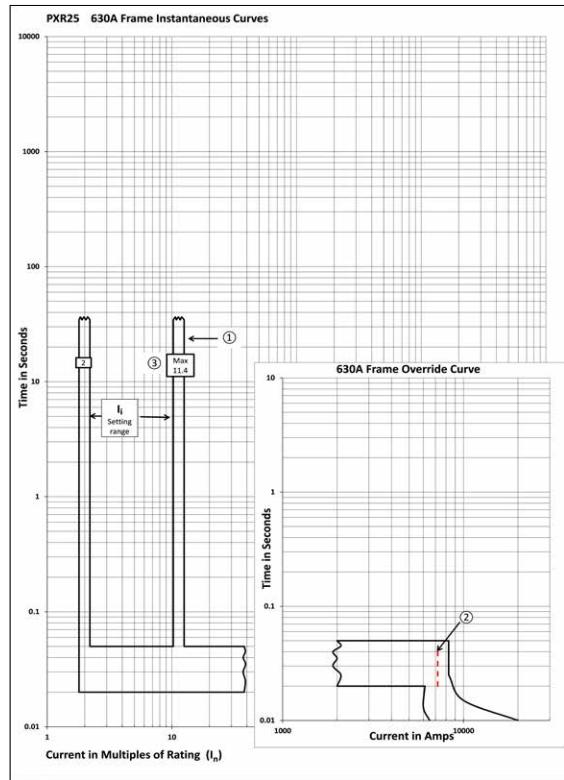


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

## Tripping Characteristics

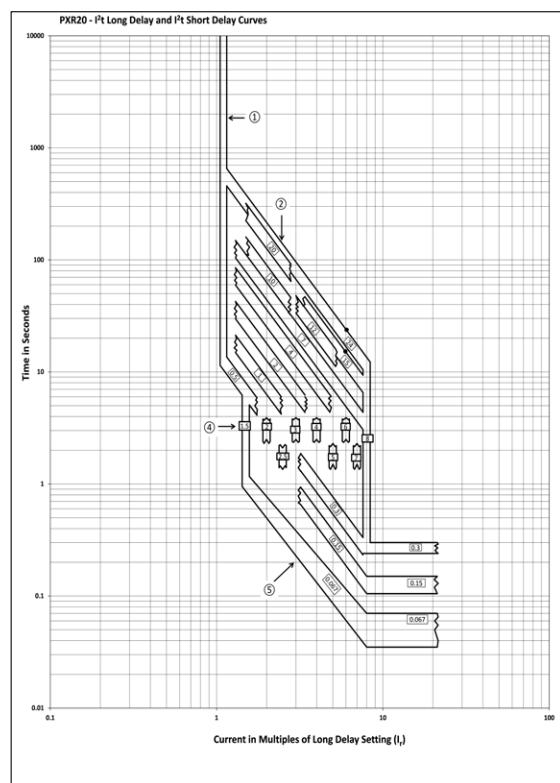
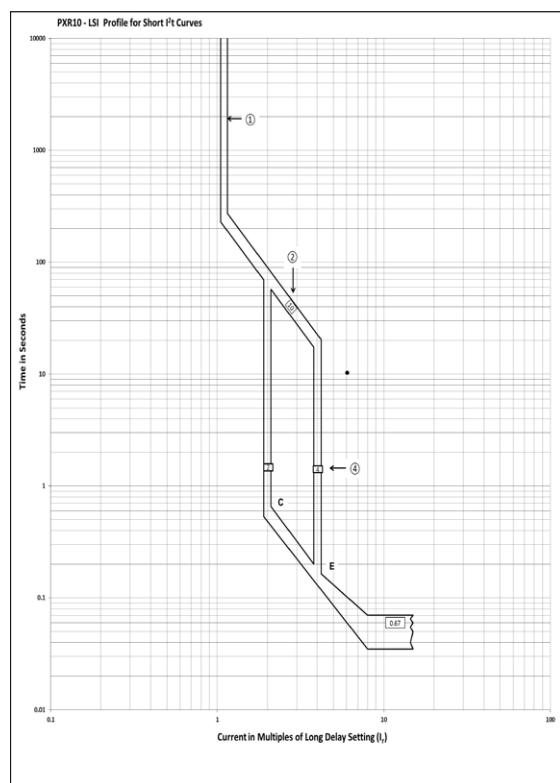
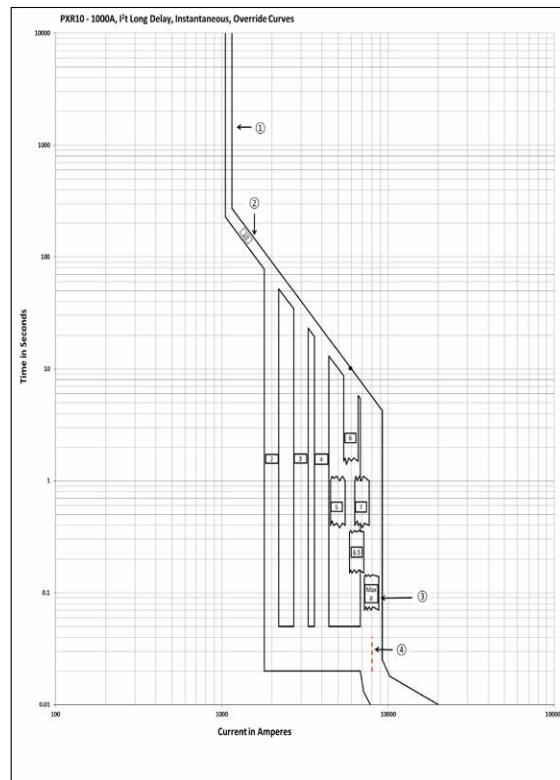
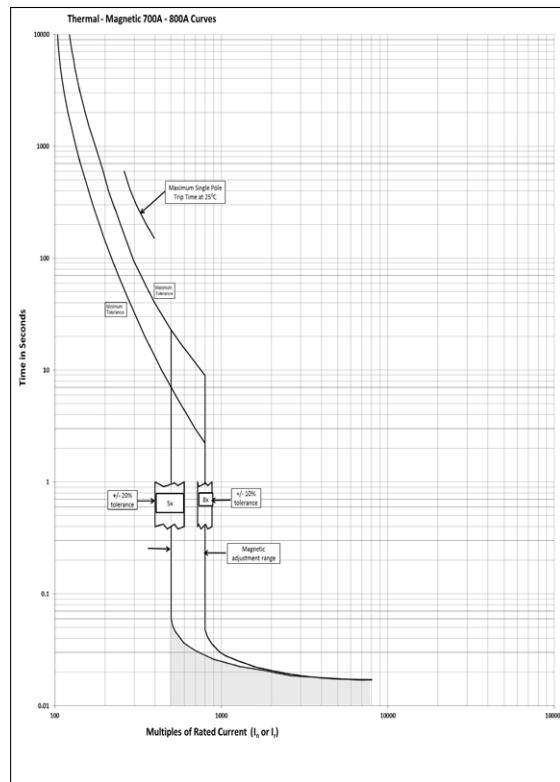
### PDC3 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker Tripping Characteristics

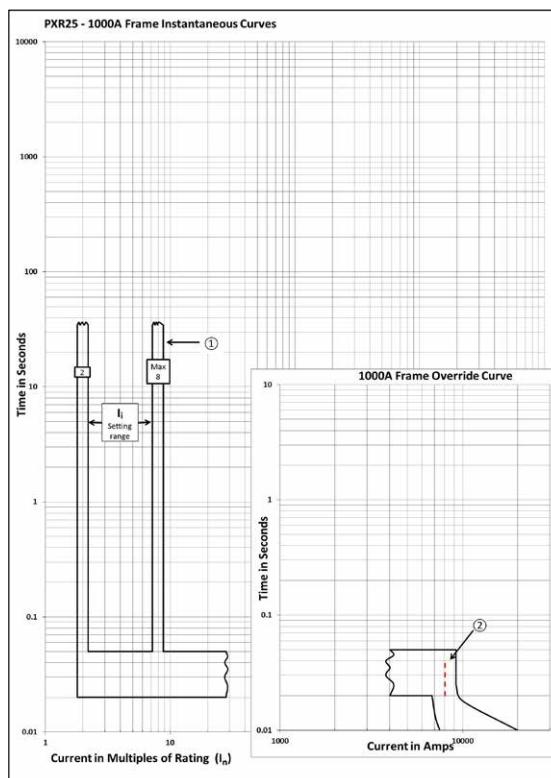
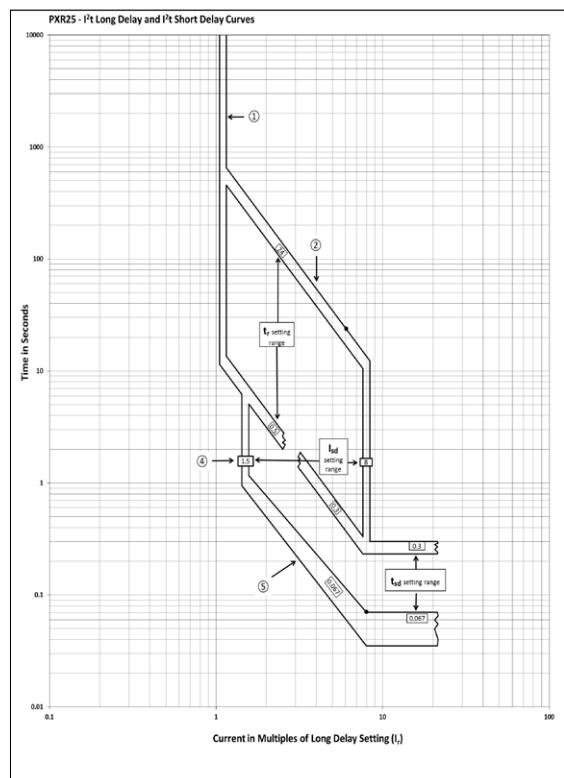
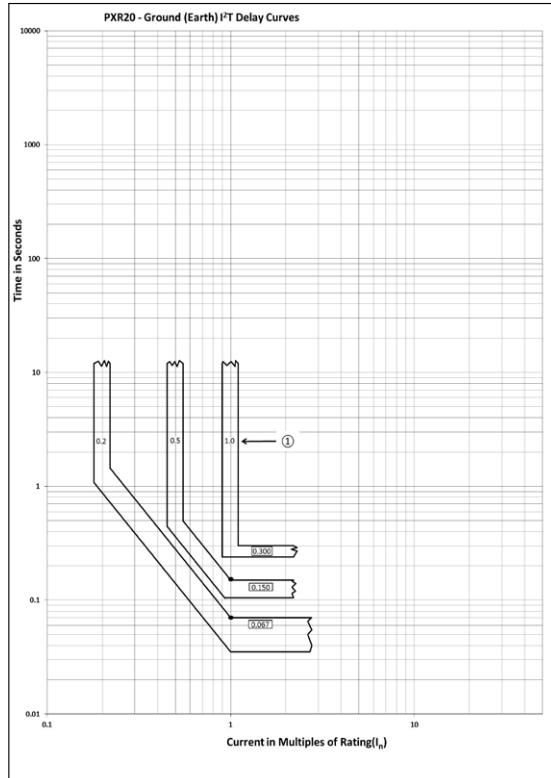
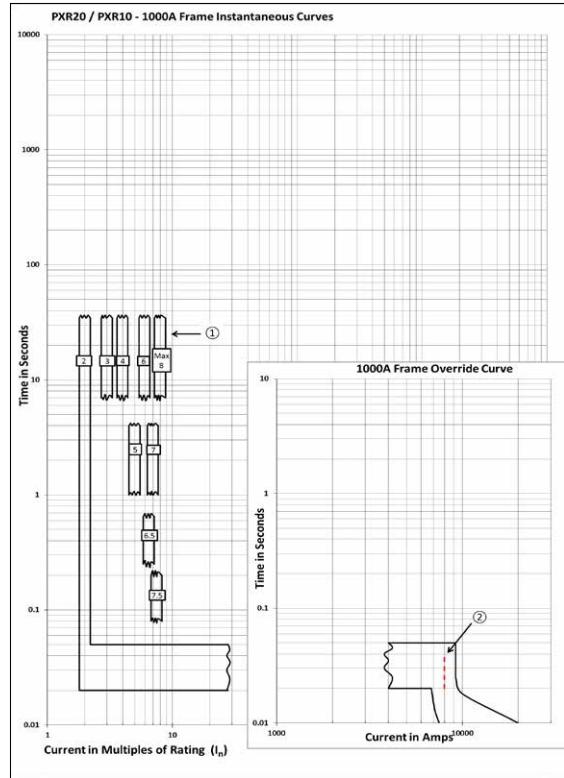
## PDC4 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

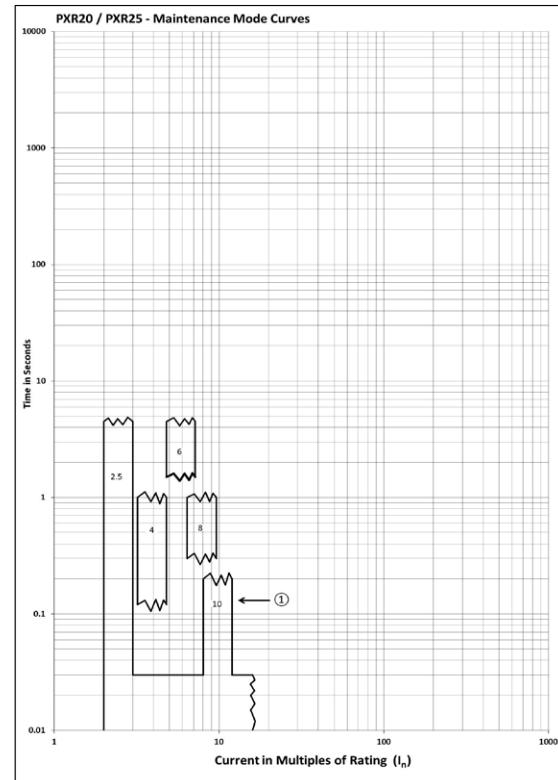
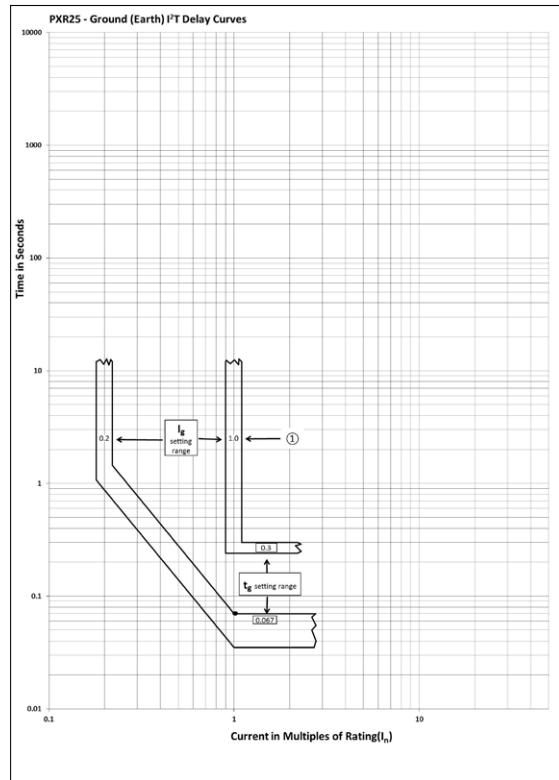
## Power Defense Molded Case Circuit Breaker Tripping Characteristics

## PDC4 Tripping Characteristics\*



**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

### PDC4 Tripping Characteristics\*

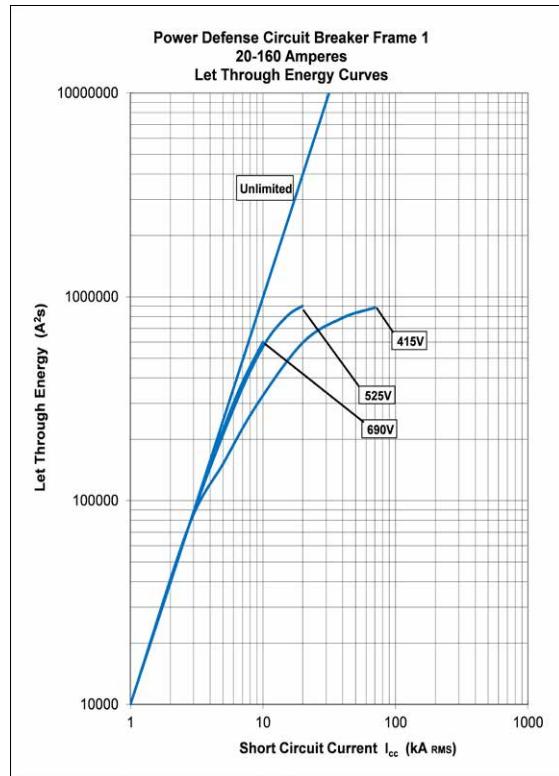
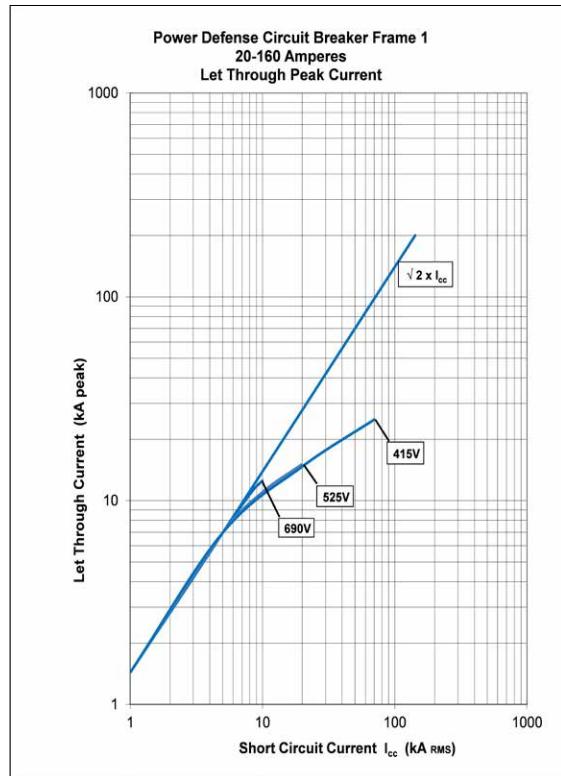
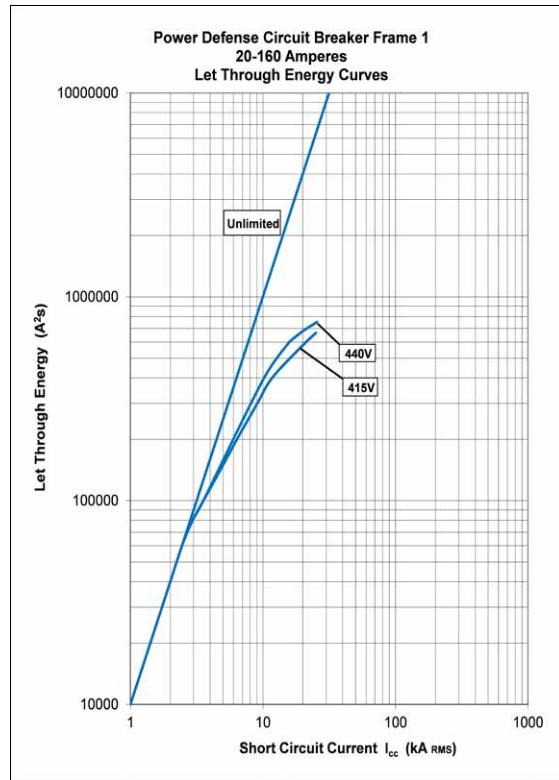
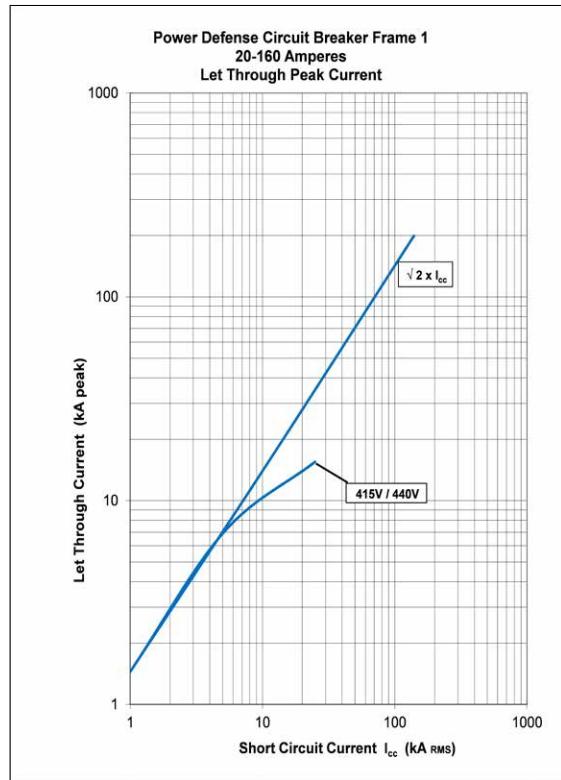


**Note:** \* For specific tripping characteristic curves of each current rating, refer to <http://www.eaton.com.cn/EatonCNES/ProductsSolutions/Electrical/ProductsandServices/MVLVPowerDistributionComponent/MoldedCaseCircuitBreakers/PowerDefenseMCCB>

# Power Defense Molded Case Circuit Breaker

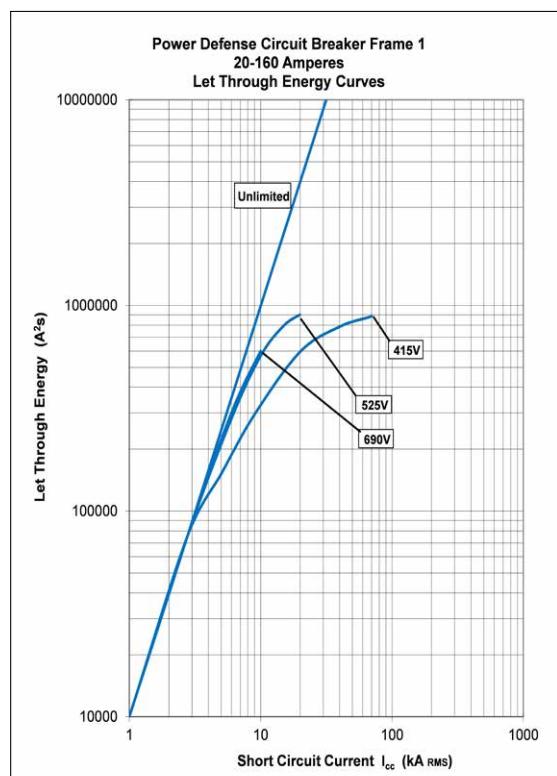
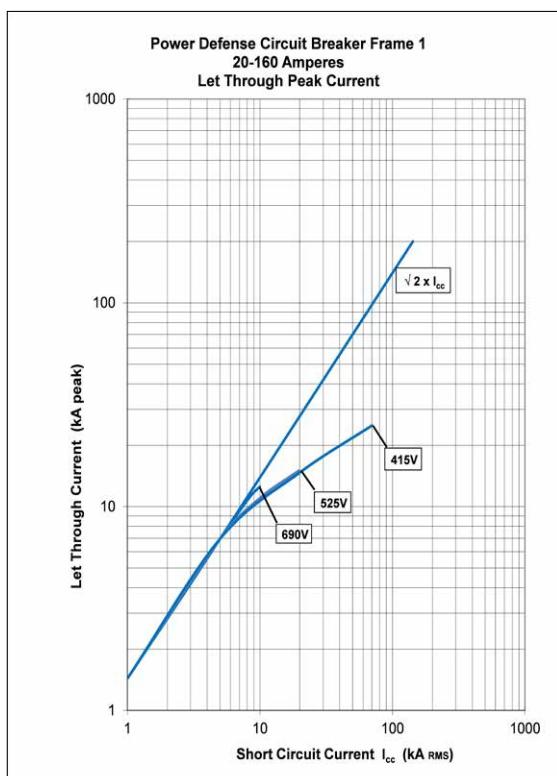
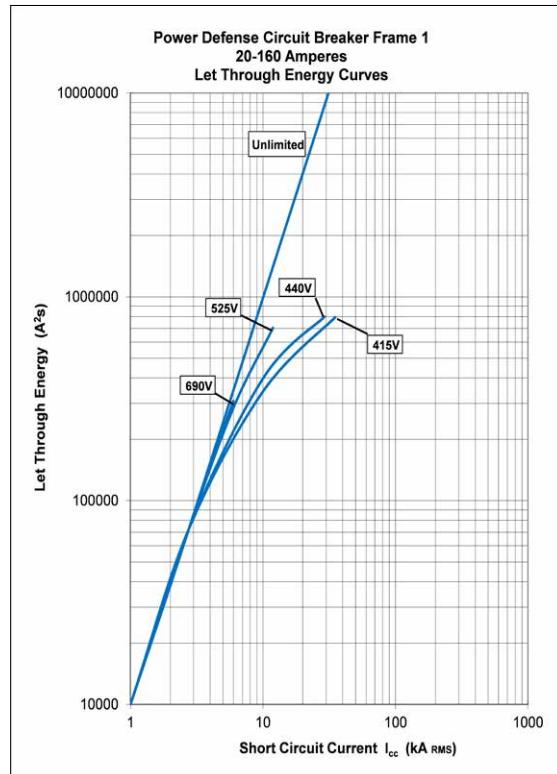
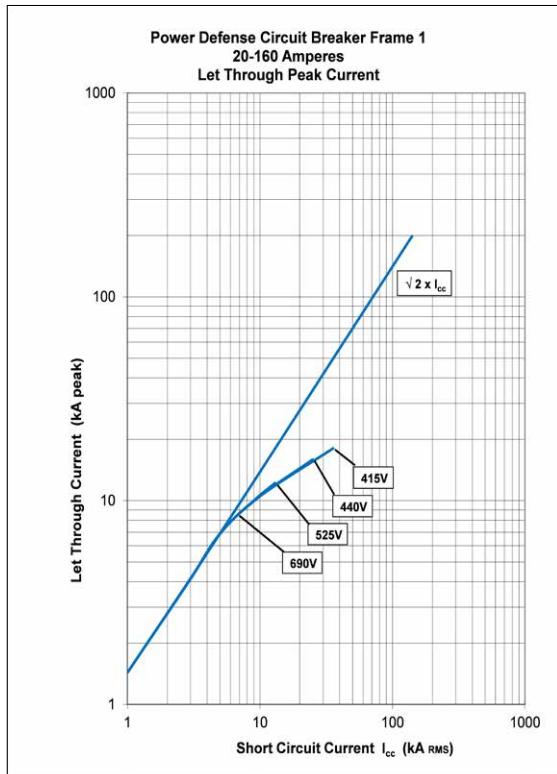
## Let Through Characteristics

### PDC1 Let Through Characteristics



**Power Defense Molded Case Circuit Breaker**  
Let Through Characteristics

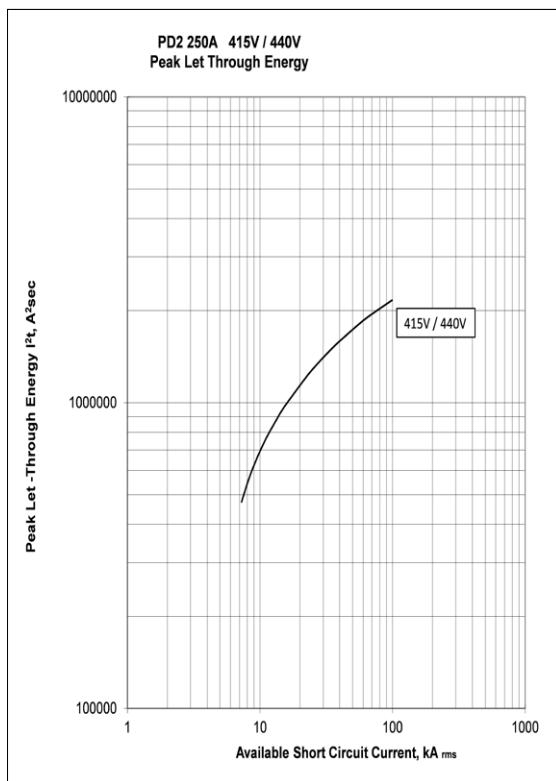
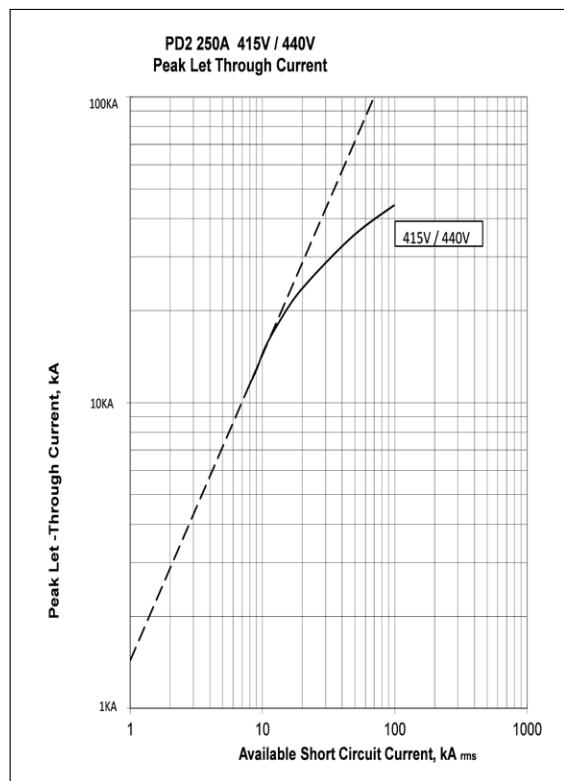
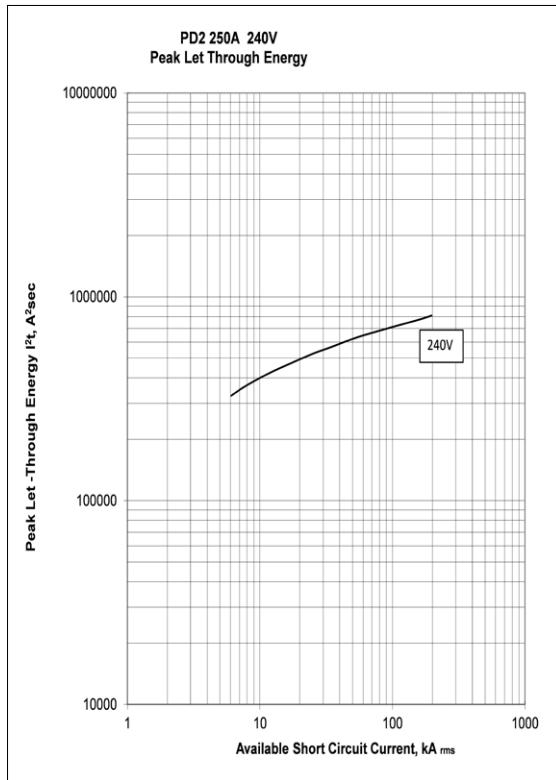
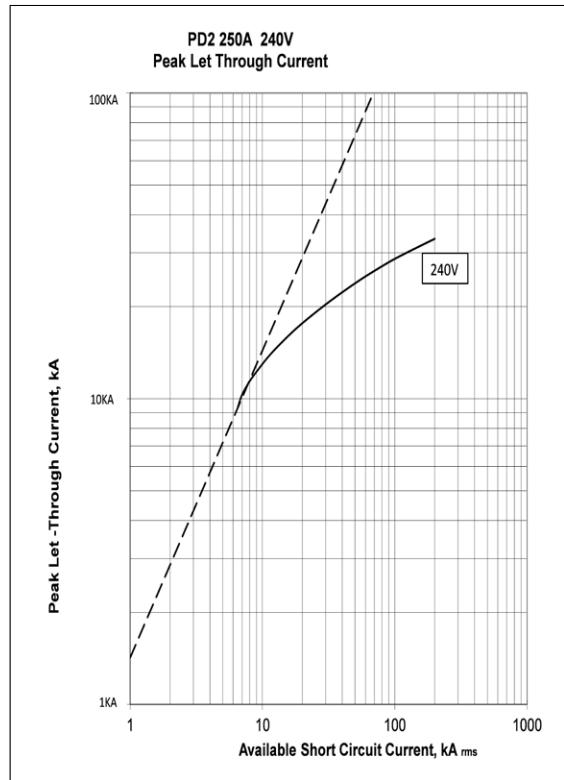
**PDC1 Let Through Characteristics**



# Power Defense Molded Case Circuit Breaker

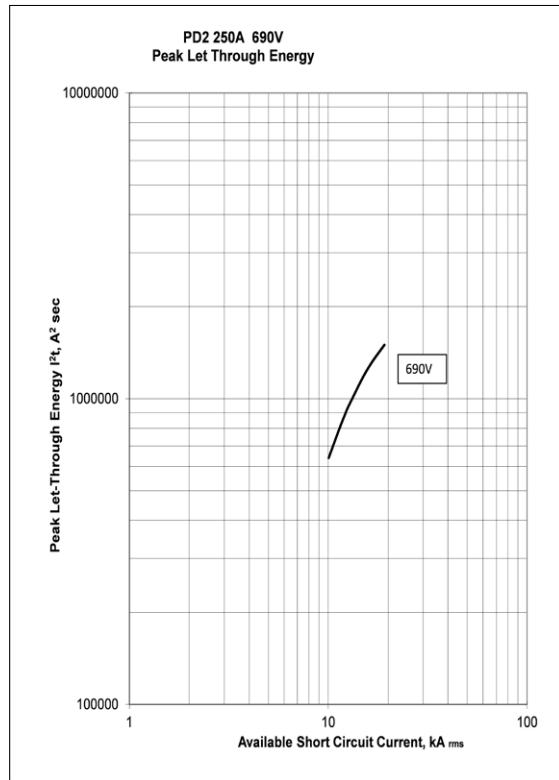
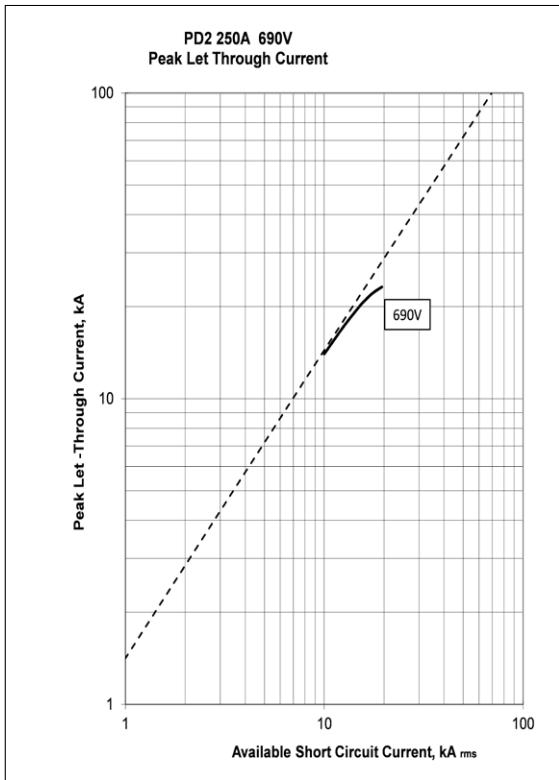
## Let Through Characteristics

### PDC2 Let Through Characteristics



**Power Defense Molded Case Circuit Breaker**  
Let Through Characteristics

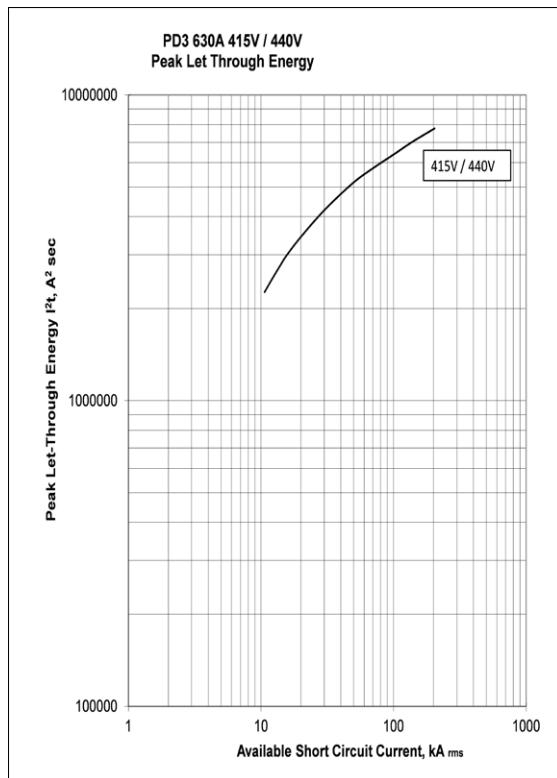
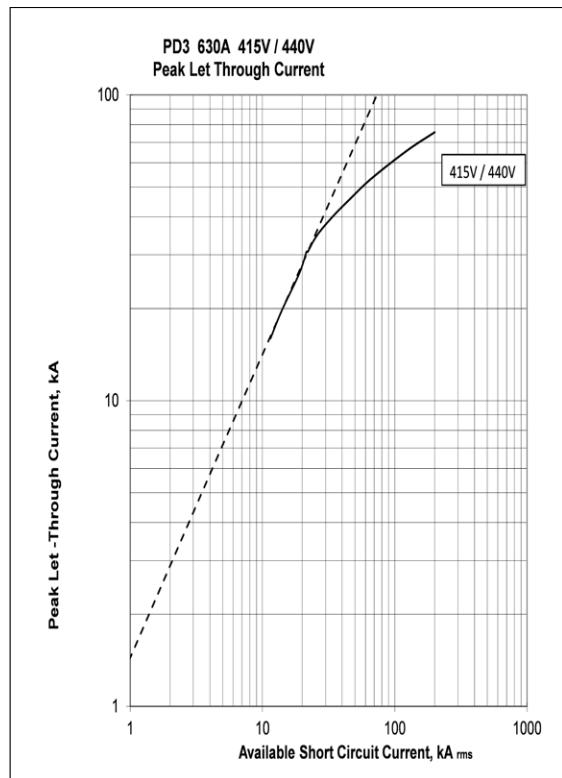
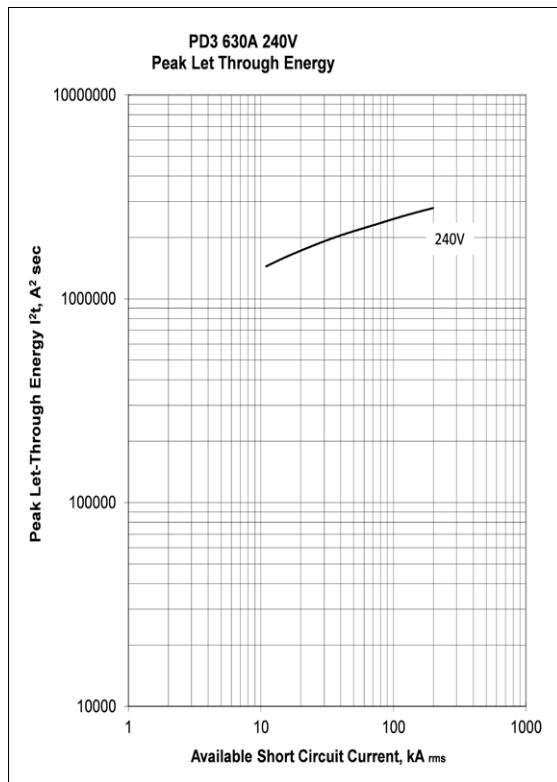
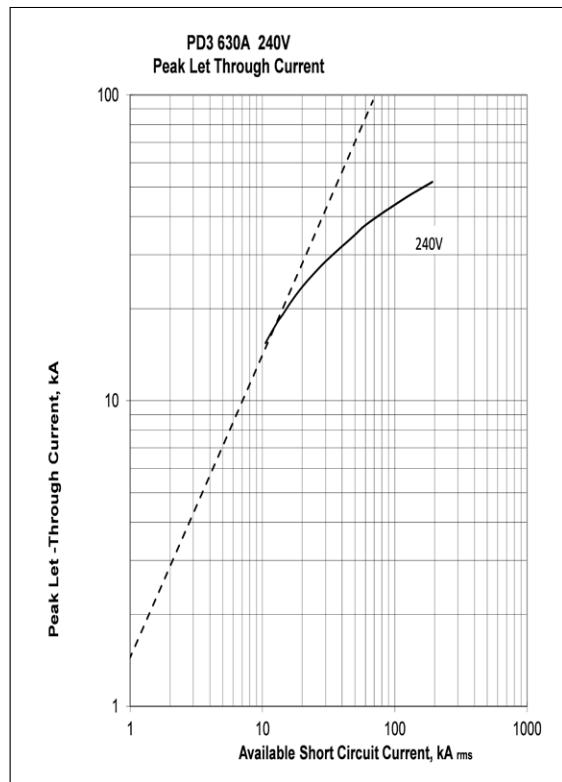
**PDC2 Let Through Characteristics**



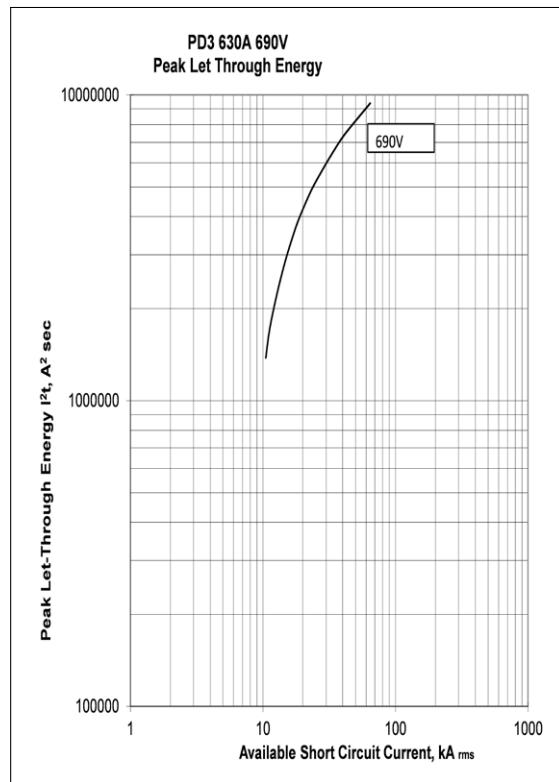
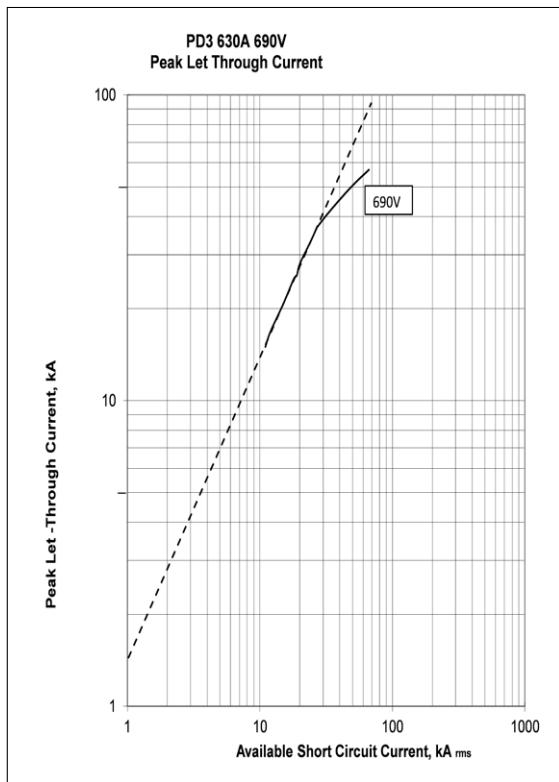
# Power Defense Molded Case Circuit Breaker

## Let Through Characteristics

### PDC3 Let Through Characteristics



**PDC3 Let Through Characteristics**



# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Nr of entries	Upstream	PDC1 A-A								
		$I_{cu} = 25 (36) \text{ kA}$								
		$I_n [\text{A}]$	16-40	50	63	80	100	125	160	
		$\text{II}(I_{cu})$								
<b>MCBs</b>	<b>FAZ-B/C</b>	<b><math>I_n [\text{A}]</math></b>	<b><math>I_{cu} (415\text{V})</math></b>							
FAZ	FAZ-B/C	0.5	-	T	T	T	T	T	T	T
All types with characteristic B, C 15 - 25kA	FAZ-B/C	1	-	T	T	T	T	T	T	T
	FAZ-B/C	2	-	2	T	T	T	T	T	T
	FAZ-B/C	3	-	1.2	2	3	3	10	T	T
	FAZ-B/C	4	-	1.2	2	3	3	8	T	T
	FAZ-B/C	6	-	1.2	2	2.5	3	5	10	10
	FAZ-B/C	10	-	1.2	1.5	2	2	4	10	10
	FAZ-B/C	13	-	1	1.5	2	2	4	10	10
	FAZ-B/C	16	-	1	1.2	1.5	2	3	8	8
	FAZ-B/C	20	-	0.8	1.2	1.5	1.5	3	8	8
	FAZ-B/C	25	-	0.7	1.2	1.5	1.5	3	7	7
	FAZ-B/C	32	-	-	1.2	1	1.5	2	6	6
	FAZ-B/C	40	-	-	-	1	1.5	2	5	5
	FAZ-B/C	50	-	-	-	-	1.2	1.5	4	4
	FAZ-B/C	63	-	-	-	-	-	1.5	3	3
<b>FAZ-D</b>	<b>FAZ-D</b>									
FAZ	FAZ-D	0.5	-	9	T	T	T	T	T	T
All types with Characteristic D	FAZ-D	1	-	0.5	0.7	1.1	1.9	4.2	T	T
	FAZ-D	1.5	-	0.3	0.6	0.8	1.1	1.6	2.6	2.6
	FAZ-D	2	-	0.3	0.5	0.75	0.95	1.4	2.4	2.4
	FAZ-D	2.5	-	0.3	0.5	0.75	0.95	1.3	2.3	2.3
	FAZ-D	3	-	0.3	0.5	0.7	0.9	1.3	2.1	2.1
	FAZ-D	3.5	-	0.3	0.5	0.7	0.9	1.3	2	2
	FAZ-D	4	-	0.3	0.5	0.7	0.9	1.3	1.9	1.9
	FAZ-D	5	-	0.3	0.5	0.7	0.9	1.3	1.9	1.9
	FAZ-D	6	-	0.3	0.5	0.6	0.9	1.3	1.8	1.8
	FAZ-D	8	-	0.3	0.3	0.6	0.75	1	1.3	1.3
	FAZ-D	10	-	0.3	0.3	0.6	0.75	0.95	1.2	1.2
	FAZ-D	13	-	0.3	0.3	0.5	0.7	0.9	1.1	1.1
	FAZ-D	16	-	-	0.3	0.5	0.65	0.8	1.1	1.1
	FAZ-D	20	-	-	-	0.5	0.65	0.8	1.1	1.1
	FAZ-D	25	-	-	-	0.5	0.65	0.8	1.1	1.1
	FAZ-D	32	-	-	-	-	-	0.8	1.1	1.1
	FAZ-D	40	-	-	-	-	-	-	1	1
<b>PDC2 A-A TMTU</b>	<b>PDC2 A-A</b>									
PDC2 A-A	PDC2 A-A	125	70	-	-	-	-	-	-	-
	PDC2 A-A	160	70	-	-	-	-	-	-	-
	PDC2 A-A	200	70	-	-	-	-	-	-	-
	PDC2 A-A	250	70	-	-	-	-	-	-	-
<b>PDC2 PXR</b>	<b>PDC2 PXR</b>									
PDC2 PXR	PDC2 PXR	63	70	-	-	-	-	-	-	-
	PDC2 PXR	160	70	-	-	-	-	-	-	-
	PDC2 PXR	200	70	-	-	-	-	-	-	-
	PDC2 PXR	250	70	-	-	-	-	-	-	-
<b>PDC3 A-A TMTU</b>	<b>PDC3 A-A</b>									
PDC3 A-A	PDC3 A-A	250	70	-	-	-	-	-	-	-
	PDC3 A-A	400	70	-	-	-	-	-	-	-
	PDC3 A-A	500	70	-	-	-	-	-	-	-
	PDC3 A-A	630	70	-	-	-	-	-	-	-

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

PDC2 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 PXR $I_{cu} = 70\text{kA}$		PDC4 A-A TMTU $I_{cu} = 70\text{kA}$		PDC4 PXR $I_{cu} = 70\text{kA}$	
125	160	200	250	63	160	200	250	250	400	500	630	630	800	800	800	800	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	6	T	T	T	T	T	T	T	T	T	T	T	T	
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T	T	T	T	1.5	14.1	14.1	14.1	T	T	T	T	T	T	T	T	T	
T	T	T	T	1.4	7.4	7.4	7.4	T	T	T	T	T	T	T	T	T	
T	T	T	T	1.4	5	5	5	T	T	T	T	T	T	T	T	T	
T	T	T	T	1.3	4.8	4.8	4.8	T	T	T	T	T	T	T	T	T	
12.5	T	T	T	1.3	4.6	4.6	4.6	T	T	T	T	T	T	T	T	T	
11	13	T	T	1.3	4.4	4.4	4.4	T	T	T	T	T	T	T	T	T	
11	13	T	T	1.3	4.2	4.2	4.2	T	T	T	T	T	T	T	T	T	
7.5	10	12.5	T	1.2	3.9	3.9	3.9	T	T	T	T	T	T	T	T	T	
7.5	9	12	T	1.2	3.8	3.8	3.8	T	T	T	T	T	T	T	T	T	
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T	T	T	T	2.4	T	T	T	T	T	T	T	T	-	-	-	-	
T	T	T	T	2.3	11.3	11.3	11.3	T	T	T	T	T	-	-	-	-	
T	T	T	T	2.3	10.4	10.4	10.4	T	T	T	T	T	-	-	-	-	
T	T	T	T	2.1	6	6	6	T	T	T	T	T	-	-	-	-	
T	T	T	T	1.4	5.4	5.4	5.4	T	T	T	T	T	-	-	-	-	
T	T	T	T	1.3	5.1	5.1	5.1	T	T	T	T	T	-	-	-	-	
T	T	T	T	1.2	4.5	4.5	4.5	T	T	T	T	T	-	-	-	-	
12	T	T	T	1.2	4.1	4.1	4.1	T	T	T	T	T	-	-	-	-	
10	12	T	T	1.2	3.9	3.9	3.9	T	T	T	T	T	-	-	-	-	
10	12	T	T	1.2	3.8	3.8	3.8	T	T	T	T	T	-	-	-	-	
6	8	11	T	1.2	3.6	3.6	3.6	T	T	T	T	T	-	-	-	-	
6	8	11	T	1.1	3.4	3.4	3.4	T	T	T	T	T	-	-	-	-	
-	-	2.2	2.6	-	-	2.7	2.7	3.2	5.4	9.8	16.6	16.6	7.2	7.2	7.2	7.2	
-	-	-	2.5	-	-	-	2.4	3.2	5.4	9.8	16.6	16.6	7.2	7.2	7.2	7.2	
-	-	-	-	-	-	-	-	-	5.4	9.8	15.5	15.5	7.1	7.1	7.1	7.1	
-	-	-	-	-	-	-	-	-	5.4	9.8	13.3	13.3	7.1	7.1	7.1	7.1	
1.7	2.1	2.4	2.6	-	2.4	2.7	3	3.7	6	9.6	16.6	16.6	7	7	7	7	
-	-	2.5	-	-	2.7	3	3.4	5.6	9.3	13.8	13.8	6.9	6.9	6.9	6.9	6.9	
-	-	-	-	-	-	-	-	-	5.5	9.2	13.6	13.6	6.8	6.8	6.8	6.8	
-	-	-	-	-	-	-	-	-	5.5	9.2	13.5	13.5	6.8	6.8	6.8	6.8	
-	-	-	-	-	-	-	-	-	4.3	5.7	6.7	6.7	6	6	6	6	
-	-	-	-	-	-	-	-	-	-	5.6	6.6	6.6	6	6	6	6	
-	-	-	-	-	-	-	-	-	-	-	6.4	6.4	6	6	6	6	

# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Nr of entries	Upstream	PDC1 A-A $I_{cu} = 25 (36) \text{ kA}$							
		$I_n [\text{A}]$	16-40	50	63	80	100	125	160
		II( $I_{cu}$ )							
<b>PDC3 PXR</b>		<b>PDC3 PXR</b>							
PDC3 PXR	PDC3 PXR	630	70	-	-	-	-	-	-
<b>PDC4 A-A TMTU</b>		<b>PDC4 A-A</b>							
PDC4 A-A	PDC4 A-A	800	70	-	-	-	-	-	-
<b>PDC4 PXR</b>		<b>PDC4 PXR</b>							
PDC4 PXR	PDC4 PXR	800	70	-	-	-	-	-	-
<b>NZM breakers</b>		<b>NZM...1-A</b>							
NZM...1-A	NZM...1-A	20-40	25 - 100	-	-	0.5	0.7	0.8	1.5
	NZM...1-A	50	25 - 100	-	-	-	0.6	0.8	1.5
	NZM...1-A	63	25 - 100	-	-	-	-	0.8	1.5
	NZM...1-A	80	25 - 100	-	-	-	-	-	1.5
	NZM...1-A	100	25 - 100	-	-	-	-	-	1.5
	NZM...1-A	125	25 - 100	-	-	-	-	-	-
	NZM...1-A	160	25 - 100	-	-	-	-	-	-
<b>NZM...1-M</b>		<b>NZM...1-M</b>							
NZM...1-M	NZM...1-M	40	25 - 50	-	-	-	-	0.8	1
	NZM...1-M	50	25 - 50	-	-	-	-	-	1
	NZM...1-M	63	25 - 50	-	-	-	-	-	1
	NZM...1-M	80	25 - 50	-	-	-	-	-	-
	NZM...1-M	100	25 - 50	-	-	-	-	-	-
<b>NZM...2-A</b>		<b>NZM...2-A</b>							
NZM...2-A	NZM...2-A	20-40	25 - 150	-	-	0.5	0.6	0.8	1
	NZM...2-A	50	25 - 150	-	-	-	0.6	0.8	1
	NZM...2-A	63	25 - 150	-	-	-	-	0.8	1
	NZM...2-A	80	25 - 150	-	-	-	-	-	1
	NZM...2-A	100	25 - 150	-	-	-	-	-	1
	NZM...2-A	125	25 - 150	-	-	-	-	-	-
	NZM...2-A	160	25 - 150	-	-	-	-	-	-
	NZM...2-A	200	25 - 150	-	-	-	-	-	-
	NZM...2-A	250	25 - 150	-	-	-	-	-	-
<b>NZM...2-M</b>		<b>NZM...2-M</b>							
NZM...2-M...	NZM...2-M	20-120	25 - 150	-	-	-	-	-	-
	NZM...2-M	160	25 - 150	-	-	-	-	-	-
	NZM...2-M	200	25 - 150	-	-	-	-	-	-
<b>NZM...2-VE</b>		<b>NZM...2-VE</b>							
NZM...2-VE	NZM...2-VE	100	50 - 150	-	-	-	-	-	-
	NZM...2-VE	160	50 - 150	-	-	-	-	-	-
	NZM...2-VE	250	50 - 150	-	-	-	-	-	-
<b>NZM...2-ME</b>		<b>NZM...2-ME</b>							
NZM...2-ME	NZM...2-ME	90	50 - 150	-	-	-	-	-	-
	NZM...2-ME	140	50 - 150	-	-	-	-	-	-
	NZM...2-ME	220	50 - 150	-	-	-	-	-	-
<b>NZM...3-A</b>		<b>NZM...3-A</b>							
NZM...3-A (thermal-mag)	NZM...3-A	320	50 - 150	-	-	-	-	-	-
	NZM...3-A	400	50 - 150	-	-	-	-	-	-
	NZM...3-A	500	50 - 150	-	-	-	-	-	-
<b>NZM...3-AE</b>		<b>NZM...3-AE</b>							
NZM...3-AE	NZM...3-AE	250	50 - 150	-	-	-	-	-	-
	NZM...3-AE	400	50 - 150	-	-	-	-	-	-
	NZM...3-AE	630	50 - 150	-	-	-	-	-	-
<b>NZM...3-VE</b>		<b>NZM...3-VE</b>							
NZM...3-VE	NZM...3-VE	250	50 - 150	-	-	-	-	-	-
	NZM...3-VE	400	50 - 150	-	-	-	-	-	-
	NZM...3-VE	630	50 - 150	-	-	-	-	-	-

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

PDC2 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 PXR $I_{cu} = 70\text{kA}$		PDC4 A-A TMTU $I_{cu} = 70\text{kA}$		PDC4 PXR $I_{cu} = 70\text{kA}$	
125	160	200	250	63	160	200	250	250	400	500	630	630	800	800	800	800	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	2.4	2.5	3.1	1.1	2.6	2.6	2.6	6	13.7	50	T	T	10	10			
2	2.4	2.5	3.1	-	2.6	2.6	2.6	6	13.1	47.4	T	T	10	10			
1.9	2.3	2.6	3.1	-	2.6	2.6	2.6	6	11.8	43.5	T	T	10	10			
1.9	2.3	2.6	3	-	2.6	2.6	2.6	6	11.2	41.3	T	T	10	10			
-	2.2	2.6	3	-	2.6	2.6	2.6	6	10.9	40.4	T	T	10	10			
-	-	2.6	3	-	2.6	2.6	2.6	6	10.7	39.3	T	T	10	10			
-	-	2.6	3	-	-	2.6	2.6	6	10.5	38.5	T	T	10	10			
2	2.4	2.7	3.1	1.1	2.7	2.7	2.7	6	13.9	50	T	T	10.4	10.4			
1.9	2.3	2.6	3	-	2.6	2.6	2.6	6	13.1	47.4	T	T	10	10			
1.9	2.3	2.6	3	-	2.6	2.6	2.6	6	12.2	43.4	T	T	10	10			
1.8	2.2	2.6	3	-	2.6	2.6	2.6	6	12.3	41.3	T	T	10	10			
-	2.2	2.6	3	-	2.6	2.6	2.6	6	12.2	40.4	T	T	10	10			
1.9	2.3	2.5	3	1	2.4	2.4	2.4	5.7	T	T	T	T	11.9	11.9			
1.9	2.3	2.5	3	-	2.4	2.4	2.4	5.8	T	T	T	T	10.4	10.4			
1.9	2.2	2.5	2.9	-	2.4	2.4	2.4	5.8	28.6	T	T	T	10.4	10.4			
1.9	2.2	2.5	2.9	-	2.4	2.4	2.4	5.9	26.5	T	T	T	10	10			
-	2.2	2.5	2.7	-	2.4	2.4	2.4	5.7	24.5	T	T	T	10	10			
-	-	2.3	2.7	-	-	2.4	2.4	4.5	14.1	T	T	T	10	10			
-	-	-	2.5	-	-	-	2.4	4.6	16.6	T	T	T	10	10			
-	-	-	2.5	-	-	-	-	4.4	10	T	T	T	10	10			
-	-	-	-	-	-	-	-	-	10	T	T	T	10	10			
-	1.9	2.2	2.7	-	2.4	2.4	2.4	5.9	35.9	T	T	T	11.6	10			
-	-	-	2.5	-	-	2.4	2.4	4.4	10	T	T	T	10	10			
-	-	-	2.5	-	-	-	-	2.8	10	T	T	T	10	10			
-	2	2.2	2.7	-	2.4	2.7	3	4.3	10	T	T	T	10	10			
-	-	-	2.7	-	-	2.7	3	4.2	10	T	T	T	10	10			
-	-	-	-	-	-	-	-	-	10	T	T	T	10	10			
-	2.1	2.3	2.7	-	2.4	2.4	2.4	4.3	10	T	T	T	10	10			
-	-	-	2.7	-	-	2.4	2.4	4.2	10	T	T	T	10	10			
-	-	-	-	-	-	-	-	-	2.8	10	T	T	T	10	10		
-	-	-	-	-	-	-	-	-	-	5.4	7.2	10	10	6.2	6.2		
-	-	-	-	-	-	-	-	-	-	6.9	10	10	6.2	6.2			
-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	6.2			
-	-	-	-	-	-	-	-	-	-	5.4	7	10	10	6	6.2		
-	-	-	-	-	-	-	-	-	-	10	10	10	6	6.2			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	5.3	7.1	10	10	6	6.2		
-	-	-	-	-	-	-	-	-	-	10	10	10	6.1	6.2			
-	-	-	-	-	-	-	-	-	-	-	-	-	6	6.2			

# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Nr of entries	Upstream	PDC1 A-A							
		$I_{cu} = 25 (36) \text{ kA}$							
		$I_n [\text{A}]$	16-40	50	63	80	100	125	160
		$\text{II}(I_{cu})$							
<b>NZM···3-ME</b>	<b>NZM···3-ME</b>								
NZM···3-ME	NZM···3-ME	220	50 - 150	-	-	-	-	-	-
	NZM···3-ME	350	50 - 150	-	-	-	-	-	-
	NZM···3-ME	450	50 - 150	-	-	-	-	-	-
<b>NZM···4-AE</b>	<b>NZM···4-AE</b>								
NZM···4-AE	NZM···4-AE	630	50 - 85	-	-	-	-	-	-
	NZM···4-AE	800	50 - 85	-	-	-	-	-	-
	NZM···4-AE	1000	50 - 85	-	-	-	-	-	-
	NZM···4-AE	1250	50 - 85	-	-	-	-	-	-
	NZM···4-AE	1600	50 - 85	-	-	-	-	-	-
<b>NZM···4-VE</b>	<b>NZM···4-VE</b>								
NZM···4-VE	NZM···4-VE	630	50 - 85	-	-	-	-	-	-
	NZM···4-VE	800	50 - 85	-	-	-	-	-	-
	NZM···4-VE	1000	50 - 85	-	-	-	-	-	-
	NZM···4-VE	1250	50 - 85	-	-	-	-	-	-
	NZM···4-VE	1600	50 - 85	-	-	-	-	-	-
<b>NZM···4-ME</b>	<b>NZM···4-ME</b>								
NZM···4-ME	NZM···4-ME	550	50 - 85	-	-	-	-	-	-
	NZM···4-ME	875	50 - 85	-	-	-	-	-	-
	NZM···4-ME	1400	50 - 85	-	-	-	-	-	-

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

PDC2 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 A-A TMTU $I_{cu} = 70\text{kA}$						PDC3 PXR $I_{cu} = 70\text{kA}$		PDC4 A-A TMTU $I_{cu} = 70\text{kA}$		PDC4 PXR $I_{cu} = 70\text{kA}$	
125	160	200	250	63	160	200	250	250	400	500	630	630	800	800	800	800	
-	-	-	-	-	-	-	-	2.8	4.5	6.5	10	10	6	6	6.2	6.2	
-	-	-	-	-	-	-	-	-	4.3	6.5	10	10	6	6	6.2	6.2	
-	-	-	-	-	-	-	-	-	-	-	10	-	6	6	6.2	6.2	
-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	6.4	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	6.4	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	6.4	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Nr of entries	Upstream	NZM1 A						NZM2-A (25-150kA)					
		$I_h$ [A]	20 - 40	50	63	80	100	125	160	20 - 40	50	63	
			$\Pi(I_{cu})$										
<b>PDC breakers</b>	<b>PDC1 A-A</b>												
PDC1 A-A	PDC1 A-A	16-40	70	-	-	0.5	0.7	0.8	1.5	1.5	-	-	0.6
	PDC1 A-A	50	70	-	-	-	0.6	0.8	1.5	1.5	-	-	-
	PDC1 A-A	63	70	-	-	-	-	0.8	1.5	1.5	-	-	-
	PDC1 A-A	80	70	-	-	-	-	-	1.5	1.5	-	-	-
	PDC1 A-A	100	70	-	-	-	-	-	-	1.5	-	-	-
	PDC1 A-A	125	70	-	-	-	-	-	-	-	-	-	-
	PDC1 A-A	160	70	-	-	-	-	-	-	-	-	-	-
<b>PDC2 A-A TMTU</b>	<b>PDC2 A-A</b>												
PDC2 A-A TMTU	PDC2 A-A	125	70	-	-	-	-	-	-	-	-	-	-
	PDC2 A-A	160	70	-	-	-	-	-	-	-	-	-	-
	PDC2 A-A	200	70	-	-	-	-	-	-	-	-	-	-
	PDC2 A-A	250	70	-	-	-	-	-	-	-	-	-	-
<b>PDC2 PXR</b>	<b>PDC2 PXR</b>												
PDC2 PXR	PDC2 PXR	63	70	-	-	-	-	-	-	-	-	-	-
	PDC2 PXR	160	70	-	-	-	-	-	-	-	-	-	-
	PDC2 PXR	200	70	-	-	-	-	-	-	-	-	-	-
	PDC2 PXR	250	70	-	-	-	-	-	-	-	-	-	-
<b>PDC3 A-A TMTU</b>	<b>PDC3 A-A</b>												
PDC3 A-A TMTU	PDC3 A-A	250	70	-	-	-	-	-	-	-	-	-	-
	PDC3 A-A	400	70	-	-	-	-	-	-	-	-	-	-
	PDC3 A-A	500	70	-	-	-	-	-	-	-	-	-	-
	PDC3 A-A	630	70	-	-	-	-	-	-	-	-	-	-
<b>PDC3 PXR</b>	<b>PDC3 PXR</b>												
PDC3 PXR	PDC3 PXR	630	70	-	-	-	-	-	-	-	-	-	-
<b>PDC4 A-A TMTU</b>	<b>PDC4 A-A</b>												
PDC4 A-A TMTU	PDC4 A-A	800	70	-	-	-	-	-	-	-	-	-	-
<b>PDC4 PXR</b>	<b>PDC4 PXR</b>												
PDC4 PXR	PDC4 PXR	800	70	-	-	-	-	-	-	-	-	-	-

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

NZM2-A (25-150kA)						NZM2-VE (50-150)			NZM...3-A (36-150)				NZM...3-AE (250-630)			NZM...3-VE (50-150)				
80	100	125	160	200	250	100	160	250	250	320	400	500	250	400	630	250	400	630		
0.8	1.5	1.5	1.5	2	3	1.5	1.5	3	3	4	6	7	7.5	20	20	12.5	25	25		
0.8	1.5	1.5	1.5	2	3	1.5	1.5	3	3	4	6	7	7.5	20	20	12.5	25	25		
-	1.5	1.5	1.5	2	3	1.5	1.5	3	3	4	6	7	6	15	15	11	20	20		
-	-	1.5	1.5	2	3	-	1.5	3	3	4	6	7	6	15	15	11	20	20		
-	-	-	1.5	2	3	-	1.5	3	3	4	6	7	6	15	15	11	20	20		
-	-	-	-	2	3	-	-	3	3	4	6	7	6	15	15	11	20	20		
-	-	-	-	2	3	-	-	3	3	4	6	7	6	15	15	11	20	20		
-	-	-	-	-	-	2.4	3	-	-	3	3.4	4	6	6.3	2.7	4.4	5	3.6	6.3	10
-	-	-	-	-	-	2.9	-	-	3	3.3	4	6	6.2	2.7	4.4	5	3.5	6.2	10	
-	-	-	-	-	-	-	-	-	-	-	3.9	5.9	6	-	4.4	5	-	6	9.8	
-	-	-	-	-	-	-	-	-	-	-	3.9	5.8	6	-	4.4	5	-	6	9.5	
-	1.2	1.7	2.1	2.6	3.1	1.2	1.9	3	3.6	4.2	6	6.6	2.7	4.4	5	3.7	6.6	10		
-	-	-	-	2.3	3	-	-	3	3.4	4	6	6.1	2.7	4.4	5	3.5	6.1	9.7		
-	-	-	-	-	-	-	-	-	-	3.9	6	6	2.7	4.4	5	3.5	6	9.4		
-	-	-	-	-	-	-	-	-	-	3.9	5.8	6	-	4.4	5	-	6	9.4		
-	-	-	-	-	-	-	-	-	-	-	3.6	4.7	5.4	-	4.3	4.7	-	5.4	5.4	
-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	4.7	-	-	5.3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Nr of entries	Upstream	NZM...4-AE (50-85)					
		I <sub>n</sub> [A]	630	800	1000	1250	1600
		II(I <sub>cu</sub> )	7560 (85kA)	9600 (85kA)	12000 (85kA)	15000 (85kA)	19200 (85kA)
<b>PDC breakers</b>		<b>PDC1 A-A</b>					
PDC1 A-A	PDC1 A-A	16-40	70	T	T	T	T
	PDC1 A-A	50	70	T	T	T	T
	PDC1 A-A	63	70	T	T	T	T
	PDC1 A-A	80	70	T	T	T	T
	PDC1 A-A	100	70	T	T	T	T
	PDC1 A-A	125	70	T	T	T	T
	PDC1 A-A	160	70	T	T	T	T
<b>PDC2 A-A TMTU</b>		<b>PDC2 A-A</b>					
PDC2 A-A TMTU	PDC2 A-A	125	70	T	T	T	T
	PDC2 A-A	160	70	T	T	T	T
	PDC2 A-A	200	70	T	T	T	T
	PDC2 A-A	250	70	T	T	T	T
<b>PDC2 PXR</b>		<b>PDC2 PXR</b>					
PDC2 PXR	PDC2 PXR	63	70	T	T	T	T
	PDC2 PXR	160	70	T	T	T	T
	PDC2 PXR	200	70	T	T	T	T
	PDC2 PXR	250	70	T	T	T	T
<b>PDC3 A-A TMTU</b>		<b>PDC3 A-A</b>					
PDC3 A-A TMTU	PDC3 A-A	250	70	11.4	37.6	39.3	39.3
	PDC3 A-A	400	70	11.2	35.4	38	38
	PDC3 A-A	500	70	11.1	31.5	37.6	37.6
	PDC3 A-A	630	70	-	30.7	37.3	37.3
<b>PDC3 PXR</b>		<b>PDC3 PXR</b>					
PDC3 PXR	PDC3 PXR	630	70	-	30.6	37.3	37.3
<b>PDC4 A-A TMTU</b>		<b>PDC4 A-A</b>					
PDC4 A-A TMTU	PDC4 A-A	800	70	-	-	18.7	25.3
<b>PDC4 PXR</b>		<b>PDC4 PXR</b>					
PDC4 PXR	PDC4 PXR	800	70	-	-	19.4	25.3
							25.6

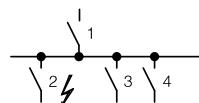
**Power Defense Molded Case Circuit Breaker**  
Selective Protection

**NZM-4-VE (50-85)**

630	800	1000	1250	1600
7560 (85kA)	9600 (85kA)	12000 (85kA)	15000 (85kA)	19200 (85kA)
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
T	T	T	T	T
11.4	37.6	39.3	39.3	39.3
11.2	35.4	38	38	38
11.1	31.5	37.6	37.6	37.6
-	30.7	37.3	37.3	37.3
-	30.6	37.3	37.3	37.3
-	-	18.7	25.3	25.5
-	-	19.4	25.3	25.6

# Power Defense Molded Case Circuit Breaker

## Selective Protection



- $I_n$  Rated operational current
- $I_u$  Rated uninterrupted current
- $I_{cu}$  Rated short-circuit breaking capacity
- $I_l$  Set value non-delayed short-circuit releases

### Selectivity 415 V AC

Between circuit-breakers enables the separate disconnection of faulty system sections. Selectivity exists between incoming circuitbreaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.

Provided that the short-circuit current does not exceed those values specified ( $I_{cc\ rms}$ ).

These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents. On IZM circuit-breakers with V, U releases, the delay time  $t_{sd}$  must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

### Selection:

Incoming circuit breaker (1)		Incoming circuit breaker IZM91...-V												
		$I_n$ [A]	630	630	630	800	800	800	1000	1000	1000	1250	1250	1250
Outgoing circuit breaker (2)	$I_u$ [A]	$I_{cu2}(415V)$ [KA]	B	N	H	B	N	H	B	N	H	B	N	H
Prospective short circuit current ( $I_{cc\ rms}$ in kA)														
PDC1F(G)(K) (M)-TAA...	16	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	20	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	25	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	32	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	40	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	50	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	63	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	80	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	100	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	125	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	160	25-50	T	T	T	T	T	T	T	T	T	T	T	T
PDC9G(K)(M) -B(D)(E)(P)...	63	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	100	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	160	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC2F(G)(K)(N) -TAA...	90	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	125	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	160	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	200	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	220	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	250	25-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC2G(N)(K) -B(D)(E)(P)...	160	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	200	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	250	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC3F(G)(K)(N) -TAA...	250	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	320	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	400	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	500	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	630	25-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC3G(N)(K) -B(D)(E)(P)...	250	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	400	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	630	36-70	-	-	-	T	T	T	T	T	T	T	T	T
PDC4F(G)(K)(N)- TAA...	800	36-70	-	-	-	-	-	-	T	T	T	T	T	T
PDC4G(N)(K) -B(D)(E)(P)...	800	36-70	-	-	-	-	-	-	T	T	T	T	T	T

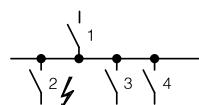
### Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity

Incoming circuit breaker IZM91...-U																	
1600	1600	1600	630	630	630	800	800	800	1000	1000	1000	1250	1250	1250	1600	1600	1600
42	50	65	42	50	65	42	50	65	42	50	65	42	50	65	42	50	65
19200	19200	19200	7560	7560	7560	9600	9600	9600	12000	12000	12000	15000	15000	15000	19200	19200	19200
B	N	H	B	N	H	B	N	H	B	N	H	B	N	H	B	N	H
Prospective short circuit current ( $I_{cc\ rms}$ in kA)																	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
T	T	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T	T	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-

# Power Defense Molded Case Circuit Breaker

## Selective Protection



- $I_n$  Rated operational current
- $I_u$  Rated uninterrupted current
- $I_{cu}$  Rated short-circuit breaking capacity
- $I_s$  Set value non-delayed short-circuit releases

### Selectivity 415 V AC

Between circuit-breakers enables the separate disconnection of faulty system sections. Selectivity exists between incoming circuitbreaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.

Provided that the short-circuit current does not exceed those values specified ( $I_{cc\ rms}$ ).

These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents. On IZM circuit-breakers with V, U releases, the delay time  $t_{sd}$  must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

### Selection:

Incoming circuit breaker (1)		Incoming circuit breaker IZM97...-V												
		$I_n$ [A]	800	800	800	1000	1000	1000	1250	1250	1250	1600	1600	1600
		$I_u$ [KA]	66	85	100	66	85	100	66	85	100	66	85	100
		$I_s$ [A]	11200	11200	11200	14000	14000	14000	17500	17500	17500	19200	19200	19200
Outgoing circuit breaker (2)	$I_u$ [A]	$I_{cu}$ (415V) [KA]	B	N	H	B	N	H	B	N	H	B	N	H
Prospective short circuit current ( $I_{cc\ rms}$ in kA)														
PDC1F(G)(K)(M)-TAA...	16	25-50	T	T	T	T	T	T	T	T	T	T	T	
	20	25-50	T	T	T	T	T	T	T	T	T	T	T	
	25	25-50	T	T	T	T	T	T	T	T	T	T	T	
	32	25-50	T	T	T	T	T	T	T	T	T	T	T	
	40	25-50	T	T	T	T	T	T	T	T	T	T	T	
	50	25-50	T	T	T	T	T	T	T	T	T	T	T	
	63	25-50	T	T	T	T	T	T	T	T	T	T	T	
	80	25-50	T	T	T	T	T	T	T	T	T	T	T	
	100	25-50	T	T	T	T	T	T	T	T	T	T	T	
	125	25-50	T	T	T	T	T	T	T	T	T	T	T	
	160	25-50	T	T	T	T	T	T	T	T	T	T	T	
PDC9G(K)(M)-B(D)(E)(P)...	63	36-70	T	T	T	T	T	T	T	T	T	T	T	
	100	36-70	T	T	T	T	T	T	T	T	T	T	T	
	160	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC2F(G)(K)(N)-TAA...	90	25-70	T	T	T	T	T	T	T	T	T	T	T	
	125	25-70	T	T	T	T	T	T	T	T	T	T	T	
	160	25-70	T	T	T	T	T	T	T	T	T	T	T	
	200	25-70	T	T	T	T	T	T	T	T	T	T	T	
	220	25-70	T	T	T	T	T	T	T	T	T	T	T	
	250	25-70	T	T	T	T	T	T	T	T	T	T	T	
PDC2G(N)(K)-B(D)(E)(P)...	160	36-70	T	T	T	T	T	T	T	T	T	T	T	
	200	36-70	T	T	T	T	T	T	T	T	T	T	T	
	250	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC3F(G)(K)(N)-TAA...	250	25-70	T	T	T	T	T	T	T	T	T	T	T	
	320	25-70	T	T	T	T	T	T	T	T	T	T	T	
	400	25-70	T	T	T	T	T	T	T	T	T	T	T	
	500	25-70	T	T	T	T	T	T	T	T	T	T	T	
	630	25-70	T	T	T	T	T	T	T	T	T	T	T	
PDC3G(N)(K)-B(D)(E)(P)...	250	36-70	T	T	T	T	T	T	T	T	T	T	T	
	400	36-70	T	T	T	T	T	T	T	T	T	T	T	
	630	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC4F(G)(K)(N)-TAA...	800	36-70	-	-	-	T	T	T	T	T	T	T	T	
PDC3G(N)(K)	800	36-70	-	-	-	T	T	T	T	T	T	T	T	

**Notes** B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity

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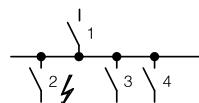
Incoming circuit breaker IZM97...-V

2000	2000	2000	2500	2500	2500	3200	3200	3200
66	85	100	66	85	100	66	85	100
24000	24000	24000	30000	30000	30000	32000	32000	32000
B	N	H	B	N	H	B	N	H

### Prospective short circuit current ( $I_{cc\ rms}$ in kA)

# Power Defense Molded Case Circuit Breaker

## Selective Protection



- $I_n$  Rated operational current
- $I_u$  Rated uninterrupted current
- $I_{cu}$  Rated short-circuit breaking capacity
- $I_s$  Set value non-delayed short-circuit releases

### Selectivity 415 V AC

Between circuit-breakers enables the separate disconnection of faulty system sections. Selectivity exists between incoming circuitbreaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.

Provided that the short-circuit current does not exceed those values specified ( $I_{cc\ rms}$ ).

These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents. On IZM circuit-breakers with V, U releases, the delay time  $t_{sd}$  must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

### Selection:

Incoming circuit breaker (1)		Incoming circuit breaker IZM97...-U												
		$I_n$ [A]	800	800	800	1000	1000	1000	1250	1250	1250	1600	1600	1600
		$I_u$ [KA]	66	85	100	66	85	100	66	85	100	66	85	100
		$I_{cu}$ [A]	11200	11200	11200	14000	14000	14000	17500	17500	17500	19200	19200	19200
Outgoing circuit breaker (2)	$I_u$ [A]	$I_{cu2}(415V)$ [KA]	B	N	H	B	N	H	B	N	H	B	N	H
Prospective short circuit current ( $I_{cc\ rms}$ in kA)														
PDC1F(G)(K)(M)-TAA...	16	25-50	T	T	T	T	T	T	T	T	T	T	T	
	20	25-50	T	T	T	T	T	T	T	T	T	T	T	
	25	25-50	T	T	T	T	T	T	T	T	T	T	T	
	32	25-50	T	T	T	T	T	T	T	T	T	T	T	
	40	25-50	T	T	T	T	T	T	T	T	T	T	T	
	50	25-50	T	T	T	T	T	T	T	T	T	T	T	
	63	25-50	T	T	T	T	T	T	T	T	T	T	T	
	80	25-50	T	T	T	T	T	T	T	T	T	T	T	
	100	25-50	T	T	T	T	T	T	T	T	T	T	T	
	125	25-50	T	T	T	T	T	T	T	T	T	T	T	
	160	25-50	T	T	T	T	T	T	T	T	T	T	T	
PDC9G(K)(M)-B(D)(E)(P)...	63	36-70	T	T	T	T	T	T	T	T	T	T	T	
	100	36-70	T	T	T	T	T	T	T	T	T	T	T	
	160	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC2F(G)(K)(N)-TAA...	90	25-70	T	T	T	T	T	T	T	T	T	T	T	
	125	25-70	T	T	T	T	T	T	T	T	T	T	T	
	160	25-70	T	T	T	T	T	T	T	T	T	T	T	
	200	25-70	T	T	T	T	T	T	T	T	T	T	T	
	220	25-70	T	T	T	T	T	T	T	T	T	T	T	
	250	25-70	T	T	T	T	T	T	T	T	T	T	T	
PDC2G(N)(K)-B(D)(E)(P)...	160	36-70	T	T	T	T	T	T	T	T	T	T	T	
	200	36-70	T	T	T	T	T	T	T	T	T	T	T	
	250	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC3F(G)(K)(N)-TAA...	250	25-70	T	T	T	T	T	T	T	T	T	T	T	
	320	25-70	T	T	T	T	T	T	T	T	T	T	T	
	400	25-70	T	T	T	T	T	T	T	T	T	T	T	
	500	25-70	T	T	T	T	T	T	T	T	T	T	T	
	630	25-70	T	T	T	T	T	T	T	T	T	T	T	
PDC3G(N)(K)-B(D)(E)(P)...	250	36-70	T	T	T	T	T	T	T	T	T	T	T	
	400	36-70	T	T	T	T	T	T	T	T	T	T	T	
	630	36-70	T	T	T	T	T	T	T	T	T	T	T	
PDC4F(G)(K)(N)-TAA...	800	36-70	-	-	-	T	T	T	T	T	T	T	T	
PDC3G(N)(K)-B(D)(E)(P)...	800	36-70	-	-	-	T	T	T	T	T	T	T	T	

### Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity

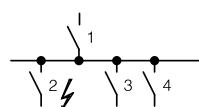
#### **Incoming circuit breaker IZM97...-U**

2000	2000	2000	2500	2500	2500	3200	3200	3200
66	85	100	66	85	100	66	85	100
24000	24000	24000	30000	30000	30000	32000	32000	32000
B	N	H	B	N	H	B	N	H

### Prospective short circuit current ( $I_{CC\ rms}$ in kA)

# Power Defense Molded Case Circuit Breaker

## Selective Protection



- $I_n$  Rated operational current
- $I_u$  Rated uninterrupted current
- $I_{cu}$  Rated short-circuit breaking capacity
- $I_l$  Set value non-delayed short-circuit releases

### Selectivity 415 V AC

Between circuit-breakers enables the separate disconnection of faulty system sections. Selectivity exists between incoming circuitbreaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.

Provided that the short-circuit current does not exceed those values specified ( $I_{cc\ rms}$ ).

These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents. On IZM circuit-breakers with V, U releases, the delay time  $t_{sd}$  must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

### Selection:

Incoming circuit breaker (1)		IZM99...-V						IZM99...-U						
		$I_n$ [A]	4000	4000	5000	5000	6300	6300	4000	4000	5000	5000	6300	6300
Outgoing circuit breaker (2)	$I_u$ [A]	$I_{cu}$ (415V) [KA]	N	H	N	H	N	H	N	H	N	H	N	H
Prospective short circuit current ( $I_{cc\ rms}$ in kA)														
PDC1F(G)(K)(M)-TAA...	16	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	20	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	25	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	32	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	40	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	50	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	63	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	80	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	100	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	125	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	160	25-50	T	T	T	T	T	T	T	T	T	T	T	T
PDC9G(K)(M)-B(D)(E)(P)...	63	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	100	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	160	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC2F(G)(K)(N)-TAA...	90	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	125	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	160	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	200	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	220	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	250	25-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC2G(N)(K)-B(D)(E)(P)...	160	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	200	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	250	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC3F(G)(K)(N)-TAA...	250	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	320	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	400	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	500	25-70	T	T	T	T	T	T	T	T	T	T	T	T
	630	25-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC3G(N)(K)-B(D)(E)(P)...	250	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	400	36-70	T	T	T	T	T	T	T	T	T	T	T	T
	630	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC4F(G)(K)(N)-TAA...	800	36-70	T	T	T	T	T	T	T	T	T	T	T	T
PDC3G(N)(K)-B(D)(E)(P)...	800	36-70	T	T	T	T	T	T	T	T	T	T	T	T

### Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity



# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Upstream	PDC1 $I_n = \dots 160\text{ A}$				PDC2 A-A TMTU $I_n = \dots 250\text{ A}$				PDC2 PXR $I_n = \dots 250\text{ A}$					
	$I_{cu}(415\text{ V})$	25kA	36kA	50kA	70kA	25kA	36kA	50kA	70kA	25kA	36kA	50kA	70kA	
Downstream	$I_{cu}(415\text{ V}) [\text{kA}]$	$I_n [\text{A}]$												
PDC1	25	...160	25	36	50	70	25	36	50	70	25	36	50	70
PDC1	36	...160	-	36	50	70	-	36	50	70	-	36	50	70
PDC1	50	...160	-	-	50	70	-	-	50	70	-	-	50	70
PDC1	70	...160	-	-	-	70	-	-	-	70	-	-	-	70
PDC2 A-A	25	...250	-	36	50	70	25	36	50	70	25	36	50	70
PDC2 A-A	36	...250	-	-	50	70	-	36	50	70	-	36	50	70
PDC2 A-A	50	...250	-	-	-	70	-	-	50	70	-	-	50	70
PDC2 A-A	70	...250	-	-	-	-	-	-	-	70	-	-	-	70
PDC2 PXR	25	...250	-	36	50	70	25	36	50	70	25	36	50	70
PDC2 PXR	36	...250	-	-	50	70	-	36	50	70	-	36	50	70
PDC2 PXR	50	...250	-	-	-	70	-	-	50	70	-	-	50	70
PDC2 PXR	70	...250	-	-	-	-	-	-	-	70	-	-	-	70
PDC3 A-A	25	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 A-A	36	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 A-A	50	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 A-A	70	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 PXR	25	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 PXR	36	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 PXR	50	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC3 PXR	70	...630	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 A-A	36	...800	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 A-A	50	...800	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 A-A	70	...800	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 PXR	36	...800	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 PXR	50	...800	-	-	-	-	-	-	-	-	-	-	-	-
PDC4 PXR	70	...800	-	-	-	-	-	-	-	-	-	-	-	-

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

PDC3 A-A TMTU $I_n = \dots 630\text{ A}$				PDC3 PXR $I_n = \dots 630\text{ A}$				PDC4 A-A TMTU $I_n = \dots 800\text{ A}$				PDC4 PXR $I_n = \dots 800\text{ A}$				
25kA	36kA	50kA	70kA	25kA	36kA	50kA	70kA	36kA	50kA	70kA	36kA	50kA	70kA	36kA	50kA	70kA
25	27	27	27	25	36	40	40	36	38	38	36	38	38			
-	36	39	39	-	36	40	40	36	38	38	36	38	38			
-	-	50	57	-	-	50	70	-	50	70	-	50	70			
-	-	-	70	-	-	-	70	-	-	70	-	-	70			
25	28	28	28	25	36	44	44	36	50	70	36	50	70			
-	36	44	44	-	36	44	44	36	50	70	36	50	70			
-	-	50	63	-	-	50	70	-	50	70	-	50	70			
-	-	-	70	-	-	-	70	-	-	70	-	-	70			
25	28	28	28	25	36	45	45	36	50	70	36	50	70			
-	36	44	44	-	36	45	45	36	50	70	36	50	70			
-	-	50	63	-	-	50	70	-	50	70	-	50	70			
-	-	-	70	-	-	-	70	-	-	70	-	-	70			
25	36	50	70	25	36	50	70	36	50	55	36	50	55			
-	36	50	70	-	36	50	70	36	50	55	36	50	55			
-	-	50	70	-	-	50	70	-	50	70	-	50	70			
-	-	-	70	-	-	-	70	-	-	70	-	-	70			
25	36	50	70	25	36	50	70	36	50	55	36	50	55			
-	36	50	70	-	36	50	70	36	50	55	36	50	55			
-	-	50	70	-	-	50	70	-	50	70	-	50	70			
-	-	-	70	-	-	-	70	-	-	70	-	-	70			
-	-	-	-	-	-	-	-	36	50	70	36	50	70			
-	-	-	-	-	-	-	-	-	50	70	-	50	70			
-	-	-	-	-	-	-	-	-	-	70	-	-	70			
-	-	-	-	-	-	-	-	36	50	70	36	50	70			
-	-	-	-	-	-	-	-	-	50	70	-	50	70			
-	-	-	-	-	-	-	-	-	-	70	-	-	70			

# Power Defense Molded Case Circuit Breaker

## Selective Protection

### Selective Protection

Downstream	Upstream $I_{cu}$ (415 V)	PDC1F(G)(K)(M) $U_e = 230/400$ V		PDC1F(G)(K)(M) $U_e = 240/415$ V				
		$I_n$ [A]	Type B, C	Type D	Type K	Type B	Type C	Type D
FAZ	0.16	25	25		-	25	-	
All types with characteristic B, C, D	0.25	25	25		-	25	-	
	0.5	25	25		-	25	25	
	0.75	25	25		-	25	-	
	1	25	25		25	25	25	
	1.5	25	25		25	25	25	
	1.6	25	25		25	25	25	
	2	25	25		25	25	25	
	2.5	25	25		25	25	25	
	3	25	25		25	25	25	
	3.5	25	25		25	25	25	
	4	25	25		25	25	25	
	5	25	25		25	25	25	
	6	25	25		25	25	25	
	7	25	25		25	25	25	
	8	25	25		25	25	25	
	10	25	25		25	25	25	
	12	25	25		25	25	25	
	13	25	25		25	25	25	
	15	25	25		25	25	25	
	16	25	25		25	25	25	
	20	20	25		25	25	25	
	25	20	25		25	25	25	
	30	20	15		20	20	15	
	32	20	15		20	20	15	
	40	20	15		20	20	15	
	50	15	15		15	15	15	
	63	15	15		15	15	15	
FAZ	0.5		25			25		
All types with characteristic K	1		25			25		
	1.6		25			25		
	2		25			25		
	3		25			25		
	4		25			25		
	6		25			25		
	8		25			25		
	10		25			25		
	13		25			25		
	16		25			25		
	20		25			25		
	25		25			25		
	32		20			20		
	40		20			20		
	50		15			15		
	63		15			15		

**Power Defense Molded Case Circuit Breaker**  
Selective Protection

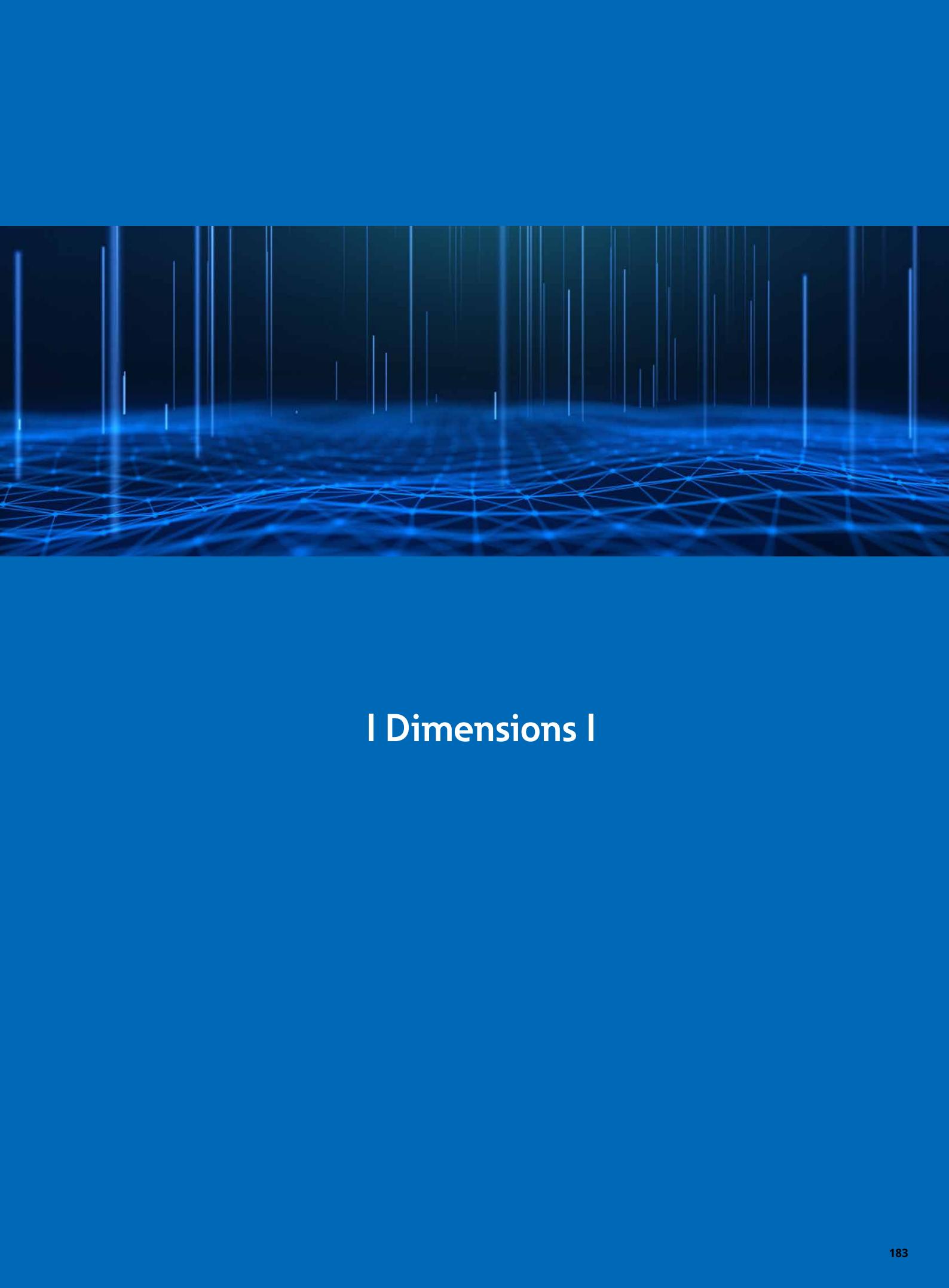
**PDC2F(G)(K)(M)(N)**  
 $U_e = 230/400 \text{ V}$

**PDC2F(G)(K)(M)(N)**  
 $U_e = 240/415 \text{ V}$

**PDC2F(G)(K)(M)(N)**  
 $U_e = 133/230 \text{ V}$

Type B, C	Type D	Type K	Type B	Type C	Type D	Type K	Type B, C
25	25		-	20	-		30
25	25		-	20	-		30
25	25		-	20	25		30
25	25		-	20	-		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
25	25		20	20	25		30
20	25		20	20	25		25
20	25		20	20	25		25
20	25		20	20	25		25
20	25		20	20	25		25
20	25		20	20	25		25
20	15		20	20	15		25
20	15		20	20	15		25
20	15		20	20	15		25
15	15		20	20	15		20
15	10		15	15	10		20
15	10		15	15	10		20
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			20			20	
			15			15	
			15			15	



The background of the slide features a dark blue gradient. Overlaid on this are numerous thin, vertical white lines of varying heights, creating a sense of depth and perspective. In the foreground, there is a low-poly wireframe mesh, also colored in shades of blue, which appears to be a floor or a base layer for the background.

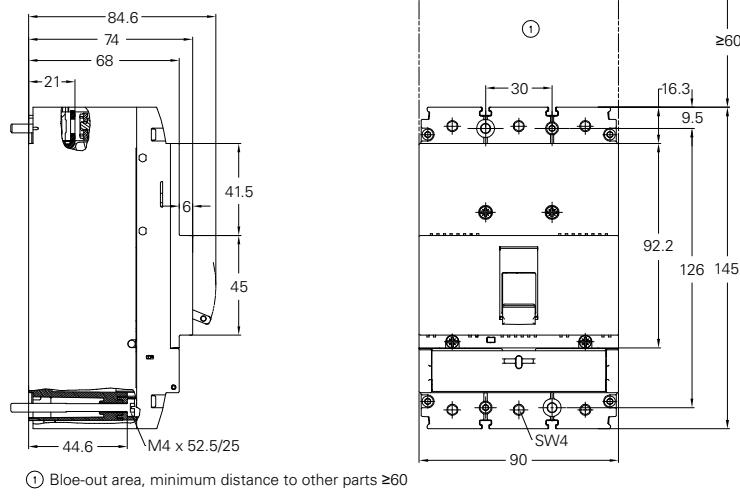
# I Dimensions I

# Power Defense Molded Case Circuit Breaker

## Dimensions

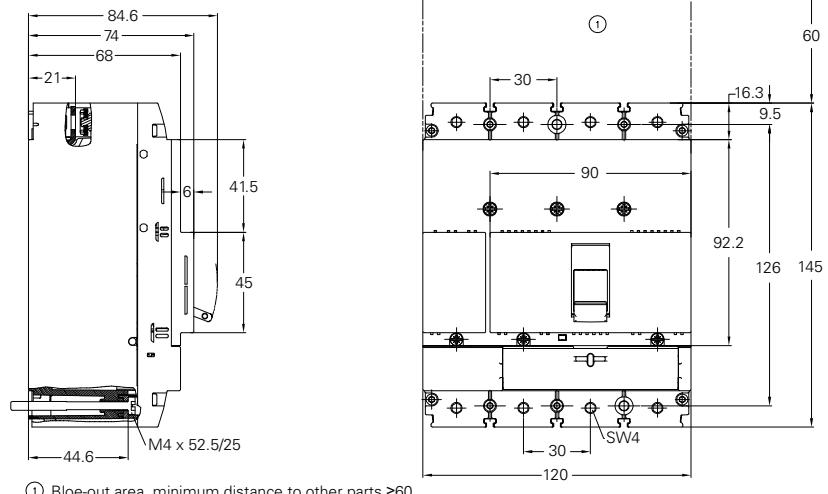
### Basic Device of Circuit Breaker

#### PDC1 circuit breaker, 3P



① Blow-out area, minimum distance to other parts ≥60

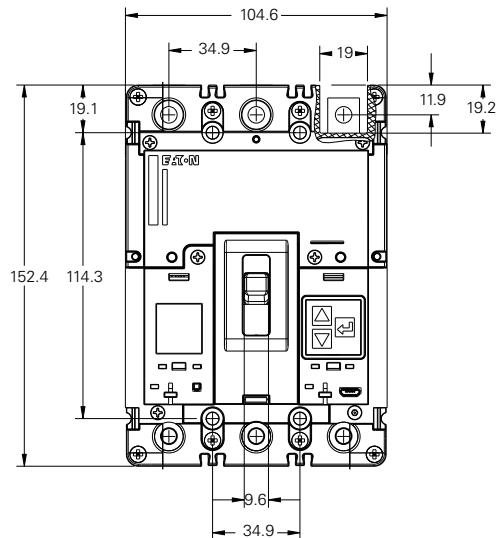
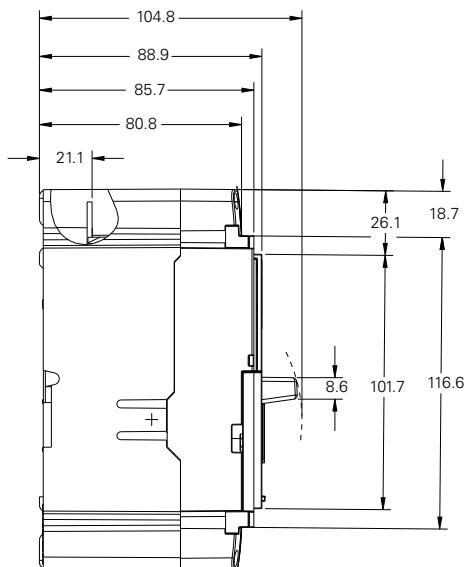
#### PDC1 circuit breaker, 4P



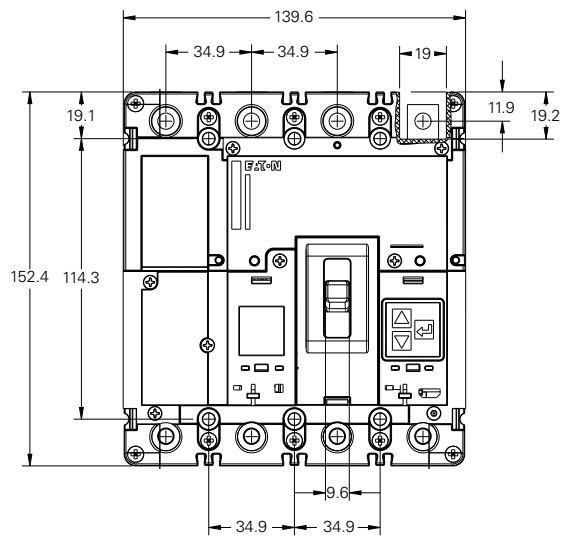
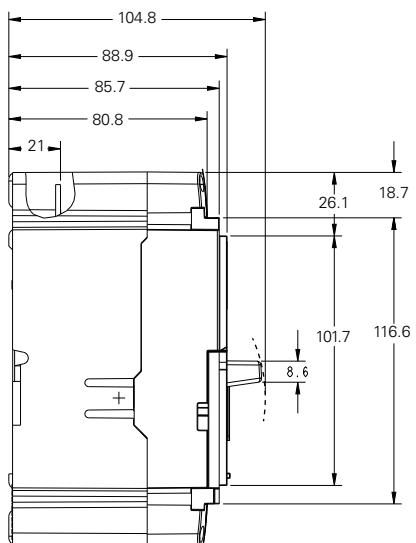
① Blow-out area, minimum distance to other parts ≥60

**Basic Device of Circuit Breaker**

**PDC9 circuit breaker, 3P**



**PDC9 circuit breaker, 4P**

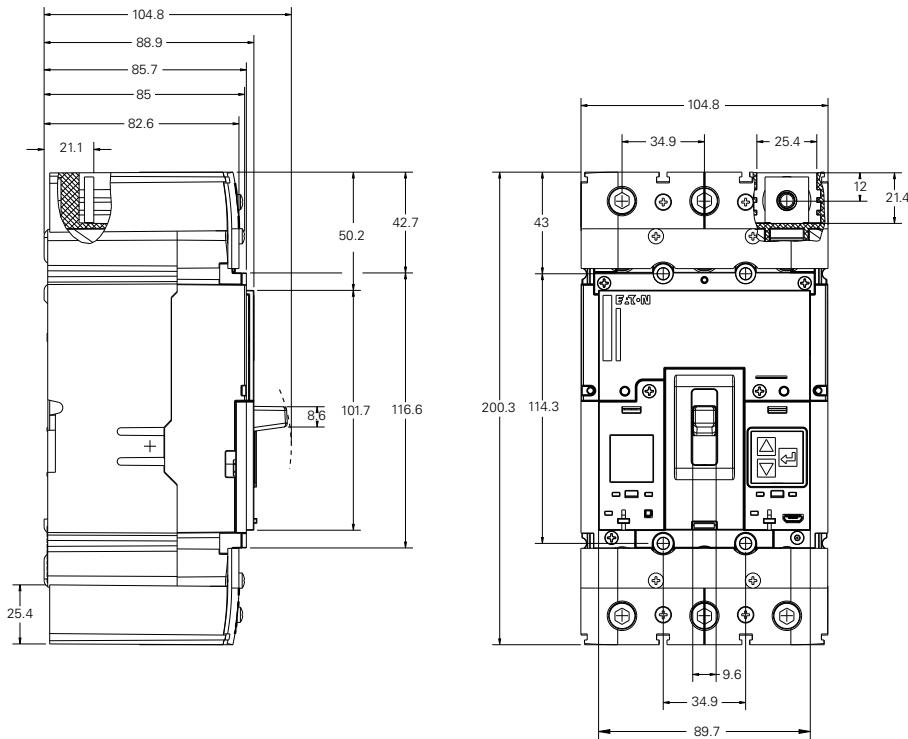


# Power Defense Molded Case Circuit Breaker

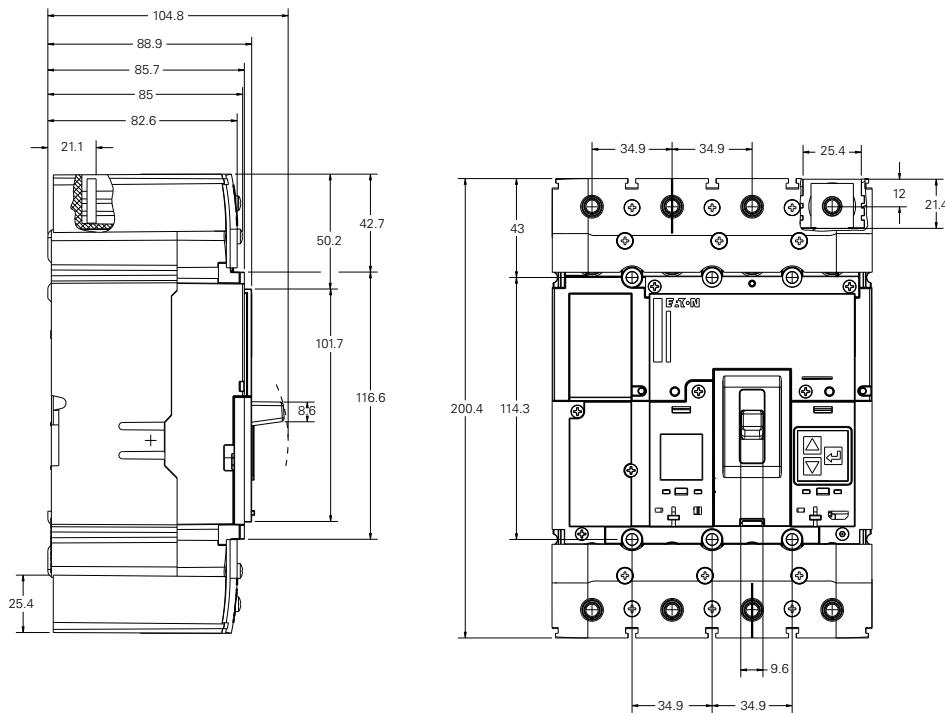
## Dimensions

### Basic Device of Circuit Breaker

PDC2 circuit breaker, 3P

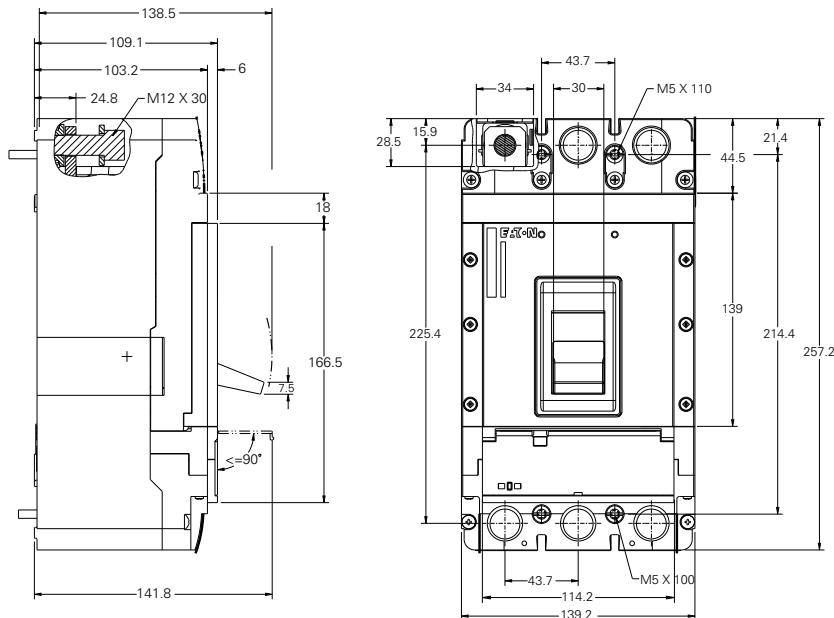


PDC2 circuit breaker, 4P

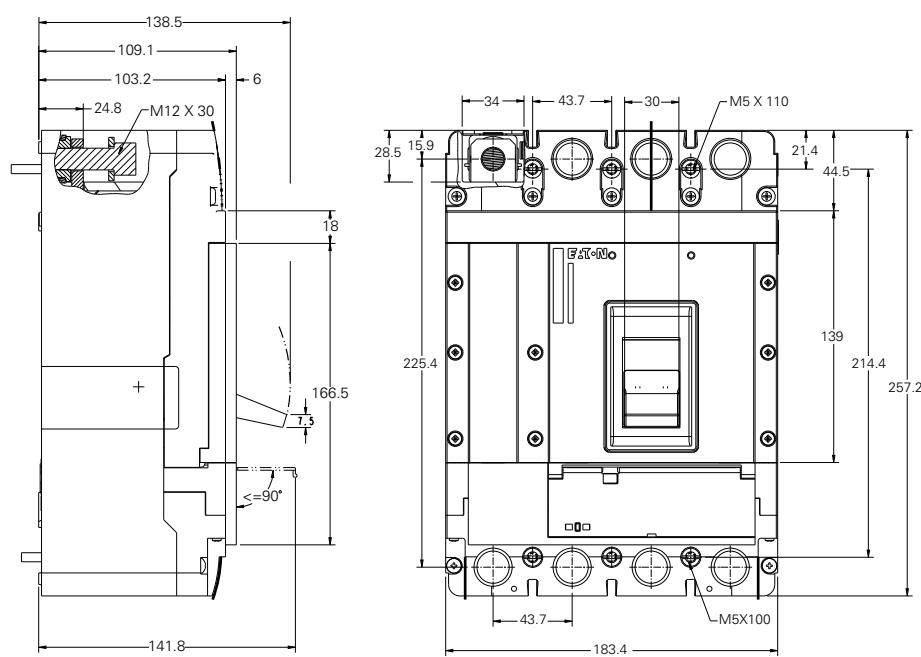


### Basic Device of Circuit Breaker

#### PDC3 circuit breaker, 3P



#### PDC3 circuit breaker, 4P

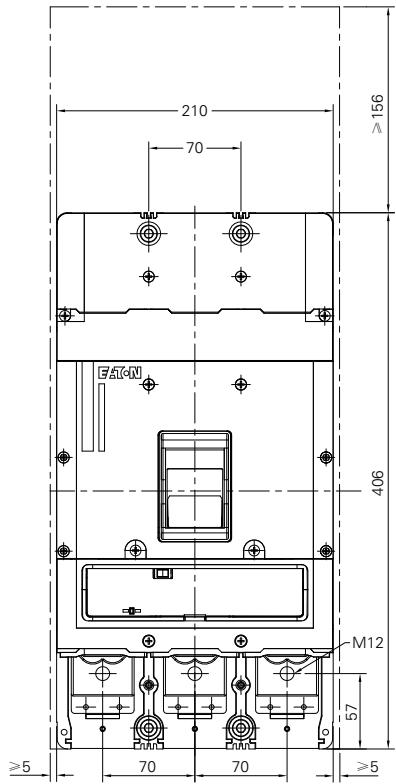
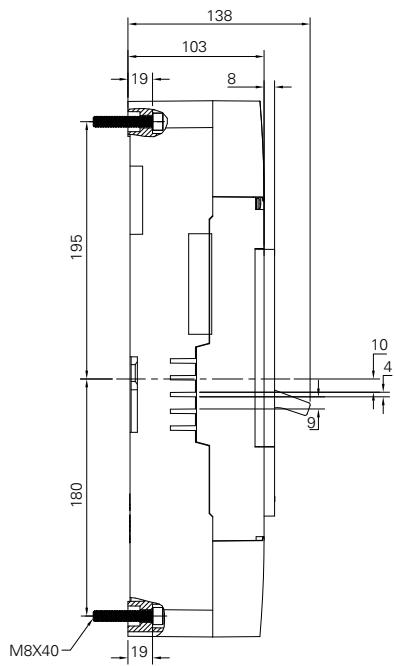


# Power Defense Molded Case Circuit Breaker

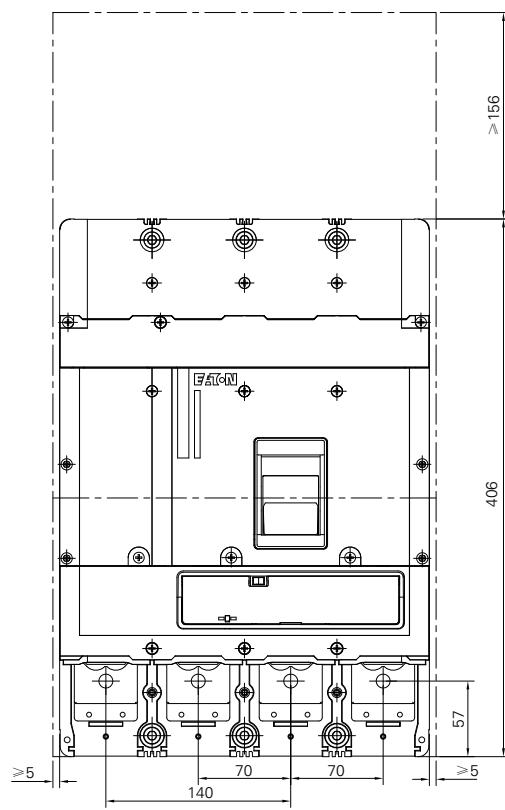
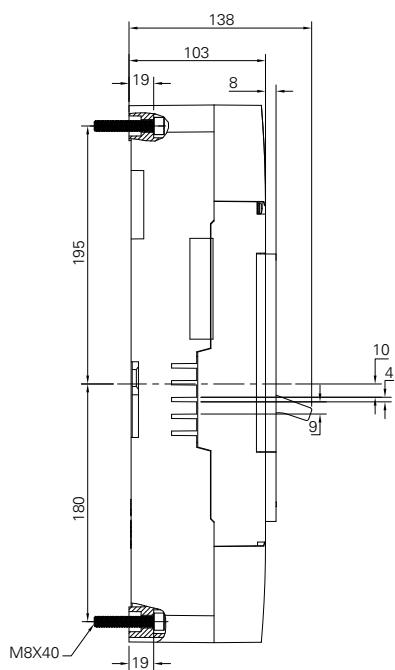
## Dimensions

### Basic Device of Circuit Breaker

#### PDC4 circuit breaker, 3P



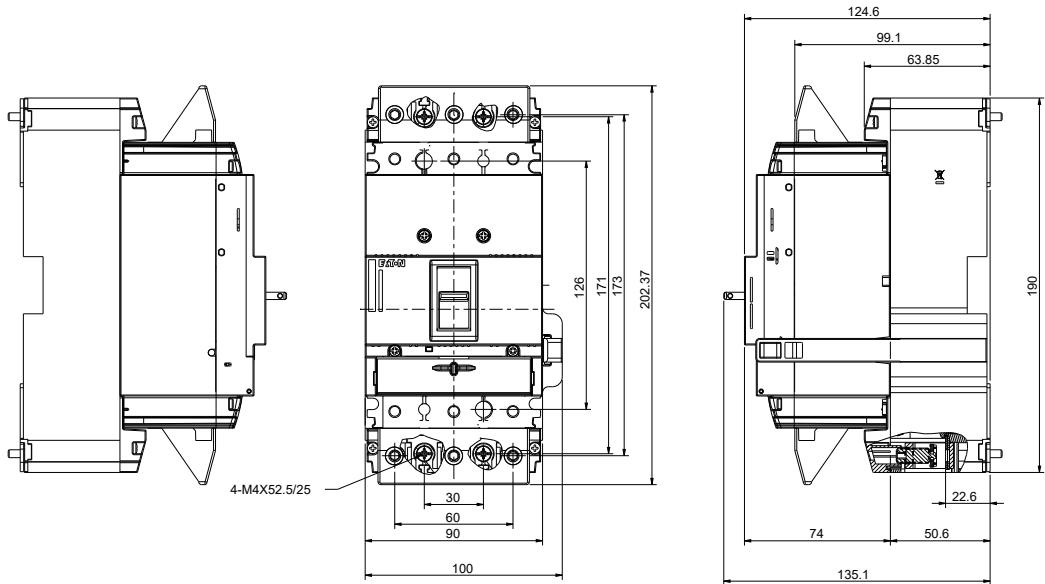
#### PDC4 circuit breaker, 4P



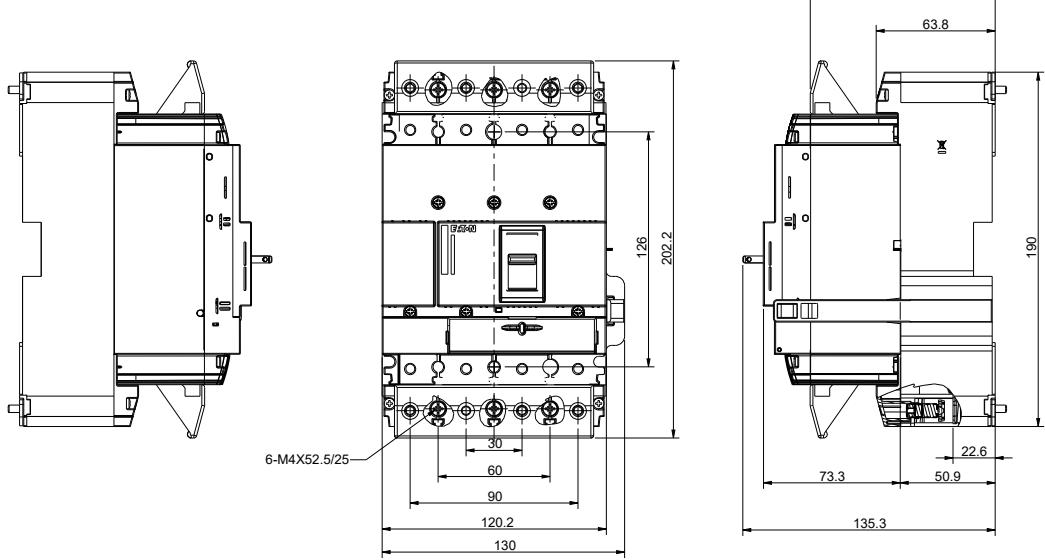
**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Plug in one**

**PDC1, 3P**



**PDC1, 4P**

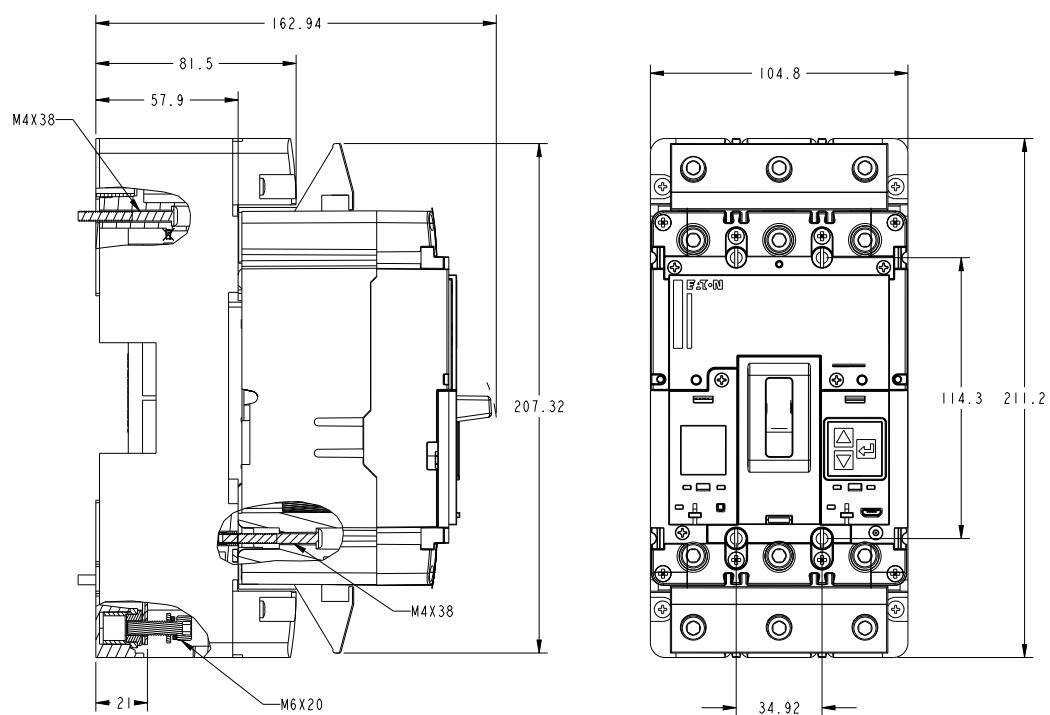


## Power Defense Molded Case Circuit Breaker

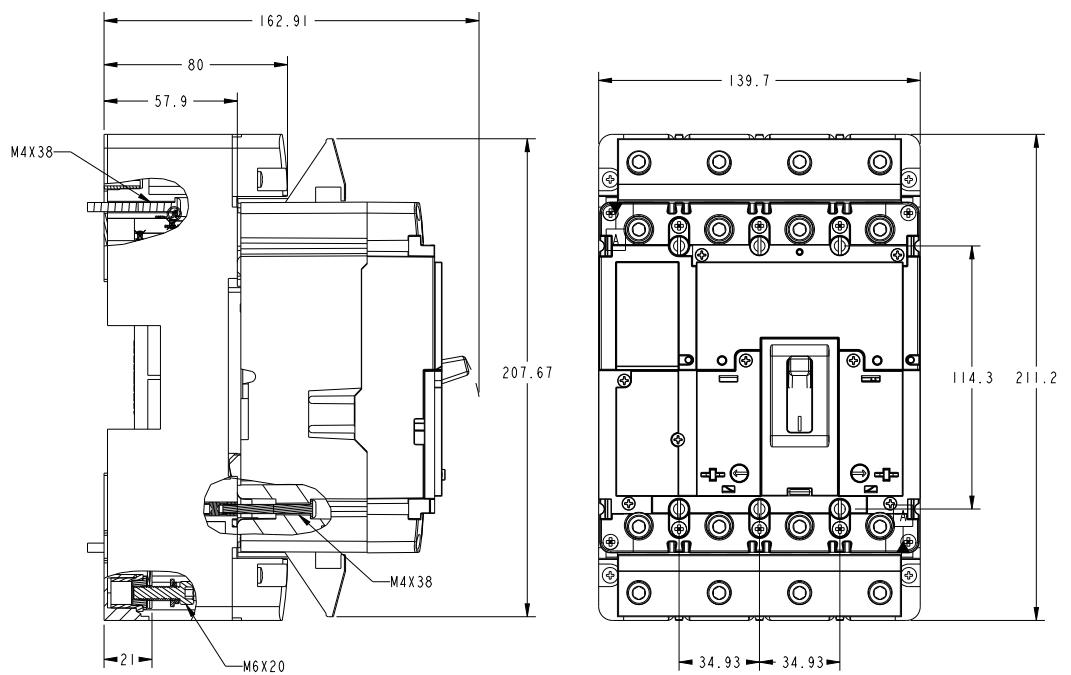
### Dimensions

#### Plug in one

##### PDC9, 3P

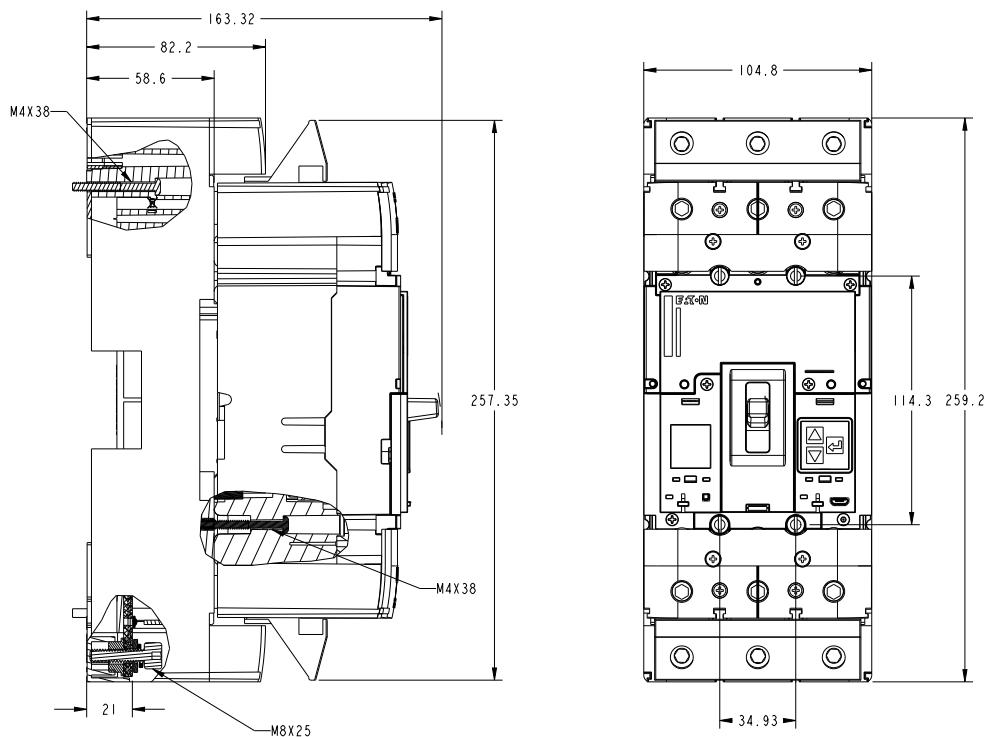


##### PDC9, 4P

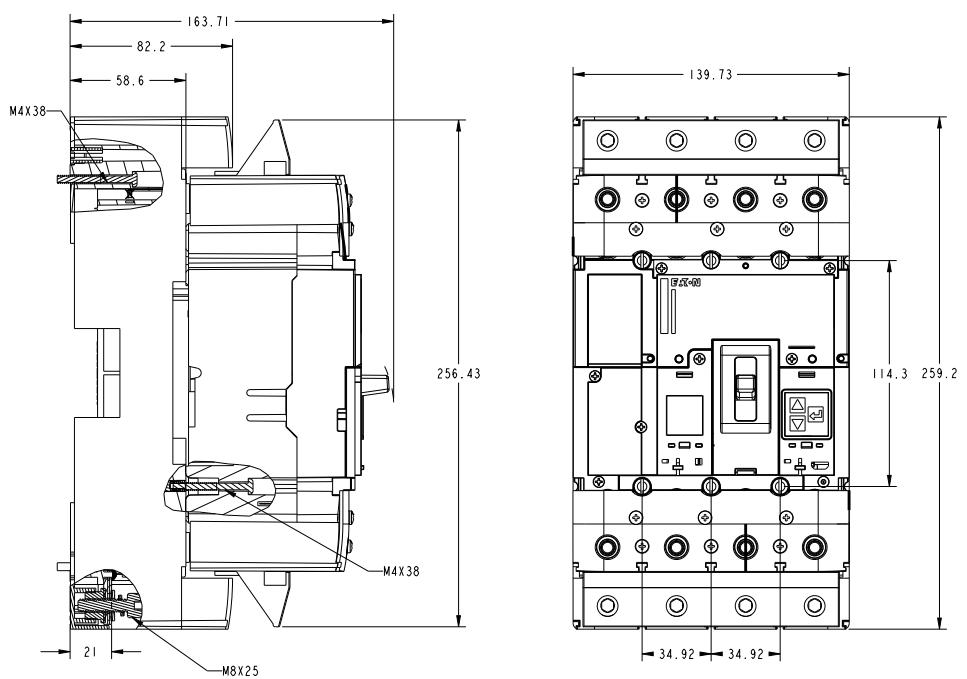


**Plug in one**

**PDC2, 3P**



**PDC2, 4P**

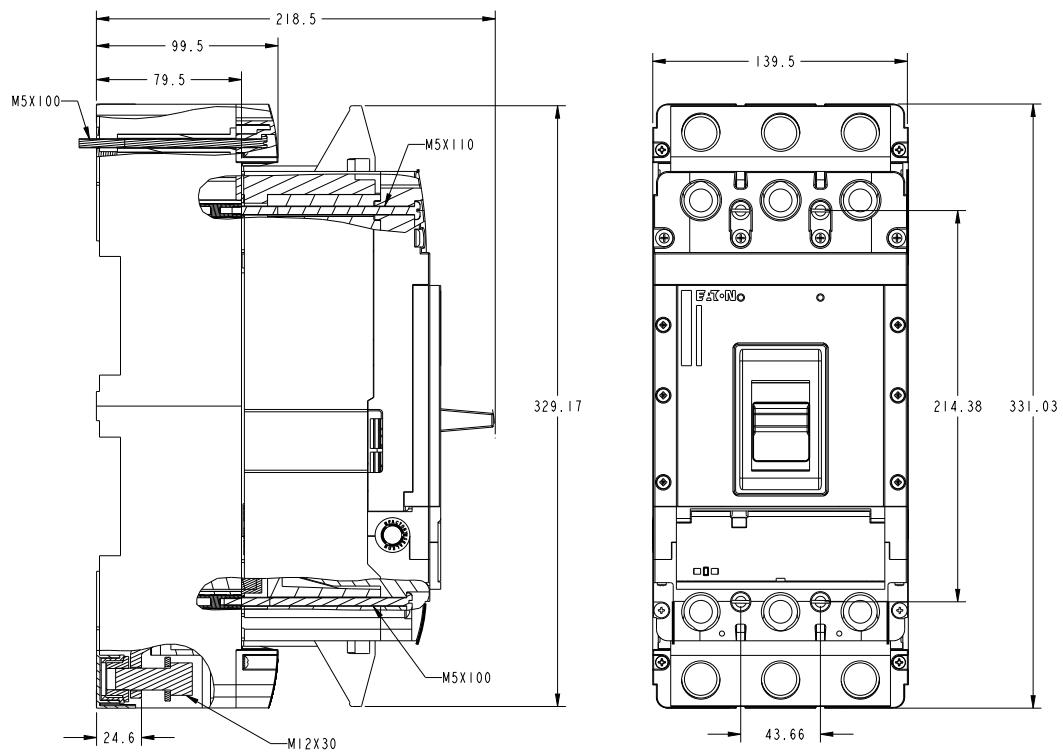


# Power Defense Molded Case Circuit Breaker

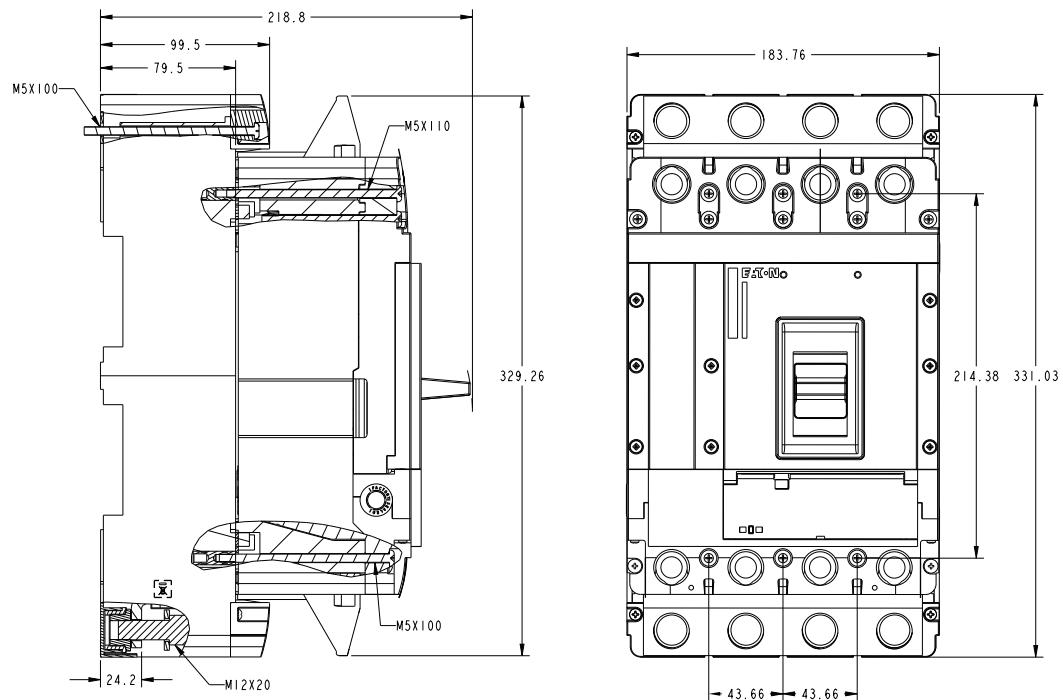
## Dimensions

### Plug in one

#### PDC3, 3P

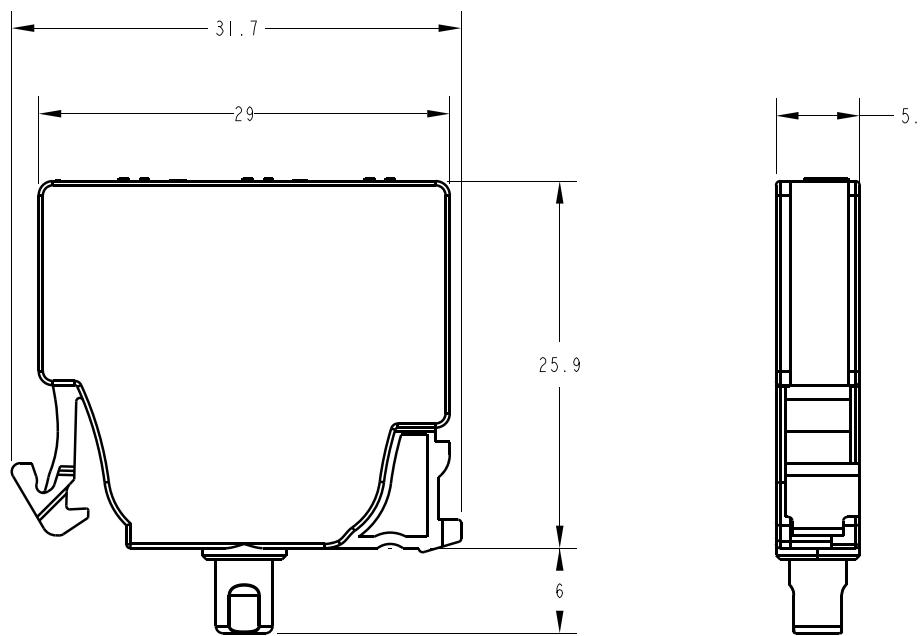


#### PDC3, 4P



**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Aux/Alarm**

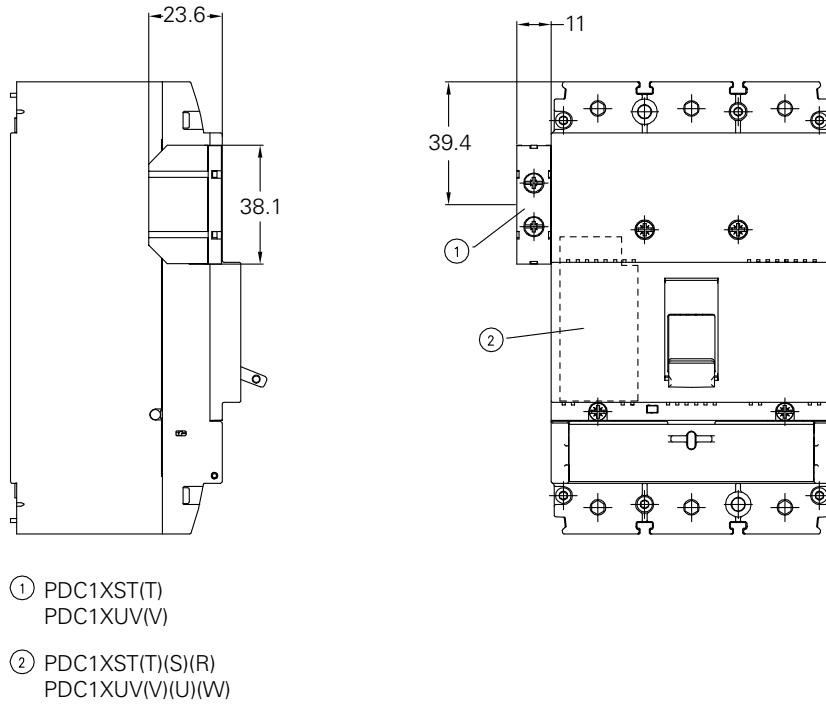


# Power Defense Molded Case Circuit Breaker

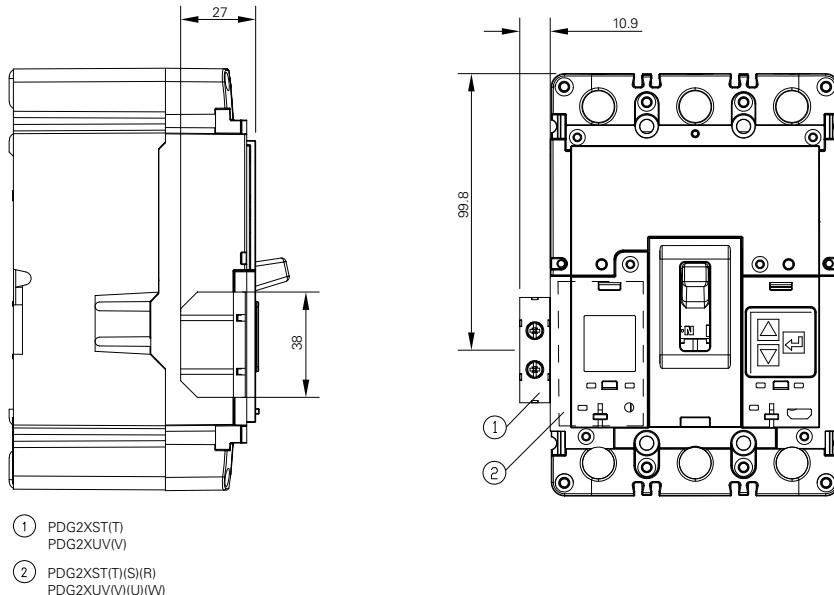
## Dimensions

### Shunt Release/Undervoltage Release

**PDC1**

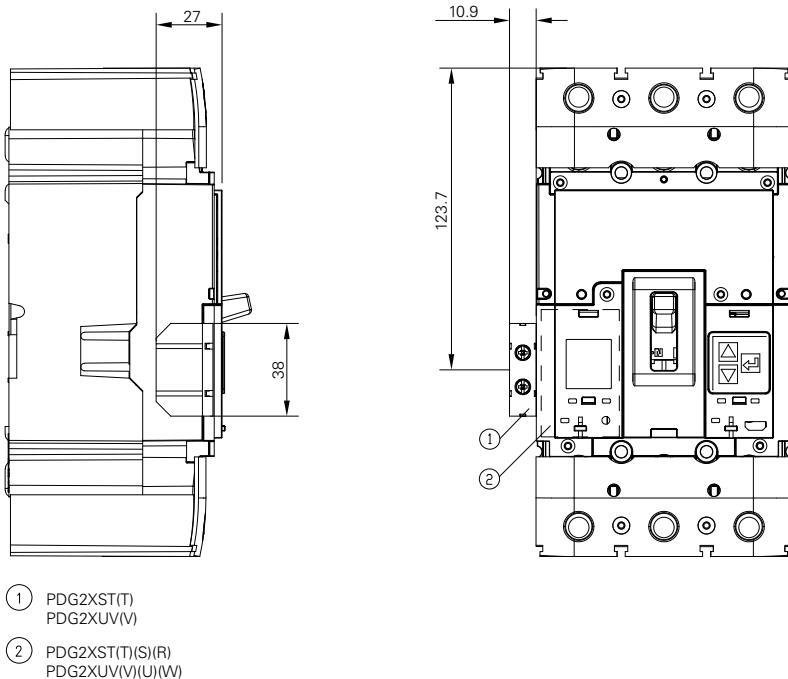


**PDC9**



**Shunt Release/Undervoltage Release**

**PDC2**



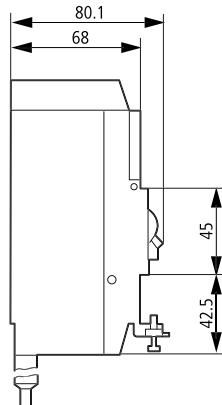
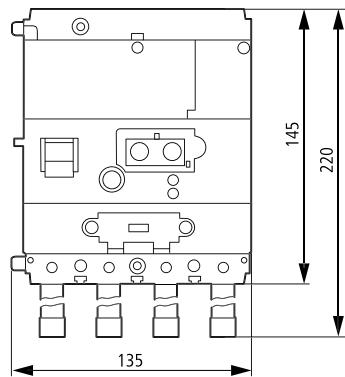
# Power Defense Molded Case Circuit Breaker

## Dimensions

### Residual Current Device (RCD)

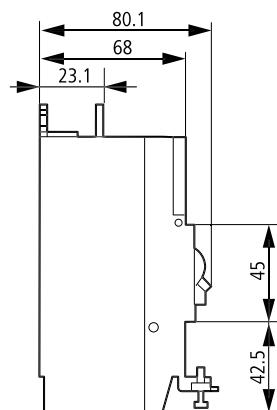
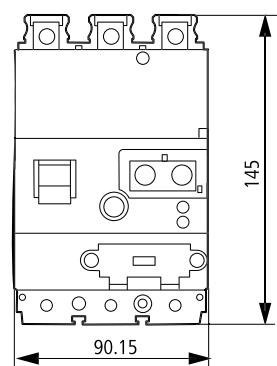
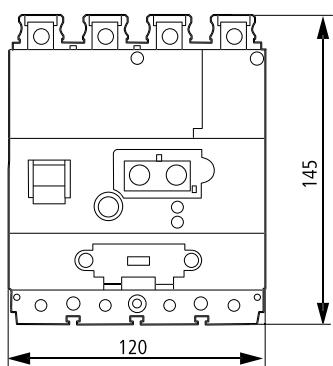
Right mounting

PDC1



Bottom mounting

PDC1

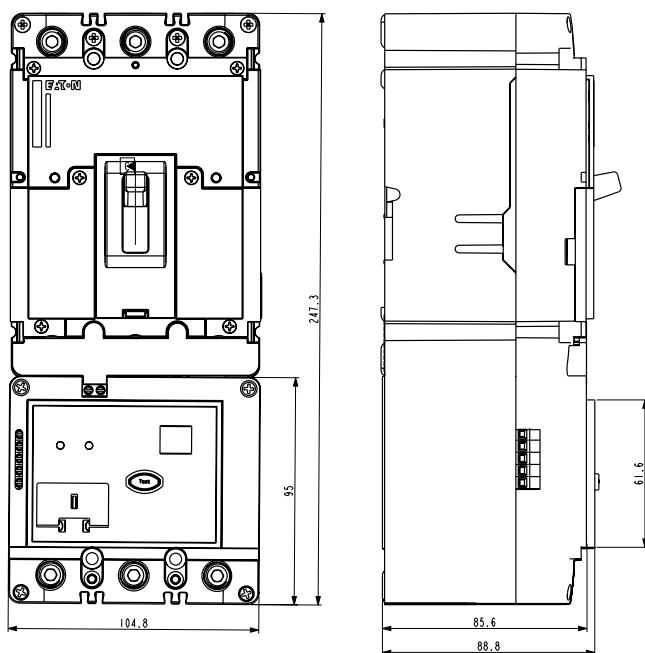


**Power Defense Molded Case Circuit Breaker**  
Dimensions

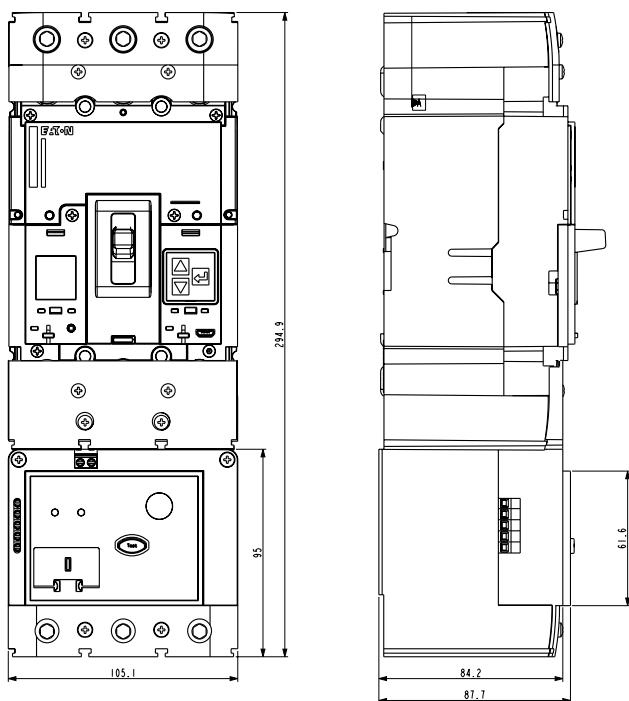
**Residual Current Device (RCD)**

**Bottom mounting**

**PDC9**



**PDC2**



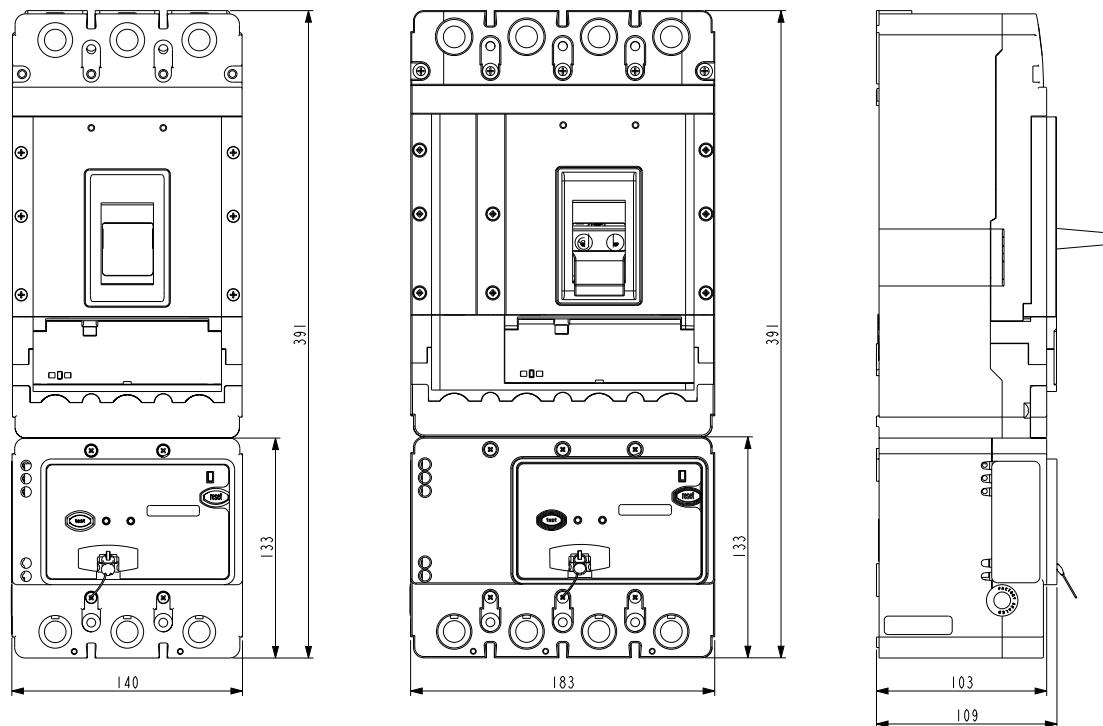
# Power Defense Molded Case Circuit Breaker

## Dimensions

### Residual Current Device (RCD)

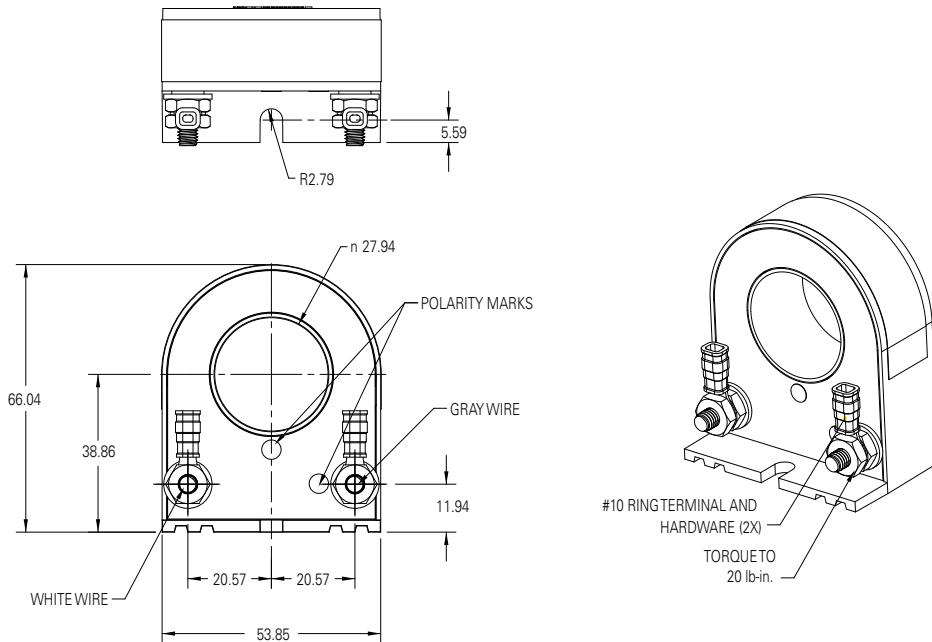
Bottom mounting

PDC3

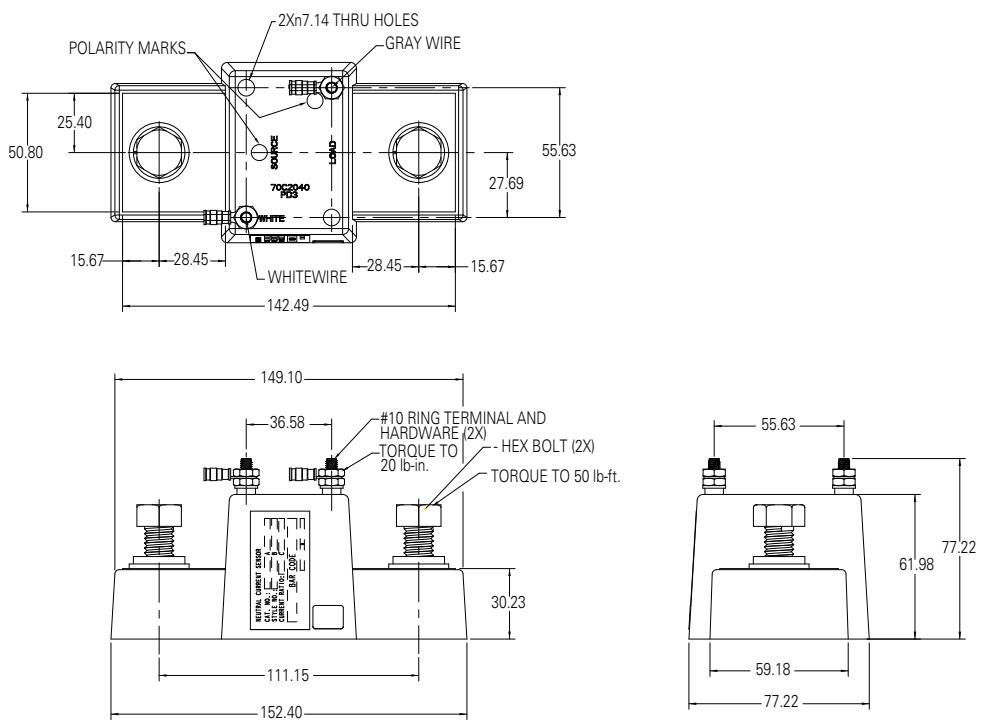


### Neutral Current Transformers

Cable type, suitable for PDC2



Busbar type, suitable for PDC2, 3 and 4

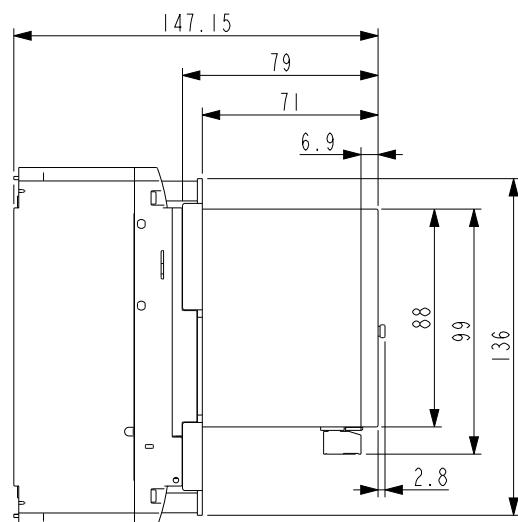
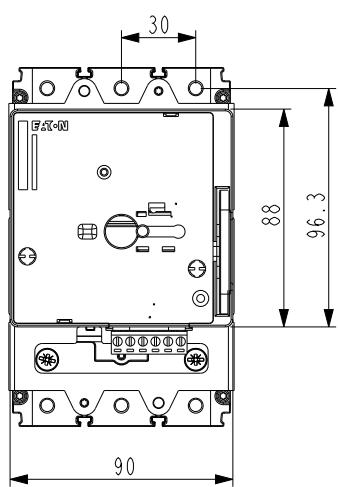


# Power Defense Molded Case Circuit Breaker

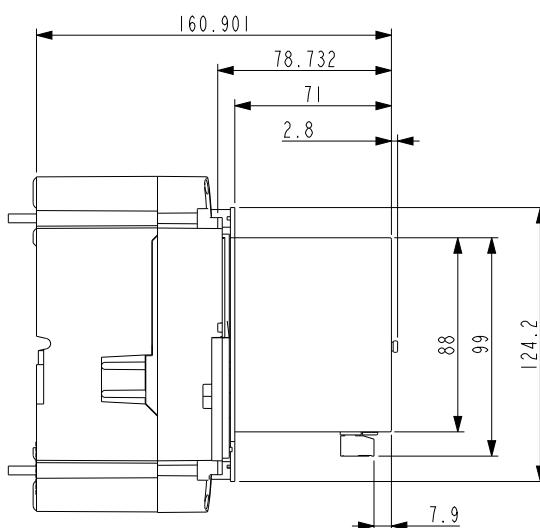
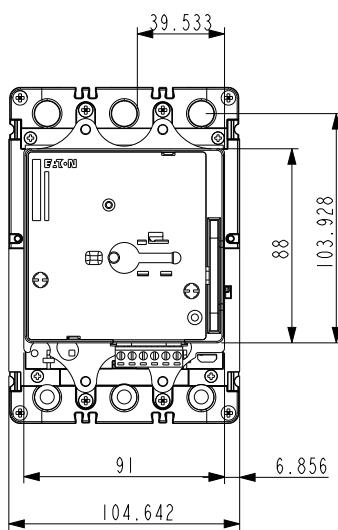
## Dimensions

### Remote operator - Non-energized

PDC1



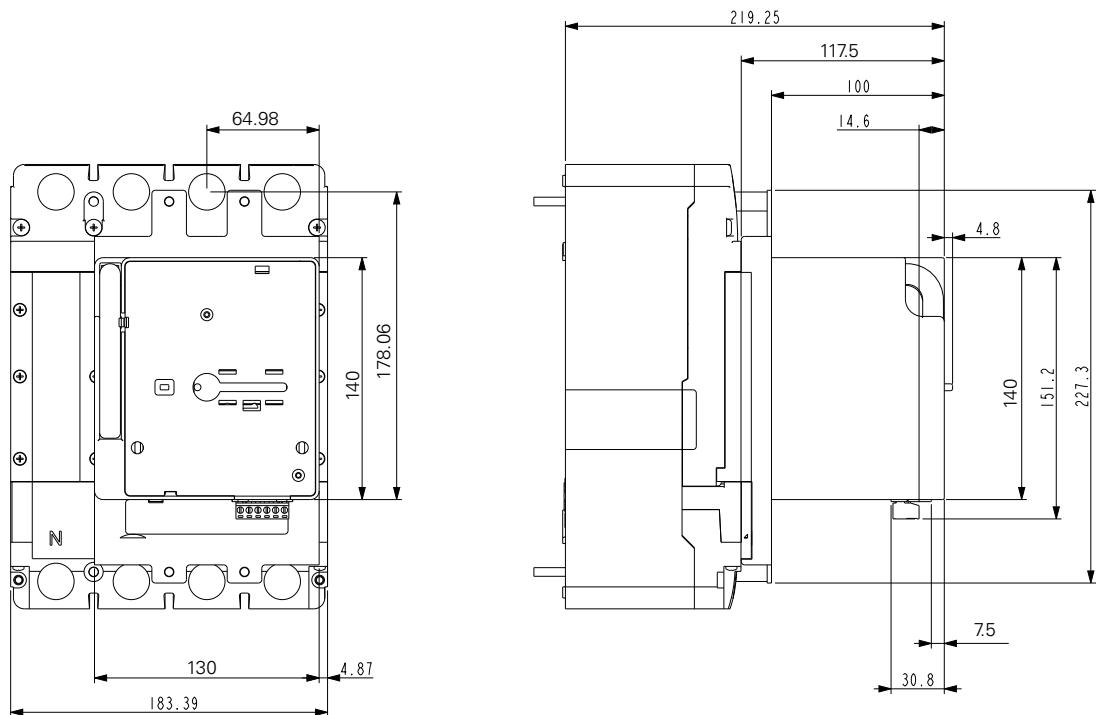
PDC2



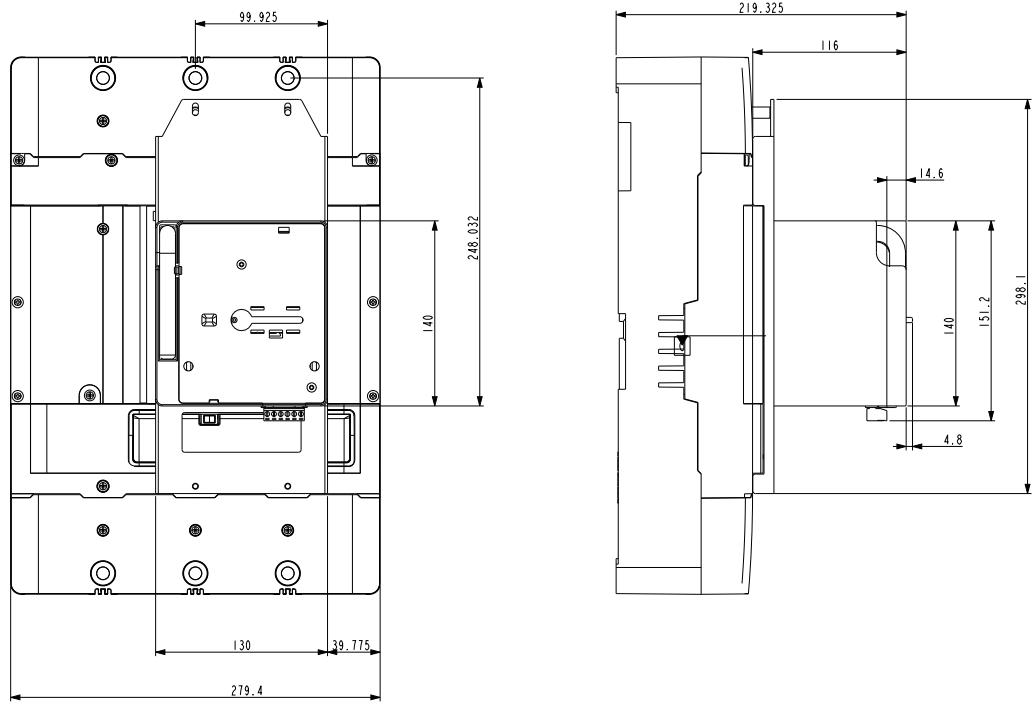
**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Remote operator - Non-energized**

**PDC3**



**PDC4**

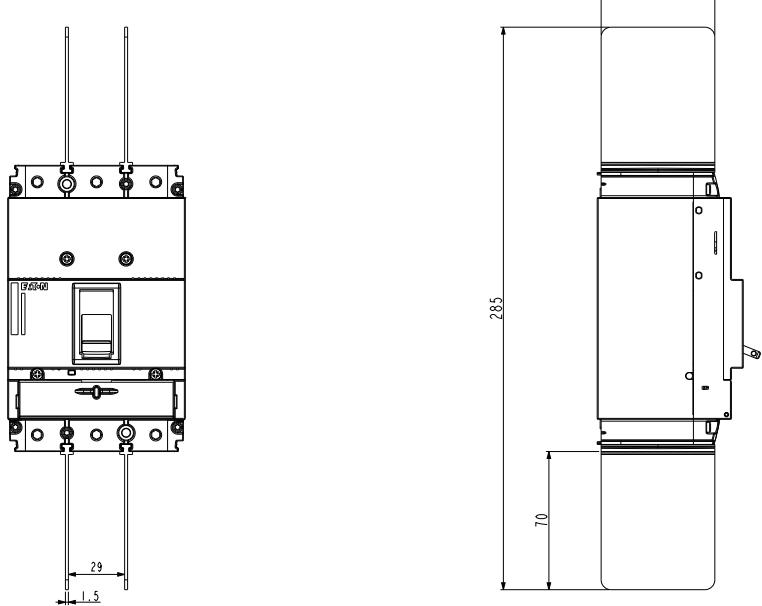


# Power Defense Molded Case Circuit Breaker

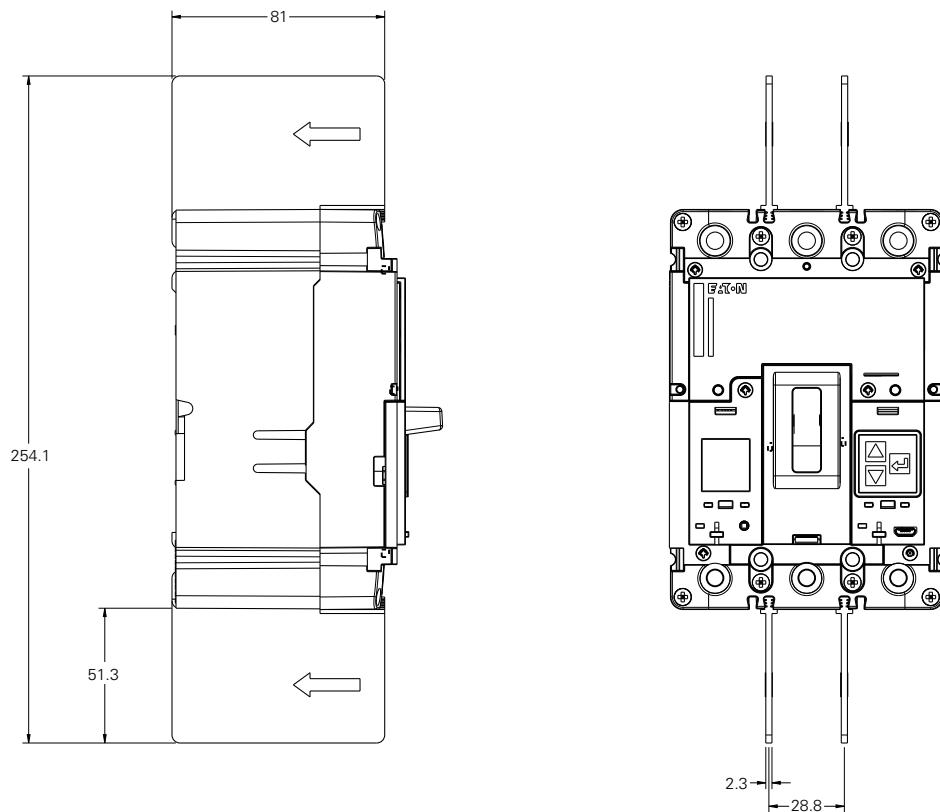
## Dimensions

### Interphase Barriers

#### PDC1 interphase barrier

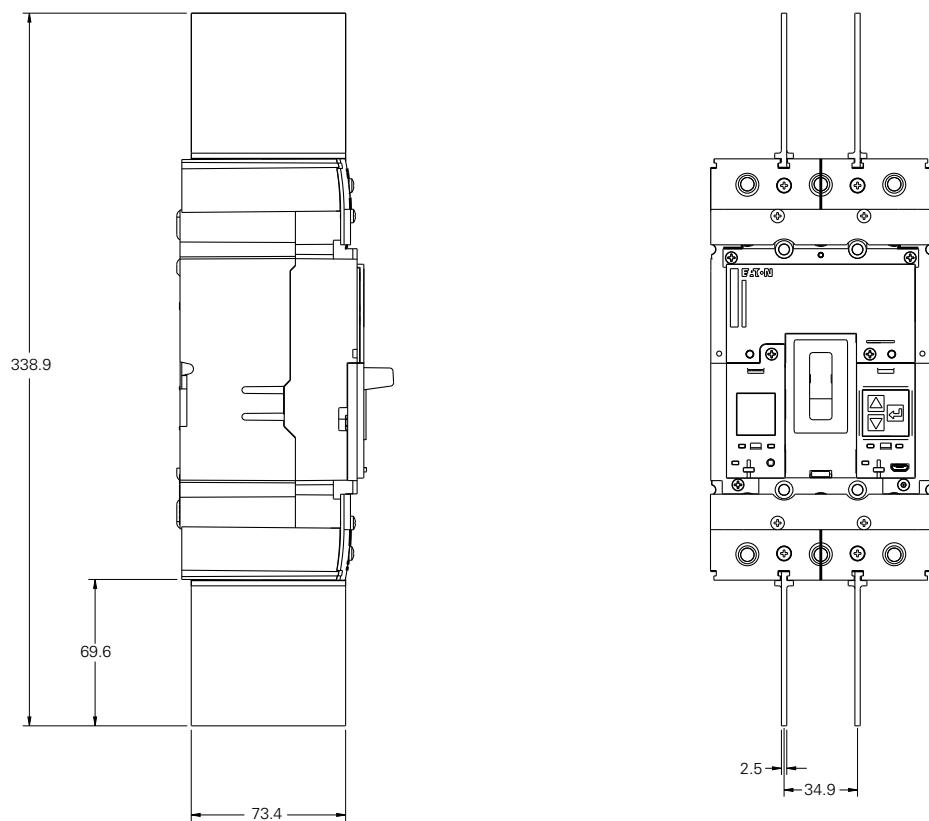


#### PDC9 interphase barrier



**Interphase Barriers**

**PDC2 interphase barrier**

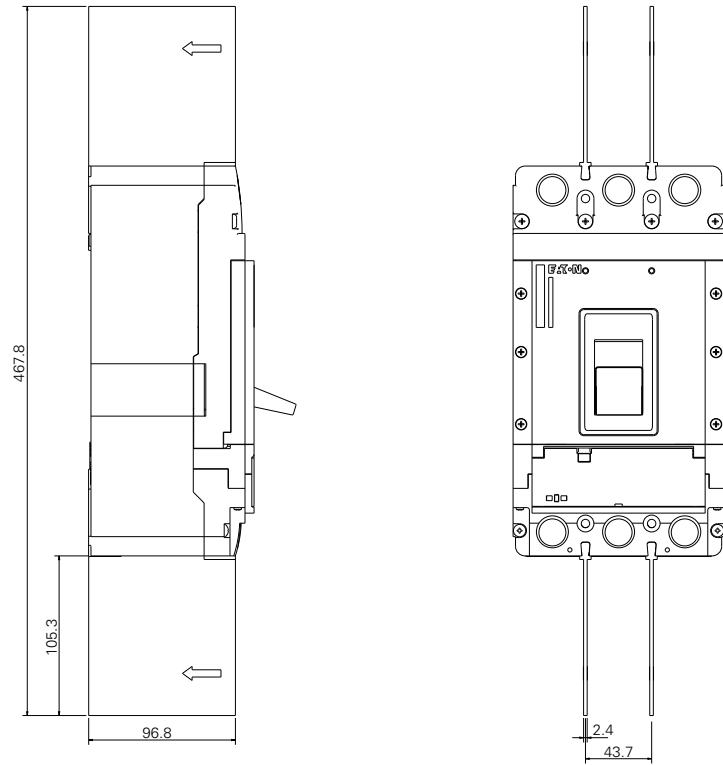


# Power Defense Molded Case Circuit Breaker

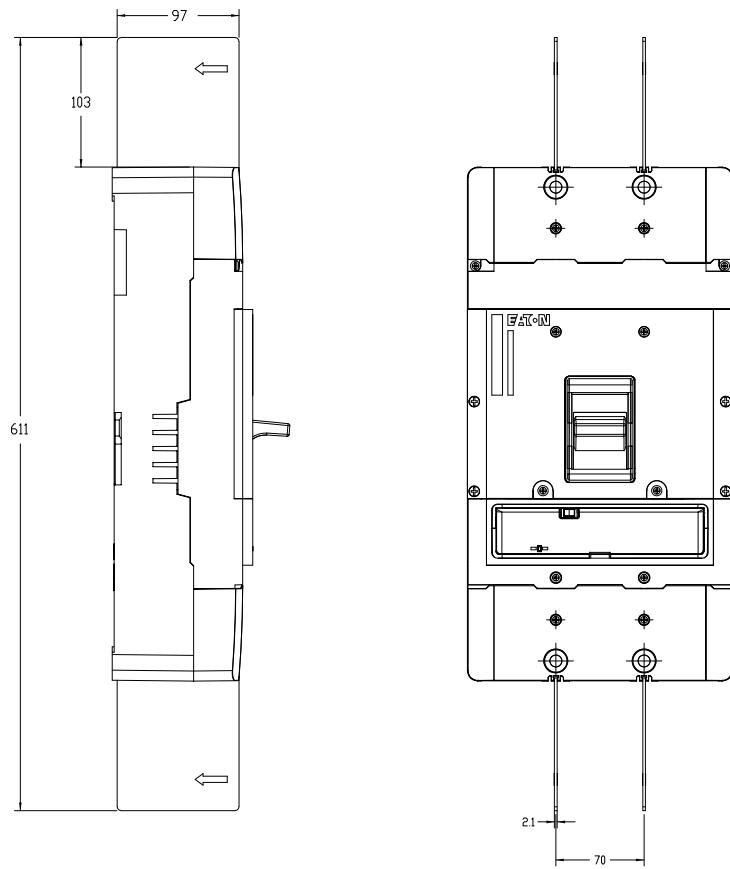
## Dimensions

### Interphase Barriers

#### PDC3 interphase barrier

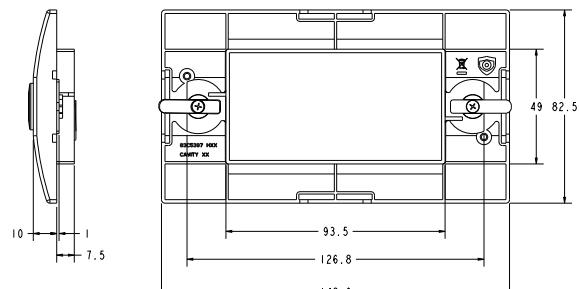


#### PDC4 interphase barrier

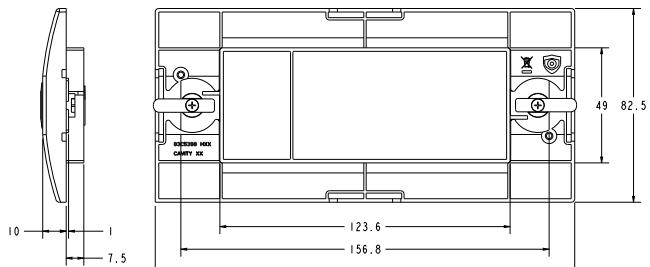


**Insulation surround**

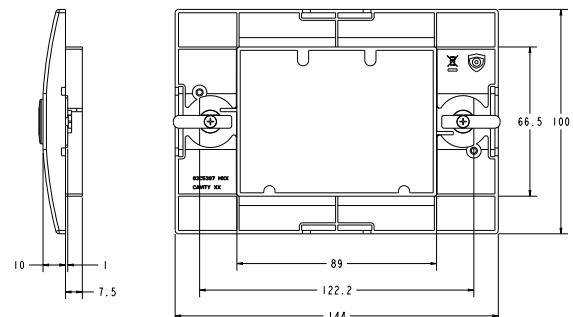
**PDC1**



PDC1XIPDB3P



PDC1XIPDB4P



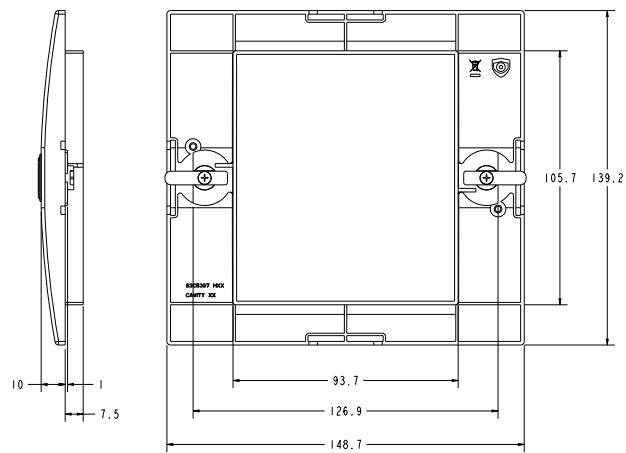
PDC1XIPDBRH

# Power Defense Molded Case Circuit Breaker

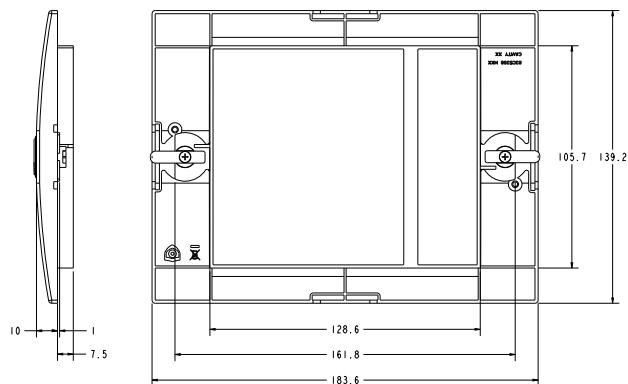
## Dimensions

### Insulation surround

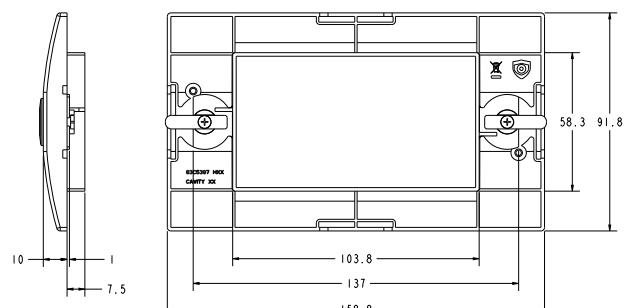
PDC2



PDC2XIPDB3P



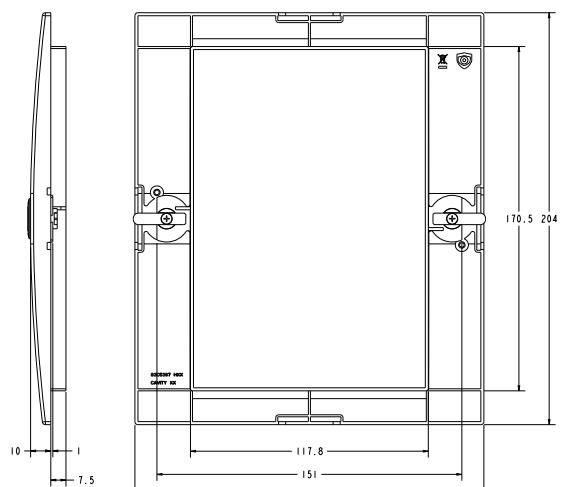
PDC2XIPDB4P



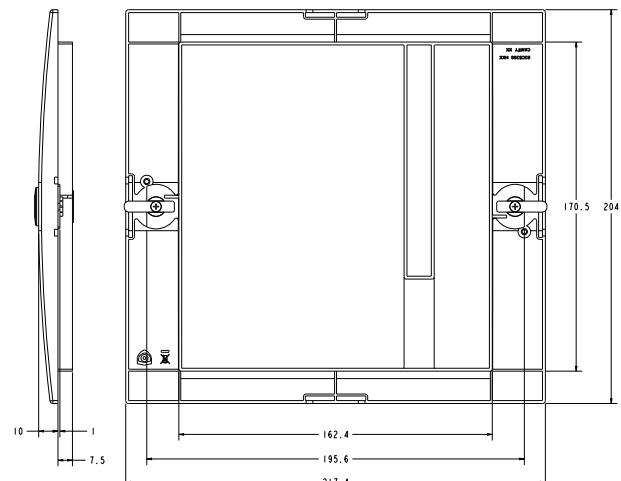
PDC2XIPDBRH

**Insulation surround**

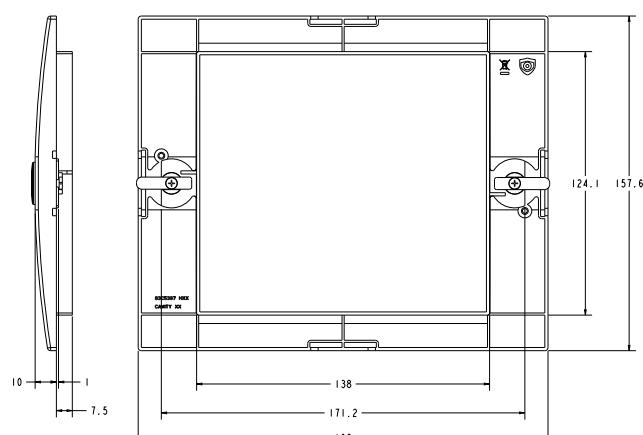
**PDC3**



PDC3XIPDB3P



PDC3XIPDB4P



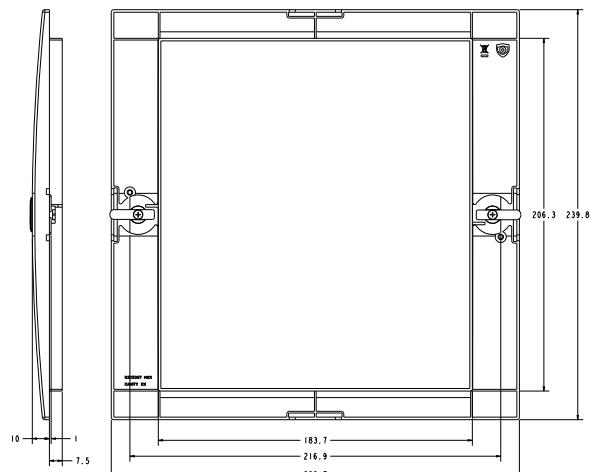
PDC3XIPDBRORH

# Power Defense Molded Case Circuit Breaker

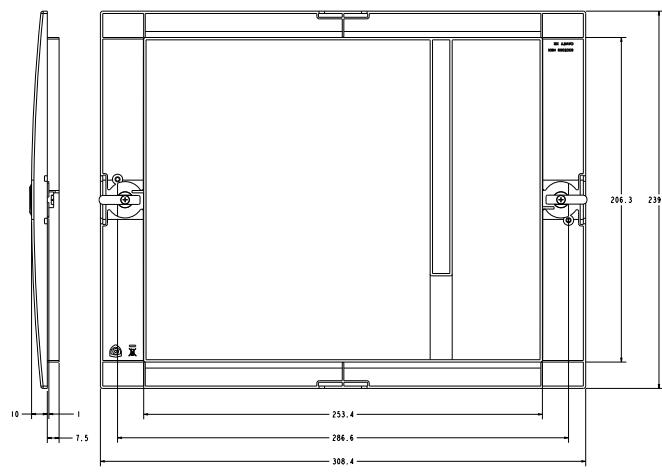
## Dimensions

### Insulation surround

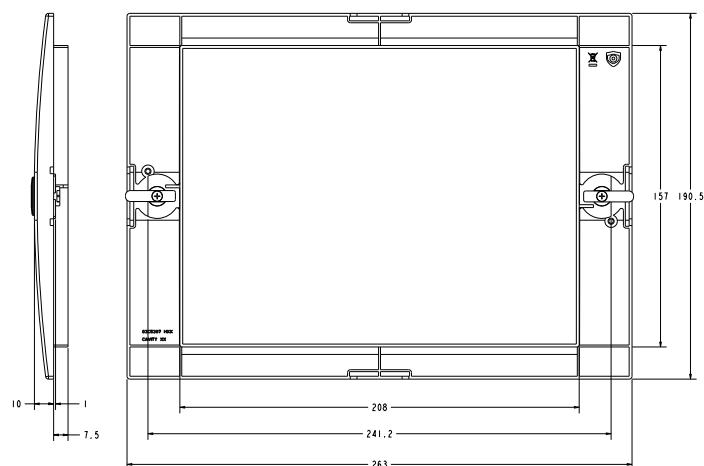
#### PDC4



PDC4XIPDB3P



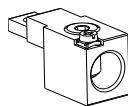
PDC4XIPDB4P



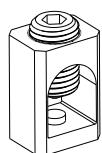
PDC4XIPDBRORH

### Tunnel Terminal

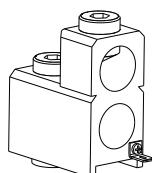
**PDC1: 16-95(1)mm<sup>2</sup>**



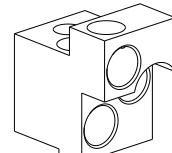
**PDC9:25-95(1) mm<sup>2</sup>**



**PDC3: 35-240(2)mm<sup>2</sup>**



**PDC4: 95-185(3)mm<sup>2</sup>**

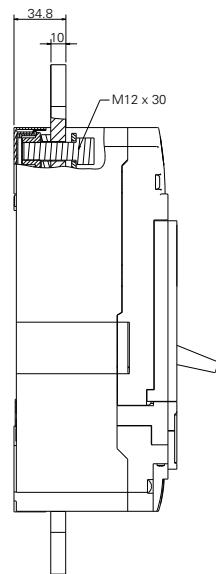
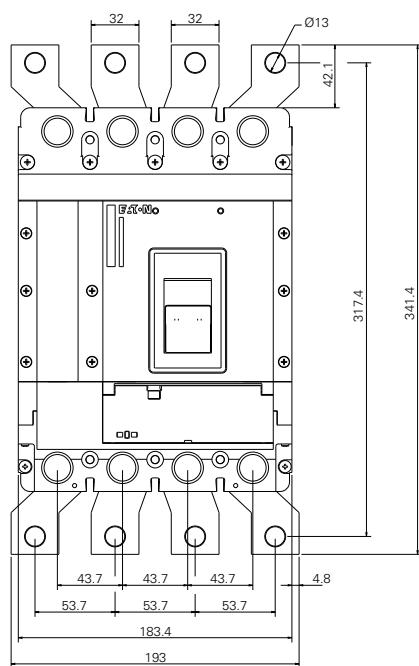
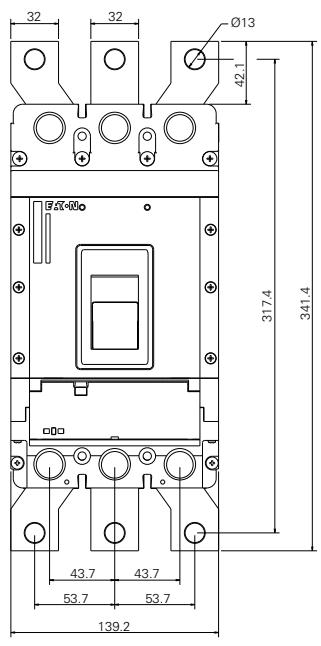


Tunnel Terminals are embedded mounting, having same dimensions as the circuit breaker's after mounting.

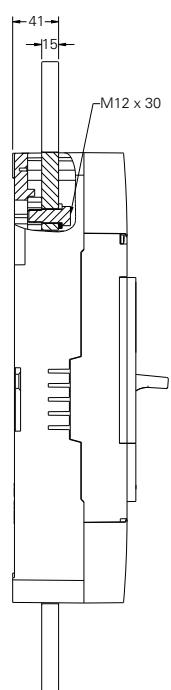
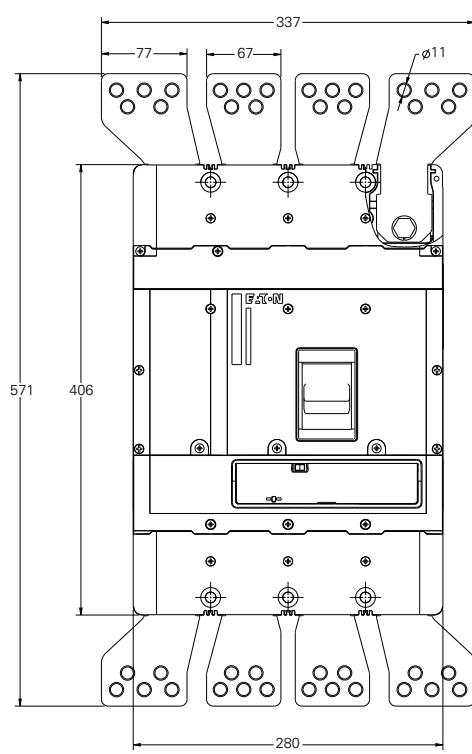
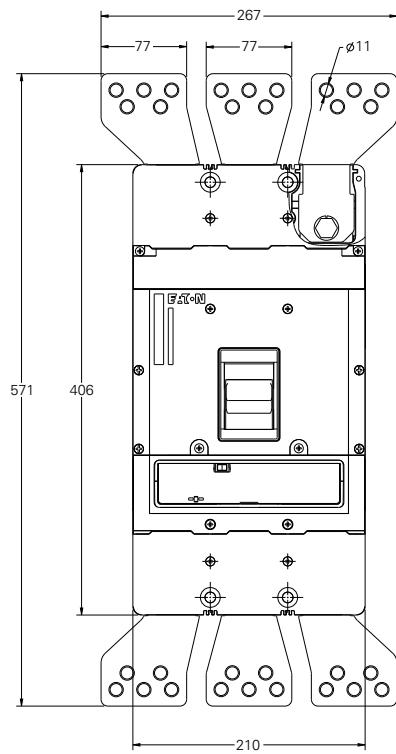
**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Spreader**

**PDC3**



**PDC4**

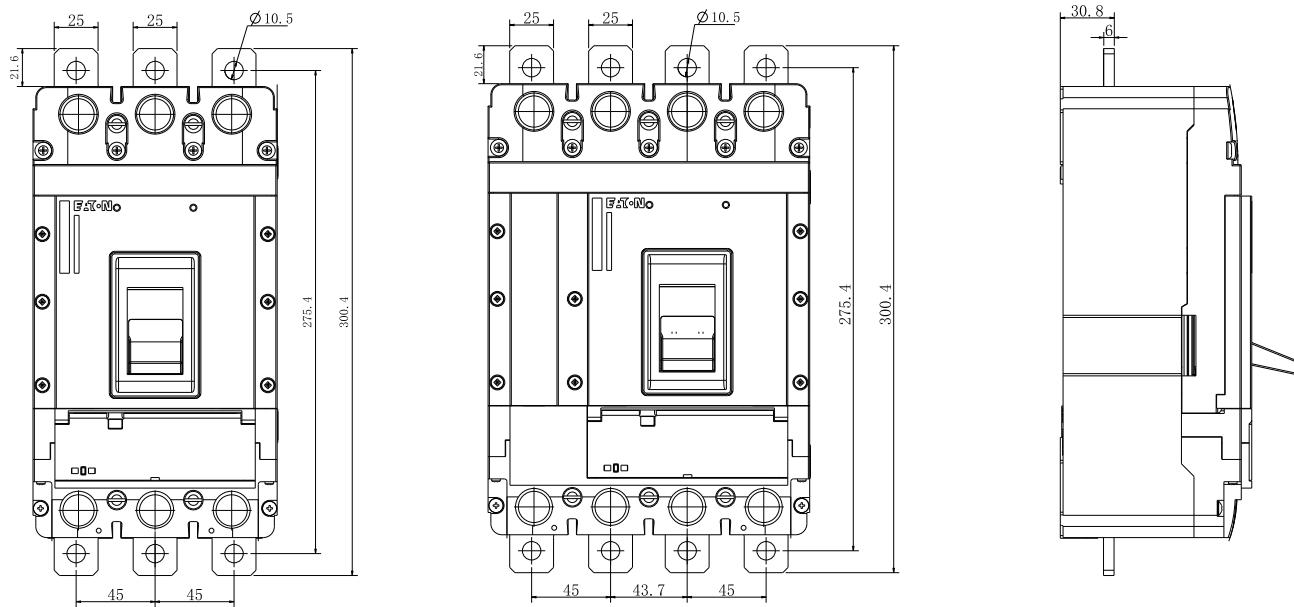


# Power Defense Molded Case Circuit Breaker

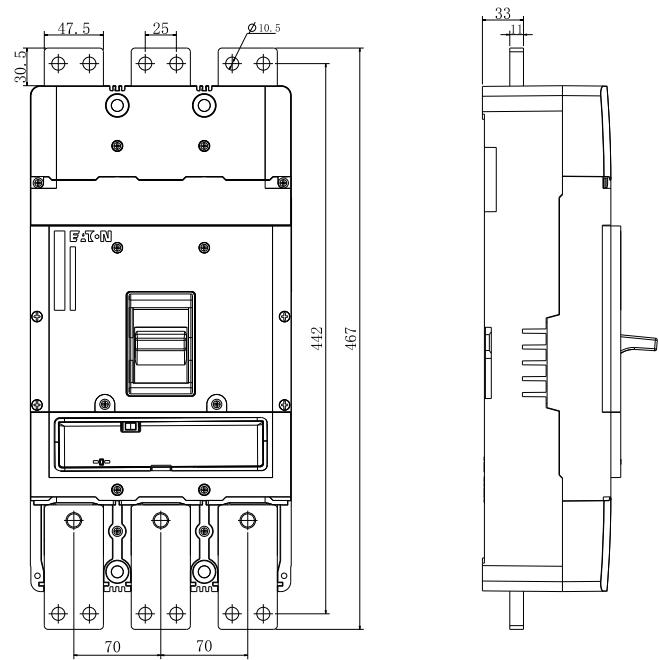
## Dimensions

### Adapter plate (PDC/NZM)

#### PDC3/NZM3

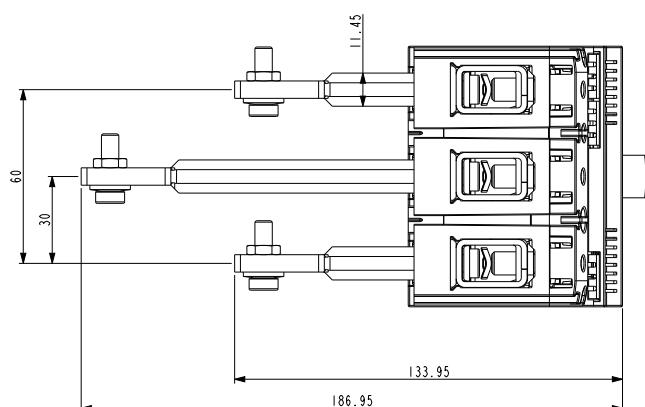
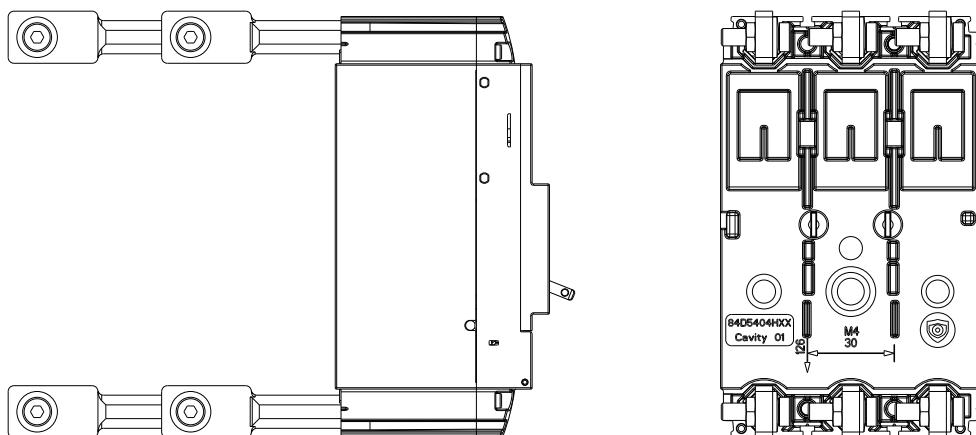


#### PDC4/NZM4



Rear Connection

PDC1

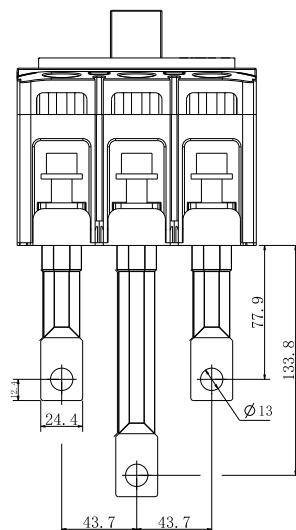
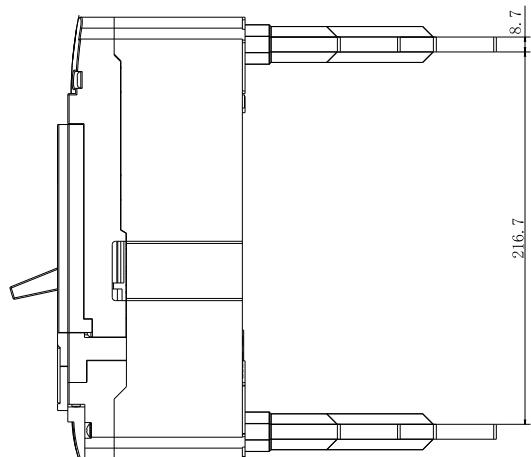
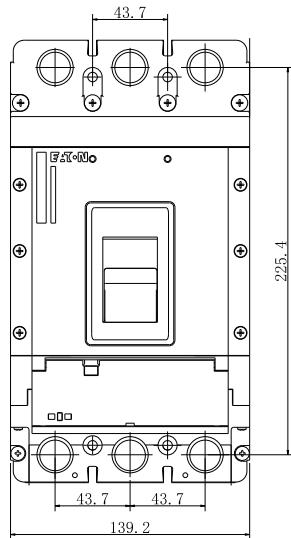


# Power Defense Molded Case Circuit Breaker

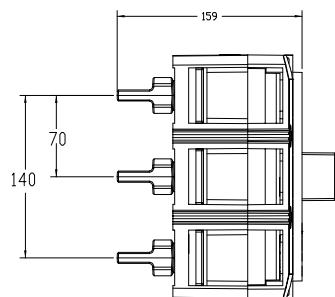
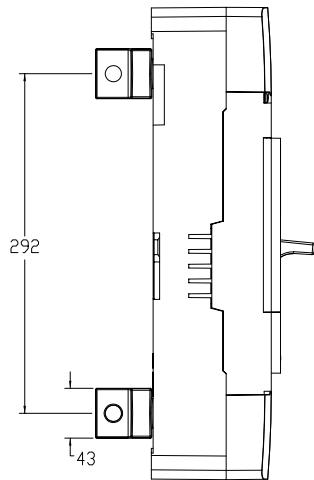
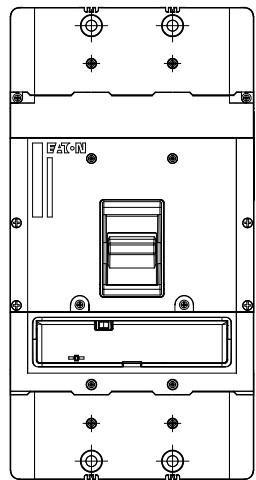
## Dimensions

### Rear Connection

PDC3

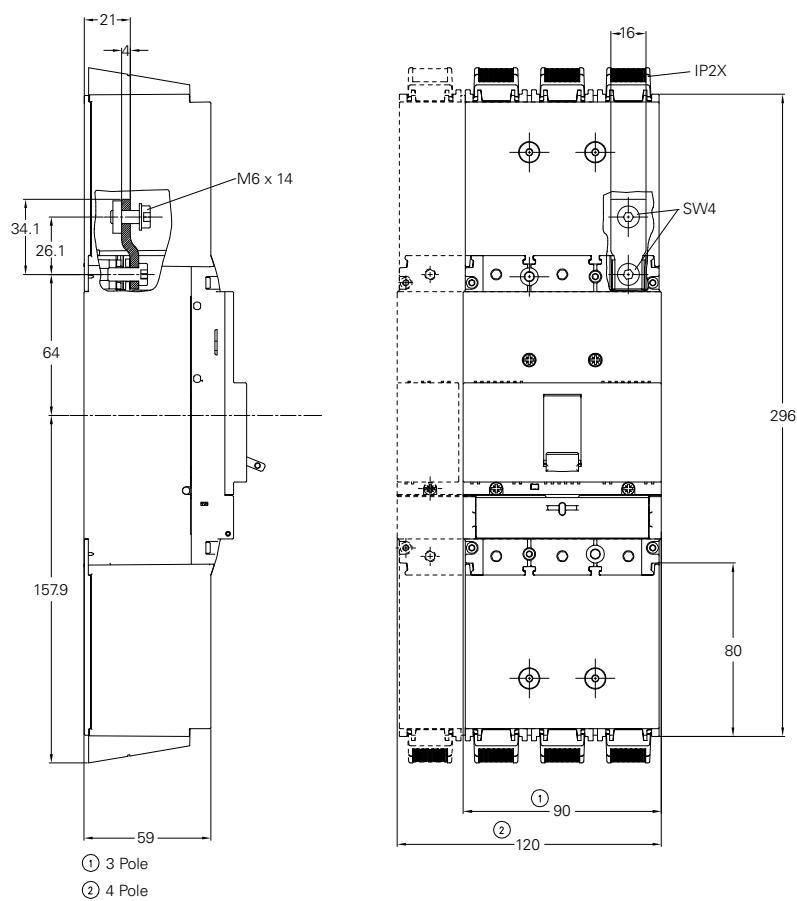


PDC4

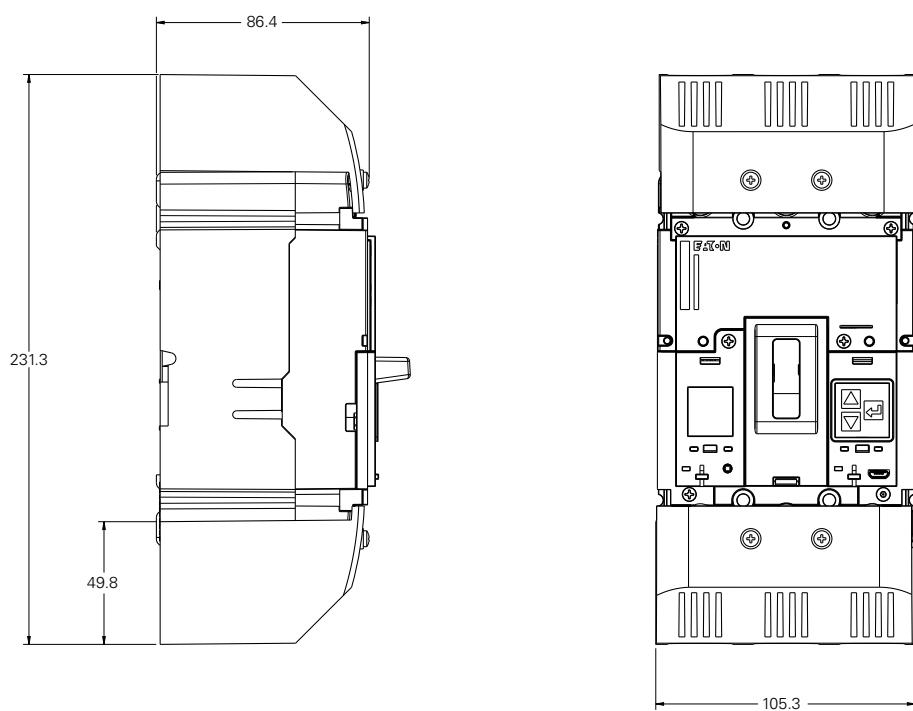


**Terminal Cover**

**PDC1**



**PDC9**

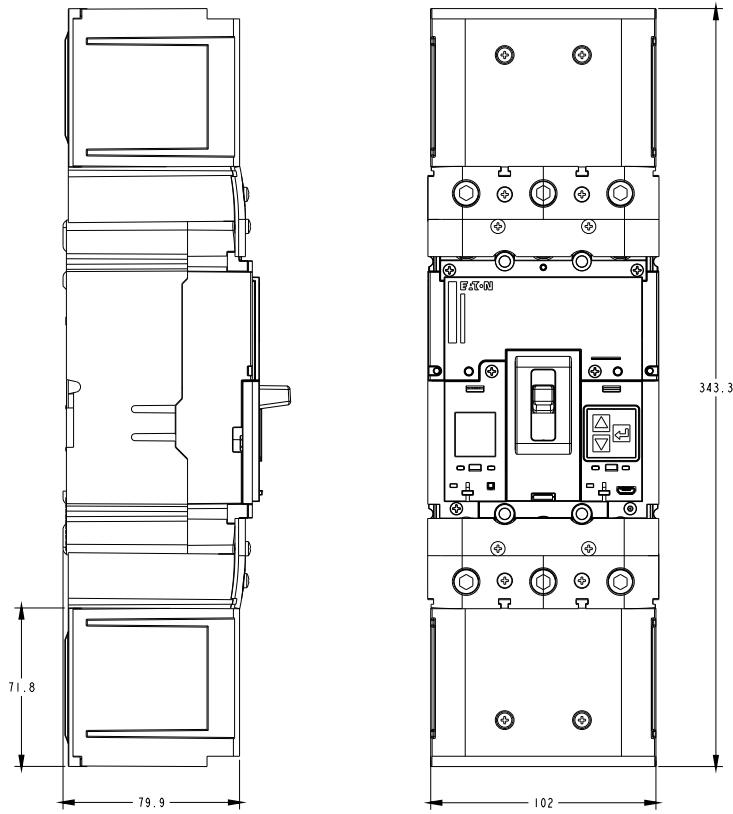


# Power Defense Molded Case Circuit Breaker

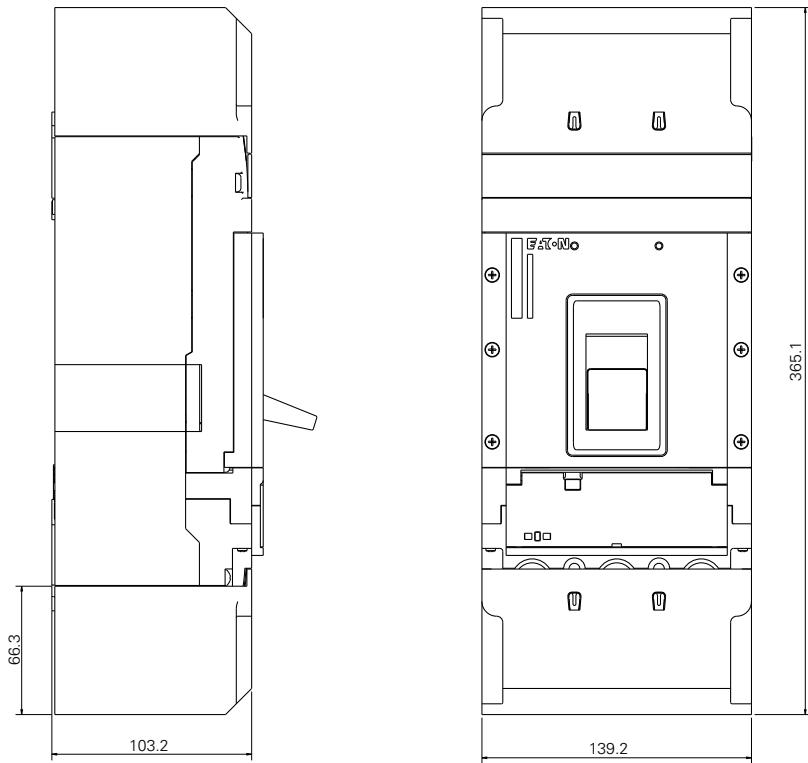
## Dimensions

### Terminal Cover

PDC2

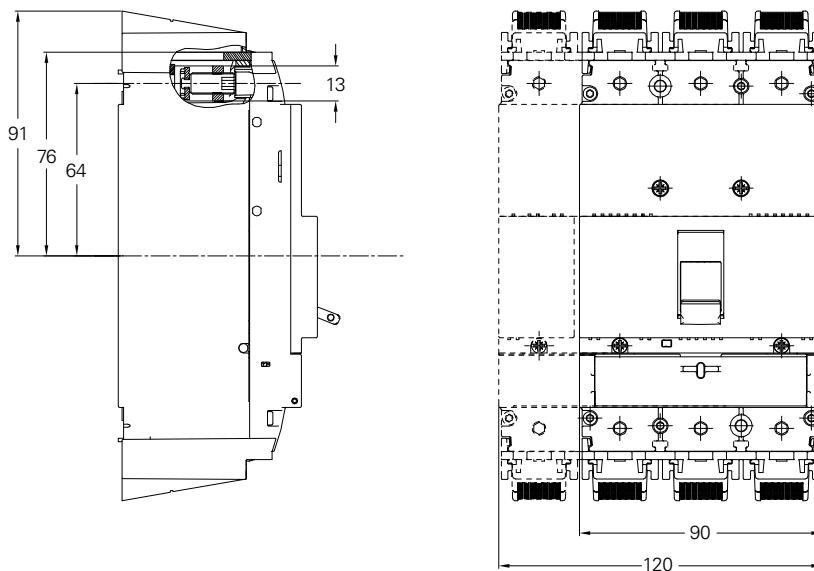


PDC3

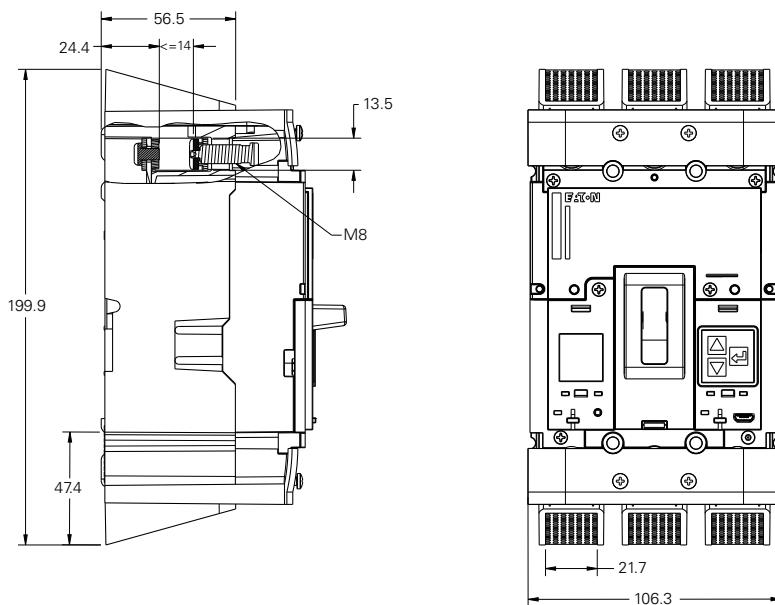


### Finger Protection

**PDC1 IP2X finger protection**



**PDC9 IP2X finger protection**

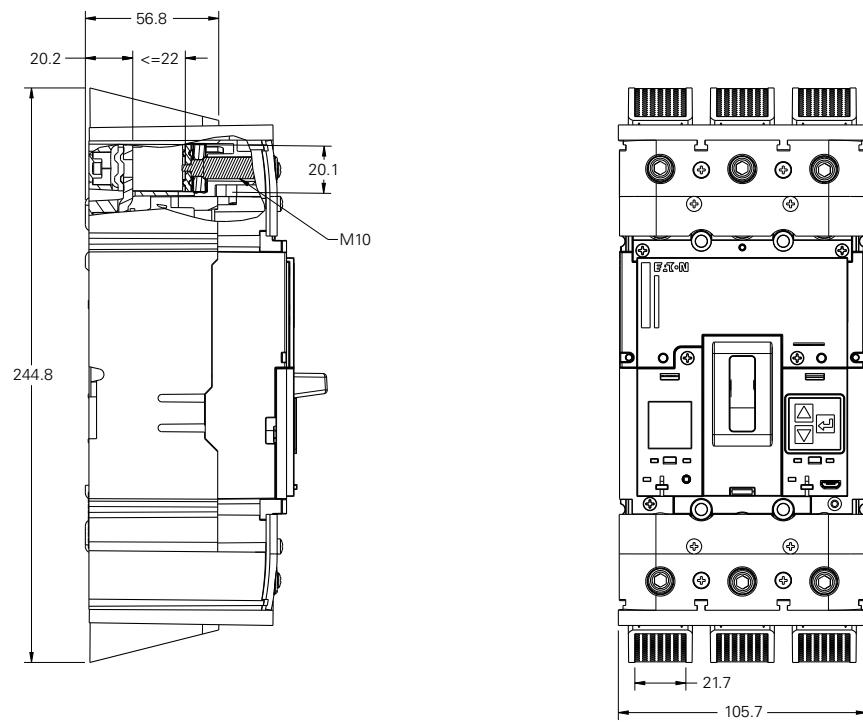


# Power Defense Molded Case Circuit Breaker

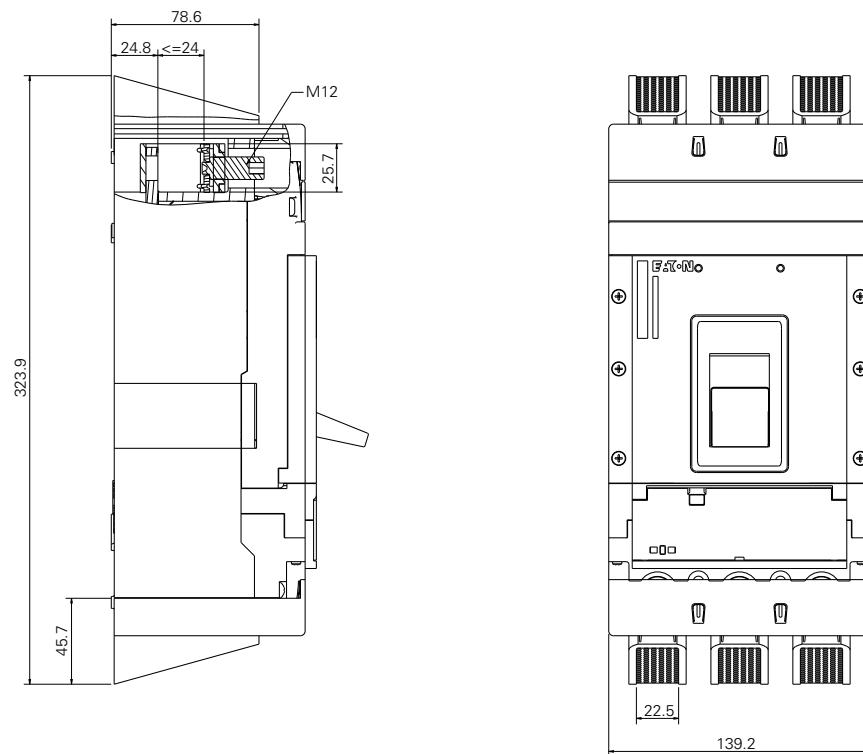
## Dimensions

### Finger Protection

#### PDC2 IP2X finger protection



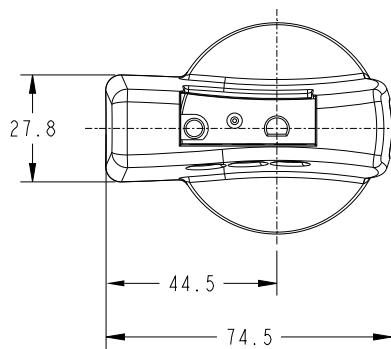
#### PDC3 IP2X finger protection



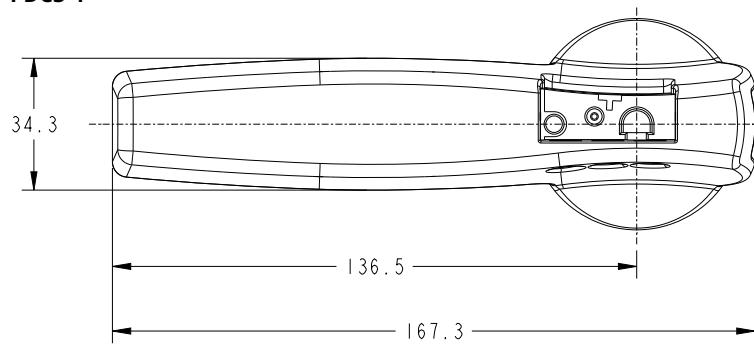
**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Rotary Handle**

**PDC1-2**



**PDC3-4**

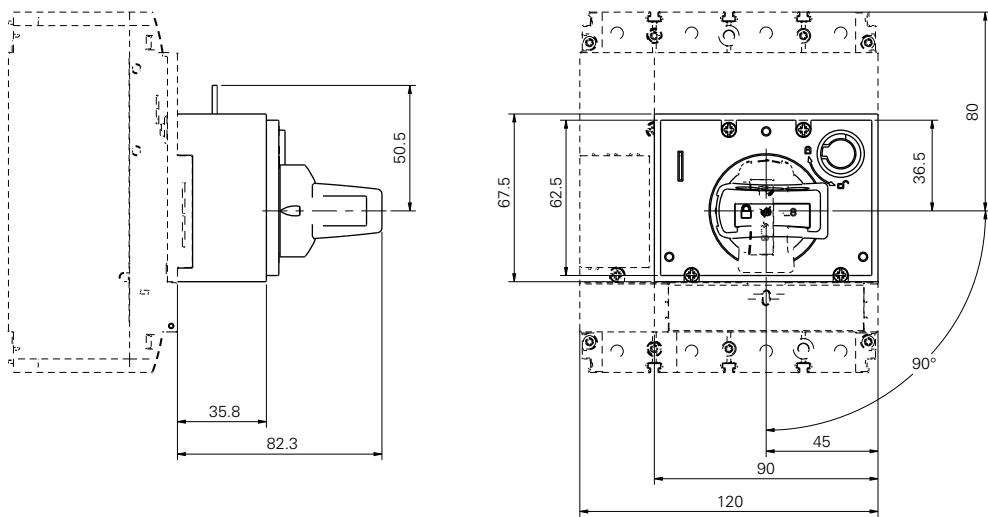


# Power Defense Molded Case Circuit Breaker

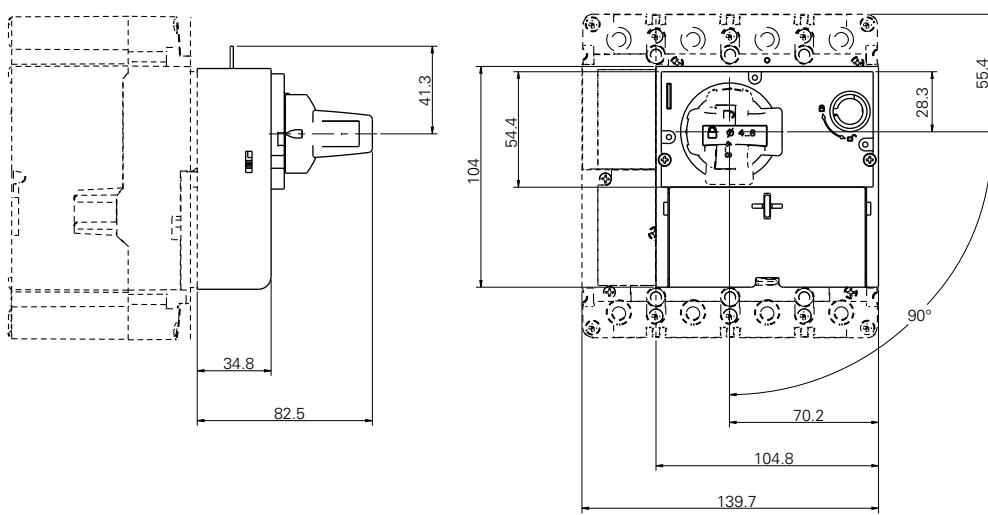
## Dimensions

### Direct Rotary Handle

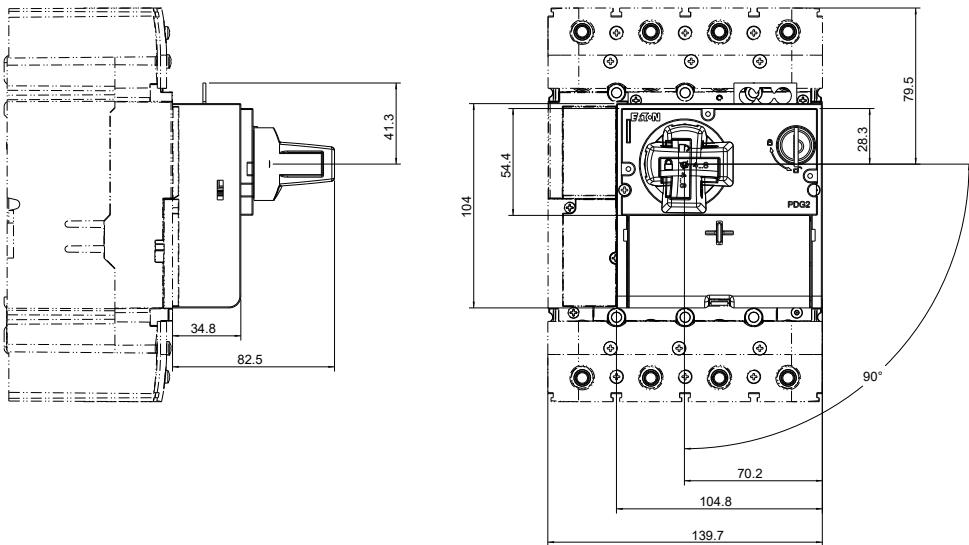
PDC1



PDC9

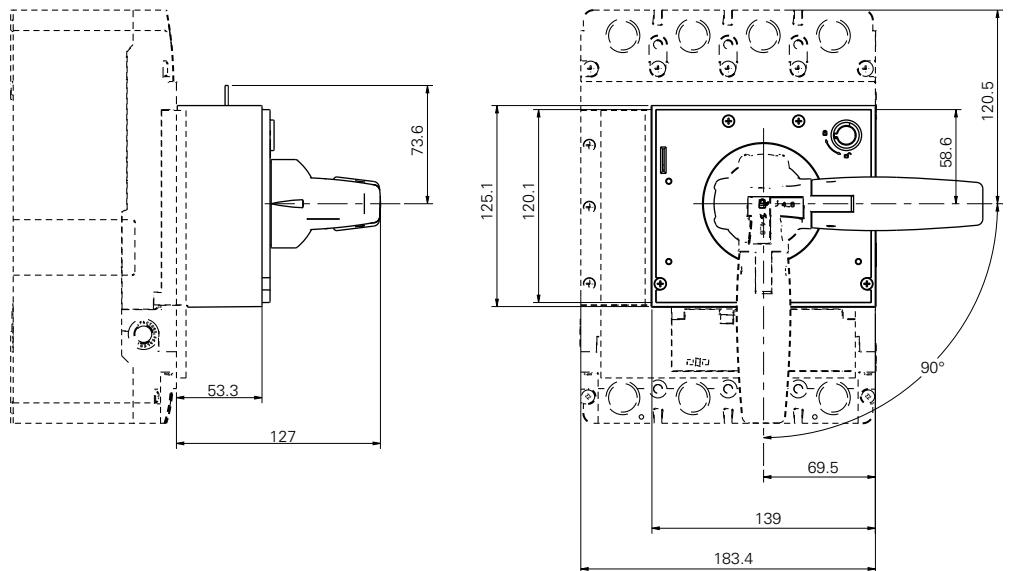


PDC2

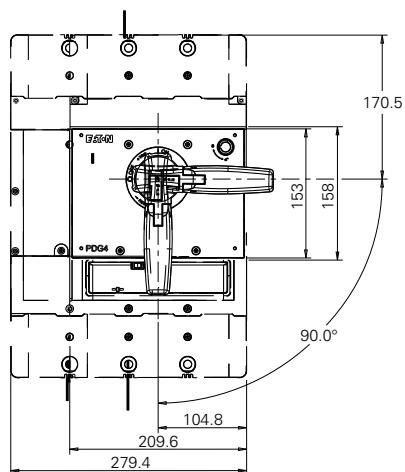


**Direct Rotary Handle**

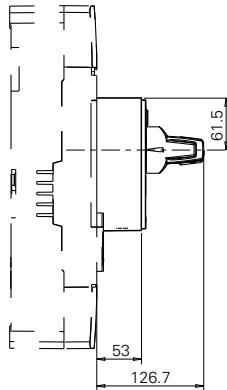
**PDC3**



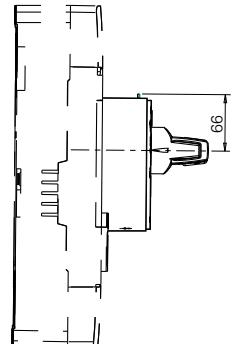
**PDC4**



**PADLOCK**



**DOOR INTERLOCK**

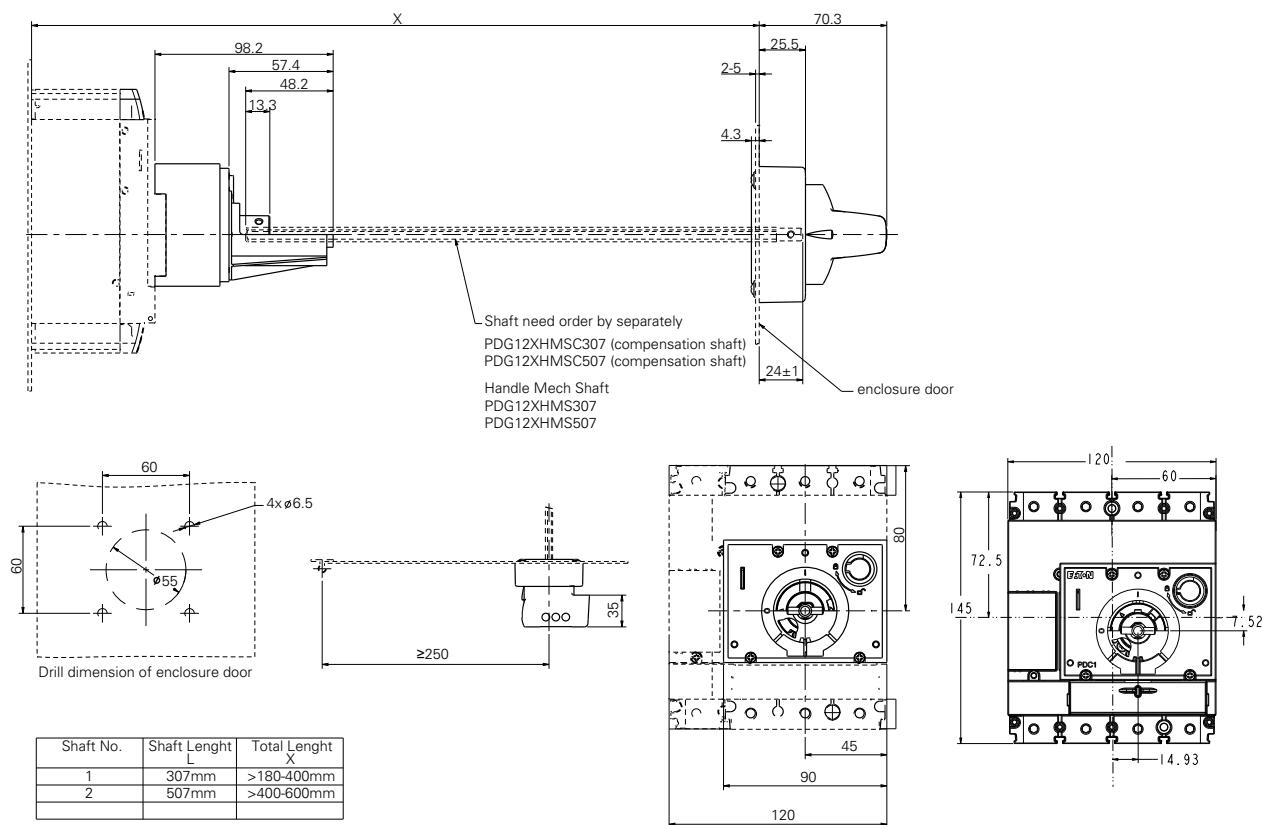


# Power Defense Molded Case Circuit Breaker

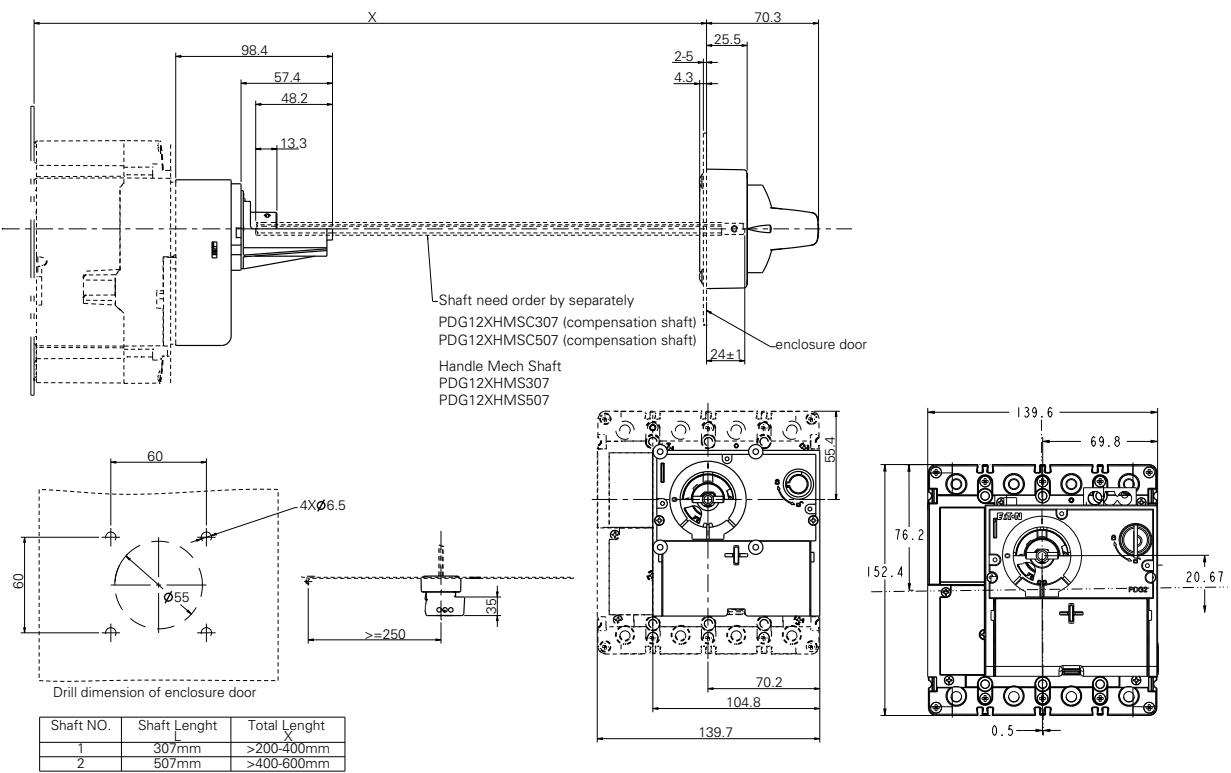
## Dimensions

### Door Rotary Handle

**PDC1**

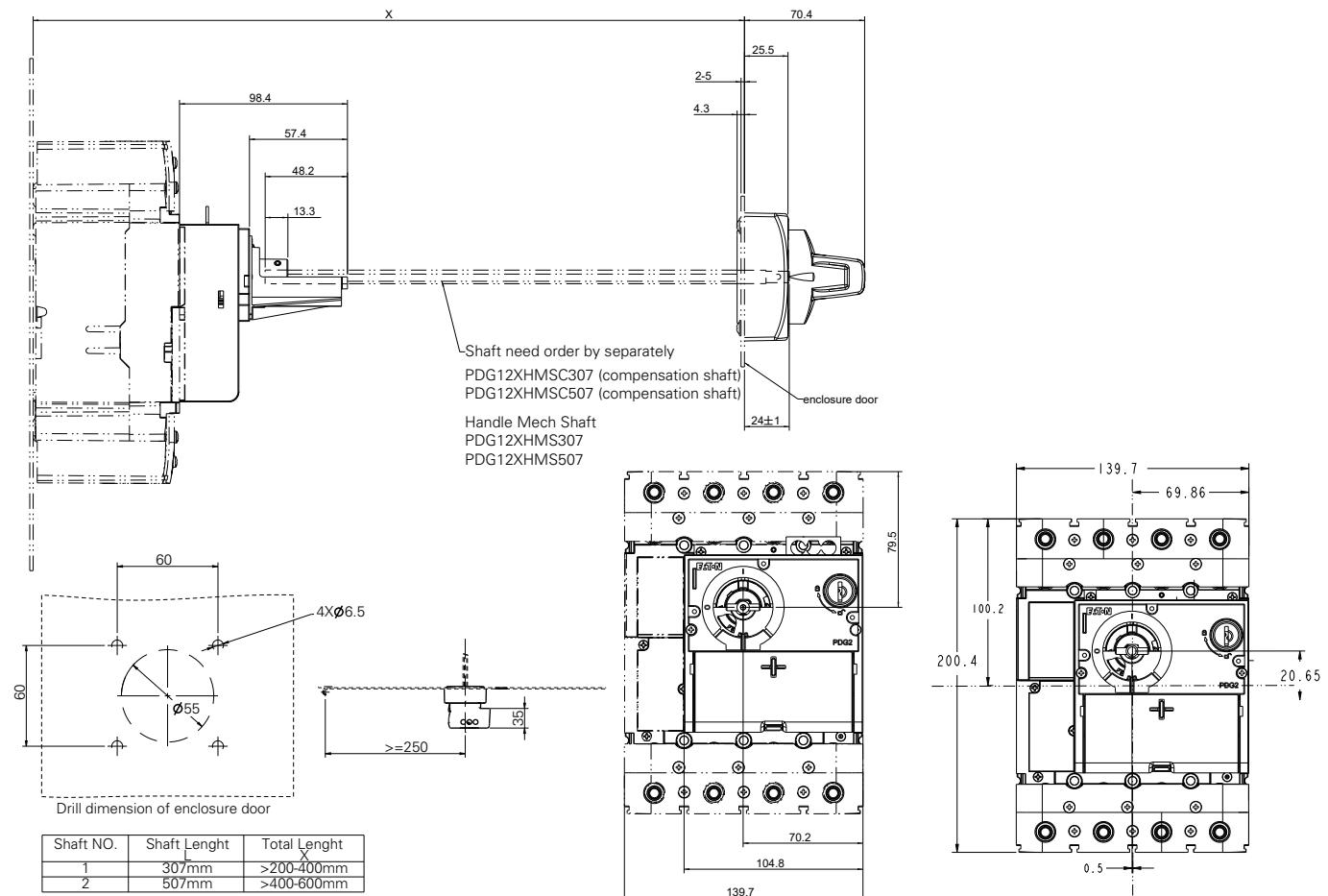


**PDC9**



### Door Rotary Handle

**PDC2**

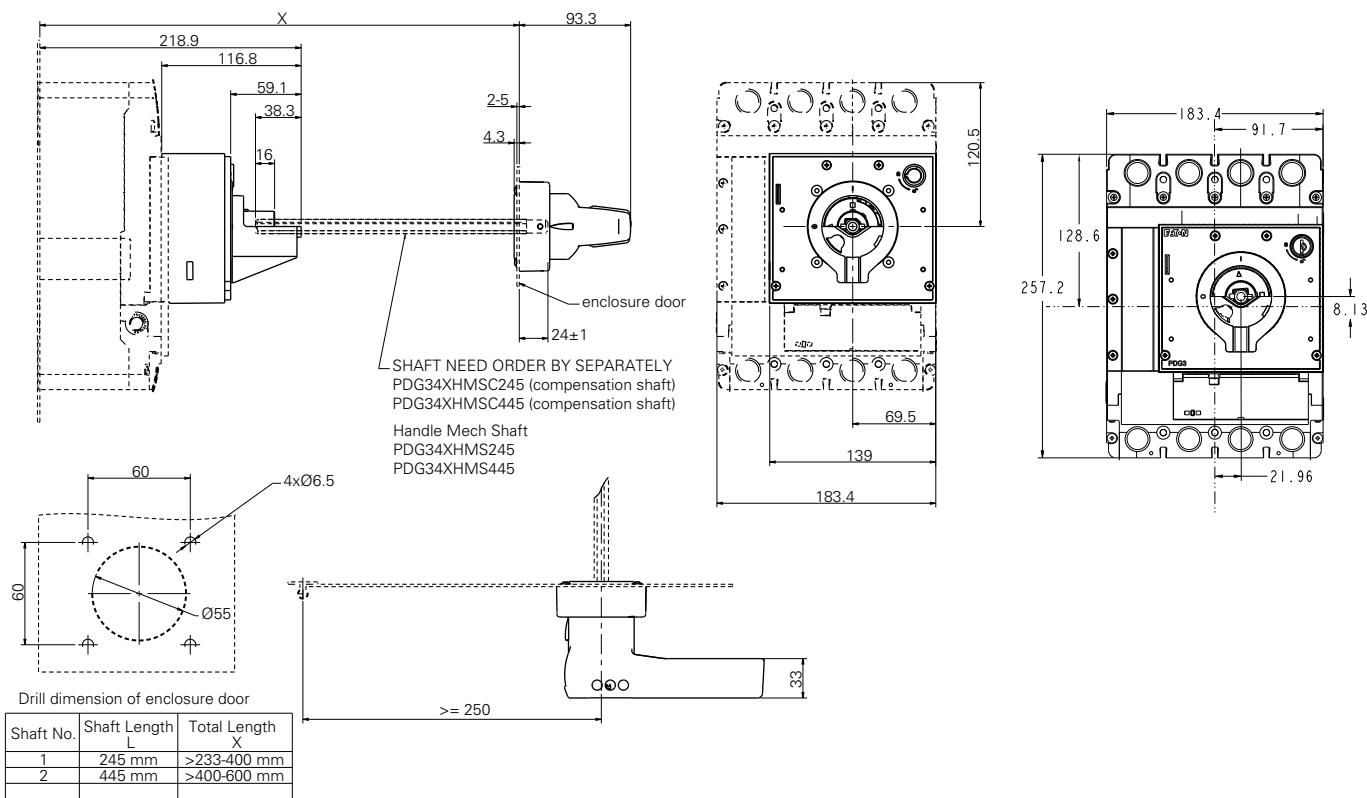


# Power Defense Molded Case Circuit Breaker

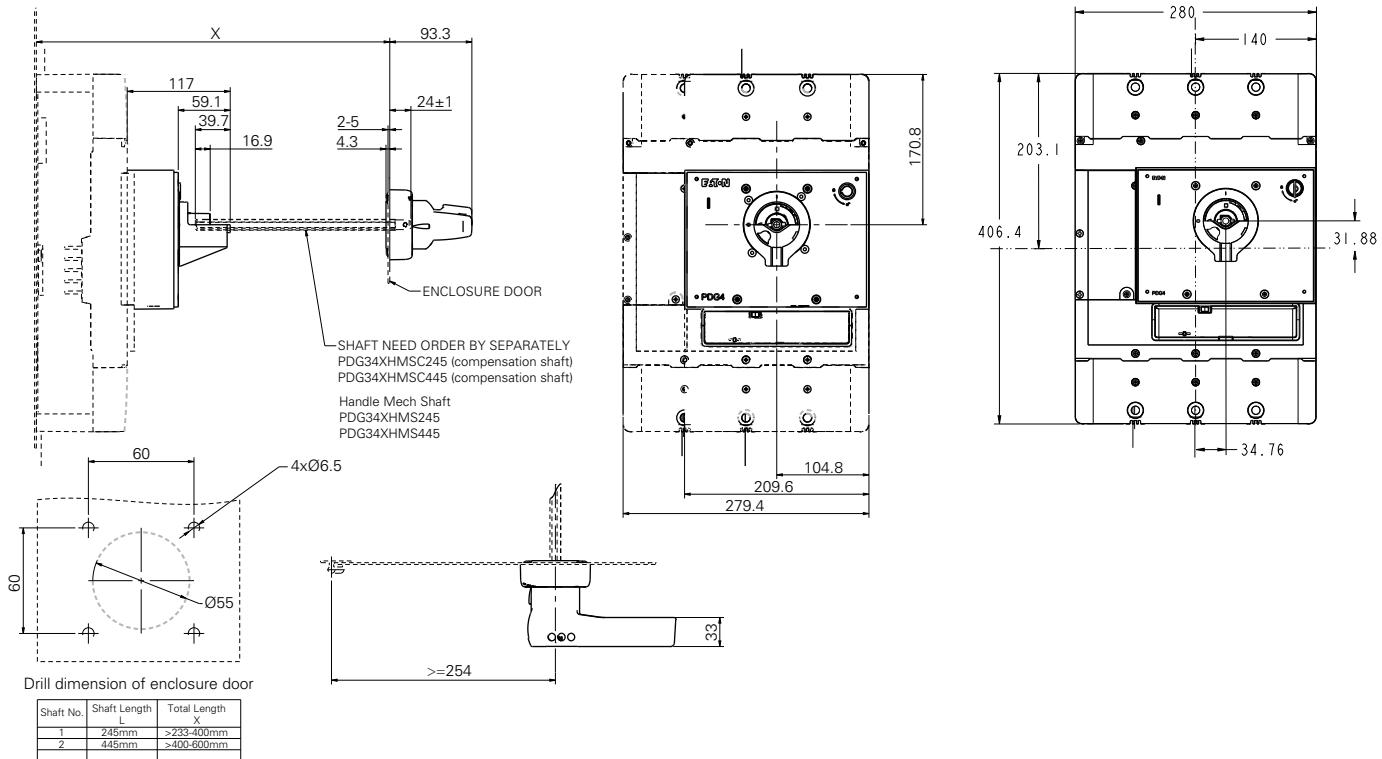
## Dimensions

### Door Rotary Handle

#### PDC3



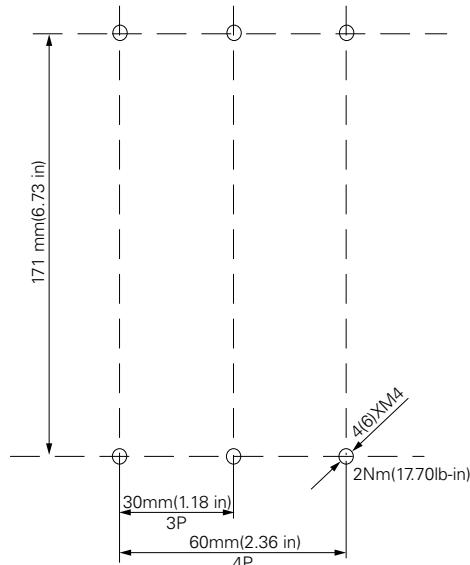
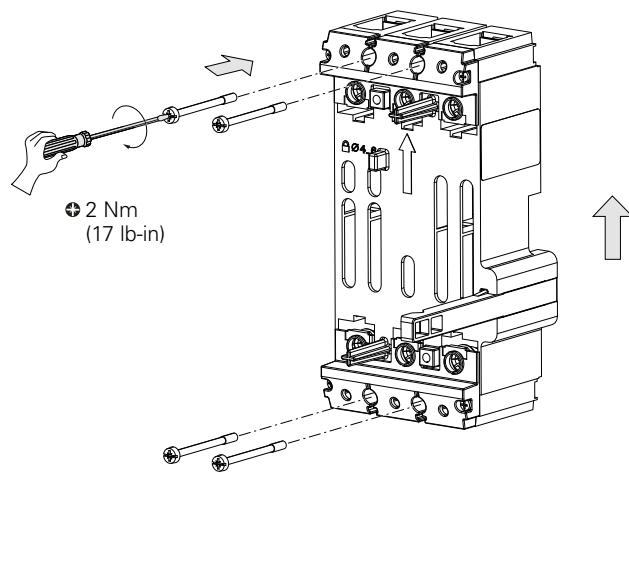
#### PDC4



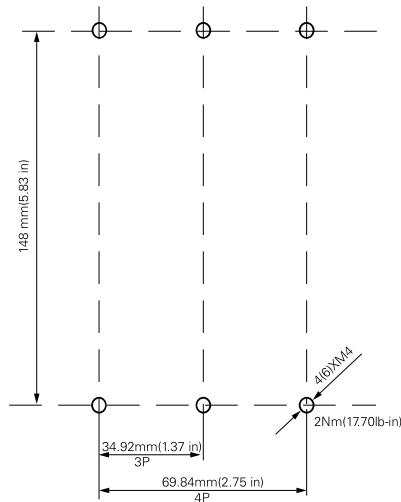
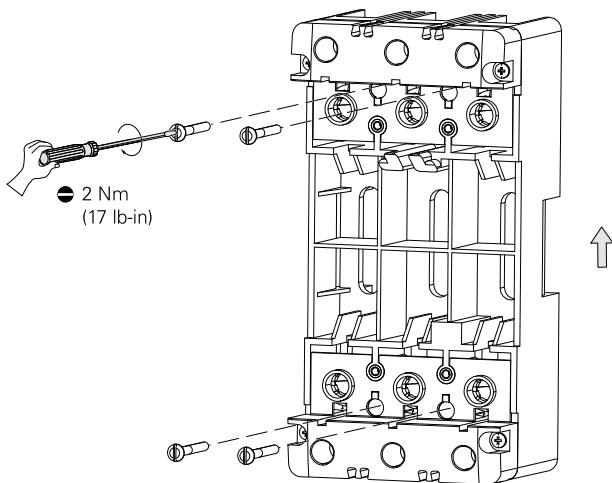
**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Plug in Base**

**PDC1**



**PDC9**

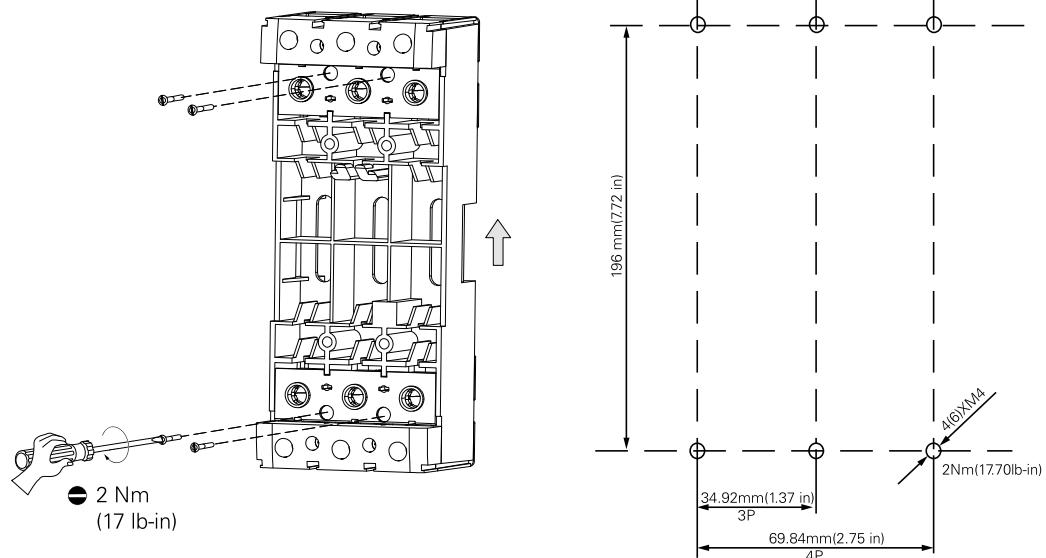


# Power Defense Molded Case Circuit Breaker

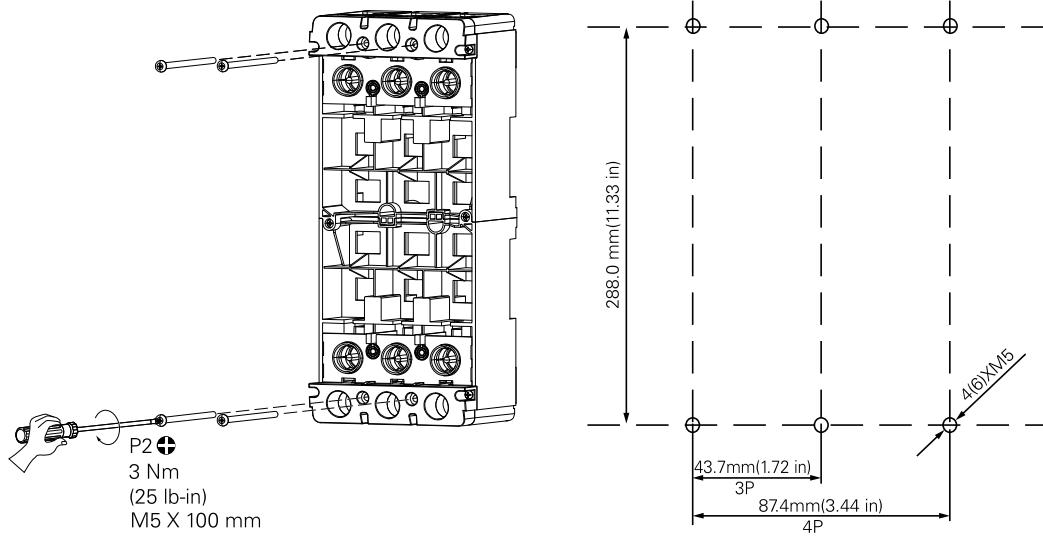
## Dimensions

### Plug in Base

PDC2

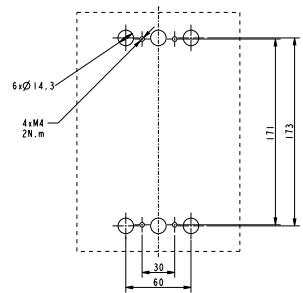


PDC3

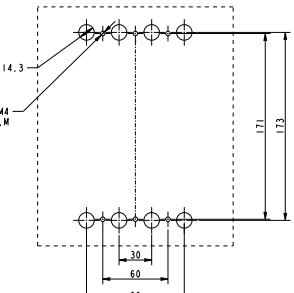


**Rear connection with plug in**

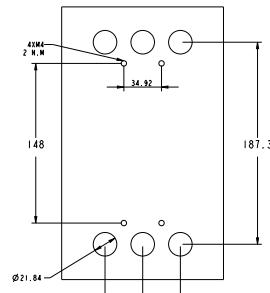
**PDC1 3P**



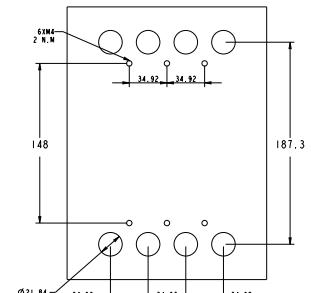
**PDC1 4P**



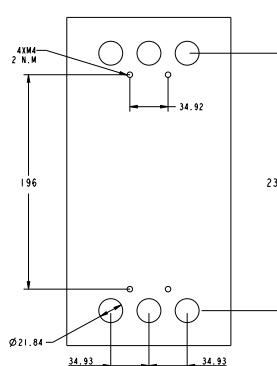
**PDC9 3P**



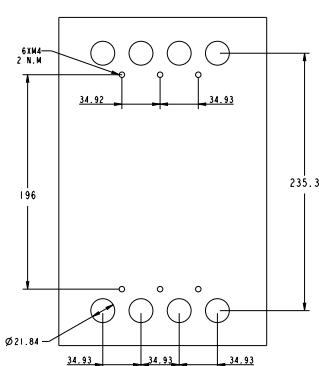
**PDC9 4P**



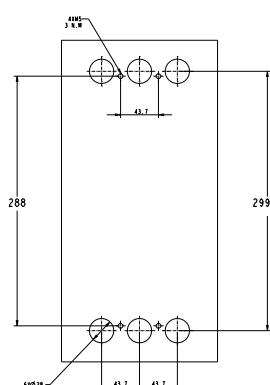
**PDC2 3P**



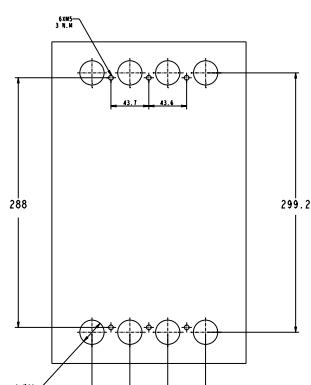
**PDC2 4P**



**PDC3 3P**



**PDC3 4P**

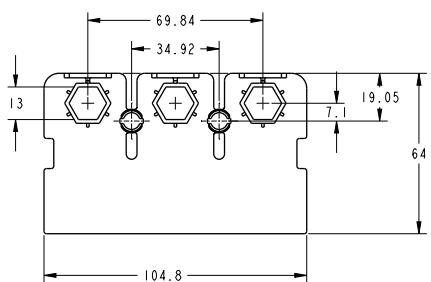


# Power Defense Molded Case Circuit Breaker

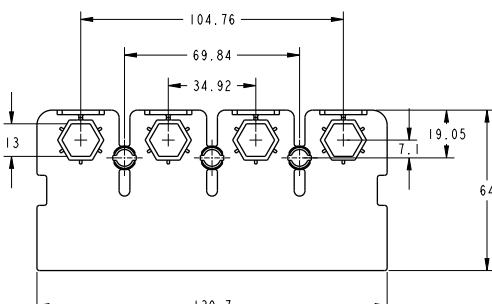
## Dimensions

### Rear connection with plug in

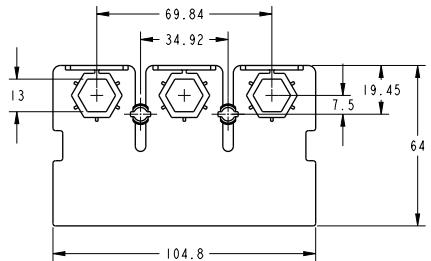
PDC9 3P



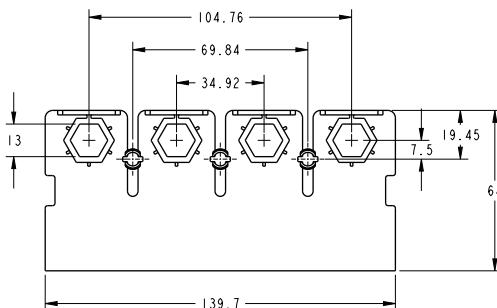
PDC9 4P



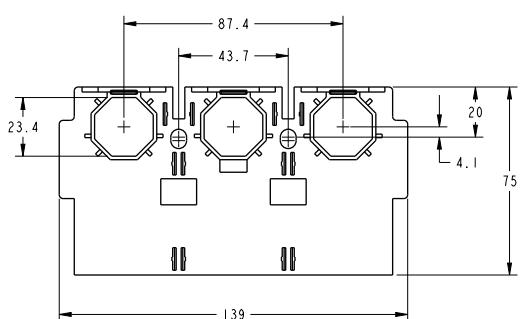
PDC2 3P



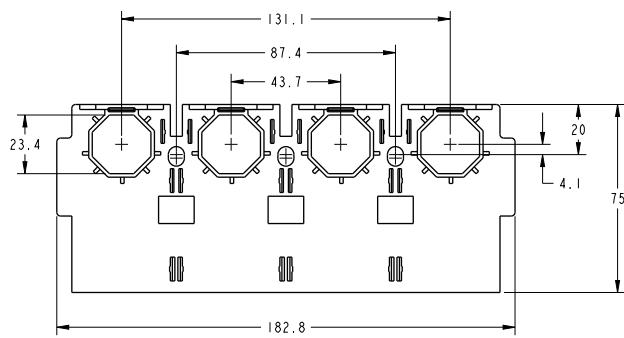
PDC2 4P



PDC3 3P



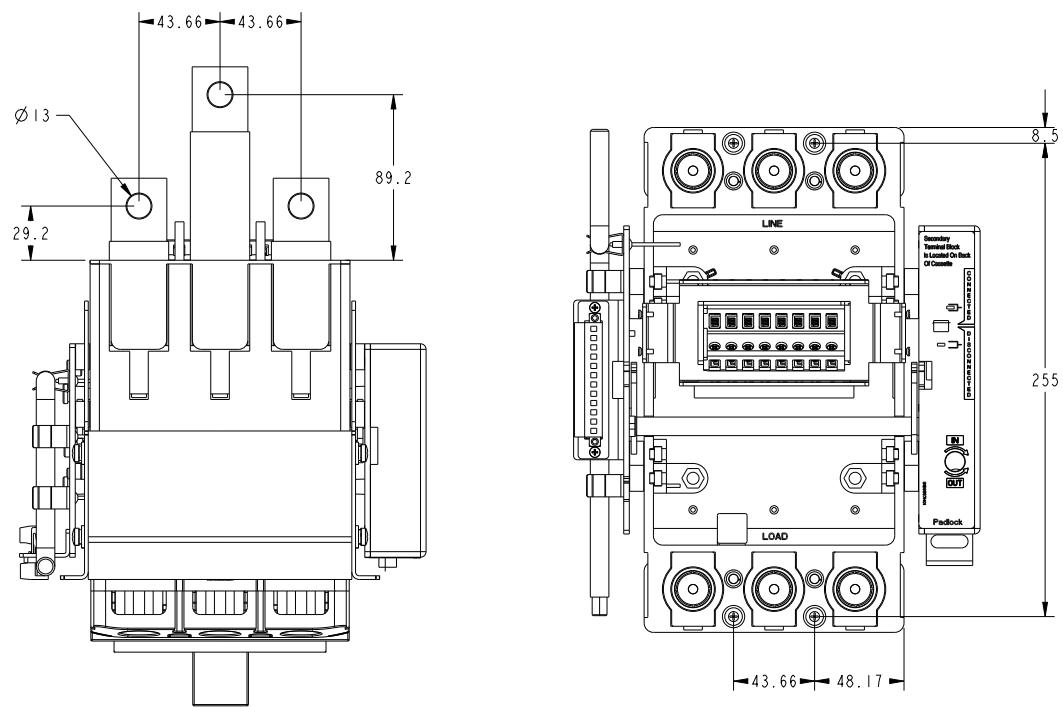
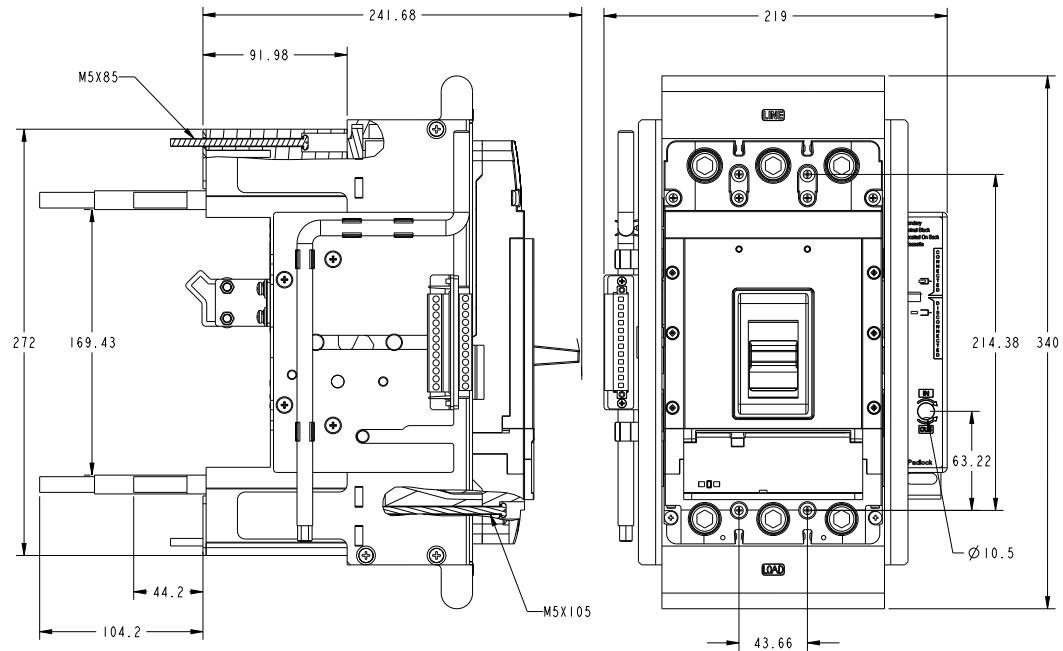
PDC3 4P



**Power Defense Molded Case Circuit Breaker**  
Dimensions

**Withdrawal**

**PDC3, 3P**

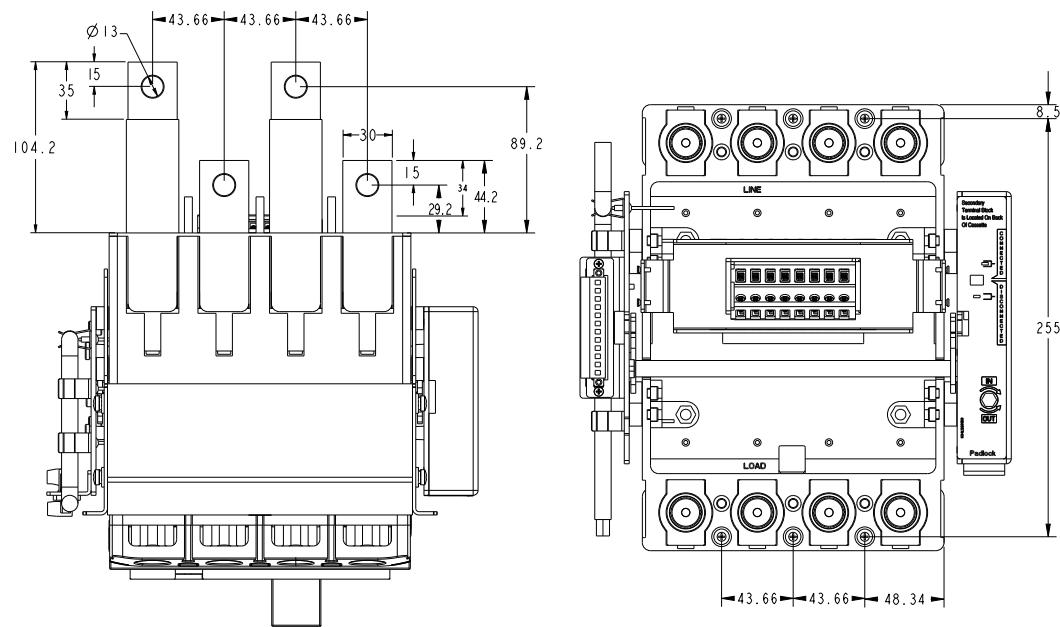
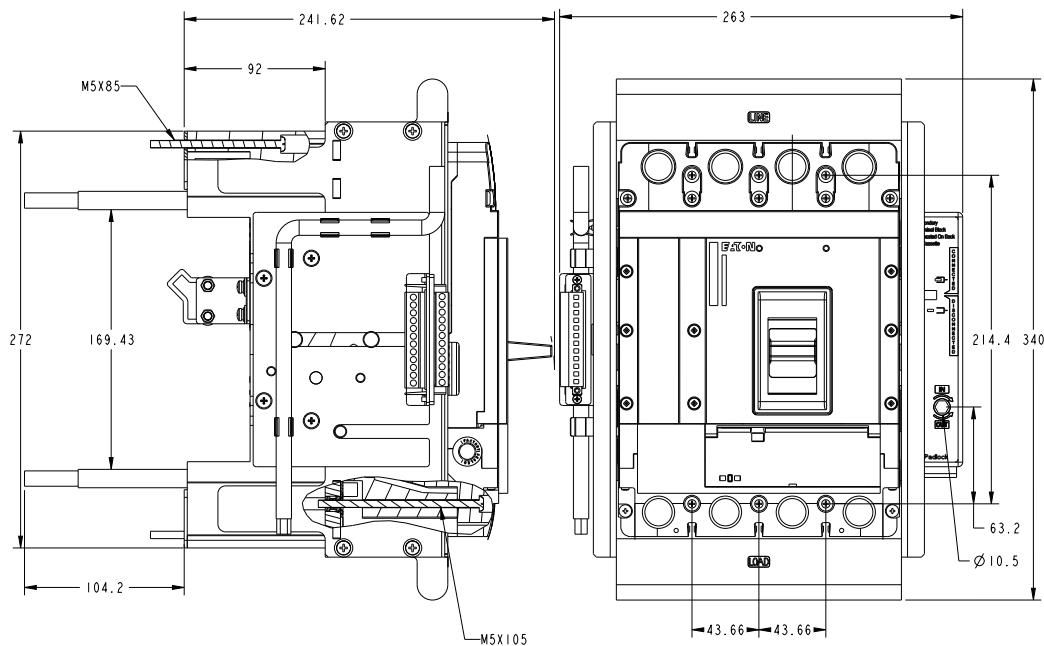


# Power Defense Molded Case Circuit Breaker

## Dimensions

### Withdrawal

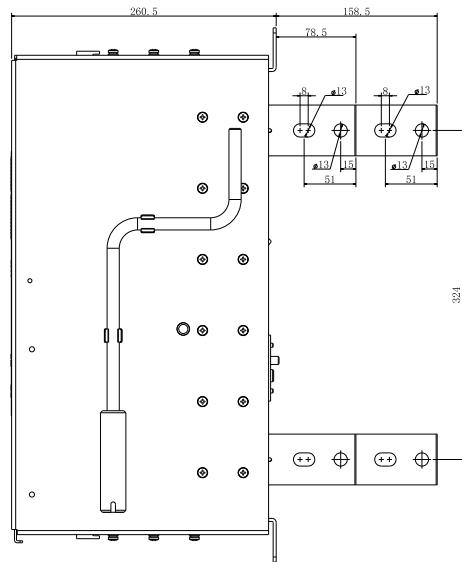
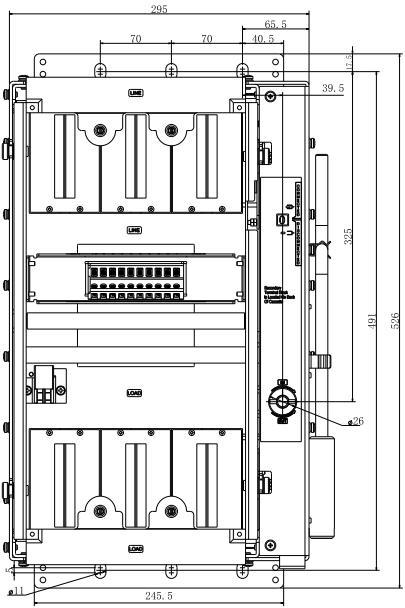
**PDC3, 4P**



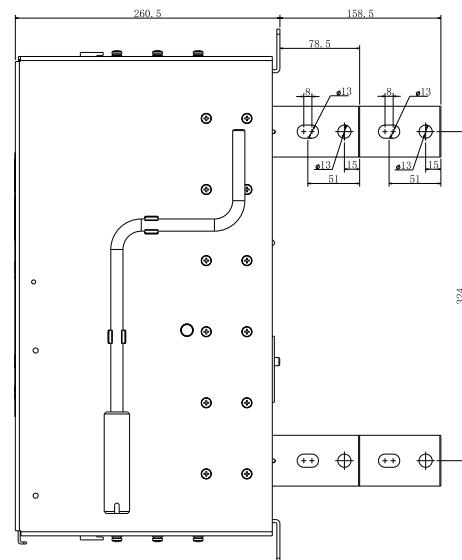
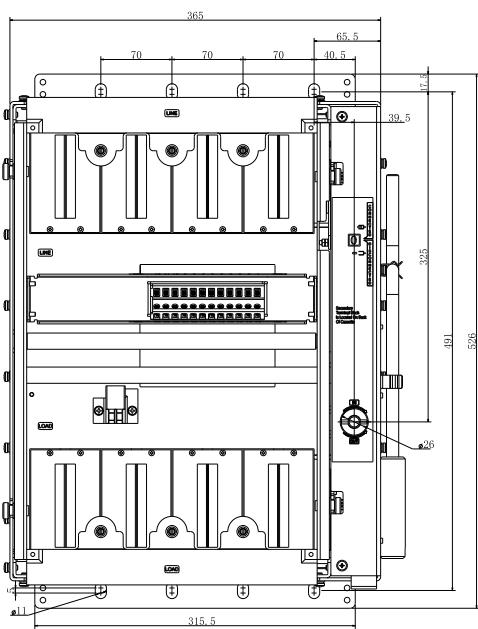
# Power Defense Molded Case Circuit Breaker Dimensions

## Withdrawal

PDC4, 3P



PDC4, 4P

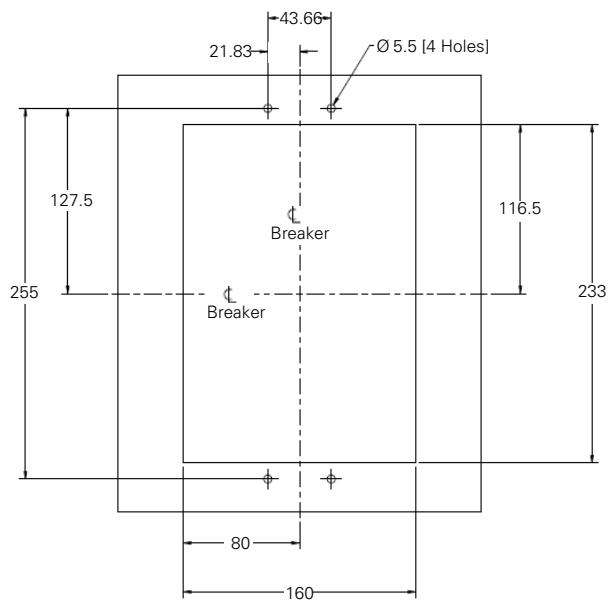


# Power Defense Molded Case Circuit Breaker

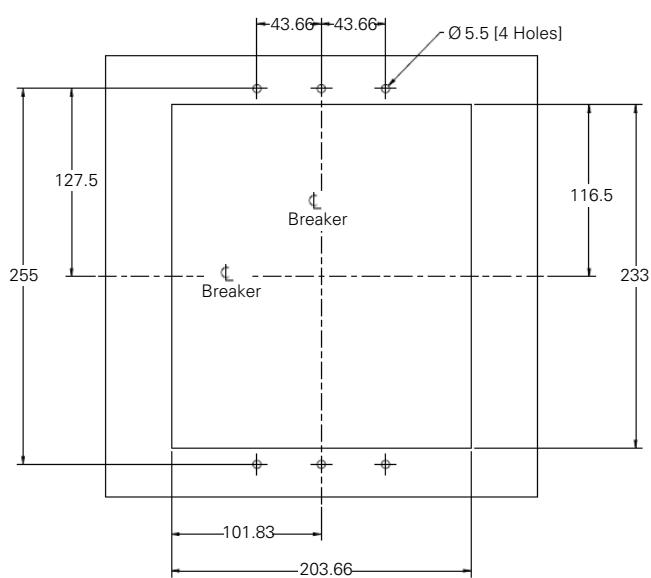
## Dimensions

### Cutout and Drilling Plan - mm

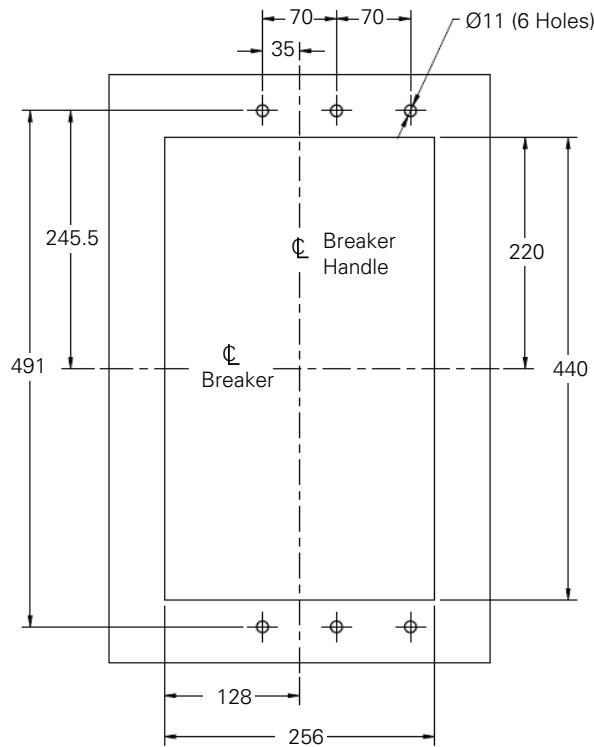
PDC3, 3P



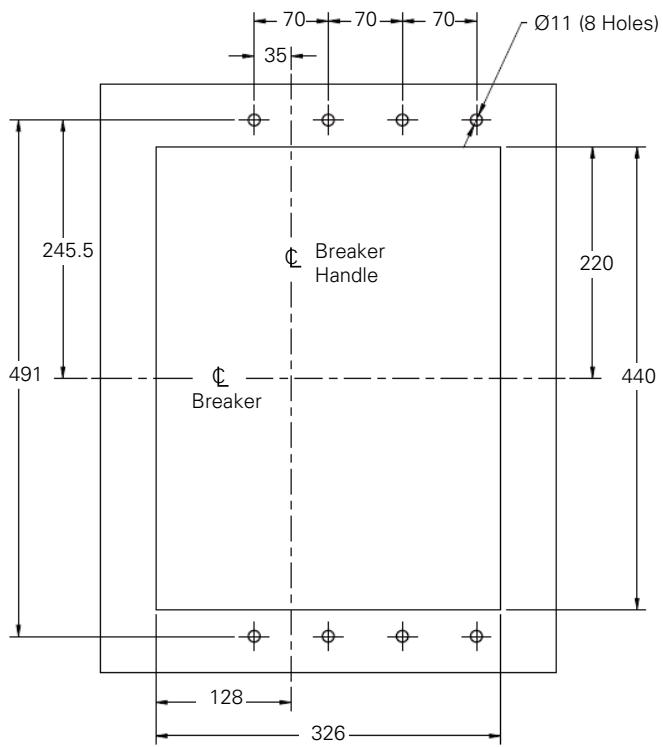
PDC3, 4P



PDC4, 3P



PDC4, 4P



**Note:** Support vertical and horizontal installation.

**Power Defense Molded Case Circuit Breaker**  
Dimensions



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