DATASHEET - P3-63/XM



Part no.

Main switch, P3, 63 A, rear mounting, 3 pole

P3-63/XM 172836

Line -	1/2830	
General specifications		
Product name		Eaton Moeller® series P3 Main switch
Part no.		P3-63/XM
EAN		4015081694198
Product Length/Depth		82 millimetre
Product height		84 millimetre
Product width		72 millimetre
Product weight		0.29 kilogram
Certifications		CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NLRV VDE 0660 UL IEC/EN 60947 CSA-C22.2 No. 94 UL File No.: E36332 CSA Class No.: 3211-05 IEC/EN 60947-3 CE IEC/EN 60204 CSA File No.: 012528 UL 60947-4-1 CSA
Product Tradename		P3
Product Type		Main switch
Product Sub Type		None
Catalog Notes		Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions		
Features		Version as main switch
Number of poles		3
General information		
Accessories		Auxiliary contact or neutral conductor fitted by user.
Degree of protection		NEMA 1
Degree of protection (front side)		IP65
Lifespan, mechanical		100,000 Operations
Mounting method		Rear mounting
Mounting position		As required
Operating frequency		1200 Operations/h
Overvoltage category		
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6000 V AC
Safe isolation		440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)		B10d values as per EN ISO 13849-1, table C.1
Shock resistance		15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for		Intermediate mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		50 °C
Ambient operating temperature (enclosed) - min		-25 °C
Ambient operating temperature (enclosed) - max		40 °C
Climatic proofing		Damp heat, constant, to IEC 60068-2-78
Terminal consoition		Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities		

Terminal capacity

12/12/2024

2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228

M5, Terminal screw 26.5 lb-in, Screw terminals 3 Nm, Screw terminals 640 A 640 A 600 A 590 A 340 A 51 A
3 Nm, Screw terminals 640 A 600 A 590 A 340 A
600 A 590 A 340 A
600 A 590 A 340 A
590 A 340 A
340 A
51 A
55 A
44 A
22.1 A
63 A
63 A
63 A
63 A
63 A
63 A
50 A
50 A
50 A
25 A
30 kW
30 kW
30 kW
30 kW
18.5 kW
30 kW
45 kW
55 kW
690 V
63 A
Rated uninterrupted current lu is specified for max. cross-section.
100 kA (Supply side) 4 kA (Load side)
1.26 kA
150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
80 A gG/gL, Fuse, Contacts
1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor)
1
2
2
3
60 A, Rated uninterrupted current max. (UL/CSA)
10A, IU, (UL/CSA)
A600 (UL/CSA) P600 (UL/CSA)
800 A

Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	50 HP
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10
Number of quillion contracts (change que contracts)	mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Other
Actuator type	Other
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	4.5 W
Rated operational current for specified heat dissipation (In)	63 A
Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])		
Version as main switch	Yes	
Version as maintenance-/service switch	No	
Version as safety switch	No	
Version as emergency stop installation	No	

Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	63
Rated permanent current at AC-23, 400 V	А	63
Rated permanent current at AC-21, 400 V	А	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	100
Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Other
Type of control element		Other
Interlockable		No
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		1
Width	mm	72
Height	mm	84
Depth	mm	82
Width in number of modular spacings		