Specifications

Eaton 216948

Eaton Moeller® series M22 Illuminated pushbutton actuator, RMQ-Titan, Flush, maintained, green, Blank, Bezel: titanium

General specifications

PRODUCT NAME	Eaton Moeller® series M22 Illuminated pushbutton actuator
CATALOG NUMBER	216948
EAN	4015082169480
MODEL CODE	M22-DRL-G
PRODUCT LENGTH/DEPTH	30 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.012 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA Std. C22.2 No. 14-05 EN 60947-5 UL 508 IEC 60947-5 CSA Std. C22.2 No. 94-91 VDE CSA File No.: 012528 CSA CSA-C22.2 No. 14-05 UL UL Category Control No.: NKCR IEC/EN 60947 VDE 0660 CSA Class No.: 3211-03 CSA-C22.2 No. 94-91 IEC/EN 60947-5 CE UL File No.: E29184 DNV GL LR

Features & Functions

BEZEL COLOR	Titanium
BEZEL MATERIAL	Plastic
DESIGN	Flush Classical

General

DEGREE OF PROTECTION	NEMA 3R NEMA 13 IP66 IP69K NEMA 4X

FITTED WITH:	Front ring
FUNCTIONS	Stay-put/spring-return function can be changed on device
INSCRIPTION	Blank

	NEMA 12 IP67
DEGREE OF PROTECTION (FRONT SIDE)	NEMA 4X IP67/IP69K
LIFESPAN, MECHANICAL	1,000,000 Operations (AC operated)
OPENING DIAMETER	22.5 mm
OPERATING FREQUENCY	1800 Operations/h
PRODUCT CATEGORY	RMQ-Titan
SIZE	Front diameter: 29.7 mm
SUITABLE FOR	Illumination
TYPE	Illuminated pushbutton actuator

Ambient conditions, mechanical

MOUNTING POSITION	As required
SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27 30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Communication

CONNECTION TO SMARTWIRE-DT	With SWD-RMQ connections Yes

Actuator

ACTUATING FORCE	5 N
ACTUATOR COLOR	Green
ACTUATOR FUNCTION	Switching function latching Maintained

Contacts

FORCE FOR POSITIVE OPENING - MIN	0 N

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 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	Please enquire
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	Not applicable.
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

Resources

CATALOGS	[Flip catalog - Product Range Catalog - Command and indication](#) [eaton-rmq-titan-brochure-br047004en-en-us.pdf](#) [eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)
CERTIFICATION REPORTS	[0000SPC-179](#) [0000SPC-183](#)
DECLARATIONS OF CONFORMITY	[DA-DC-00004135.pdf](#) [DA-DC-00004157.pdf](#)
DRAWINGS	[116X214](#) [116X103](#) [eaton-operating-pushbutton-m22-dimensions-004.eps](#) [eaton-operating-actuation-m22-dimensions-002.eps](#) [116C059](#) [eaton-operating-samrtwire-m22-3d-drawing.eps](#) [116I256](#) [eaton-operating-button-symbol-004.eps](#) [eaton-general-approval-m22-symbol.eps](#) [eaton-general-m22-symbol.eps](#) [0000SPC-180](#) [eaton-general-m22-standards.eps](#)
ECAD MODEL	[ETN.216948.edz](#) [ETN.M22-DRL-G](#)
INSTALLATION INSTRUCTIONS	[IL04716002Z](#)
INSTALLATION VIDEOS	[RMQ Flat Design](#)
MCAD MODEL	[eaton-cadenas-side_view-drucktaste_flach_side.pra](#) [eaton-cadenas-front_view-drucktaste_flach_front.pra](#) [DA-CD-drucktaste_flach](#) [eaton-cadenas-path-temp-drucktaste_flach.3db](#) [DA-CS-drucktaste_flach](#)

MULTIMEDIA	[MCI Multicolor Light Indicator M22 with SmartWire-DT](#) [easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator](#) [MCI MultiColor Light Indicator RMQ compact solution](#) [RMQ small E-Stop emergency-stop button](#)
SALES NOTES	[eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf](#) [eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf](#) [eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf](#) [eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf](#)
SYSTEM OVERVIEW	[Pilot devices - selection aid](#)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	