Specifications

Eaton 216512

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Flat, momentary, 1 N/O, green, inscribed, Bezel: titanium

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 Pushbutton
CATALOG NUMBER	216512
MODEL CODE	M22-D-G-X1/K10
EAN	4015082165123
PRODUCT LENGTH/DEPTH	70 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.026 kg
CERTIFICATIONS	CSA-C22.2 No. 94-91 IEC/EN 60947-5 UL UL Category Control No.: NKCR UL File No.: E29184 CE CSA Class No.: 3211-03 CSA CSA-C22.2 No. 14-05 IEC/EN 60947 VDE 0660 CSA File No.: 012528 UL 508 DNV GL LR

Powering Business Worldwide

Features & Functions

BEZEL COLOR	Titanium
BEZEL MATERIAL	Plastic
DESIGN	Flat Classical
ELECTRIC CONNECTION TYPE	Screw connection
FITTED WITH:	Front ring
INSCRIPTION	Inscribed

General

DEGREE OF PROTECTION	NEMA 4X, 13 IP67/IP69K
LIFESPAN, MECHANICAL	1,000,000 Operations (AC operated)
OPENING DIAMETER	22.5 mm
OPERATING FREQUENCY	1800 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	RMQ-Titan
SIZE	Front dimensions: 22 x 22 mm
TYPE	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

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA

Communication

CONNECTION TO SMARTWIRE-DT	No
CONNECTION TYPE	Screw connection

Actuator

ACTUATING FORCE	5 N
ACTUATOR COLOR	Green
ACTUATOR DIAMETER	29.7 mm
ACTUATOR FUNCTION	Spring-return Momentary

Contacts

FORCE FOR POSITIVE OPENING - MIN	0 N
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.11 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 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.

Resources

CATALOGUES	eaton-rmq-titan-brochure-br047004en-en-us.pdf Flip catalog - Product Range Catalog - Command and indication eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00004157.pdf DA-DC-00004135.pdf
DRAWINGS	116C087 eaton-general-approval-m22-symbol.eps eaton-general-m22-standards.eps eaton-general-m22-symbol.eps
ECAD MODEL	ETN.216512.edz
FLYERS	eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf
INSTALLATION INSTRUCTIONS	IL04716002Z
INSTALLATION VIDEOS	RMQ Flat Design
MCAD MODEL	DA-CD-bg_d_100 DA-CS-bg_d_100
MULTIMEDIA	easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator RMQ small E-Stop emergency-stop button MCI MultiColor Light Indicator RMQ compact solution MCI Multicolor Light Indicator M22 with SmartWire-DT
SALES NOTES	eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf

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.

	eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf
WIRING DIAGRAMS	eaton-operating-pushbutton-m22-wiring-diagram.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

Follow us on social media to get the latest product and support information.