

# Specifications

## Eaton 216510

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Flat, momentary, 1 NC, red, inscribed, Bezel: titanium

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series M22 Pushbutton
<b>CATALOG NUMBER</b>	216510
<b>MODEL CODE</b>	M22-D-R-X0/K01
<b>EAN</b>	4015082165109
<b>PRODUCT LENGTH/DEPTH</b>	70 mm
<b>PRODUCT HEIGHT</b>	30 mm
<b>PRODUCT WIDTH</b>	30 mm
<b>PRODUCT WEIGHT</b>	0.026 kg
<b>CERTIFICATIONS</b>	CE IEC/EN 60947-5 UL 508 VDE 0660 CSA-C22.2 No. 14-05 CSA-C22.2 No. 94-91 UL UL Category Control No.: NKCR CSA Class No.: 3211-03 IEC/EN 60947 UL File No.: E29184 CSA CSA File No.: 012528 DNV GL LR
<b>CATALOG NOTES</b>	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

## Features & Functions

BEZEL COLOR	Chrome
BEZEL MATERIAL	Plastic
DESIGN	Flat Classical
ELECTRIC CONNECTION TYPE	Screw connection
FEATURES	Positive opening
FITTED WITH:	Front ring
INSCRIPTION	Inscribed

## Ambient conditions, mechanical

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

## Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
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## Actuator

ACTUATING FORCE	5 N
ACTUATOR COLOR	Red
ACTUATOR DIAMETER	29.7 mm
ACTUATOR FUNCTION	Spring-return Momentary
ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)	4.8 mm
KNOB TRAVEL	5.7 mm

## 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

## Climatic environmental conditions

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

## Communication

CONNECTION TO SMARTWIRE-DT	No
CONNECTION TYPE	Screw connection

## Contacts

FORCE FOR POSITIVE OPENING - MIN	15 N
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0

## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.11 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	6 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Please enquire
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.

## Resources

	<a href="#">eaton-rmq-titan-brochure-br047004en-en-us.pdf</a>
	<a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>
<b>CATALOGUES</b>	<a href="#">Flip catalog - Product Range Catalog - Command and indication</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004157.pdf</a> <a href="#">DA-DC-00004135.pdf</a>
	<a href="#">eaton-general-m22-symbol.eps</a>
	<a href="#">eaton-general-approval-m22-symbol.eps</a>
<b>DRAWINGS</b>	<a href="#">eaton-general-m22-standards.eps</a> <a href="#">116C079</a>
<b>ECAD MODEL</b>	<a href="#">ETN.216510.edz</a>
<b>FLYERS</b>	<a href="#">eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL04716002Z</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">RMQ Flat Design</a>
<b>MCAD MODEL</b>	<a href="#">DA-CS-bg_d_001</a> <a href="#">DA-CD-bg_d_001</a>
	<a href="#">RMQ small E-Stop emergency-stop button</a>
	<a href="#">MCI MultiColor Light Indicator RMQ compact solution</a>
<b>MULTIMEDIA</b>	<a href="#">MCI Multicolor Light Indicator M22 with SmartWire-DT</a> <a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a>
<b>SALES NOTES</b>	<a href="#">eaton-control-circuit-devices-rmq-titan-fl144090en-en-us.pdf</a>

<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

	<a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf</a>
	<a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>
	<a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>
<b>WIRING DIAGRAMS</b>	<a href="#">116S017</a>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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