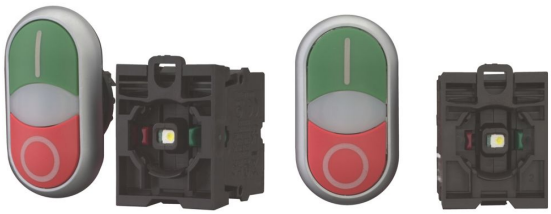
Specifications



Eaton 216509

Eaton Moeller® series M22 Double actuator pushbutton, RMQ-Titan, Actuators and indicator lights non-flush, momentary, 1 NC, 1 N/O, White lens, LED element, 85 - 264 V AC, green, red, inscribed, Bezel: titanium

General specifications

PRODUCT NAME	Eaton Moeller® series M22 Double actuator pushbutton
CATALOG NUMBER	216509
MODEL CODE	M22-DDL-GR-X1/X0/K11/230-W
EAN	4015082165093
PRODUCT LENGTH/DEPTH	30 mm
PRODUCT HEIGHT	55 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.015 kg
CERTIFICATIONS	CSA-C22.2 No. 94-91 CSA Class No.: 3211-03 CSA-C22.2 No. 14-05 IEC/EN 60947-5 UL File No.: E29184 UL CSA CSA File No.: 012528 IEC/EN 60947 CE UL 508 UL Category Control No.: NKCR VDE 0660 DNV GL LR

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Features & Functions

BEZEL COLOR	Chrome
BEZEL MATERIAL	Plastic
DESIGN	Non-Flush Classical
ELECTRIC CONNECTION TYPE	Screw connection
FEATURES	Transparent
FITTED WITH:	Front ring LED element
INSCRIPTION	Inscribed
LIGHT COLOR	White

General

DEGREE OF PROTECTION	NEMA 4X, 13 IP66
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: 29,7 x 54,7 mm
SUITABLE FOR	Illumination
TYPE	Double actuator

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

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, red
ACTUATOR FUNCTION	Spring-return Momentary
ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)	4.8 mm
KNOB TRAVEL	5.7 mm

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)	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	1 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	eaton-pushbutton-declaration-of-conformity-uk251340en.pdf eaton-pushbutton-declaration-of-conformity-uk251341en.pdf DA-DC-00004135.pdf DA-DC-00004157.pdf eaton-pushbutton-declaration-of-conformity-eu250857en.pdf eaton-pushbutton-declaration-of-conformity-eu250858en.pdf
DRAWINGS	eaton-operating-pushbutton-m22-double-actuator-pushbutton-dimensions.eps eaton-operating-actuation-m22-dimensions.eps eaton-general-approval-m22-symbol.eps eaton-general-m22-standards.eps eaton-operating-button-m22-double-actuator-pushbutton-symbol-010.eps eaton-general-m22-symbol.eps
ECAD MODEL	DA-CE-ETN.M22-DDL-GR-X1_X0_K11_230-W

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.

FLYERS	eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf
INSTALLATION INSTRUCTIONS	IL04716002Z
INSTALLATION VIDEOS	RMQ Flat Design
MCAD MODEL	DA-CD-bg_dd_1led1 DA-CS-bg_dd_1led1
MULTIMEDIA	RMQ small E-Stop emergency-stop button MCI MultiColor Light Indicator RMQ compact solution easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator MCI Multicolor Light Indicator M22 with SmartWire-DT
SALES NOTES	eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf 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-diagram-m22-double-actuator-pushbutton-wiring-diagram.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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