Specifications



Eaton 216590

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Flat, momentary, black, Blank, Bezel: titanium

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 pushbutton
CATALOG NUMBER	216590
MODEL CODE	M22-D-S
EAN	4015082165901
PRODUCT LENGTH/DEPTH	30 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.009 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	IEC 60947-5 EN 60947-5 UL 508 CSA Std. C22.2 No. 94-91 CSA Std. C22.2 No. 14-05 VDE CSA CSA-C22.2 No. 94-91 UL File No.: E29184 CE IEC/EN 60947 UL Category Control No.: NKCR VDE 0660 UL CSA Class No.: 3211-03 CSA File No.: 012528 CSA-C22.2 No. 14-05 IEC/EN 60947-5 DNV GL LR

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Actuator

ACTUATING FORCE	5 N
ACTUATOR COLOR	Black
ACTUATOR FUNCTION	Spring-return Momentary
BEZEL COLOR	Titanium
BEZEL MATERIAL	Plastic
DESIGN	Flat Classical
FITTED WITH:	Front ring
INSCRIPTION	Blank
LENS TYPE	Round
NUMBER OF COMMAND POSITIONS	1

Communication

CONNECTION TO SMARTWIRE-DT	Yes With SWD-RMQ connections

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Design verification

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 leaflet (IL) is observed.
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.
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

General information

DEGREE OF PROTECTION	IP69K NEMA 13 NEMA 3R IP67 IP66 NEMA 4X NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	NEMA 4X IP67/IP69K
LIFESPAN, MECHANICAL	5,000,000 Operations
MOUNTING POSITION	As required
OPENING DIAMETER	22.5 mm
OPERATING FREQUENCY	3600 Operations/h
PRODUCT CATEGORY	RMQ-Titan
SIZE	Front dimensions: 22 x 22 mm
TYPE	Pushbutton actuator

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-double-actuator-pushbutton-declaration-of-conformity-eu251536en.pdf
DRAWINGS	eaton-operating-pushbutton-m22-dimensions-003.eps eaton-operating-pushbutton-m22-dimensions-004.eps eaton-operating-actuation-m22-dimensions-002.eps eaton-operating-samrtwire-m22-3d-drawing.eps eaton-operating-button-symbol-005.eps eaton-general-approval-m22-symbol.eps eaton-general-m22-symbol.eps eaton-general-m22-standards.eps
ECAD MODEL	ETN.216590.edz
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	eaton-pushbuttons-mcad-drawings-drucktaste-flach.dwg DA-CS-drucktaste_flach
PEP ECO-PASSPORT	eaton-operating-devices-rmq-titan-m22-il047018zu.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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