Specifications





Eaton 216889

Eaton Moeller® series M22 Key-operated actuator, maintained, 2 positions, Key withdrawable: 0, I, Bezel: black

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 key-operated actuator
CATALOG NUMBER	216889
MODEL CODE	M22S-WRS
EAN	4015082168896
PRODUCT LENGTH/DEPTH	70 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.031 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	EN 60947-5 IEC 60947-5 CSA Std. C22.2 No. 94-91 UL 508 CSA Std. C22.2 No. 14-05 VDE UL File No.: E29184 CE CSA File No.: 012528 CSA-C22.2 No. 14-05 CSA CSA Class No.: 3211-03 UL UL Category Control No.: NKCR CSA-C22.2 No. 94-91 IEC/EN 60947 IEC/EN 60947-5 VDE 0660 DNV GL LR

Actuator

ACTUATOR COLOR	Black
ACTUATOR FUNCTION	Key withdrawable in position 0 Maintained Key withdrawable in position 1 Switching function latching
ACTUATOR TYPE	Key
BEZEL COLOR	Black
BEZEL MATERIAL	Plastic
DESIGN	Key operated Classical
FITTED WITH:	Front ring
FUNCTIONS	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
INDICATOR COLOR	Other
LENS TYPE	Round
NUMBER OF SWITCH POSITIONS	2

Communication

CONNECTION TO SMARTWIRE-DT	With SWD-RMQ connections Yes

Climatic environmental conditions

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

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

ACCESSORIES	1 key included with supplied equipment.
DEGREE OF PROTECTION	NEMA 4X, 13
DEGREE OF PROTECTION (FRONT SIDE)	IP66
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING POSITION	As required
OPENING DIAMETER	22.5 mm
OPERATING FREQUENCY	100 Operations/h
OPERATING TORQUE	0.5 Nm
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	RMQ-Titan
SIZE	Front diameter: 29.7 mm
SWITCHING ANGLE	60 °
TYPE	Key-operated button

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-key-operated-actuator-declaration-of-conformity-eu251544en.pdf
DRAWINGS	eaton-operating-key-operated-actuator-dimensions-005.eps eaton-general-m22-standards.eps eaton-general-m22-symbol.eps eaton-general-approval-m22-symbol.eps
ECAD MODEL	ETN.216889.edz
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	DA-CS-schluesseltaste_ms
PEP ECO-PASSPORT	eaton-front-element-for-selector-switches-pep-eato-00336-v0101-en.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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