

# Specifications

## Eaton 187099



Photo is representative



Eaton Moeller® series M30 Key-operated actuator, Flat Front, maintained, 3 positions, Ronis 455, Key withdrawable: 0, Metal bezel

### General specifications

PRODUCT NAME	Eaton Moeller® series M30 Key-operated actuator
CATALOG NUMBER	187099
MODEL CODE	M30C-FWRS3-RS-A1
EAN	4015081821532

PRODUCT LENGTH/DEPTH	36 mm
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PRODUCT HEIGHT	67 mm
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PRODUCT WIDTH	46 mm
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PRODUCT WEIGHT	0.06 kg
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### CERTIFICATIONS

VDE 0660  
IEC/EN 60947  
CSA file No. 012528  
CSA Class No.: 3211-03  
DNV  
UL File No.: E29184  
GL  
IEC/EN 60947-5  
UL 508  
CSA-C22.2 No. 14-05  
CSA-C22.2 No. 94-91  
CE marking  
UL Category Control No.:  
NKCR  
UL Listed  
CSA certified

## Product specifications

<b>TYPE</b>	Key-operated button
<b>ACCESSORIES</b>	2 keys included with supplied equipment.
<b>ACTUATOR COLOR</b>	Black
<b>ACTUATOR FUNCTION</b>	Switching function latching Maintained Key withdrawable in position 0
<b>10.10 TEMPERATURE RISE</b>	Not applicable.
<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.
<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.
<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</b>	Is the panel builder's responsibility.

<b>AND CONNECTIONS</b>	
<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>FITTED WITH:</b>	Front ring Plunger bridge for the middle contact
<b>OPERATING FREQUENCY</b>	100 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>CONNECTION TO SMARTWIRE-DT</b>	With SWD-RMQ connections Yes
<b>ACTUATOR TYPE</b>	Key
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>FORCE FOR POSITIVE OPENING - MIN</b>	0 N
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W
<b>OPENING DIAMETER</b>	30 mm
<b>OPENING HEIGHT</b>	0 mm
<b>OPERATING TORQUE</b>	0.5 Nm
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	60 °
<b>WIDTH OPENING</b>	0 mm
<b>BEZEL COLOR</b>	Titanium
<b>SHOCK RESISTANCE</b>	Mechanical, According to IEC/EN 60068-2-27 15 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms

<b>KEY CODE</b>	Ronis 455
<b>BEZEL MATERIAL</b>	Metal
<b>DESIGN</b>	Key operation lock mechanism Flat front
<b>MOUNTING POSITION</b>	As required
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DEGREE OF PROTECTION</b>	NEMA 4X, 13
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP64
<b>FUNCTIONS</b>	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
<b>INDICATOR COLOR</b>	Other
<b>LENS TYPE</b>	Round
<b>LIFESPAN, MECHANICAL</b>	100,000 Operations
<b>NUMBER OF SWITCH POSITIONS</b>	3
<b>SIZE</b>	Front dimensions: Ø 36 mm
<b>PRODUCT CATEGORY</b>	RMQ-Titan

## Resources

<b>CATALOGS</b>	<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>
	<a href="#">Flip catalog - Product Range Catalog - Command and indication</a>
<b>CERTIFICATION REPORTS</b>	<a href="#">0000SPC-183</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004135.pdf</a> <a href="#">DA-DC-00004157.pdf</a>
<b>DRAWINGS</b>	<a href="#">1160DIM-158</a> <a href="#">1160DIM-170</a> <a href="#">1160DIM-169</a>
	<a href="#">eaton-operating-m30-dimensions-006.eps</a>
	<a href="#">eaton-operating-m30-key-operated-actuator-dimensions-003.eps</a>
	<a href="#">eaton-operating-m30-dimensions-004.eps</a>
	<a href="#">1160DIM-184</a>
	<a href="#">eaton-operating-m30-dimensions-005.eps</a>
	<a href="#">1160DRW-457</a> <a href="#">eaton-general-m22-symbol.eps</a>
	<a href="#">0000SPC-180</a>
	<a href="#">eaton-operating-m30-key-operated-actuator-3d-drawing-003.eps</a>
	<a href="#">eaton-general-approval-m22-symbol.eps</a>

<b>ECAD MODEL</b>	<a href="#">ETN.187099.edz</a>
	<a href="#">DA-CE-ETN.M30C-FWRS3-RS-A1</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-operating-devices-m30-rmq-titan-flat-front-instruction-leaflet-il047019zu.pdf</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">RMO Flat Design</a>
<b>MCAD MODEL</b>	<a href="#">eaton-cadenas-front_view-schluesseltaste_rs_flatfront front view front.pra</a>
	<a href="#">eaton-cadenas-side_view-schluesseltaste_rs_flatfront side view side.pra</a>
	<a href="#">DA-CS-schluesseltaste_rs_flatfront</a>
	<a href="#">eaton-cadenas-path-icd_flatfront m30-schluesseltaste_rs_flatfront.3db</a>
	<a href="#">DA-CD-schluesseltaste_rs_flatfront</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 RMO multi color indicator</a>
	<a href="#">RMO small E-Stop emergency-stop button</a>
	<a href="#">MCI MultiColor Light Indicator RMO compact solution</a>
<b>SALES NOTES</b>	<a href="#">eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf</a>
	<a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf</a>
	<a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>
	<a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>
<b>SYSTEM OVERVIEW</b>	<a href="#">Pilot devices - selection aid</a>

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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