

# Specifications



Photo is representative



## Eaton 187097

Eaton Moeller® series M30 Key-operated actuator, Flat Front, maintained, 3 positions, MS3, Key withdrawable: I, 0, II, Metal bezel

### General specifications

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M30 key-operated actuator |
| <b>CATALOG NUMBER</b>       | 187097                                          |
| <b>MODEL CODE</b>           | M30C-FWRS3-MS3                                  |
| <b>EAN</b>                  | 4015081821518                                   |
| <b>PRODUCT LENGTH/DEPTH</b> | 36 mm                                           |
| <b>PRODUCT HEIGHT</b>       | 67 mm                                           |
| <b>PRODUCT WIDTH</b>        | 46 mm                                           |
| <b>PRODUCT WEIGHT</b>       | 0.06 kg                                         |
| <b>CERTIFICATIONS</b>       | VDE 0660<br>IEC/EN 60947                        |



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## Actuator

|                                   |                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>ACTUATOR COLOR</b>             | Black                                                                                                             |
| <b>ACTUATOR FUNCTION</b>          | Switching function latching<br><br>Maintained<br>Key withdrawable in position 2<br>Key withdrawable in position 0 |
| <b>ACTUATOR TYPE</b>              | Key                                                                                                               |
| <b>BEZEL COLOR</b>                | Titanium                                                                                                          |
| <b>BEZEL MATERIAL</b>             | Metal                                                                                                             |
| <b>DESIGN</b>                     | Key operation lock mechanism                                                                                      |
| <b>FITTED WITH:</b>               | Front ring<br>Plunger bridge for the middle contact                                                               |
| <b>FUNCTIONS</b>                  | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y                                        |
| <b>INDICATOR COLOR</b>            | Other                                                                                                             |
| <b>KEY CODE</b>                   | MS3                                                                                                               |
| <b>LENS TYPE</b>                  | Round                                                                                                             |
| <b>NUMBER OF SWITCH POSITIONS</b> | 3                                                                                                                 |

## Communication

|                                   |                                 |
|-----------------------------------|---------------------------------|
| <b>CONNECTION TO SMARTWIRE-DT</b> | Yes<br>With SWD-RMQ connections |
|-----------------------------------|---------------------------------|

## Climatic environmental conditions

|                                            |                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 70 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C                                                                         |
| <b>CLIMATIC PROOFING</b>                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |

## Design verification

|                                                                 |                                                                                                          |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <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 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>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 W                                                                |

|                                                                              |     |
|------------------------------------------------------------------------------|-----|
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 0 A |
|------------------------------------------------------------------------------|-----|

|                                                                        |     |
|------------------------------------------------------------------------|-----|
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b> | 0 W |
|------------------------------------------------------------------------|-----|

## General information

|                    |                                         |
|--------------------|-----------------------------------------|
| <b>ACCESSORIES</b> | 1 key included with supplied equipment. |
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|                             |             |
|-----------------------------|-------------|
| <b>DEGREE OF PROTECTION</b> | NEMA 4X, 13 |
|-----------------------------|-------------|

|                                              |      |
|----------------------------------------------|------|
| <b>DEGREE OF PROTECTION<br/>(FRONT SIDE)</b> | IP64 |
|----------------------------------------------|------|

|                             |                    |
|-----------------------------|--------------------|
| <b>LIFESPAN, MECHANICAL</b> | 100,000 Operations |
|-----------------------------|--------------------|

|                          |             |
|--------------------------|-------------|
| <b>MOUNTING POSITION</b> | As required |
|--------------------------|-------------|

|                         |       |
|-------------------------|-------|
| <b>OPENING DIAMETER</b> | 30 mm |
|-------------------------|-------|

|                            |                  |
|----------------------------|------------------|
| <b>OPERATING FREQUENCY</b> | 100 Operations/h |
|----------------------------|------------------|

|                         |        |
|-------------------------|--------|
| <b>OPERATING TORQUE</b> | 0.5 Nm |
|-------------------------|--------|

|                                 |     |
|---------------------------------|-----|
| <b>OVERVOLTAGE<br/>CATEGORY</b> | III |
|---------------------------------|-----|

|                         |   |
|-------------------------|---|
| <b>POLLUTION DEGREE</b> | 3 |
|-------------------------|---|

|                         |           |
|-------------------------|-----------|
| <b>PRODUCT CATEGORY</b> | RMQ-Titan |
|-------------------------|-----------|

|             |                           |
|-------------|---------------------------|
| <b>SIZE</b> | Front dimensions: Ø 36 mm |
|-------------|---------------------------|

|                        |      |
|------------------------|------|
| <b>SWITCHING ANGLE</b> | 60 ° |
|------------------------|------|

|             |                     |
|-------------|---------------------|
| <b>TYPE</b> | Key-operated button |
|-------------|---------------------|

## Resources

|            |                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------|
| CATALOGUES | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a> |
|------------|----------------------------------------------------------------------------------------------------------|

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-illuminated-pushbutton-declaration-of-conformity-eu251546en.pdf</a> |
|----------------------------|---------------------------------------------------------------------------------------|

|          |                                                                          |
|----------|--------------------------------------------------------------------------|
| DRAWINGS | <a href="#">eaton-operating-m30-dimensions-004.eps</a>                   |
|          | <a href="#">eaton-operating-m30-dimensions-005.eps</a>                   |
|          | <a href="#">eaton-operating-m30-key-operated-actuator-dimensions.eps</a> |
|          | <a href="#">eaton-operating-m30-dimensions-006.eps</a>                   |
|          | <a href="#">eaton-general-m22-symbol.eps</a>                             |
|          | <a href="#">eaton-operating-m30-key-operated-actuator-3d-drawing.eps</a> |
|          | <a href="#">eaton-general-approval-m22-symbol.eps</a>                    |

|            |                                |
|------------|--------------------------------|
| ECAD MODEL | <a href="#">ETN.187097.edz</a> |
|------------|--------------------------------|

|                           |                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-operating-devices-m30-rmq-titan-flat-front-instruction-leaflet-il047019zu.pdf</a> |
|---------------------------|-----------------------------------------------------------------------------------------------------|

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| MCAD MODEL | <a href="#">eaton-switches-mcad-drawings-schluesseltaste-ms.dwg</a> |
|            | <a href="#">DA-CS-schluesseltaste_ms_flatfront</a>                  |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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