

# Specifications



Photo is representative

## Eaton 216524

Eaton Moeller® series M22 Housing, Controlled stop pushbuttons/emergency-stop buttons, Mushroom-shaped, 38 mm, Non-illuminated, Pull-to-release function, 2 NC, Screw connection, Red, Yellow

### General specifications

|                             |                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 Housing                                                                                                                                                                                               |
| <b>CATALOG NUMBER</b>       | 216524                                                                                                                                                                                                                          |
| <b>MODEL CODE</b>           | M22-PV/KC02/IY                                                                                                                                                                                                                  |
| <b>EAN</b>                  | 4015082165246                                                                                                                                                                                                                   |
| <b>PRODUCT LENGTH/DEPTH</b> | 100 mm                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>       | 80 mm                                                                                                                                                                                                                           |
| <b>PRODUCT WIDTH</b>        | 72 mm                                                                                                                                                                                                                           |
| <b>PRODUCT WEIGHT</b>       | 0.194 kg                                                                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | CSA<br>CSA-C22.2 No. 14-05<br>UL 508<br>CSA-C22.2 No. 94-91<br>IEC/EN 60947-5<br>UL<br>CE<br>UL Category Control No.: NKCR<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>IEC/EN 60947<br>VDE 0660 |
| <b>GLOBAL CATALOG</b>       | 216524                                                                                                                                                                                                                          |

## Product specifications

|             |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b> | <ul style="list-style-type: none"> <li>Controlled stop pushbutton/emergency-stop button</li> <li>Housing</li> </ul> |
|-------------|---------------------------------------------------------------------------------------------------------------------|

|                       |     |
|-----------------------|-----|
| <b>ACTUATOR COLOR</b> | Red |
|-----------------------|-----|

|                          |                 |
|--------------------------|-----------------|
| <b>ACTUATOR FUNCTION</b> | Pull-to-release |
|--------------------------|-----------------|

|                               |                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b> | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------|
| <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. |
|--------------------------------------------|------------------------------------------------------------------------------------------------|

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|----------------------------------|----------------------------------------------------------------------------------------------------------|
| <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 |
|-----------------------|---------------------------------------------------------|

## Resources

### CATALOGS

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

|                              |                         |
|------------------------------|-------------------------|
| <b>CERTIFICATION REPORTS</b> | <a href="#">000Z425</a> |
|------------------------------|-------------------------|

|                                   |                                                                          |
|-----------------------------------|--------------------------------------------------------------------------|
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">DA-DC-00004971.pdf</a><br><a href="#">DA-DC-00004975.pdf</a> |
|-----------------------------------|--------------------------------------------------------------------------|

### DRAWINGS

[eaton-operating-emergency-m22-dimensions.eps](#)

[eaton-operating-m22-housing-dimensions.eps](#)

[000Z051](#)

[eaton-general-m22-symbol.eps](#)

[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)

[eaton-operating-button-symbol-006.eps](#)

[eaton-general-approval-m22-symbol.eps](#)

[eaton-operating-button-symbol-008.eps](#)

[eaton-general-m22-standards.eps](#)

|                   |                                    |
|-------------------|------------------------------------|
| <b>ECAD MODEL</b> | <a href="#">ETN.M22-PV KC02_IY</a> |
|-------------------|------------------------------------|

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| <b>FLYERS</b> | <a href="#">eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf</a> |
|---------------|---------------------------------------------------------------------------|

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| <b>INSTALLATION INSTRUCTIONS</b> | <a href="#">IL04716003Z</a><br><a href="#">IL04716005Z.pdf</a> |
|----------------------------------|----------------------------------------------------------------|

|                            |                                 |
|----------------------------|---------------------------------|
| <b>INSTALLATION VIDEOS</b> | <a href="#">RMQ Flat Design</a> |
|----------------------------|---------------------------------|

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| <b>MCAD MODEL</b> | <a href="#">DA-CS-bg_pv_aufbaug</a><br><a href="#">DA-CD-bg_pv_aufbaug</a> |
|-------------------|----------------------------------------------------------------------------|

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                 | 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>OPERATING FREQUENCY</b>                                      | 600 Operations/h                                                               |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| <b>CONNECTION TO SMARTWIRE-DT</b>                               | No                                                                             |
| <b>ENCLOSURE MATERIAL</b>                                       | Plastic                                                                        |
| <b>ACTUATING FORCE</b>                                          | 50 N                                                                           |
| <b>ACTUATOR DIAMETER</b>                                        | 38 mm                                                                          |

|                                      |                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>MULTIMEDIA</b>                    | <a href="#">MCI MultiColor Light Indicator RMQ compact solution</a>                                |
|                                      | <a href="#">RMQ small E-Stop emergency-stop button</a>                                             |
|                                      | <a href="#">MCI Multicolor Light Indicator M22 with SmartWire-DT</a>                               |
|                                      | <a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a> |
| <b>SALES NOTES</b>                   | <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-control circuit-devices rmq-titan-fl144090en-en-us.pdf</a>                       |
|                                      | <a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>                                |
| <b>SPECIFICATIONS AND DATASHEETS</b> | <a href="#">Eaton Specification Sheet - 216524</a>                                                 |
| <b>WIRING DIAGRAMS</b>               | <a href="#">eaton-operating-contact-m22-housing-wiring-diagram-002.eps</a>                         |

|                                                                           |                 |
|---------------------------------------------------------------------------|-----------------|
| <b>ACTUATOR TRAVEL<br/>AND ACTUATION<br/>FORCE (DIN EN<br/>60947-5-1)</b> | 4.8 mm          |
| <b>AMBIENT<br/>OPERATING<br/>TEMPERATURE - MAX</b>                        | 70 °C           |
| <b>AMBIENT<br/>OPERATING<br/>TEMPERATURE - MIN</b>                        | -25 °C          |
| <b>EQUIPMENT HEAT<br/>DISSIPATION,<br/>CURRENT-<br/>DEPENDENT PVID</b>    | 0 W             |
| <b>FORCE FOR POSITIVE<br/>OPENING - MIN</b>                               | 30 N            |
| <b>HEAT DISSIPATION<br/>CAPACITY PDISS</b>                                | 0 W             |
| <b>HEAT DISSIPATION<br/>PER POLE, CURRENT-<br/>DEPENDENT PVID</b>         | 0.11 W          |
| <b>KNOB TRAVEL</b>                                                        | 5.7 mm          |
| <b>NUMBER OF<br/>BUTTONS<br/>(MUSHROOM SHAPE)</b>                         | 1               |
| <b>NUMBER OF<br/>COMMAND<br/>POSITIONS</b>                                | 1               |
| <b>NUMBER OF<br/>CONTACTS (CHANGE-<br/>OVER CONTACTS)</b>                 | 0               |
| <b>NUMBER OF<br/>CONTACTS<br/>(NORMALLY CLOSED<br/>CONTACTS)</b>          | 2               |
| <b>NUMBER OF<br/>CONTACTS<br/>(NORMALLY OPEN<br/>CONTACTS)</b>            | 0               |
| <b>NUMBER OF KEY<br/>SWITCHES</b>                                         | 0               |
| <b>NUMBER OF PILOT<br/>LIGHTS</b>                                         | 0               |
| <b>NUMBER OF<br/>PUSHBUTTONS</b>                                          | 0               |
| <b>ENCLOSURE COLOR</b>                                                    | Yellow          |
| <b>ILLUMINATION</b>                                                       | Non-illuminated |
| <b>NUMBER OF<br/>SWITCHES</b>                                             | 0               |

|                                                                      |                                                                                                      |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>(SELECTOR)</b>                                                    |                                                                                                      |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>          | 500 V                                                                                                |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>          | 115 V                                                                                                |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>          | 500 V                                                                                                |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>          | 115 V                                                                                                |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>                 | 220 V                                                                                                |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>                 | 24 V                                                                                                 |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                                                  |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                                                  |
| <b>PRODUCT CATEGORY</b>                                              | RMQ-Titan                                                                                            |
| <b>SIZE</b>                                                          | Front dimensions: 35 mm                                                                              |
| <b>DESIGN</b>                                                        | Mushroom-shaped                                                                                      |
| <b>MOUNTING POSITION</b>                                             | As required                                                                                          |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>                  | 1 kA                                                                                                 |
| <b>CONNECTION TYPE</b>                                               | Screw connection                                                                                     |
| <b>DEGREE OF PROTECTION</b>                                          | IP Other<br>NEMA 4X, 13                                                                              |
| <b>LIFESPAN</b>                                                      | 100,000 mechanical<br>Operations                                                                     |
| <b>SHOCK RESISTANCE</b>                                              | 50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms<br>Mechanical, According to |

|              |                   |
|--------------|-------------------|
|              | IEC/EN 60068-2-27 |
| SUITABLE FOR | Emergency stop    |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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