

# Specifications



## Eaton 229746

Eaton FAK Palm switch, momentary, 40 N, 1 N/O, 1 N/C, red, NEMA 4X, IP67/IP69K, 1 kA

### General specifications

|                             |                                                                                                                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series FAK Palm switch                                                                                                                                                                                               |
| <b>CATALOG NUMBER</b>       | 229746                                                                                                                                                                                                                              |
| <b>MODEL CODE</b>           | FAK-R/KC11/I                                                                                                                                                                                                                        |
| <b>EAN</b>                  | 4015082297466                                                                                                                                                                                                                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 85 mm                                                                                                                                                                                                                               |
| <b>PRODUCT HEIGHT</b>       | 85 mm                                                                                                                                                                                                                               |
| <b>PRODUCT WIDTH</b>        | 100 mm                                                                                                                                                                                                                              |
| <b>PRODUCT WEIGHT</b>       | 0.324 kg                                                                                                                                                                                                                            |
| <b>CERTIFICATIONS</b>       | CSA-C22.2 No. 94-91<br>CSA<br>CSA File No.: 012528<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>IEC/EN 60947-5<br>IEC/EN 60947-5-1<br>UL Category Control No.: NKCR<br>VDE 0660<br>UL<br>CE<br>CSA-C22.2 No. 14-05<br>UL 508 |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                                              |

## Actuator

|                          |           |
|--------------------------|-----------|
| <b>ACTUATING FORCE</b>   | 40 N      |
| <b>ACTUATOR COLOR</b>    | Red       |
| <b>ACTUATOR FUNCTION</b> | Momentary |

## Contacts

**NUMBER OF CONTACTS  
(NORMALLY CLOSED  
CONTACTS)** 1

**NUMBER OF CONTACTS  
(NORMALLY OPEN  
CONTACTS)** 1

## Climatic environmental conditions

|                                                |                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b> | 55 °C                                                                          |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b> | -25 °C                                                                         |
| <b>CLIMATIC PROOFING</b>                       | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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.                                   |
| <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>             | 0.11 W                                                             |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Features & functions

|                         |               |
|-------------------------|---------------|
| <b>ENCLOSURE COLOR</b>  | Gray<br>Black |
| <b>UNLOCKING METHOD</b> | None          |

## General information

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>CONNECTION TO SMARTWIRE-DT</b> | No                    |
| <b>DEGREE OF PROTECTION</b>       | IP67/IP69K<br>NEMA 4X |

|                             |                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>LIFESPAN, MECHANICAL</b> | 1,000,000 Operations (AC operated)                                                                                             |
| <b>MOUNTING POSITION</b>    | As required                                                                                                                    |
| <b>OPERATING FREQUENCY</b>  | 3600 Operations/h                                                                                                              |
| <b>PRODUCT CATEGORY</b>     | Foot and palm switches                                                                                                         |
| <b>SHOCK RESISTANCE</b>     | 15 g, Mechanical,<br>According to IEC/EN 60068-2-27, Half-Sinusoidal shock 11 ms<br>Mechanical, According to IEC/EN 60068-2-27 |
| <b>TYPE</b>                 | Complete device                                                                                                                |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a><br><a href="#">eaton-rmq-titan-brochure-br047004en-en-us.pdf</a>                                                                                                                                                                                                                                                                                                                                            |
| CHARACTERISTIC CURVE       | <a href="#">eaton-operating-fak-palm-switch-3d-drawing-002.eps</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-palm-switch-declaration-of-conformity-eu251555en.pdf</a><br><a href="#">eaton-palm-switch-declaration-of-conformity-uk251014en.pdf</a>                                                                                                                                                                                                                                                                                                                                                             |
| DRAWINGS                   | <a href="#">eaton-operating-switch-fak-palm-switch-dimensions.eps</a><br><a href="#">eaton-operating-button-symbol-007.eps</a><br><a href="#">eaton-operating-button-symbol-005.eps</a><br><a href="#">eaton-operating-switch-fak-palm-switch-3d-drawing.eps</a><br><a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a><br><a href="#">eaton-operating-button-symbol-006.eps</a><br><a href="#">eaton-operating-m22-symbol.eps</a><br><a href="#">eaton-general-fak-palm-switch-symbol.eps</a> |
| ECAD MODEL                 | <a href="#">ETN.FAK-R KC11_I</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL047027ZU</a> <a href="#">IL04716006Z</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MCAD MODEL                 | <a href="#">eaton-pushbuttons-complete-mcad-3d-models-fak.stp</a><br><a href="#">eaton-pushbuttons-complete-mcad-drawings-fak.dwg</a>                                                                                                                                                                                                                                                                                                                                                                                |
| WIRING DIAGRAMS            | <a href="#">eaton-operating-contact-fak-palm-switch-wiring-diagram.eps</a>                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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



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