



**PKE ELECTRONIC MOTOR PROTECTION
CIRCUIT BREAKER**
172735


Overview


Specifications


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172735

Eaton Moeller® series PKE Function element for co
SmartWire-DT

How to buy



GENERAL SPECIFICATIONS

General specifications



PRODUCT NAME Eaton Moeller® series PKE Function element

CATALOG NUMBER 172735

Product specifications



MODEL CODE PKE-SWD-CP

EAN 4015081692811

PRODUCT LENGTH/DEPTH 75 mm

PRODUCT HEIGHT 65 mm

PRODUCT WIDTH 67.5 mm

PRODUCT WEIGHT 0.028 kg

CERTIFICATIONS IEC/EN 61131-2

PRODUCT SPECIFICATIONS

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| RADIATED RFI | 10 V (IEC/EN 61131-2:2008, Level 3) |
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. The specification must be observed. |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.12 ELECTROMAGNETIC COMPATIBILITY | Is the panel builder's responsibility. The specification must be observed. |
| 10.2.5 LIFTING | Does not apply, since the entire switchgear needs to be lifted. |
| LED INDICATOR | Status indication of SmartWire-DT network: Green |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. |
| AMBIENT STORAGE TEMPERATURE - MIN | -30 °C |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| CONSTANT AMPLITUDE | 3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Level 2, ESD |
| CONTACT DISCHARGE | 4 kV, according to IEC/EN 61131-2, Level 2, ESD |
| AMBIENT OPERATING TEMPERATURE - MAX | 60 °C |
| CONNECTION TO SMARTWIRE-DT | Yes |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| STATION | SmartWire-DT slave, SmartWire-DT network |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be lifted. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be lifted. |
| MOUNTING POSITION | As PKE32/65 |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the instruction leaflet (IL) is observed. |
| 10.2.6 MECHANICAL IMPACT | Does not apply, since the entire switchgear needs to be lifted. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be lifted. |
| PRODUCT CATEGORY | <ul style="list-style-type: none"> Accessories SmartWire-DT slave |
| DROP AND TOPPLE | 50 mm Drop height, Drop to IEC/EN 60068-2-31 |
| ACCESSORY/SPARE PART TYPE | Communication and measuring function |

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| RADIO INTERFERENCE CLASS | Class A (EN 55011) |
| HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX | 0.3 m |
| CONSTANT ACCELERATION | 1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, V |
| AIR DISCHARGE | 8 kV, according to IEC 61131-2, level 3, ESD |
| ADDRESSING | Address set automatically |
| 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. |
| CONNECTION TYPE | SWD: Plug, 8-pole External device plug SWD4-8SF2-5, SmartWire-DT |
| ELECTROMAGNETIC FIELDS | 10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2) 1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2) |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| DEGREE OF PROTECTION | IP20 |
| OVERVOLTAGE CATEGORY | II |
| RELATIVE HUMIDITY | 5 - 95 % (non-condensing, IEC/EN 60068-2-30) |
| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |
| POLLUTION DEGREE | 2 |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device |
| FUNCTIONS | Remote circuit-breaker de-energization For attachment to PKE circuit-breakers Display of Set short-circuit release value Display of Contactor state PKE Display of Trip indications (Overload, Short-circuit, etc.) Display of Part no. of trip block Display of All phase currents in % For connecting the PKE circuit-breaker with PKE-X blocks to SmartWire-DT Display of Thermal load as a % System protection Display of Set value of overload releases |
| BURST IMPULSE | 1 kV, SmartWire-DT cable, Signal cable, according to IEC 61131-2, Level 3 1 kV, CAN/DP-bus cable, SmartWire-DT cables, according to IEC 61131-2, Level 3 |
| TYPE | Function element |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| 10.2.4 RESISTANCE TO ULTRA-VIOLET RADIATION | |

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| 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION | Meets the product standard's requirements. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| ENVIRONMENTAL CONDITIONS | Condensation: prevent with appropriate measures |
| CURRENT CONSUMPTION | 35 mA, SmartWire-DT network, 15-V-SWD supply |
| SHOCK RESISTANCE | 15 g, Mechanical, according to IEC/EN 60068-2-27 shock 11 ms, 9 Impacts |

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

Manuals and user guides

mCAD model

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we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.