DATASHEET - PKE-SWD-32



Function element, SmartWire-DT, for PKE12/32, manual/auto

Part no. PKE-SWD-32 Catalog No. 126895 Alternate Catalog PKE-SWD-32

No

EL-Nummer 4520200

(Norway)





Delivery program

| zonro., program | |
|--------------------------------------|---|
| Product range | SmartWire-DT slave |
| Subrange | SmartWire-DT PKE module for motor-starter combinations |
| Basic function | Motor protection Motor protection for heavy starting duty |
| Product range | Accessories |
| Accessories | SmartWire-DT PKE module (motor-starter combinations) |
| Function | For connecting PKE motor-starter combination MSC-DEA with PKE-XTUA trip blocks with a rated motor output of 15 kW/400 V to SmartWire-DT |
| Description | Mounting on DILM contactor with 24 V DC control voltage. One module per contactor and PKE necessary Additional SWD contactor module required fir actuation of reversing starter. 1 electrical interlock for the surface mounting of reversing starters. 1-0-A switch for manual or automatic operation. Selectable overload relay function (ZMR) for switching off the contactor on overload. Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used. For current consumption of the contactor coils > 3 A (UL/CSA > 2 A) use additional power feeder module. A2 connections must not be bridged. |
| Messages | Switch position contactor/PKE/1-0-A switch Motor current in % Thermal motor image in % Trip indications (Overload, Short-circuit,) Set value of overload releases Set time lag (CLASS) Part no. of trip block |
| Commands | Contactor actuation Activation Overload relay function (ZMR) |
| Information about equipment supplied | Connecting cable between module and trip block PKE-XTUA included as standard. |
| For use with | DILM(C)7 DILM(C)32 MSC-DEA |
| Connection to SmartWire-DT | yes |
| Connection type | Push in terminals |
| | |

Technical data

General

| General | | | |
|--|-------------|---------|--|
| Standards | | | IEC/EN 61131-2 EN 50178 IEC/EN 60947 |
| Dimensions (W x H x D) | | mm | 45 x 38 x 76 |
| Weight | | kg | 0.04 |
| Mounting | | | on DILM7DILM32 |
| Mounting position | | | as DILM7 to DILM32 |
| Ambient conditions, mechanical | | | |
| Protection type (IEC/EN 60529, EN50178, VBG 4) | | | IP20 |
| Vibrations (IEC/EN 61131-2:2008) | | | |
| Constant amplitude 3,5 mm | | Hz | 5 - 8.4 |
| Constant acceleration 1 g | | Hz | 8.4 - 150 |
| Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms | | Impacts | 9 |
| Drop to IEC/EN 60068-2-31 | Drop height | mm | 50 |
| Free fall, packaged (IEC/EN 60068-2-32) | | m | 0.3 |
| Electromagnetic compatibility (EMC) | | | |
| Overvoltage category | | | II |
| Pollution degree | | | 2 |
| Electrostatic discharge (IEC/EN 61131-2:2008) | | | |

| Air discharge (Level 3) | | kV | 8 |
|---|------------------|--------|---|
| Contact discharge (Level 2) | | kV | 4 |
| Electromagnetic fields (IEC/EN 61131-2:2008) | | | |
| 80 - 1000 MHz | | V/m | 10 |
| 1.4 - 2 GHz | | V/m | 3 |
| 2 - 2.7 GHz | | V/m | 1 |
| Radio interference suppression SmartWire-DT | | | |
| Radio interference suppression | | | EN 55011 Class A |
| Burst (IEC/EN 61131-2:2008, Level 3) | | | |
| SmartWire-DT cables | | | |
| Signal lines | | kV | 1 |
| CAN/DP-bus cable | | | |
| SmartWire-DT cables | | kV | 1 |
| Radiated RFI (IEC/EN 61131-2:2008, Level 3) | | V | 10 |
| Climatic environmental conditions | | | |
| Operating ambient temperature (IEC 60068-2) | | °C | |
| Ambient temperature | | °C | -25 - +60 |
| Condensation | | | Take appropriate measures to prevent condensation |
| Storage | 9 | °C | -30 - +70 |
| Relative humidity, non-condensing (IEC/EN 60068-2-30) | | % | 5 - 95 |
| SmartWire-DT network | | | |
| Station type | | | SmartWire-DT slave |
| Address allocation | | | automatic |
| Status SmartWire-DT | | LED | green/orange |
| Connections | | | Plug, 8-pole |
| Connection | | | External device plug SWD4-8SF2-5 |
| Current consumption | | mW | |
| 15-V-SWD supply | | mA | 58 |
| 24-V-DC-SWD control voltage | U _{aux} | | See the contactor's pick-up current and holding current (max. 0.5 A). |
| Operating mode | | | |
| Manual/automatic mode | | | yes |
| Setting | | | via Rotary switch |
| Connection auxiliary contact | | | |
| Cable length | | m | ≦ 2.8 |
| Connection type | | | Push in terminals |
| Terminal capacities | | | |
| Solid | | mm^2 | 0.2 - 1.5 (AWG 24 - 16) |

| Cable leligni | "" | = 2.0 |
|---------------------|----|-------------------|
| Connection type | | Push in terminals |
| Terminal capacities | | |

| Solid | mm ² | 0.2 - 1.5 (AWG 24 - 16) |
|-----------------------|-----------------|-------------------------|
| Flexible with ferrule | mm^2 | 0.25 - 1.5 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 0 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0.9 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}$ | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |

| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
|--|--|
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9 Insulation properties | |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

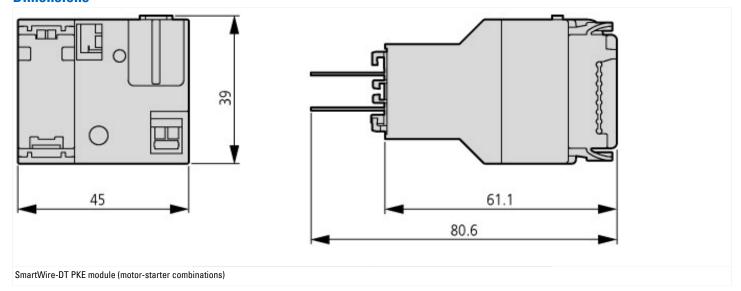
| entralized peripher | ral / Field bus, decentralized peripheral - digital I/O module (ecl@ss10.0.1-27-24-26-04 |
|---------------------|--|
| V | 0 - 0 |
| V | 0 - 0 |
| V | 15 - 15 |
| | DC |
| | 0 |
| | 1 |
| | No |
| | No |
| mA | 0 |
| V | 15 - 15 |
| | DC |
| | Other |
| Α | 0.5 |
| V | 20.4 - 28.8 |
| | DC |
| | No |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |
| | 2 |
| | No |
| | V V V |

| 0 1 1 1 10 | | |
|--|----|-------------------------|
| Supporting protocol for ASI | | No |
| Supporting protocol for KNX | | No |
| Supporting protocol for MODBUS | | No |
| Supporting protocol for Data-Highway | | No |
| Supporting protocol for DeviceNet | | No |
| Supporting protocol for SUCONET | | No |
| Supporting protocol for LON | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for SERCOS | | No |
| Supporting protocol for Foundation Fieldbus | | No |
| Supporting protocol for EtherNet/IP | | No |
| Supporting protocol for AS-Interface Safety at Work | | No |
| Supporting protocol for DeviceNet Safety | | No |
| Supporting protocol for INTERBUS-Safety | | No |
| Supporting protocol for PROFIsafe | | No |
| Supporting protocol for SafetyBUS p | | No |
| Supporting protocol for other bus systems | | Yes |
| Radio standard Bluetooth | | No |
| Radio standard WLAN 802.11 | | No |
| Radio standard GPRS | | No |
| Radio standard GSM | | No |
| Radio standard UMTS | | No |
| 10 link master | | No |
| System accessory | | Yes |
| Degree of protection (IP) | | IP20 |
| Type of electric connection | | Spring clamp connection |
| Time delay at signal exchange | ms | 10 - 84 |
| Fieldbus connection over separate bus coupler possible | | Yes |
| Rail mounting possible | | No |
| Wall mounting/direct mounting | | No |
| Front build in possible | | No |
| Rack-assembly possible | | No |
| Suitable for safety functions | | No |
| Category according to EN 954-1 | | 1 |
| SIL according to IEC 61508 | | None |
| Performance level acc. EN ISO 13849-1 | | None |
| Appendant operation agent (Ex ia) | | No |
| Appendant operation agent (Ex ib) | | No |
| Explosion safety category for gas | | None |
| Explosion safety category for dust | | None |
| Width | mm | 45 |
| Height | mm | 38 |
| Depth | mm | 77.3 |
| | | |

Approvals

| Product Standards | UL508; CSA-C22.2 No. 14; IEC60847-4-1; CE marking |
|--------------------------------------|---|
| UL File No. | E29184 |
| UL Category Control No. | NKCR |
| CSA File No. | 165628 |
| CSA Class No. | 3211-07 |
| North America Certification | UL listed, CSA certified |
| Specially designed for North America | No |

Dimensions



Additional product information (links)

| IL03402024Z SmartWire-DT, Function element f | IL03402024Z SmartWire-DT, Function element for PKE12/32, MSC-DEA | | | | |
|--|--|--|--|--|--|
| IL03402024Z SmartWire-DT, Function element for PKE12/32, MSC-DEA | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402024Z2020_03.pdf | | | | |
| MN05006001Z SmartWire-DT, modules | | | | | |
| MN05006001Z SmartWire-DT, Module - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf | | | | |
| MN05006001Z SmartWire-DT, modules - English | htp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf | | | | |
| MN05006001Z SmartWire-DT, modulo - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf | | | | |
| MN05006002Z (AWB2723-1617) SmartWire-DT, | The system | | | | |
| MN05006002Z (AWB2723-1617) SmartWire-DT, Das System - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf | | | | |
| MN05006002Z (AWB2723-1617) SmartWire-DT, The system - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf | | | | |
| MN05006002Z (AWB2723-1617) SmartWire-DT, il sistema - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf | | | | |
| MN05013002Z SmartWire-DT, Gateways | | | | | |
| MN05013002Z SmartWire-DT, Gateways - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_DE.pdf | | | | |
| MN05013002Z SmartWire-DT, Gateways - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_EN.pdf | | | | |
| MN05013002Z SmartWire-DT, Gateway - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013002Z_IT.pdf | | | | |
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf | | | | |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf | | | | |
| f1=1457&f2=1181&f3=1530;Download Wizard SWD-ASSIST | http://applications.eaton.eu/sdlc?LX=11& | | | | |