

Feeder module, SmartWire-DT, supply for contactors/cards of a local SWD segment

Part no. **SWD4-FFR-PF1-1**
168880

| General specifications | | |
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| Product name | | Eaton SWD4 Accessory Power supply |
| Part no. | | SWD4-FFR-PF1-1 |
| EAN | | 4015081653713 |
| Product Length/Depth | | 45 millimetre |
| Product height | | 90 millimetre |
| Product width | | 72 millimetre |
| Product weight | | 0.105 kilogram |
| Certifications | | IEC/EN 61131-2 EN 50178 |
| Product Tradename | | SWD4 |
| Product Type | | Accessory |
| Product Sub Type | | Power supply |
| Catalog Notes | | SWD power supply module for modules (IP20) on a local SWD segment |
| Features & Functions | | |
| Electric connection type | | Flat plug-in connection |
| Features | | Fieldbus connection over separate bus coupler possible |
| Fitted with: | | Power supply module |
| General information | | |
| Degree of protection | | IP20 |
| Product category | | SmartWire-DT accessories |
| Suitable as | | Segment module |
| Type | | SWD power supply module |
| Voltage type | | DC |
| Ambient conditions, mechanical | | |
| Constant acceleration | | 1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, Vibrations |
| Constant amplitude | | 3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Vibrations |
| Mounting position | | As required |
| Shock resistance | | 15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts |
| Climatic environmental conditions | | |
| Air pressure | | 795 - 1080 hPa (operation) |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 55 °C |
| Ambient storage temperature - min | | -40 °C |
| Ambient storage temperature - max | | 70 °C |
| Climatic proofing | | Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-3 |
| Environmental conditions | | Condensation: prevent with appropriate measures |
| Operating temperature - min | | -25 °C |
| Operating temperature - max | | 55 °C |
| Relative humidity | | 0 - 95 % (non-condensing, IEC/EN 60068-2-30) |
| Electro magnetic compatibility | | |
| Air discharge | | 8 kV, according to IEC 61131-2, level 3, ESD |
| Contact discharge | | 4 kV, according to IEC/EN 61131-2, Level 2, ESD |
| Electrical rating | | |
| Power loss | | Normally 2.6 W |
| Supply voltage at AC, 50 Hz - min | | 0 V AC |

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| Supply voltage at AC, 50 Hz - max | | 0 V AC |
| Supply voltage at DC - min | | 20.4 V DC |
| Supply voltage at DC - max | | 28.8 V DC |
| Communication | | |
| Connection to SmartWire-DT | | Yes |
| Connection type | | Push in terminals SWD: Plug, 8-pole |
| Protocol | | Other bus systems |
| Input/Output | | |
| Number of insertion cycles | | 200 |
| Safety | | |
| Explosion safety category for dust | | None |
| Explosion safety category for gas | | None |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdis | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0 W |
| Rated operational current for specified heat dissipation (In) | | 0 A |
| Static heat dissipation, non-current-dependent Pvs | | 2.6 W |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | | 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 | | Meets the product standard's requirements. |
| 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. |
| 10.9.2 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. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - power supply/segment module (EC001600)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - feed and segment module (ecI@ss13-27-24-26-10 [BAA071018])

| | | |
|---|---|-------------|
| Supply voltage AC 50 Hz | V | 0 - 0 |
| Supply voltage AC 60 Hz | V | 0 - 0 |
| Supply voltage DC | V | 20.4 - 28.8 |
| Voltage type (supply voltage) | | DC |
| Number of HW-interfaces industrial Ethernet | | 0 |
| Number of interfaces PROFINET | | 0 |
| Number of HW-interfaces RS-232 | | 0 |
| Number of HW-interfaces RS-422 | | 0 |
| Number of HW-interfaces RS-485 | | 0 |

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| Number of HW-interfaces serial TTY | | 0 |
| Number of HW-interfaces parallel | | 0 |
| Number of HW-interfaces wireless | | 0 |
| Number of HW-interfaces USB | | 0 |
| Number of HW-interfaces other | | 3 |
| With optical interface | | No |
| Supporting protocol for EtherCAT | | No |
| Supporting protocol for TCP/IP | | No |
| Supporting protocol for PROFIBUS | | No |
| Supporting protocol for CAN | | No |
| Supporting protocol for INTERBUS | | No |
| 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 |
| System accessory | | Yes |
| Degree of protection (IP) | | IP20 |
| Type of electric connection | | Flat plug-in connection |
| With potential separation | | No |
| With power supply module | | Yes |
| Suitable as segment module | | Yes |
| Remote module | | No |
| Fieldbus connection over separate bus coupler possible | | Yes |
| Bus diagnosis possible | | No |
| Rail mounting possible | | Yes |
| Wall mounting/direct mounting | | Yes |
| Front built-in possible | | No |
| Rack-assembly possible | | No |
| Suitable for safety functions | | No |
| SIL according to IEC 61508 | | None |
| Performance level according to 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 |
| Certified for UL hazardous location class I | | No |

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| Certified for UL hazardous location class II | | | No |
| Certified for UL hazardous location class III | | | No |
| Certified for UL hazardous location division 1 | | | No |
| Certified for UL hazardous location division 2 | | | No |
| Certified for UL hazardous location group A (acetylene) | | | No |
| Certified for UL hazardous location group B (hydrogen) | | | No |
| Certified for UL hazardous location group C (ethylene) | | | No |
| Certified for UL hazardous location group D (propane) | | | No |
| Certified for UL hazardous location group E (metal dusts) | | | No |
| Certified for UL hazardous location group F (carbonaceous dusts) | | | No |
| Certified for UL hazardous location group G (non-conductive dusts) | | | No |
| Width | | mm | 72 |
| Height | | mm | 90 |
| Depth | | mm | 45 |