

## SWD cable adapter for putting together a local SWD segment

Part no. **SWD4-FFR-ST1-1**  
**168881**

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| <b>General specifications</b>                                  |  |   |
| Product name   |  | Eaton SWD4 Accessory Adapter  |
| Part no.   |  | SWD4-FFR-ST1-1  |
| EAN  |  | 4015081653720   |
| Product Length/Depth   |  | 34 millimetre   |
| Product height   |  | 90 millimetre   |
| Product width  |  | 35 millimetre   |
| Product weight   |  | 0.046 kilogram  |
| Certifications   |  | EN 50178<br>IEC/EN 61131-2  |
| Product Tradename  |  | SWD4  |
| Product Type   |  | Accessory   |
| Product Sub Type   |  | Adapter   |
| Catalog Notes  |  | not relevant  |
| <b>General information</b>                                     |  |   |
| Degree of protection   |  | IP20<br>IP20 (according to IEC/EN 60529, EN 50178, VBG 4)   |
| Product category   |  | SmartWire-DT accessories  |
| Type   |  | SmartWire-DT cable adapter for putting together a local SmartWire-DT segment<br>SWD cable adapter |
| <b>Ambient conditions, mechanical</b>                          |  |   |
| 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          |
| <b>Climatic environmental conditions</b>                       |  |   |
| Air pressure   |  | 795 - 1080 hPa (operation)  |
| Ambient operating temperature - min                            |  | -25 °C  |
| Ambient operating temperature - max                            |  | 70 °C   |
| Ambient storage temperature - min                              |  | -40 °C  |
| Ambient storage temperature - max                              |  | 70 °C   |
| Climatic proofing  |  | Dry heat to IEC 60068-2-2<br>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)  |
| <b>Electro magnetic compatibility</b>                          |  |   |
| 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   |
| <b>Communication</b>   |  |   |
| Connection to SmartWire-DT                                     |  | Yes   |
| Connection type  |  | Connection 1: Plug, 8-pole<br>Push in terminals   |
| <b>Input/Output</b>  |  |   |
| Number of insertion cycles                                     |  | 200   |
| <b>Design verification</b>                                     |  |   |
| Equipment heat dissipation, current-dependent P <sub>vid</sub> |  | 0 W   |
| Heat dissipation capacity P <sub>diss</sub>                    |  | 0 W   |

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| 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                               |  |  | 0 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

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| Programmable logic controllers PLC (EG000024) / Accessories/spare parts for controls (EC002584)   |  |       |
| Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Panel (HMI, accessories) (ecI@ss13-27-33-02-92 [AFX005008]) |  |       |
| Type of electrical accessory/spare part   |  | Plug  |
| Type of mechanical accessory/spare part   |  | Other |
| Accessory   |  | Yes   |
| Spare part  |  | No    |