



SWD cable adapter for putting together a local SWD segment

Part no. SWD4-FFR-ST1-1
Article no. 168881
Catalog No. SWD4-FFR-ST1-1

Delivery program

Product range		SmartWire-DT accessories
Basic function		Cable adapters
Function		SWD cable adapters
Description		SmartWire-DT cable adapter for putting together a local SmartWire-DT segment
Connection to SmartWire-DT		yes

Technical data

General

Standards		IEC/EN 61131-2 EN 50178
Dimensions (W x H x D)	mm	35 x 90 x 34
Weight	kg	0.05
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Mounting position		As required
Note on heat dissipation		not relevant

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)		IP20
Vibrations (IEC/EN 61131-2:2008)		
Constant amplitude 3,5 mm	Hz	
constant amplitude 0.15 mm max.	Hz	8.4
Constant amplitude 0.15 mm min. (RefExtrakt)	Hz	5
Constant acceleration 1 g	Hz	
constant acceleration 1 g max.	Hz	150
constant acceleration 1 g min.	Hz	8.4
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms	Impacts	9

Electromagnetic compatibility (EMC)

Electrostatic discharge (IEC/EN 61131-2:2008)		
Air discharge (Level 3)	kV	8
Contact discharge (Level 2)	kV	4

Climatic environmental conditions

Climatic proofing			Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3
Air pressure (operation)		hPa	795 - 1080
Ambient temperature			
Operation	θ	°C	-25 - +55
Storage / Transport	θ	°C	-40 - +70
Relative humidity			
Condensation			Take appropriate measures to prevent condensation
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	0 - 95

Connection options

Connection 1		Plug, 8-pole
Number of insertion cycles		≥ 200
Connection 2		Push in terminals

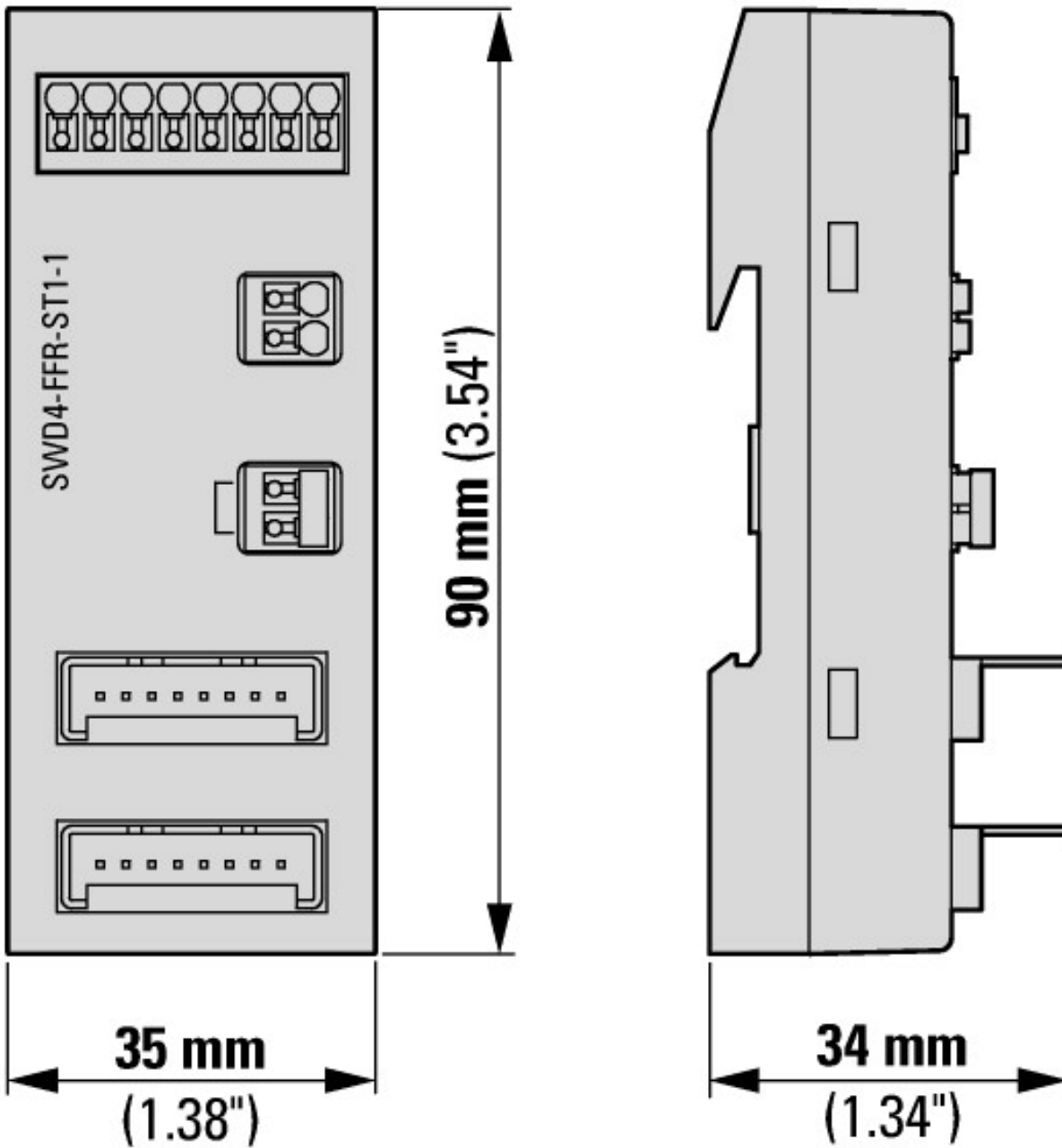
Design verification as per IEC/EN 61439

Technical data for design verification				
Rated operational current for specified heat dissipation	I_n	A	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	
Heat dissipation capacity	P_{diss}	W	0	
Operating ambient temperature min.		°C	-25	
Operating ambient temperature max.		°C	70	
Degree of Protection				IP20
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				
			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 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.	
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 6.0

PLC's (EG000024) / Accessories for controls (EC002584)				
Electric engineering, automation, process control engineering / Control / Control (accessories) / Control (accessories, unspecified) (ecl@ss8.1-27-24-92-90 [AKN560011])				
Type of electrical accessory				Plug
Type of mechanical accessory				-
Type of documentation				-

Dimensions



Cable adapters

Additional product information (links)

IL050001ZU MCC SWD4-FFR-PF1-1, SWD4-FFR-ST1-1

IL050001ZU MCC SWD4-FFR-PF1-1, SWD4-FFR-ST1-1 ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL050001ZU2012_12.pdf

SmartWire-DT manual, The System MN05006002Z

SmartWire-DT manual, The System MN05006002Z - Deutsch ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf

SmartWire-DT manual, The System MN05006002Z - English ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf

SmartWire-DT manual, The System MN05006002Z - italiano ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf

<http://ecat.moeller.net/flip-cat/?edition=SWCAT&startpage=Title;Product Range Catalog>

Technical data <http://ecat.moeller.net/flip-cat/?edition=SWCAT&startpage=32>

SWD-ASSIST <http://downloadcenter.moeller.net/en/software.a487d8b7-da91-486f-b3ba-a7ca2035db99>