

Specifications



Eaton 121380

Eaton SWD4 Switch cabinet bushing,
SmartWire-DT, flat to round cable, socket

General specifications

PRODUCT NAME	Eaton SWD4 Accessory Switch cabinet bushing
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CATALOG NUMBER	121380
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MODEL CODE	SWD4-SFL8-20
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EAN	4015081192090
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PRODUCT LENGTH/DEPTH	41 mm
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PRODUCT HEIGHT	83 mm
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PRODUCT WIDTH	35 mm
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PRODUCT WEIGHT	0.045 kg
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CERTIFICATIONS	UL File No.: E29184 EN 50178 CSA File No.: 2324643 UL CSA CSA Class No.: 3211-07 IEC/EN 61131-2 UL Category Control No.: NKCR
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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
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
MOUNTING POSITION	As required
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Communication

CONNECTION TYPE	Connection 1: Plug, 8-pole M20 socket, 8 pole
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Climatic environmental conditions

AIR PRESSURE	795 - 1080 hPa (operation)
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °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 - MAX	70 °C
OPERATING TEMPERATURE - MIN	-25 °C
RELATIVE HUMIDITY	5 - 95 % (non-condensing, IEC/EN 60068-2-30)

Design verification

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.
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	Meets the product standard's requirements.

ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	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	1 W

Electrical rating

POWER LOSS	1 W
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General information

DEGREE OF PROTECTION	IP20
	IP20 (according to IEC/EN 60529, EN 50178, VBG 4)
PRODUCT CATEGORY	SmartWire-DT accessories

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
ELECTROMAGNETIC FIELDS	3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008)
	1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2:2008)
	10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008)
	10 V (IEC/EN 61131-2:2008, Level 3)
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)

Input/Output

NUMBER OF INSERTION CYCLES	200
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Resources

BROCHURES	eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf
CATALOGUES	eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk250995en.pdf eaton-accessory-declaration-of-conformity-eu250512en.pdf
DRAWINGS	eaton-modular-plc-swd4-accessory-dimensions-003.eps eaton-modular-plc-switching-swd4-accessory-dimensions.eps eaton-modular-plc-switching-swd4-accessory-3d-drawing-004.eps eaton-operating-switching-swd4-accessory-3d-drawing-002.eps
ECAD MODEL	ETN.SWD4-SFL8-20
INSTALLATION INSTRUCTIONS	IL04716001Z
INSTALLATION VIDEOS	SmartWire-DT in Application
MANUALS AND USER GUIDES	MN05006002Z_EN
MCAD MODEL	eaton-programmable-logic-controls-accessories-mcad-drawings-schrank-buchse-swd.dwg eaton-programmable-logic-controls-accessories-mcad-3d-models-schrank-buchse-swd.stp
MULTIMEDIA	SmartWire-DT Overview and how to use in easySoft Z

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator](#)

[How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?](#)

SALES NOTES

[eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf](#)

[eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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