Specifications

Eaton 116024

Catalog Number: 116024

Eaton SWD4 Coupling, SmartWire-DT, for connecting ribbon cables via blade terminal SWD4-8MF 2



General specifications

Product Name
Eaton SWD4 Accessory Coupling

Catalog Number
116024

EAN
4015081157648

Product Length/Depth
10 mm

Product Height
35 mm

Product Width
49 mm

Product Weight
0.004 kg

Certifications
CSA File No.: 2324643
UL
CSA
UL Category Control No.: NKCR
CSA Class No.: 3211-07
EN 50178
UL File No.: E29184
IEC/EN 61131-2

Catalog Notes
not relevant

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Features & Functions

Functions

To connect SWD ribbon cables over SWD4-8MF2 blade terminals

General

Degree of protection

IP20 (according to IEC/EN 60529, EN 50178, VBG 4)
IP20

Product category

SmartWire-DT accessories

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

5 - 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

Communication

Connection to SmartWire-DT

Yes

Connection type

Connection 1: Plug, 8-pole
Connection 2: Bus, 8-pole

Input/Output

Number of insertion cycles

200

Design verification

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

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.

Resources

Brochures

eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf

Catalogs

Product Range Catalog Drives Engineering

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

SmartWire-DT Catalog

Declarations of conformity

DA-DC-00003537.pdf

DA-DC-00003868.pdf

Drawings

2723DRW-38

eaton-general-easy-control-relays-symbol-002.tif

eaton-modular-plc-coupling-dimensions.eps

eaton-general-approval-easy-control-relays-standards.jpg

eaton-general-eu5e-i-o-module-symbol.eps

eCAD model

DA-CE-ETN.SWD4-8SFF2-5

Installation instructions

IL04716001Z

Installation videos

SmartWire-DT in Application

Manuals and user guides

MN05006002Z_EN

mCAD model

DA-CD-kupplung_swd

DA-CS-kupplung_swd

Multimedia

How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?

easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator

SmartWire-DT Overview and how to use in easySoft 7

Sales notes

eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf

eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf



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