

Specifications



Photo is representative



Eaton 118560

Eaton Moeller® series DIL-SWD Function element, contactor, SmartWire-DT, DIL/MSD

General specifications

PRODUCT NAME	Eaton Moeller® series DIL-SWD SWD contactor module
CATALOG NUMBER	118560
MODEL CODE	DIL-SWD-32-001
EAN	4015081168309
PRODUCT LENGTH/DEPTH	72 mm
PRODUCT HEIGHT	38 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.04 kg
CERTIFICATIONS	CSA File No.: 2324643 CSA Class No.: 3211-07 CSA-C22.2 No. 14-05 UL UL File No.: E29184 CSA IEC/EN 61131-2 UL Category Control No.: NKCR CE EN 50178 IEC/EN 60947 IEC/EN 60947-4-1 UL 508

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
DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
MOUNTING POSITION	As DILM7 to DILM38
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Communication

ADDRESSING	Address set automatically
CONNECTION TO SMARTWIRE-DT	Yes
CONNECTION TYPE	Push in terminals, Auxiliary contact SWD: Plug, 8-pole External device plug SWD4-8SF2-5, SmartWire-DT
LED INDICATOR	Status indication of SmartWire-DT network: Green and orange LED
STATION	SmartWire-DT slave, SmartWire-DT network

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	30 °C
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures
RELATIVE HUMIDITY	5 - 95 % (non-condensing, IEC/EN 60068-2-30)

Contacts

NUMBER OF AUXILIARY CONTACTS	2
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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. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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 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	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION	Does not apply, since the

Electrical rating

RATED OPERATIONAL VOLTAGE	15 V DC (auxiliary contact)
SUPPLY VOLTAGE AT DC - MAX	15 VDC
SUPPLY VOLTAGE AT DC - MIN	15 VDC

AGAINST ELECTRIC SHOCK	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	0.8 W

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC 61131-2, level 3, ESD
BURST IMPULSE	1 kV, Signal cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3
CONTACT DISCHARGE	4 kV, according to IEC/EN 61131-2, Level 2, ESD
ELECTROMAGNETIC FIELDS	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) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008)
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)
RADIO INTERFERENCE CLASS	Class A (EN 55011)

General information

CABLE LENGTH	≤ 2.8 m, Connection auxiliary contact
CURRENT CONSUMPTION	40 mA, SmartWire-DT network
DEGREE OF PROTECTION	IP20
INPUT CURRENT AT SIGNAL 1	3 mA
NUMBER OF INPUTS (DIGITAL)	2
NUMBER OF OUTPUTS (DIGITAL)	1
OUTPUT CURRENT	0.5 A
OVERVOLTAGE CATEGORY	II
POLLUTION DEGREE	2
PRODUCT CATEGORY	SmartWire-DT slave
PROTOCOL	Other bus systems
TYPE	SWD contactor modules
VOLTAGE TYPE	DC

Features & functions

ELECTRIC CONNECTION TYPE	Spring clamp connection
FEATURES	Fieldbus connection over separate bus coupler possible Fieldbus connection over separate bus coupler possible
FITTED WITH:	Own supply
FUNCTIONS	Contactor actuation Display of Switch status Contactor, status of the digital inputs 1 and 2 For connecting the contactors to SmartWire-DT

Magnet system

PICK-UP CURRENT	500 mA (for DILM 17-38) 188 mA (for DILM 12-15) 125 mA (for DILM 7-9)
SEALING CURRENT	125 mA, SmartWire-DT network for DILM 7-9 21 mA, SmartWire-DT network for DILM 17-38 188 mA, SmartWire-DT network for DILM 12-15
POWER CONSUMPTION	3 W for DILM 7-9 (Pick-up power) 4.5 W for DILM 12-15 (Pick-up power) 4.5 W for DILM 12-15 (Sealing power) 12 W for DILM 17-38 (Pick-up power) 3 W for DILM 7-9 (Sealing power) 0.5 W for DILM 17-38 (Sealing power)

Safety

EXPLOSION SAFETY CATEGORY FOR DUST

None

EXPLOSION SAFETY CATEGORY FOR GAS

None

POTENTIAL ISOLATION

Connection auxiliary
contact: no

Terminal capacities

TERMINAL CAPACITY

0.2 - 1.5 mm² (24 - 16
AWG), solid
0.25 - 1.5 mm², flexible
with ferrule

Resources

CATALOGUES [Product Range Catalog
Switching and protecting
motors](#)

[SmartWire-DT Catalog](#)
[eaton-product-overview-
for-machinery-catalogue-
ca08103003zen-en-us.pdf](#)

DECLARATIONS OF
CONFORMITY [eaton-accessory-
declaration-of-conformity-
uk251285en.pdf](#)
[eaton-accessory-
declaration-of-conformity-
eu250802en.pdf](#)

DRAWINGS [eaton-modular-plc-swd-
dil-swd-function-element-
dimensions-002.eps](#)
[eaton-manual-motor-
starters-function-dil-swd-
function-element-3d-
drawing.eps](#)

ECAD MODEL [ETN.DIL-SWD-32-001](#)

INSTALLATION
INSTRUCTIONS [IL03402036Z](#)

INSTALLATION VIDEOS [WIN-WIN with push-in
technology](#)

MANUALS AND USER
GUIDES [MN05006001Z_EN](#)
[MN05006002Z_EN](#)

MCAD MODEL [eaton-module-mcad-
drawings-dil-swd-32.dwg](#)
[DA-CS-dil_swd_32](#)

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

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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