

Specifications



Eaton 116380

Eaton EU5C SWD power supply for SWD modules and contactors

General specifications

PRODUCT NAME	Eaton EU5C Accessory Power supply
CATALOG NUMBER	116380
MODEL CODE	EU5C-SWD-PF2-1
EAN	4015081161102
PRODUCT LENGTH/DEPTH	125 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.16 kg
CERTIFICATIONS	UL Category Control No.: NKCR CSA CSA Class No.: 3211-07 IEC/EN 61131-2 UL File No.: E29184 EN 50178 UL CSA File No.: 2324643
CATALOG NOTES	SmartWire-DT power supply for SmartWire-DT modules and for additionally feeding the control voltage for motor starters and contactors, as well as for establishing emergency stop groups

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 required
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Communication

CONNECTION	2 x SmartWire-DT blade terminal SWD4-8MF2
CONNECTION TO SMARTWIRE-DT	Yes
CONNECTION TYPE	SWD: 2 x plug, 8-pole Push in terminals, Supply voltage
LED INDICATOR	Status indication of Supply voltage: LED
PROTOCOL	Other bus systems

Climatic environmental conditions

AIR PRESSURE	795 - 1080 hPa (operation)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-3 Dry heat to IEC 60068-2-2
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures
OPERATING TEMPERATURE - MAX	55 °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	2.7 W

Electrical rating

INRUSH CURRENT	12.5 A (for 6 ms)
POWER LOSS	Normally 2.7 W
RATED CONTROL SUPPLY VOLTAGE	24 V DC (UPOW, -15 %/+20 %) 24 V DC (UAUX, -15 %/+20 %)
RATED OPERATIONAL CURRENT (IE) - MAX	0.7 A
RATED OPERATIONAL VOLTAGE	Typically UAUX -0.2 V (for 24 V DC slaves) 14.5 V ($\pm 3\%$ - SmartWire-DT)
SHORT-CIRCUIT PROTECTION	Yes, Short-circuit rating, SmartWire-DT supply voltage No, external fuse FAZ Z3, Supply voltage UAux
SUPPLY CURRENT	0.7 A, I _{max} , SmartWire-DT supply 3 A, I _{max} , Supply voltage UAux
SUPPLY VOLTAGE AT DC - MAX	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC 61131-2, level 3, ESD
BURST IMPULSE	2 kV, Supply 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	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)
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)
RADIO INTERFERENCE CLASS	Class A (EN 55011)
SURGE RATING	0.5 kV, Supply cables/CAN/DP bus cable, Surge power cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC
VOLTAGE DIPS	≤ 10 ms, Bridging voltage dips

Features & functions

ELECTRIC CONNECTION TYPE	Flat plug-in connection
FEATURES	Fieldbus connection over separate bus coupler possible Overload proof Fieldbus connection over separate bus coupler possible
FITTED WITH:	Power supply module Potential separation
FUNCTIONS	For additional control voltage feeder for the motor starter and contactors For the formation of emergency switching off groups for motor starters and contactors For feeding supply voltage in order to connect additional SmartWire-DT modules to the SmartWire-DT ribbon cable

Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
POTENTIAL ISOLATION	Between UPow and 15 V SmartWire-DT supply voltage: yes
PROTECTION AGAINST POLARITY REVERSAL	Yes Yes, for supply voltage (Siemens MPI optional)

General information

DEGREE OF PROTECTION	IP20
MOUNTING METHOD	Rail mounting possible Wall mounting/direct mounting Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
OVERVOLTAGE CATEGORY	II
POLLUTION DEGREE	2
PRODUCT CATEGORY	SmartWire-DT accessories
REPETITION RATE	1 s
RESIDUAL RIPPLE	≤ 5 % (input voltage)
SUITABLE AS	Segment module
TERMINAL CAPACITY	0.25 - 1.5 mm², flexible with ferrule 24 - 16 AWG, solid or stranded 0.2 - 1.5 mm², solid
VOLTAGE TYPE	DC

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-eu250511en.pdf eaton-accessory-declaration-of-conformity-uk250994en.pdf
DRAWINGS	eaton-modular-plc-samrtwire-eu5c-communication-module-dimensions.eps eaton-modular-plc-samrtwire-eu5c-power-supply-dimensions.eps

	eaton-general-eu5e-i-o-module-symbol.eps eaton-general-approval-easy-control-relays-standards.jpg eaton-general-easy-control-relays-symbol-002.tif eaton-modular-plc-power-feeder-module-eu5c-power-supply-3d-drawing-002.eps
ECAD MODEL	ETN.EU5C-SWD-PF2-1
INSTALLATION INSTRUCTIONS	eaton-smartwire-dt-module-instruction-leaflet-il05006001Z.pdf
INSTALLATION VIDEOS	SmartWire-DT in Application
MANUALS AND USER GUIDES	MN05006002Z_EN
MCAD MODEL	eaton-power-supply-modules-mcad-drawings-eu5c-swd-pf2-1.dwg eaton-eu5c_swd_pf2_1-3d-model.stp
MULTIMEDIA	easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator SmartWire-DT Overview and how to use in easySoft Z How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?
SALES NOTES	eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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