DATASHEET - EASY802-DC-SWD



Control relay, 24 V DC, SmartWire-DT

Part no. EASY802-DC-SWD Catalog No. 152901
Alternate Catalog EASY802-DC-SWD

No.

EL-Nummer 4520980 (Norway)



Delivery program

20o., p. 09. u	
Product range	SmartWire-DT coordinators
Basic function	easy800 with SmartWire-DT
Description	Combines the functionality of an easy800 with direct connection to SmartWire-DT communication system Up to 99 SmartWire-DT modules with a total of up to 166 digital inputs/outputs and/ or up to 128 analog inputs/outputs can be connected via a SmartWire-DT line
Inputs	
SmartWire-DT	83
Outputs	
SmartWire-DT	83
Additional features	
Real time clock	#
Expansions	SmartWire-DT
Supply voltage	24 V DC
Software	EASY-SOFT-PRO
Connection type	screw terminal

Notes

Depending on the hardware, such as high-speed counter, PWM output, integrated analog input/output are not supported

Technical data

Free fall, packaged (IEC/EN 60068-2-32)

		EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
		CSA UL EAC
	mm	35 x 110 x 125.5 (2 PE)
	kg	0.16
		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
	mm^2	0.2/1.5 (AWG 24 - 16)
	mm ²	0.2/1.5 (AWG 24 - 16)
	°C	In accordance with IEC 60068-2-1, -25 - +55
		Take appropriate measures to prevent condensation
9	°C	In accordance with IEC 60068-2-1, -2, -14 -40 - +70
	%	in accordance with IEC 60068-2-30, IEC 60068-2-78 5 - 95
	hPa	795 - 1080
		IP20
	Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150
	Impacts	18
Drop height	mm	50
		mm² mm² °C 8 °C % hPa Hz Impacts

m

0.3

Mounting position			Vertical or havingstal
Mounting position Electromagnetic compatibility (EMC)			Vertical or horizontal
Overvoltage category/pollution degree			111/2
Electrostatic discharge (ESD)			11/2
applied standard			nach IEC/EN 61000-4-2
		kV	
Air discharge			8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	0.8 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 55011 Class B
Burst		kV	according to IEC/EN 61000-4-4 Supply cables: 2 Signal cables: 2 SWD lines: 2
power pulses (Surge)		V	according to IEC/EN 61000-4-5 1 kV (supply cables, symmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6) Insulation resistance		V	10
Clearance in air and creepage distances			EN 50178, UL 508, CSA C22.2, No. 142
Insulation resistance			EN 50178
Back-up of real-time clock			LIA 20170
Back-up of real-time clock			
			Backup time (hours) with fully charged double layer capacitor Service life (years)
Accuracy of the real-time clock		s/day	typ. \pm 2 (\pm 0.2 h/Year) depending on ambient air temperature fluctuations of up to \pm 5 s/day (\pm 0.5 h/year) are possible
Repetition accuracy of timing relays			
Accuracy of timing relays (of values)		%	± 0.02
Resolution			
Range "S"		ms	5
Range "M:S"		s	1
Range "H:M"		min	1
Retentive memory			
Write cycles of the retentive memory			10 ¹⁴ (read/write cycles)
Power supply			
Rated operational voltage	U _e	V	24 DC (-15/+20%)
Permissible range	U _e		20.4 - 28.8 V DC
Residual ripple		%	≦ 5
Protection against polarity reversal			yes
Input current			normally 500 mA at U _e
Inrush current and length		Α	12.5 for 6 ms
Voltage dips		ms	≤ In accordance with IEC 61131-2 ≤ 10
Fuse		Α	≥ 3 A (T) (e.g FAZ C3)
Power loss	P	W	Normally 1
Note on heat dissipation			Current consumption at 24 V DC
Supply voltage U _{Aux}			
Rated operational voltage	U_{Aux}	V	24 V DC (-15/+20%)
Permissible range			20.4 - 28.8 V DC
Output voltage SWD-OUT			U _e - 0.3 V
Protection against polarity reversal			yes
Residual ripple on the input voltage		%	≦ 5
Max. current	I _{max}	A	3 (IEC) 2 (UL)
Short-circuit rating			no

Potential isolation			from power supply POW: yes
			to COM interface: yes
			to SmartWire-DT: yes
Power loss	Р	W	1
SmartWire-DT supply voltage			
Rated operating voltage	U _e	V	14.5 ± 3 %
max. current	I_{max}	Α	0.4
Short-circuit rating			Yes
Potential isolation			from power supply POW: no
			to COM interface: yes to AUX: yes
SmartWire-DT network			
Station type			Master
Number of SmartWire-DT slaves			Max. 99
Baud Rates		kBd	125/250
Address allocation			Automatically (via Configuration button)
Status indication			SWD-LED: orange/green/red Config. LED: green/red
Connections			Plug, 8-pole
Plug connector			Blade terminal SWD4-8MF2
Bus termination			Integrated in the device SmartWire-DT line end with SWD4-RC8-10

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	5
Operating ambient temperature min.	· vs	°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification		U	33
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.
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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 7.0

PLC's (EG000024) / Logic module (EC001417)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])

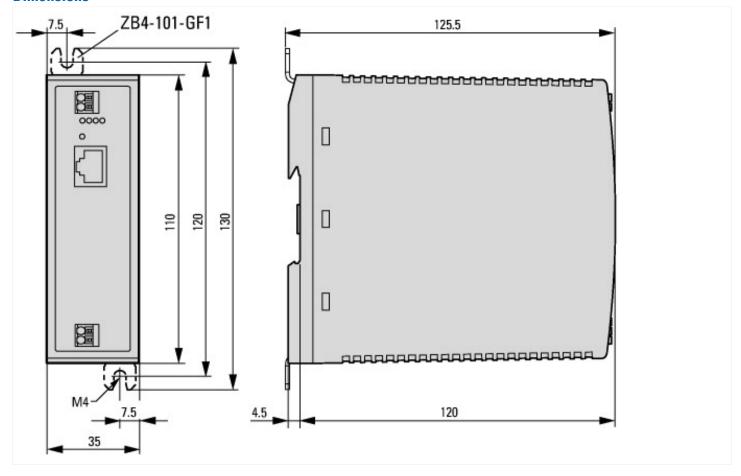
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Expansion device No			
	Expansion device		No

With timer		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		None
SIL according to IEC 61508		None
Performance level acc. EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	35
Height	mm	110
Depth	mm	125.5

Approvals

Product Standards	IEC/EN see Technical Data; UL508; CSA C22.2 No. 142-M1987
UL File No.	E135462
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	2252-01 + 2258-02
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product information (links)

SmartWire-DT product range catalog	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=12
Technical data	http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=54