DATASHEET - EASY-E4-DC-6AE1P



I/O expansion, For use with easyE4, 24 V DC, Inputs expansion (number) analog: 4, Outputs expansion (number) digital: 2, Push-In



Part no. EASY-E4-DC-6AE1P Catalog No. 197516

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Product range	Control relays easyE4
Subrange	I/O expansions analog
Basic function	easyE4 extensions
Description	Input/output extension for easyE4 control relay Expandable with the easyE4 series of digital input/output expansions with easy-E4- CONNECT1 connector (Item Y7-197225) Rated operating voltage 24V DC Analog inputs: 4 Analog outputs: 2 Push in terminals
Inputs	
Inputs expansion (number)	Analog: 4
Analog	4
Additional features	
Software	EASYSOFT-SWLIC/easySoft 7
Supply voltage	24 V DC
For use with	easyE4

Technical data			
General			
Standards			EN 61000-6-2 EN 61000-6-3 IEC 60068-2-6 IEC 60068-2-30 IEC/EN 61131-2 EN 61010 EN 50178
Approvals			
Approvals			cULus
certificate			CE
shipping classification			DNV GL
			DNV·GL
Dimensions (W x H x D)	m	ım	35.5 x 90 x 58
Weight	kį	g	0.08
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Connection type			Push-in terminals
Terminal capacities			
Push-in terminals			
Solid	m	nm ²	0,2 - 0,4
flexible	m	nm ²	0.2 - 2.5
Solid or flexible conductor, with ferrule	m	nm ²	0,25 - 1,5
Solid or stranded	А	WG	24 - 14
Standard screwdriver	m	ım	0.4 x 2.5
Stripping length	m	ım	8
Climatic environmental conditions			
Operating ambient temperature	°(С	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2
Condensation			Take appropriate measures to prevent condensation

Storage	9	°C	-40 - +70
relative humidity	U	%	in accordance with IEC 60068-2-30, IEC 60068-2-78
Todayo numuny		70	5 - 95
Air pressure (operation)		hPa	795 - 1080
Ambient conditions, mechanical			
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations		Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			III/2
Electrostatic discharge (ESD)			
applied standard			nach IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	0.08 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 61000-6-3 Class B
Burst		kV	according to IEC/EN 61000-4-4 Supply cables: 2 Signal cables: 2
power pulses (Surge)			according to IEC/EN 61000-4-5 0.5 kV (supply cables, symmetrical) 1 kV (supply cables, asymmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
Clearance in air and creepage distances			nach EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Insulation resistance			in accordance with EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Power supply		V	24 DC / 15/ 200/ \
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			max. 100 mA at Ue
Voltage dips		ms	≤ 10
Fuse		Α	≧ 1A (T)
Power loss	P	W	Normally 2.5
Heat dissipation at 24 V DC		W	2.5
Analog inputs			
Number Potential isolation			from power supply: no to the in/outputs: no to expansion devices: yes
Input type			Voltage or current, selectable per input
Signal range			0-10 V DC 0 - 20 mA 4 - 20 mA
Resolution			12 Bit (value 0 - 4095)
Input impedance		kΩ	12.122
Cable length		m	≤ 10, screened
Analog outputs			
Number			2
Potential isolation			from power supply: no to the in/outputs: no to the expansion units: yes
Output type			Voltage or current, selectable per input
Signal range			0-10 V DC 0 - 20 mA

		4 - 20 mA
Resolution		12 Bit (value 0 - 4095)
Accuracy		
-25 °C - 55 °C	%	1
Cable length	m	≦ 10, shielded

Design verification as per IEC/EN 61439

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Technical data for design verification			
Static heat dissipation, non-current-dependent	P_{vs}	W	2
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
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.
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 FTIM 7.0

PLC's (EG000024) / Logic module (EC001417) Electric engineering, automation, process control engineering / Control / Programmable logic of Supply voltage AC 50 Hz	control (SPS V V	S) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])
	V	
Supply voltage AC 50 Hz		0 - 0
	W	
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type of supply voltage		DC
Switching current	Α	0.5
Number of analogue inputs		4
Number of analogue outputs		2
Number of digital inputs		0
Number of digital outputs		0
With relay output		No
Number of HW-interfaces industrial Ethernet		0
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0

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Suitable for safety functions
Suitable for safety functions No Category according to EN 954-1 None
SIL according to IEC 61508 None Performance level and EN ISO 13849 1
Performance level acc. EN ISO 13849-1 Appendent operation agent (Ev ia)
Appendant operation agent (Ex ia) No
Appendant operation agent (Ex ib) No No No No No No No No No N
Explosion safety category for gas None Explosion safety extraopy for dust
Explosion safety category for dust Width mm 35.5

Height	mm	90
Depth	mm	58

Approvals

UL File No.	E205091
UL Category Control No.	NRAQ/7
North America Certification	UL listed
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions

