DATASHEET - EASY721-DC-TC



Control relay, 24 V DC, 12DI(4AI), 8DO-Trans, display, time, expandable



EASY721-DC-TC Part no. Catalog No. 274121

EL-Nummer (Norway)

4519778

Delivery program

	easy700 (expandable)
	Expandable: Digital inputs/outputs, bus systems AS-Interface, PROFIBUS-DP, CANopen®, DeviceNet customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781)
	12
	4
	Transistor: 8
Number	8
	8
	#
	#
	Expandable
	24 V DC
	EASY-SOFT-BASIC/-PRO
	screw terminal
	Number

Technical data

Technical data			
General			
Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
Approvals			CSA UL EAC
Weight		kg	0.3
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Terminal capacities			
Solid		mm^2	0.2/4 (AWG 22 - 12)
Flexible with ferrule		mm^2	0.2/2.5 (AWG 22 - 12)
Standard screwdriver		mm	0.8 x 3.5
Max. tightening torque		Nm	0.6
Climatic environmental conditions			
Operating ambient temperature		°C	In accordance with IEC 60068-2-1, -25 - +55
Condensation			Take appropriate measures to prevent condensation
LCD display (clearly legible)		°C	0 - 55
Storage	8	°C	-40 - +70
relative humidity		%	in accordance with IEC 60068-2-30, IEC 60068-2-78 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	1

Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			III/2
Electrostatic discharge (ESD)			
applied standard			according to IEC EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	10
Radio interference suppression		-,	EN 55011 Class B, EN 55022 Class B
Burst		kV	according to IEC/EN 61000-4-4
power pulses (Surge)		KV.	according to IEC/EN 61000-4-5
power pulses (surge)			1 kV (supply cables, symmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
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			
Back-up of real-time clock			
			Backup time (hours) with fully charged double layer capacitor Service life (years)
Accuracy of real-time clock to inputs		s/day	typ. ± 2 (± 0.2 h/Year)
			depending on ambient air temperature fluctuations of up to ±5 s/day (±0.5 h/year) are possible
Repetition accuracy of timing relays			
Accuracy of timing relays (of values)		%	± 0.02
Resolution			
Range "S"		ms	10
Range "M:S"		s	1
Range "H:M"		min	1
Retentive memory			
Write cycles of the retentive memory			1000000 (10 ⁶)
Power supply Rated operational voltage		V	24 DC / 4E/, 200/ \
, ,	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 (Notice: A short-circuit will result if 0 V or earth is applied to the outputs in the event that the supply voltage is connected to the wrong poles.)
Input current			normally 140 mA at U _e
Voltage dips		ms	≤ In accordance with IEC 61131-2 ≤ 10
Fuse		Α	≧ 1A (T)
Power loss	P	W	Normally 2
Digital inputs 24 V DC			
Number			12
Inputs can be used as analog inputs			4 (17, 18, 111, 112)
Status Display			LCD-Display
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no to easyLink: no
Rated operational voltage	U _e	V DC	24
Input voltage		V DC	Signal 0: ≤ 5 (I1 - I12, R1 - R12) Signal 1: ≥ 15 (I1 - I6, I9, I10), ≥ 8 (I7, I8, I11, I12)
Input current at signal 1		mA	I1 - I6, I9, I10: 3.3 (at 24 V DC) I7, I8, I11, I12: 2.2 (at 24 V DC)
Deceleration time		ms	20 (0 -> 1/1 -> 0, Debounce ON) normally 0.25 (0 -> 1, Debounce OFF, I1 - I12)
Cable length		m	100 (unshielded)

Frequency counter			
Number			2 (13, 14)
Counter frequency		kHz	≦1
Pulse shape			Square
Pulse pause ratio			1:1
Cable length		m	≤ 20 (screened)
Rapid counter inputs			
Number			2 (11, 12)
Cable length		m	≤ 20 (screened)
Counter frequency		kHz	≦1
Pulse shape			Square
Pulse pause ratio			1:1
Digital inputs 24 V AC			
Status Display			LCD-Display
Analog inputs			
Number			4 (17, 18, 111, 112)
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no to easyLink: no
Input type			DC voltage
Signal range			0-10 V DC
Resolution			0.01 V analog 0.01 V digital 10 Bit (value 0 - 1023)
Input impedance		kΩ	11.2
Accuracy of actual value			
two devices from series		%	± 3
Within a single device		%	± 2, (17, 18, 111, 112) ± 0.12 V
Conversion time, analog/digital		ms	Input delay ON: 20; Input delay OFF: each cycle time
Input current		mA	<1
Cable length		m	≤ 30, screened
Transistor outputs			
Number			8
Rated operational voltage	Ue	V DC	24
Permissible range	U _e		20.4 - 28.8 V DC
Residual ripple		%	5
Supply current		mA	Norm./max. 18/32 at signal 0
Protection against polarity reversal			24/44 at signal 1 yes (Notice: A short-circuit will result if 0 V or earth is applied to the outputs in the
Potential isolation			event that the supply voltage is connected to the wrong poles.) from power supply: yes
			From the inputs: yes to the interface: yes to the memory card: yes to easyLink: yes
Rated operational current at signal "1" DC per channel	1	A	Max. 0.5
	l _e		
Residual current on 0 signal per channel		mA	< 0.1
Max. output voltage		V	2.5 (signal 0 at external load < 10 M Ω) $U = U_e - 1 V$ (signal 1 at $I_e = 0.5 A$)
Short-circuit protection			Yes, thermal (analysis via diagnostics input I16, I15; R15, R16)
Short-circuit tripping current for $R_a \leqq 10 \text{ m}\Omega$		А	$0.7 \le I_e \le 2 \text{ per output}$
Total short-circuit current		Α	16
Peak short-circuit current		Α	32
Thermal cutout			Yes
Max. operating frequency with constant resistive load		Operati h	on s 0000
Parallel connection of outputs			
With resistive load, inductive load with external suppressor circuit, combination within a group			Group 1: Q1 to Q4 Group 2: Q5 - Q8
Number of outputs	max.		4

	Α	2 (Caution! Outputs must be actuated simultaneously and for the same length of time.)
		LCD-display
	g	0.25
	% DF	100
	Operation	nd 500
	g	0.25
	% DF	100
	Operation	d 500
	g	0.25
	% DF	100
	Operation	d 500
	g	1
	% DF	100
	Operation	Depending on the suppressor circuit
P	W	2
	P	g % DF Operation g % DF Operation g % DF Operation g % DF Operation

Design verification as per IFC/FN 61/39

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	3.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
C/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 ETIM 7.0

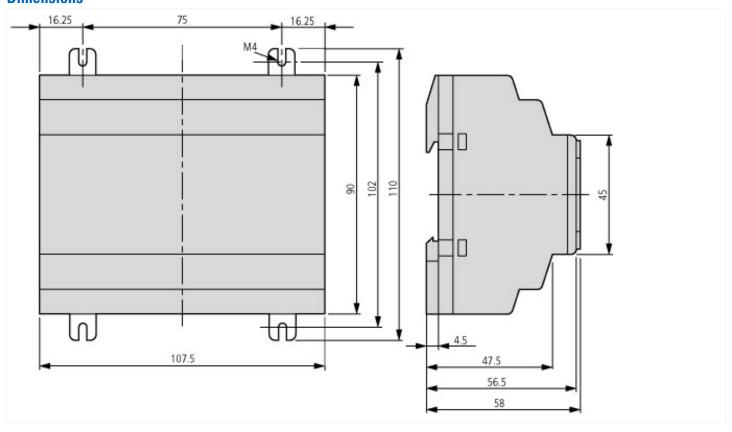
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Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No			No
Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No No	Supporting protocol for PROFIsafe		No
Radio standard Bluetooth Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for SafetyBUS p		No
Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for other bus systems		No
Radio standard GPRS No	Radio standard Bluetooth		No
	Radio standard WLAN 802.11		No
Definition of the COM	Radio standard GPRS		No
NO NO	Radio standard GSM		No
Radio standard UMTS No	Radio standard UMTS		No

IO link master		No
Redundancy		No
With display		Yes
Degree of protection (IP)		IP20
Basic device		Yes
Expandable		Yes
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	107.5
Height	mm	90
Depth	mm	58

Approvals

Product Standards	IEC/EN see Technical Data; UL 508; CSA C22.2 No. 142-M1987; CSA C22.2 No. 213-M1987; CE marking
UL File No.	E135462
UL Category Control No.	NRAQ
CSA File No.	012528
CSA Class No.	2252-01 + 2258-02
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product information (links)

Additional product information (miks)				
Instruction leaflet "easy control relays" IL05013015Z (AWA2528-2105)				
Instruction leaflet "easy control relays" IL05013015Z (AWA2528-2105)	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013015Z2018_02.pdf			
Manual "easy500, easy700 control relays" MN05013003Z (AWB2528-1508)				
Handbuch "Steuerrelais easy500, easy700" MN05013003Z (AWB2528-1508) - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05013003Z_DE.pdf			
Manual "easy500, easy700 control relays" MN05013003Z (AWB2528-1508) - English	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN05013003Z_EN.pdf			
f1=1454&f2=1179;Labeleditor	http://applications.eaton.eu/sdlc?LX=11&			