

Control relay, 24VAC, 12DI(4AI), 6DO relays, display, time, expandable

Powering Business Worldwide™

Part no. EASY719-AB-RC Article no. 274113

Delivery program		
Product range		Control relays easyRelay
Basic function		easy700 (expandable)
Description		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)
nputs		
Digital		12
of which can be used as analog		4
Dutputs		
Туре		Relay
Quantity of outputs		Relays: 6
Outputs	Number	6
Relay 10 A (UL)		6
Additional features		
Display		with display, with keypad
Real time clock		V
Display & keypad		v
expansions		Expandable
Supply voltage		24 V AC
Software		EASY-SOFT-BASIC/-PRO

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Vibrations

Drop to IEC/EN 60068-2-31

Mounting position

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

Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms

Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
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	3.5 x 0.8
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	9	°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

3,5 mm / 1 g Hz

Drop height

Impacts 18

50

Vertical or horizontal

mm

m

In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150

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		V/III	EN 55011 Class B, EN 55022 Class B
Burst		kV	according to IEC/EN 61000-4-4
		KV	•
power pulses (Surge)			according to IEC/EN 61000-4-5 2 kV (supply cables, symmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		٧	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			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
			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 hYear)
			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	U _e	V	24 AC
Permissible range	U _e		20.4 - 26.4 V AC
Frequency		Hz	50/60 (± 5%)
Input current			normally 300 mA at 24 V AC 50/60 Hz
Voltage dips		ms	≤ In accordance with IEC 61131-2 ≤ 20
Fuse		Α	≧ _{1A (T)}
Power loss	Р	W	Normally 10
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
Rated operational voltage	U _e	V AC	24
Input voltage (AC = sinusoidal)	U _e	V	Signal 0: 0 - 6 V AC Signal 1: > 8 V AC / > 11 V DC (I7, I8, I11, I12), 14 - 26.4 V AC (I1 - I6, I9, I10)
Rated frequency		Hz	50 - 60
Input current at signal 1		mA	11 - 16, 19, 110: 4 (at 24 V AC, 50 Hz) 17, 18, 111, 112: 2 (at 24 V AC/DC)
Deceleration time		ms	8066% (0 -> 1/1 -> 0, debounce ON/OFF 50/60Hz, I1 to I12)
Cable length		m	normally 40 (max. per input)
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 EASY devices		%	± 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
Relay outputs			
Number			6
Outputs in groups of			1
Parallel switching of outputs for increased output			Not permissible
Protection of an output relay			Miniature circuit-breaker B16 or fuse 8 A (slow)
Potential isolation			from power supply: yes From the inputs: yes Safe isolation according to EN 50178: 300 V AC Basic isolation: 600 V AC
Lifespan, mechanical	Operations	x 10 ⁶	10
Contacts			
Conventional thermal current (10 A UL)		Α	8
Recommended for load: 12 V AC/DC		mA	> 500
Short-circuit-proof $\cos \phi$ = 1, characteristic B16 at 600 A		Α	16
Short-circuit-proof cos ϕ = 0.5 to 0.7, characteristic B16 at 900 A		Α	16
Rated impulse with stand voltage \mathbf{U}_{imp} of contact coil		kV	6
Rated operational voltage	U _e	V AC	250
Rated insulation voltage	Ui	V AC	250
Safe isolation according to EN 50178		V AC	300 between coil and contact 300 between two contacts
Making capacity			
AC15, 250 V AC, 3 A (600 ops./h)	Operations		300000
DC-13, L/R = 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
Breaking capacity			
AC-15, 250 V AC, 3 A (600 Ops./h)	Operations		300000
_	Operations		200000
DC-13, L/R ≤ 150 ms, 24 V DC, 1 A (500 S/h)			
Filament bulb load	0		2000
1000 W at 230/240 V AC	Operations		25000
500 W at 115/120 V AC	Operations		25000
Fluorescent lamp load			
Fluorescent lamp load 10 x 58 W at 230/240 V AC	0		35000
With upstream electrical device	Operations		25000
Uncompensated	Operations		25000
Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated	Operations		25000
Switching frequency Mechanical apprations		e	10
Mechanical operations		x 10 ⁶	10
Switching frequency		Hz	10
Resistive load/lamp load		Hz	2
Inductive load		Hz	0.5
UL/CSA			
Uninterrupted current at 240 V AC		Α	10

Uninterrupted current at 24 V DC		Α	8
AC			
Control Circuit Rating Codes (utilization category)			B 300 Light Pilot Duty
Max. rated operational voltage		V AC	300
max. thermal continuous current cos $\phi=1$ at B 300		Α	5
max. make/break cos φ ≠ capacity 1 at B 300		VA	3600/360
DC			
Control Circuit Rating Codes (utilization category)			R 300 Light Pilot Duty
Max. rated operational voltage		V DC	300
Max. thermal uninterrupted current at R 300		Α	1
Max. make/break capacity at R 300		VA	28/28
Supply voltage U _{Aux}			
Power loss	P	W	10

Design verification as per IEC/EN 61439

besign vermeation as per 120/214 01-103			
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	10
Heat dissipation capacity	P _{diss}	W	0
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 ETIM 6.0

PLC's (EG000024) / Logic module (EC001417)			
Electric engineering, automation, process control engineering / Control / Programm	nable logic control (SPS)	Logic module (ecl@ss8.1-27-24-22-16 [AKE539011])	
Supply voltage AC 50 Hz	V	20.4 - 26.4	
Supply voltage AC 60 Hz	V	20.4 - 26.4	

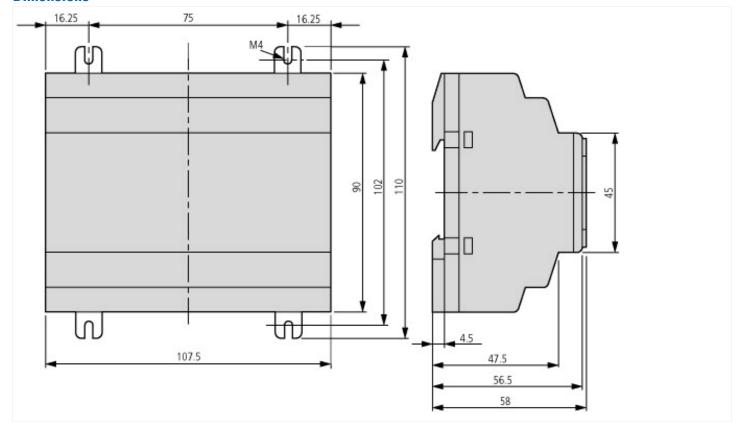
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Redundancy No Voc			
	With display		
Expansion device Yes Expansion device No			
	Expansion device With timer		
With timer Yes Rail mounting possible Yes			
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Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. to 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

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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)

Instruction leaflet "easy control relays" IL050	nstruction leaflet "easy control relays" IL05013015Z (AWA2528-2105)		
Instruction leaflet "easy control relays" IL05013015Z (AWA2528-2105)	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013015Z.pdf		
Instruction leaflet "easy control relays" IL05013015Z (AWA2528-2105)	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013015Z2016_04.pdf		
Manual "easy500, easy700 control relays" MN05013003Z (AWB2528-1508)			

MN05013003Z (AWB2528-1508) Steuerrelais easy500, easy700 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013003Z_DE.pdf
MN05013003Z (AWB2528-1508) easy500, easy700 control relay - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013003Z_EN.pdf
Labeleditor (Beschriftungssoftware)	http://downloadcenter.moeller.net/de/software.f6023a63-5acb-42c7-a51c-ccf99091cace