

## Control relay, 24VAC, 8DI(2AI), 4DO relays, time

Part no. EASY512-AB-RCX Article no. 274102



**Delivery program** 

Product range		Control relays easyRelay
Basic function		easy500
Description		Stand alone customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781)
Inputs		
Digital input count		digital: 8 digital: 8; of which can be used as analog: 2
Digital		8
of which can be used as analog		2
Outputs		
Туре		Relay
Quantity of outputs		Relays: 4
Outputs	Number	4
Relay 10 A (UL)		4
Additional features		
Display		without display, without keypad
Real time clock		<b>'</b>
Supply voltage		24 V AC
Software		EASY-SOFT-BASIC/-PRO

#### **Technical data**

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General			
Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
Dimensions (W x H x D)		mm	71.5 x 90 x 58 (4 PE)
Weight		kg	0.2
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Terminal capacities			
Solid		$\text{mm}^2$	0.2/4 (AWG 22 - 12)
Flexible with ferrule		mm <sup>2</sup>	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
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
Vibrations	3,5 mm / 1 g	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 Supply cables: 2 Signal cables: 2
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)		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			© <b>1</b> 300
Buck 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 $\pm5$ s/day ( $\pm0.5$ h/year) are possible
Repetition accuracy of timing relays		0/	
Accuracy of timing relays (of values)		%	±1
Resolution			10
Range "S"		ms	10
Range "M:S"		S	1
Range "H:M"  Retentive memory		min	1
Write cycles of the retentive memory			1000000 (10 <sup>6</sup> )
Power supply			
Rated operational voltage	U <sub>e</sub>	V	24 AC
Permissible range	U <sub>e</sub>		20.4 - 26.4 V AC
Frequency		Hz	50/60 (± 5%)
Input current			normally 200 mA at 24 V AC 50/60 Hz
Voltage dips		ms	≤ In accordance with IEC 61131-2 ≤ 20
Fuse		Α	≥ <sub>1A (T)</sub>
Power loss	Р	W	Normally 6
Digital inputs 24 V DC		••	No. many C
Number			8
Inputs can be used as analog inputs			2 (17,18)
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no
Rated operational voltage	U <sub>e</sub>	V AC	24
Input voltage (AC = sinusoidal)	U <sub>e</sub>	V	Signal 0: 0 - 6 V AC Signal 1: > 8 V AC / > 11 V DC (I7, I8), 14 - 26.4 V AC (I1 - I6)
Rated frequency		Hz	50 - 60
Input current at signal 1		mA	11 - 16: 4 (at 24 V AC, 50 Hz) 17, 18: 2 (at 24 V AC/DC)
Deceleration time		ms	80·66% (0 -> 1/1 -> 0, debounce ON/OFF 50/60Hz, I1 to I8)
Cable length  Analog inputs		m	normally 40 (max. per input)
Number Potential isolation			2 (I7, I8)  from power supply: no between digital inputs: no from the outputs: yes

Repart Paragraph   Repart Repart   Repart Repart   Repart Repart   Repart Repart   Repart R				to interface/memory card: no
Resolution   Re	Input type			DC voltage
	Signal range			0-10 V DC
Note   Part	Resolution			0.01 V digital
The NEAR' devices         5         2 (1) III, 11 (1) (2) - 0.1 V (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Input impedance		kΩ	11.2
Within angle device   Simple device   Simpl				
Within a single device         %         2, 10, 18, 11, 112 ± 0, 12 V           Convenion from, sandgoligotia         max         < 1 both safety OV 32, Input delay OFF each cycle fine           Cobe length         max         5 support           Cobe length         max         5 support           College outputs         Section         4 support           Whether         Section         4 support           Object in groupe of an output rate         Section         4 support rate           Presention of an output rate         Section         4 support rate           Presention of an output rate         Section         6 support           Elegation and fine for interest of an autput rate         Section         6 support           Presention of an output rate         Section         7 support           Presention of an output rate         Section         7 support           Contracts         Section         7 support         8 support           Contracts         Section         8 support         9 support           Contracts         A support         9 support         9 support           Contracts         Section         9 support         9 support           Recent and presention of sure of the Support         9 support         9 support			%	±3
Exercision time, saningrigiginal   Injust carrent   Injus carrent	Within a single device			± 2, (I7, I8, I11, I12) ± 0.12 V
Relay controls         Section of Controls         Section S			ms	
Relay cursurs         Section of Company of C	Input current		mA	<1
Number   Parallel propose of   Parallel protection of propose of   Parallel protection of an output for increased output   Parallel protection of the protection of an output for increased output   Parallel protection of the protection o			m	<b>S</b>
Number         Questiant in groups of         1         1           Pratalel avoiching of outquts for increased output         Free Parallel whething of outquts for increased output         Not permissible           Pratalel sidelition         Appeal by Septimen Septim				— 30, screened
Dumble is in groups of Parallel protection of outputs for increased output   Parallel protection of no totput relay   Parallel protection of the relation of the protection of the protect				4
Parallel switching of outputs for increased output   Protection of an output relay   Protectial isolation   Protectial isolation according to EN 98178: 300 V AC Basic isolation according to EN 98178: 300 V A				
Protection of an output relay   Potential isolation   Potential	· · · ·			
Potential isolation         Immonity study vise from books study vise from the insulative vise isolation according to EN 50178 300 V AC Softs isolation according to EN 50178 300 V				
Conventional thermal current (10 A UL)         A         B           Recommended for local: 12 VA CDC         MA         > 500           Short-circuit-proof cos φ = 1, obracteristic B16 at 900 A         A         16           Rated impulse withstand voltage U <sub>mp</sub> of contact coil         U <sub>e</sub> VAC         250           Rated impulse withstand voltage B U <sub>mp</sub> of contact coil         U <sub>e</sub> VAC         250           Rated insulation voltage         U <sub>p</sub> VAC         250           Rated insulation voltage         U <sub>p</sub> VAC         300 between coil and contact           Meking capacity         VAC         300 between two contacts           BC-13, LR = 150 ms, 24 V DC, 1 A (500 S/h)         Querations         200000           Broking capacity         V         200000           BC-13, LR = 150 ms, 24 V DC, 1 A (500 S/h)         Querations         200000           Broking capacity         V         200000           BC-13, LR = 150 ms, 24 V DC, 1 A (500 S/h)         Querations         200000           Broking capacity         V         25000           Broking capacity         V         25000           Broking capacity         V         25000           Broking capacity         25000         25000				from power supply: yes From the inputs: yes Safe isolation according to EN 50178: 300 V AC
Conventional thermal current   10 A UL)	Lifespan, mechanical	Operations	x 10 <sup>6</sup>	10
Recommended for load: 12 V AC/DC   Short-circuit-proof cos e = 1, characteristic B18 at 800 A   Short-circuit-proof cos e = 0.5 to 0.7, characteristic B16 at 900 A   A   16	Contacts			
Short-circuit-proof cos q = 1, characteristic B16 at 900 A   16	Conventional thermal current (10 A UL)		Α	8
Short-circuit-proof cos φ = 0.5 to 0.7, characteristic B16 at 900 A   Rated impulse withstand voltage   U <sub>amp</sub> of contact coil   V <sub>a</sub>   V <sub>A</sub> C   250   Rated impulse withstand voltage   U <sub>a</sub>   V <sub>A</sub> C   250   Rated impulse notage   V <sub>a</sub> C   V <sub>A</sub> C   250   Rated impulse notage   V <sub>a</sub> C   V <sub>A</sub> C   250   Safe isolation according to EN 50178   V <sub>A</sub> C   300 between coil and contact 300 between two contacts 300 between two contac	Recommended for load: 12 V AC/DC		mA	> 500
Rated inpulse withstand voltage U <sub>mp</sub> of contact coil         kV         5           Rated operational voltage         U <sub>e</sub> VAC         250           Rated insulation voltage         U <sub>e</sub> VAC         250           Safe isolation according to EN 59178         VAC         300 between coil and contact 300 between two contacts           Making capacity         300 botween two contacts           AC-15, 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         2000000         200000           Breaking capacity         3000000         200000           Breaking spacety         2000000         200000           Breaking spacety         2000000         200000           Breaking spacety         2000000         200000           Breaking spacety         2000000         2000000           Breaking spacety         2000000         200000           Filement bulb load         250000         2000000           Filement bulb load         250000         25000           Fluorescent lamp load 1 x 58 W at 250/240 V AC         200000         25000           Fluorescent lamp load 1 x 58 W at 250/240 V AC, conventional, compensated         25000         25000           Fluorescent lamp load 1 x 58 W at 250/240 V AC, con	Short-circuit-proof $\cos \phi$ = 1, characteristic B16 at 600 A		Α	16
Rated operational voltage         U <sub>B</sub> V AC         250           Rated insulation voltage         U <sub>B</sub> V AC         250           Safe isolation according to EN 50178         V AC         300 between coil and contact 300 between two contacts           Making capacity         AC—15, 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         2000000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         250000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         25000           Breaking capacity         CP 250 V AC, 3 A (600 ops./h)         Operations         25000           Brown at 15/120 V AC         Operations         25000         25000           Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated         Operations         25000         25000           Pluorescent lamp load 1 x 58 W at 230/240 V AC, conventiona	Short-circuit-proof cos $\phi$ = 0.5 to 0.7, characteristic B16 at 900 A		Α	16
Rated insulation voltage         U <sub>I</sub> V AC         250           Safe isolation according to EN 50178         V AC         300 between coil and contact           Making capacity         AC-15, 250 V AC, 3 A (600 ops./h)         Operations         3000000           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         200000           DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)         Operations         200000           Filament bulb load         Operations         25000           1000 W at 230/240 V AC         Operations         25000           500 W at 115/120 V AC         Operations         25000           Fluorescent lamp load 1 v 58 W at 230/240 V AC         Operations         25000           With upstream electrical device         Operations         25000           Uncompensated         Operations         25000           Fluorescent lamp load 1 v 58 W at 230/240 V AC, conventional, compensated         Operations         25000           Switching frequency         HZ         10           Mechanical operations         X 10 <sup>6</sup> 10           Switching frequency         HZ         2           Inductive load         HZ	Rated impulse withstand voltage U <sub>imp</sub> of contact coil		kV	6
Safe is ablation according to EN 50178         V AC         300 between coil and contact 300 between two contacts           Making capacity         AC—15, 250 V AC, 3 A (600 ops./h)         Operations         3000000           DC-13, LR ≦ 150 ms, 24 V DC, 1 A (500 S/h)         Operations         3000000           Breaking capacity         AC-15, 250 V AC, 3 A (600 Ops./h)         Operations         3000000           DC-13, LR ≦ 150 ms, 24 V DC, 1 A (500 S/h)         Operations         2000000           Fluance to bull load         Operations         25000           1000 W at 230,240 V AC         Operations         25000           Fluorescent lamp load 10 x 58 W at 230,240 V AC         Operations         25000           Fluorescent lamp load 10 x 58 W at 230,740 V AC, conventional, compensated         Operations         25000           Pluorescent lamp load 1 x 58 W at 230,740 V AC, conventional, compensated         Operations         25000           Switching frequency         x 10°         10           Mechanical operations         x 10°         10           Switching frequency         Hz         2           Resistive load/lamp load         Hz         2           Inductive load         Hz         2           Uninterrupted current at 240 V AC         A         10           Uninter	Rated operational voltage	U <sub>e</sub>	V AC	250
Making capacity         300 between two contacts           AC—15, 250 V AC, 3 A (600 ops./h)         Operations         300000           Breaking capacity         200000         200000           Breaking capacity         0 Operations         3000000           AC-15, 250 V AC, 3 A (600 Ops./h)         Operations         3000000           Breaking capacity         Operations         2000000           Breaking capacity         Operations         25000           Brown at 115/120 V AC         Operations         25000           Fluorescent lamp load 10 x 58 W at 230/240 V AC         Operations         25000           Witching frequency         Operations         25000           Mechanical operations         x 10 <sup>6</sup> 10           Switching frequency         Nt 10         Nt 2         10           Resistive load/lamp load         Nt 2         1         2           Inductive load <t< td=""><td>Rated insulation voltage</td><td>Ui</td><td>V AC</td><td>250</td></t<>	Rated insulation voltage	Ui	V AC	250
AC-15, 250 V AC, 3 A (600 ops/h)	Safe isolation according to EN 50178		V AC	
DC-13, L/R	Making capacity			
Bc-13_ L/R — 150 ms, 24 V DC, 1 A (500 S/h)         Operations         300000           AC-15, 250 V AC, 3 A (600 Ops_h)         Operations         200000           DC-13_ L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)         Operations         200000           Fluament bulb load         25000         25000           1000 W at 230/240 V AC         Operations         25000           500 W at 115/120 V AC         Operations         25000           Fluorescent lamp load I n x 58 W at 230/240 V AC         Operations         25000           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 operations         25000           Switching frequency         Hz         10           Resistive load/lamp load         Hz         2           Inductive load         Hz         0.5           UL/CSA         Uninterrupted current at 240 V AC         A         10           Uninterrupted current at 240 V AC         A         8	AC15, 250 V AC, 3 A (600 ops./h)	Operations		300000
Breaking capacity         AC-15, 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           Filament bulb load         Tool 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         Operations         25000           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         x 10 <sup>6</sup> 10           Mechanical operations         x 10 <sup>6</sup> 10           Switching frequency         Hz         10           Resistive load/lamp load         Hz         2           Inductive load         Hz         0.5           Ul/CSA         Uninterrupted current at 240 V AC         A         10           Uninterrupted current at 240 V AC         A         8	DC-13, L/R = 150 ms. 24 V DC. 1 A (500 S/h)	Operations		200000
AC-15, 250 V AC, 3 A (600 Ops,/h)  DC-13, UR ≤ 150 ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC  500 W at 115/120 V AC  Fluorescent lamp load  Fluorescent lamp load 10 x 58 W at 230/240 V AC  With upstream electrical device  Uncompensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Operations  Switching frequency  Mechanical operations  Switching frequency  Resistive load/lamp load  Inductive load  UI/CSA  UI/INITIATIVE CUITENED A  UI/INITIATIVE CUITENED A  UIIINITIATIVE CUITENED A  UIIINI				
DC-13, L/R ≤ 150 ms, 24 V DC, 1 A (500 S/h)		Operations		300000
DC-13, L/R = 150 ms, 24 V DC, 1 A (500 S/h)     Filament bulb load     1000 W at 230/240 V AC   Operations   25000     500 W at 115/120 V AC   Operations   25000     Fluorescent lamp load 1				
1000 W at 230/240 V AC		'		
Fluorescent lamp load Fluorescent lamp load 10 x 58 W at 230/240 V AC  With upstream electrical device Uncompensated Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations Switching frequency Mechanical operations Switching frequency Hz 10 Resistive load/lamp load Inductive load UL/CSA Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC A 8				
Fluorescent lamp load  Fluorescent lamp load 10 x 58 W at 230/240 V AC  With upstream electrical device  Uncompensated  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Operations  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Operations  Switching frequency  Mechanical operations  Switching frequency  Resistive load/lamp load  Inductive load  UL/CSA  Uninterrupted current at 240 V AC  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A 8				
Fluorescent lamp load 10 x 58 W at 230/240 V AC  With upstream electrical device  Uncompensated  Operations  Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Operations  Switching frequency  Mechanical operations  x 10 <sup>6</sup> 10  Switching frequency  Hz  10  Resistive load/lamp load  Hz  2  Inductive load  Uninterrupted current at 240 V AC  Uninterrupted current at 240 V AC  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A  8		Operations		25000
With upstream electrical device Uncompensated Operations Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations Switching frequency Mechanical operations  x 10 <sup>6</sup> 10  Switching frequency Hz 10  Resistive load/lamp load Hz 2  Inductive load Uninterrupted current at 240 V AC Uninterrupted current at 240 V DC  A 8				
Uncompensated Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Switching frequency  Mechanical operations  Switching frequency  Hz  10  Resistive load/lamp load  Inductive load  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  Perations  25000  25000  10  25000  A  10  A  10  A  10  A  10  A  10  Compensated  A  10  A  10  A  10  Compensated  A  10  A  10  Compensated  A  10  A  10  Compensated  Compensated  A  10  A  8				
Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated  Switching frequency  Mechanical operations  x 10 <sup>6</sup> 10  Switching frequency  Hz  10  Resistive load/lamp load  Hz  Inductive load  Ul/CSA  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A  8				
Switching frequency  Mechanical operations  x 10 <sup>6</sup> 10  Switching frequency  Hz  10  Resistive load/lamp load  Hz  2  Inductive load  Hz  0.5  UL/CSA  Uninterrupted current at 240 V AC  A 10  Uninterrupted current at 24 V DC  A 8				
Mechanical operations x 10 <sup>6</sup> 10  Switching frequency Hz 10  Resistive load/lamp load Hz 2  Inductive load Hz 0.5  UL/CSA A 10  Uninterrupted current at 240 V AC A 10  Uninterrupted current at 24 V DC A 8		Operations		25000
Switching frequency  Resistive load/lamp load  Hz  Inductive load  Hz  UL/CSA  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A  8				
Resistive load/lamp load Hz 2 Inductive load Hz 0.5  UL/CSA Uninterrupted current at 240 V AC A 10 Uninterrupted current at 24 V DC A 8			x 10 <sup>6</sup>	10
Inductive load  UL/CSA  Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A 8			Hz	10
UL/CSA Uninterrupted current at 240 V AC Uninterrupted current at 24 V DC A 8	Resistive load/lamp load		Hz	2
Uninterrupted current at 240 V AC  Uninterrupted current at 24 V DC  A  8			Hz	0.5
Uninterrupted current at 24 V DC A 8				
			Α	10
AC			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 $\phi$ ≠ 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 <sub>Aux</sub>			
Power loss	P	W	6

### **Design verification as per IEC/EN 61439**

Design vernication as per illo/liv 01433			
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 <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	6
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
EC/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.
$10.2.3.3Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			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 / Programmable 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	
Supply voltage DC	V	0 - 0	
Voltage type of supply voltage		AC	

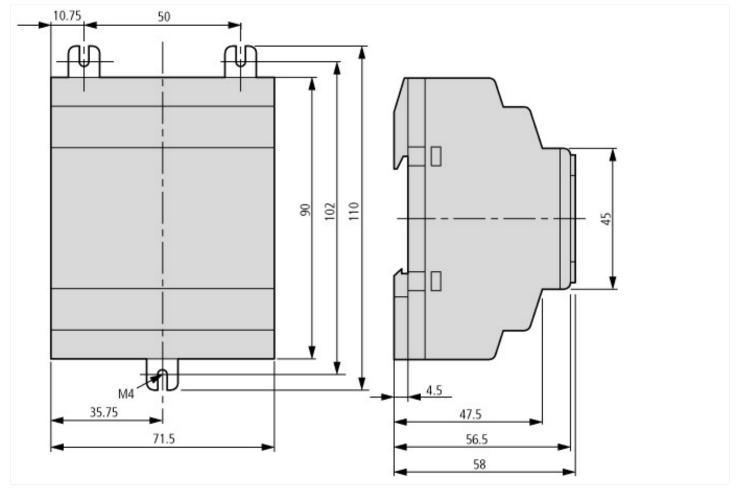
Switching ourrent	А	0
Switching current	A	8
Number of analogue inputs		2
Number of analogue outputs		0
Number of digital inputs		8
Number of digital outputs		4
With relay output		Yes
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With optical interface		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Redundancy		No
With display		No
Degree of protection (IP)		IP20
Basic device		Yes
Expandable		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			
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	m	nm	71.5
Height	m	nm	90
Depth	m	nm	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" 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			