

## Control relay, 100-240VAC, 8DI, 4DO relays, display

Powering Business Worldwide\*

Part no. EASY512-AC-R Article no. 274103

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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
Outputs		
Туре		Relay
Quantity of outputs		Relays: 4
Outputs	Nun	nber 4
Relay 10 A (UL)		4
Additional features		
Display		with display, with keypad
Display & keypad		<b>✓</b>
Supply voltage		100 - 240 V AC
Software		EASY-SOFT-BASIC/-PRO

### **Technical data**

### 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
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
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			111/2

Electrostatic discharge (ESD)			
• • •			according to IEC EN 61000 4.2
applied standard		111	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)  Insulation resistance		V	10
Clearance in air and creepage distances			EN 50178, UL 508, CSA C22.2, No. 142
Insulation resistance			EN 50178
Repetition accuracy of timing relays			
Accuracy of timing relays (of values)		%	±1
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 <sup>6</sup> )
Power supply			
Rated operational voltage	U <sub>e</sub>	V	100/110/115/120/230/240 AC (-15/+10%)
Permissible range	U <sub>e</sub>		85 - 264 V AC
	O <sub>e</sub>		
Frequency		Hz	50/60 (± 5%)
Input current			normally 40 mA at 115/120 V AC 60 Hz normally 20 m A at 230/240 V AC 50 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			,
Status Display			LCD-Display
Digital inputs 24 V DC			
Status Display			LCD-Display
Digital inputs 115/230 V AC			
Number			8
Status Display			LCD-Display
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no
Input voltage (sinusoidal)	U <sub>e</sub>	V AC	Signal 0: 0 - 40 Signal 1: 79 - 264
Rated frequency		Hz	50 - 60
Input current at signal 1		mA	11 - 16: 6 x 0.25 (at 115 V AC, 60 Hz) 17, 18: 2 x 4 (at 115 V AC, 60 Hz) 11 - 16: 6 x 0.5 (at 230 V AC, 50 Hz) 17, 18: 2 x 6 (at 230 V AC, 50 Hz)
Deceleration time		ms	8066% (0 -> 1/1 -> 0, debounce ON 50/60Hz, I1 - I6, I9 - I12, R1 - R12) 2016% (0 -> 1/1 -> 0, debounce OFF 50/60Hz, I1 - I6, I9 - I12, R1 - R12) 160/150 (1 -> 0, debounce ON 50/60Hz, I7, I8) 100/100 (1 -> 0, Debounce OFF 50/60Hz, I7, I8) 8066% (0 -> 1, debounce ON 50/60Hz, I7, I8) 2016% (0 -> 1, debounce OFF 50/60Hz, I7, I8)
Cable length		m	Normally 40 I1 to I6 (max. permissible per input) Normally 100 I7, I8 (max. permissible per input)
Relay outputs			
Number			4
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 <sup>6</sup>	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 $\cos \phi$ = 0.5 to 0.7, characteristic B16 at 900 A		Α	16
Rated impulse withstand voltage U <sub>imp</sub> of contact coil		kV	6
Rated operational voltage	U <sub>e</sub>	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	Oneretions		200000
AC-15, 250 V AC, 3 A (600 Ops./h)	Operations		300000 200000
DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
Filament bulb load			
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			
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		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		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 <sub>Aux</sub>			
Power loss	P	W	6

# 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 <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0

Static heat dissipation, non-current-dependent	$P_{vs}$	W	6
Heat dissipation capacity	P <sub>diss</sub>	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 $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( $			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**

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPSI / Use)         Logic module (ec@ss8.1-27-24-22-16 [AKE59901]))           Supply voltage AC 50 Hz         V         85 - 264           Supply voltage DC         V         0 - 0           Voltage type of supply voltage         A         8           Switching current         A         8           Number of analogue inputs         9         6           Number of digital inputs         8         4           Number of digital inputs         9         4           Number of HW-interfaces industrial Ethernet         9         9           Number of HW-interfaces industrial Ethernet         9         9           Number of HW-interfaces RS-232         9         9           Number of HW-interfaces RS-232         9         9           Number of HW-interfaces RS-425         9         9           Number of HW-interfaces RS-485         9         9           Number of HW-interfaces serial TTY         9         9           Number of HW-interfaces Sural TY         9         9           Number of HW-interfaces Sural TY         9         9           Number of HW-interfaces Wireless         9         9           Number of HW-interfaces Wi	Technical data Ethii 6.0					
Supply voltage AC 50 Hz         V         85 - 264           Supply voltage DC         V         0 - 0           Voltage type of supply voltage         AC         AC           Switching current         AB         8           Number of analogue inputs         AB         0           Number of analogue outputs         BB         0           Number of digital inputs         BB         4           With relay output         Yes         Yes           Number of HW-interfaces industrial Ethernet         DB         0           Number of HW-interfaces RS-232         DB         0           Number of HW-interfaces RS-422         DB         0           Number of HW-interfaces RS-485         DB         0           Number of HW-interfaces RS-485         DB         0           Number of HW-interfaces Srail TTY         DB         0           Number of HW-interfaces Wireless         DB         0           Number of HW-interfaces Wireles	PLC's (EG000024) / Logic module (EC001417)					
Supply voltage AC 60 Hz         V         85 - 264           Supply voltage DC         V         0 - 0           Voltage type of supply voltage         AC           Switching current         AB         8           Number of analogue inputs         0         0           Number of digital inputs         8         2           Number of digital outputs         4         4           With relay output         Yes         9           Number of HW-interfaces industrial Ethernet         0         0           Number of HW-interfaces RS-232         0         0           Number of HW-interfaces RS-425         0         0           Number of HW-interfaces RS-485         0         0           Number of HW-interfaces used         0         0           Number of HW-interfaces parallel         0         0           Number of HW-interfaces wireless         0         0           Number of HW-interfaces wireless         0         0           Number of HW-interfaces other         0         0	Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Logic module (ecl@ss8.1-27-24-22-16 [AKE539011])					
Supply voltage DC         V         0 - 0           Voltage type of supply voltage         AC           Switching current         A         8           Number of analogue inputs         0         0           Number of analogue outputs         0         0           Number of digital inputs         8         0           Number of digital outputs         4         4           With relay output         Yes         1           Number of HW-interfaces industrial Ethernet         0         0           Number of HW-interfaces PROFINET         0         0           Number of HW-interfaces RS-232         0         0           Number of HW-interfaces serial TTY         0         0           Number of HW-interfaces serial TTY         0         0           Number of HW-interfaces parallel         0         0           Number of HW-interfaces parallel         0         0           Number of HW-interfaces parallel         0         0           Number of HW-interfaces wireless         0         0           Number of HW-interfaces other         0         0	Supply voltage AC 50 Hz	V	1	85 - 264		
Voltage type of supply voltage  Switching current  ABB  Number of analogue inputs  Number of analogue outputs  Number of digital inputs  Number of digital outputs  Number of digital outputs  Number of digital outputs  Number of HW-interfaces industrial Ethernet  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-425  Number of HW-interfaces RS-425  Number of HW-interfaces RS-485  Number of HW-interfaces SP-485  Number of HW-interfaces	Supply voltage AC 60 Hz	V	•	85 - 264		
Switching currentA8Number of analogue inputs0Number of analogue outputs0Number of digital inputs8Number of digital outputs4With relay outputYesNumber of HW-interfaces industrial Ethernet0Number of HW-interfaces PROFINET0Number of HW-interfaces RS-2320Number of HW-interfaces RS-4220Number of HW-interfaces RS-4850Number of HW-interfaces Srial TTY0Number of HW-interfaces Srial TTY0Number of HW-interfaces parallel0Number of HW-interfaces Vireless0Number of HW-interfaces Wireless0Number of HW-interfaces other1	Supply voltage DC	V	'	0 - 0		
Number of analogue inputs  Number of analogue outputs  Number of digital inputs  Number of digital outputs  Number of digital outputs  Number of HW-interfaces RS-422  Number of HW-interfaces RS-485  Number of HW-interfaces RS-485  Number of HW-interfaces Parallel  Number of HW-interfaces Parallel  Number of HW-interfaces Parallel  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces Other	Voltage type of supply voltage			AC		
Number of analogue outputs  Number of digital inputs  Number of digital outputs  With relay output  Number of HW-interfaces RPGFINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-425  Number of HW-interfaces RS-485  Number of HW-interfaces Serial TTY  Number of HW-interfaces VSB  Number of HW-interfaces VSB  Number of HW-interfaces Viseless  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces other  Number of HW-interfaces other	Switching current	A	<u> </u>	8		
Number of digital inputs  Number of digital outputs  Author of digital outputs  With relay output  Number of HW-interfaces industrial Ethernet  Number of HW-interfaces PROFINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-422  Number of HW-interfaces RS-425  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces Serial TTY  Number of HW-interfaces USB  Number of HW-interfaces USB  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces Other  Number of HW-interfaces Other	Number of analogue inputs			0		
Number of digital outputs  With relay output  Yes  Number of HW-interfaces industrial Ethernet  Number of HW-interfaces PR0FINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-422  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces SE-485  Number of HW-interfaces SE-485  Number of HW-interfaces SE-485  Number of HW-interfaces SE-485  Number of HW-interfaces Wish  Number of HW-interfaces USB  Number of HW-interfaces USB  Number of HW-interfaces Other  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces Other  Number of HW-interfaces Other	Number of analogue outputs			0		
With relay output  Number of HW-interfaces industrial Ethernet  Number of HW-interfaces PROFINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-425  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces parallel  Number of HW-interfaces wireless  Number of HW-interfaces wireless  Number of HW-interfaces wireless  Number of HW-interfaces other  1	Number of digital inputs			8		
Number of HW-interfaces industrial Ethernet  Number of HW-interfaces PROFINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-422  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  Number of HW-interfaces other  Number of HW-interfaces other	Number of digital outputs			4		
Number of HW-interfaces PR0FINET  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  1 Number of HW-interfaces other  1	With relay output			Yes		
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	Number of HW-interfaces industrial Ethernet			0		
Number of HW-interfaces RS-422  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces Wireless  Number of HW-interfaces other  Number of HW-interfaces other  O  Number of HW-interfaces other  Number of HW-interfaces other	Number of HW-interfaces PROFINET			0		
Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces Wireless  Number of HW-interfaces other  Number of HW-interfaces other  O  Number of HW-interfaces other  1	Number of HW-interfaces RS-232			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	Number of HW-interfaces RS-422			0		
Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces Wireless  Number of HW-interfaces other  1	Number of HW-interfaces RS-485			0		
Number of HW-interfaces parallel 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces other 1	Number of HW-interfaces serial TTY			0		
Number of HW-interfaces Wireless 0 Number of HW-interfaces other 1	Number of HW-interfaces USB			0		
Number of HW-interfaces other 1	Number of HW-interfaces parallel			0		
	Number of HW-interfaces Wireless			0		
With optical interface No	Number of HW-interfaces other			1		
	With optical interface			No		

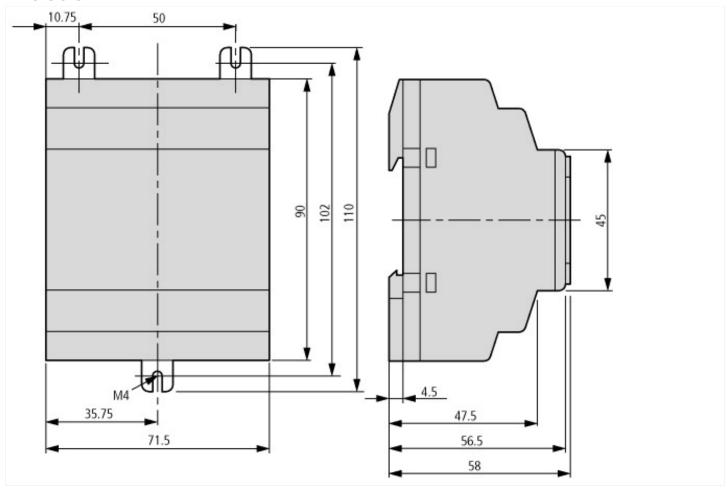
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
		No
Supporting protocol for SUCONET Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
		No
Supporting protocol for PROFINET CBA		
Supporting protocol for SERCOS  Supporting protocol for Equadation Fieldhus		No No
Supporting protocol for Foundation Fieldbus		No No
Supporting protocol for EtherNet/IP		No No
Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety		No No
Supporting protocol for INTERBUS-Safety		No No
Supporting protocol for PROFIsafe		No No
Supporting protocol for SafetyBUS p		No No
Supporting protocol for other bus systems		No No
Radio standard Bluetooth		No No
Radio standard WLAN 802.11		No No
Radio standard GPRS		No No
Radio standard IMTS		No No
Radio standard UMTS  10 link master		No No
		No No
Redundancy With display		No Yes
. ,		IP20
Degree of protection (IP)  Basic device		Yes
Expandable		No
Expansion device		No
With timer		No
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		No
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	71.5
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)

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				