Control relay, 24 V DC, 8DI(2AI), 4DO-Trans, display, time

Powering Business Worldwide

Part no. Catalog No. EASY512-DC-TC

274111

EL-Nummer (Norway)

4519760

Delivery program

Description Stand alone customized laser inscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) Digital of which can be used as analog Dutputs Quantity of outputs Quantity of outputs Outputs Number Transistor: 4 Additional features Real time clock Display & keypad Display & keypad Supply voltage Software Service Service Service Stand alone customized laser inscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user program possible with EASY- COMBINATION-* product (article No. 2010781) 8 4 Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) 8 Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or delivery with user product (article No. 2010781) Franciscription or d	- control / program		
Inputs Digital 8 of which can be used as analog Quantity of outputs Quantity of outputs Number Additional features Real time clock Display & keypad Display & keypad Software Display & keyPad Software Display & keyPad Display & keyPad Software Light a ser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781) B a customized laser inscription or delivery with user product (article No. 2010781) B a customized laser inscription or delivery with user product (article No. 2010781) B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B a customized laser inscription or delivery experiments and user article no. 2010781 B	Basic function		easy500
Digital of which can be used as analog Outputs Quantity of outputs Quantity of outputs Number Transistor Additional features Real time clock Display & keypad Supply voltage Software Bean time clock Display & keypad Supply voltage Software Bean time clock Display & keypad Supply voltage EASY-SOFT-BASIC/-PRO	Description		customized laser inscription or delivery with user program possible with EASY-
Outputs Quantity of outputs Quantity of outputs Number Transistor Additional features Real time clock Display & keypad Supply voltage Software Display & Softw	Inputs		
Outputs Outputs Outputs Outputs Outputs Number 4 Transistor Additional features Real time clock Display & keypad Supply voltage Software Duantity of outputs Transistor: 4 Number 4 4 4 4 Fransistor 4 Fransistor: 4 Fransist	Digital		8
Quantity of outputsTransistor: 4OutputsNumber4Transistor4Additional features***Real time clock#Display & keypad#Supply voltage24 V DCSoftwareEASY-SOFT-BASIC/-PRO	of which can be used as analog		2
Outputs Transistor Additional features Real time clock Display & keypad Supply voltage Software Number 4 4 4 4 4 4 4 Cup Additional features # EASY-SOFT-BASIC/-PRO	Outputs		
Transistor Additional features Real time clock Display & keypad Supply voltage Software 4 4 4 4 4 4 4 4 4 5 4 6 6 7 8 6 8 8 8 8 8 8 8 8 8 8 8	Quantity of outputs		Transistor: 4
Additional features Real time clock Display & keypad Supply voltage Software # EASY-SOFT-BASIC/-PRO	Outputs	Number	4
Real time clock # Display & keypad # Supply voltage 24 V DC Software EASY-SOFT-BASIC/-PRO	Transistor		4
Display & keypad # Supply voltage 24 V DC Software EASY-SOFT-BASIC/-PRO	Additional features		
Supply voltage 24 V DC Software EASY-SOFT-BASIC/-PRO	Real time clock		#
Software EASY-SOFT-BASIC/-PRO	Display & keypad		#
	Supply voltage		24 V DC
Connection type screw terminal	Software		EASY-SOFT-BASIC/-PRO
	Connection type		screw terminal

Technical data

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

Mounting position

lechnical data			
General			
Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
Approvals			CSA UL EAC
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		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	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		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
F (II 1 1 1 1 1 1 1 1 1			·

Vertical or horizontal

Electromagnetic compatibility (EMC) Overvoltage category/pollution degree 111/2 Electrostatic discharge (ESD) applied standard nach IEC/EN 61000-4-2 Air discharge kV 8 kV 6 Contact discharge Electromagnetic fields (RFI) to IEC EN 61000-4-3 V/m 10 EN 55011 Class B, EN 55022 Class B Radio interference suppression 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 1 kV (supply cables, symmetrical) ٧ Immunity to line-conducted interference to (IEC/EN 61000-4-6) **Insulation resistance** EN 50178, UL 508, CSA C22.2, No. 142 Clearance in air and creepage distances Insulation resistance EN 50178 Back-up of real-time clock Back-up of real-time clock 1) Backup time (hours) with fully charged double layer capacitor (2) Service life (years) Accuracy of the real-time clock s/day typ. ± 2 (± 0.2 h/Year) depending on ambient air temperature fluctuations of up to \pm 5 s/day (\pm 0.5 h/year) are possible Repetition accuracy of timing relays Accuracy of timing relays (of values) % ± 1 Resolution Range "S" ms 10 Range "M:S" s Range "H:M" min **Retentive memory** Write cycles of the retentive memory 1000000 (10⁶) **Power supply** Ue Rated operational voltage ٧ 24 DC (-15/+20%) Ue 20.4 - 28.8 V DC Permissible range Residual ripple % ≦ 5 yes (Notice: A short-circuit will result if 0 V or earth is applied to the outputs in the Protection against polarity reversal event that the supply voltage is connected to the wrong poles.) Input current normally 80 mA at Up Voltage dips ms ≤ In accordance with IEC 61131-2 Fuse Α ≥ 1A (T) Power loss Р W Normally 2 **Digital inputs 24 V DC** 2 (17,18) Inputs can be used as analog inputs Status Display LCD-Display from power supply: no between digital inputs: no Potential isolation from the outputs: yes to interface/memory card: no Rated operational voltage Ue V DC Input voltage V DC Signal 0: ≤ 5 (I1 - I8) Signal 1: ≥ 15 (I1 - I6), ≥ 8 (I7, I8) I1 - I6: 3.3 (at 24 V DC) Input current at signal 1 mΑ 17, 18: 2.2 (at 24 V DC) Deceleration time 20 (0 -> 1/1 -> 0, Debounce ON) ms normally 0.25 (0 -> 1, Debounce OFF, I1 - I8) Cable length 100 (unshielded) m Frequency counter Number 2 (13, 14) Counter frequency kHz ≦ 1

Pulsa passara ratio	Dulas alsaga			0
Right description Righ	Pulse shape			Square
Number	·			
Member			m	≦ 20 (screened)
Coute frequency	·			0.000
Politic branche				
Pulse shape Pulse pause ratio				
Politice paties ratio Politica protes 24 PA Politica protes 25 PA Politica protes 26 PA Politica protes 26 PA Politica protes 26 PA Politica protes 27 PA Pol			kHz	
Digital inputs 24 V AC Co-Display Sales Delay's Co-Display Analog inputs 2017, 18 217, 18 Potential isolation 2017, 18 217, 18 217, 18 Imput type 2017, 18 2017, 19 2017, 18 2017, 19 2017, 18 2017, 19 2017, 18 2017, 19 <td></td> <td></td> <td></td> <td></td>				
Same pleply professions to the control of the contr				1:1
Number N				I CD_Display
Number Perential isolation				Los Biopiay
Input type Signal range Resolution Signal range Resolution Signal range Resolution Input impedance Accuracy of actual value two devices from series two devices from series The stand operational voltage The stand operational voltage Resolution Signal range Accuracy of actual value two devices from series The stand operational voltage The stand operational voltage Resolution Accuracy of actual value two devices from series The stand operational value two devices from series The stand operational value two devices from series The stand operational voltage The stand operational voltage The stand operational voltage The stand operational voltage Resolution from the stand operational voltage the standard operational voltage Resolution from the standard voltage Resoluti				2 (17, 18)
Signal range Resolution Input impedance Input impedance Accuracy of actual value ***book orices from series **book orices from s	Potential isolation			between digital inputs: no from the outputs: yes to interface/memory card: no
Resolution				
Imput impedance				
Accuracy of actual value bwo devices from series	Resolution			0.01 V digital
both or devices from series % ± 3 Within a single device % ± 2, 17, 18, 111, 112 ± 0.12 V Conversion time, analog/digital ms apput delay ON: 20, Input delay OF: each cycle time Input current ms 30, screened Cable length m \$ 30, screened Termission outputs Number L Q V2 24 Rested operational voltage Ug 204 - 28.8 V C 204 - 28.8 V C Residual ripple % 5 5 Supply current % 5 1222 at signal 1 Protection against polarity reversal % 5 1222 at signal 1 Protection against polarity reversal % 5 1222 at signal 1 1222 at signal 1 <td>Input impedance</td> <td></td> <td>kΩ</td> <td>11.2</td>	Input impedance		kΩ	11.2
Within a single device Conversion time, analog/digital Input current Cable length	Accuracy of actual value			
Conversion time, analog/digital ms Input delay ON: 20, Input delay OFF: each cycle time Input current mA Cable longth ma 3 0, screened Transistor outputs Number S 4 Rated operational voltage Ue VDC 24 Permissible range Ue 30. To 20.4 28.8 V DC Residual ripple % 5 Supply current Mm. Norm/max. 918 at signal 0 1/202 at signal 1 1/202 a	two devices from series		%	±3
Input current mA < 1 Cable length mA ≤ 30, screened Transistor outputs Transistor outputs Number 4 Rated operational voltage Ug V DC 24 Permissible range Ug V DC 24 Residual ripple % 5 Supply current % 5 Protection against polarity reversal mA Norm/max 9/16 at signal 0 1/222 at signal 1 1/222 at signal 1 12/222 at signal 1 Protection against polarity reversal mA Norm/max 9/16 at signal 0 1/222 at signal 1 12/222 at signal 1 Protection against polarity reversal mA Norm/max 9/16 at signal 1 10/20 or earth is applied to the outputs is event that the supply voltage is connected to the wrong poles.) Rated operational current at signal , 1" DC per channel Ig A Max. 0.5 Residual current on 0 signal per channel Ig A Max. 0.5 Max. output voltage V 2.5 isignal 0 at external load < 10 MI) 10 10 10 10 10 10 10 10 10 10 10 10 <t< td=""><td>Within a single device</td><td></td><td>%</td><td>± 2, (I7, I8, I11, I12) ± 0.12 V</td></t<>	Within a single device		%	± 2, (I7, I8, I11, I12) ± 0.12 V
Transistor outputs Number Rated operational voltage Ve VDC Rasidual ripple Supply current Protection against polarity reversal Petalial isolation Rated operational current at signal _1" DC per channel Rated operational current on 0 signal per channel Max. output voltage Name V	Conversion time, analog/digital		ms	Input delay ON: 20; Input delay OFF: each cycle time
Number Vector of the protection of the protection of the protection against polarity reversal Vector of the protection Vector of the	Input current		mA	<1
Number Rated operational voltage Ve VDC Permissible range Residual ripple Supply current Protection against polarity reversal Protection against polarity reversal Protection against polarity reversal Protential isolation Protential isolation Protential isolation Rated operational current at signal _1" DC per channel Rated operational current at signal _1" DC per channel Residual current on 0 signal per channel Max. output voltage Residual current on 0 signal per channel Max. output voltage Non-circuit protection Short-circuit trurptaction Short-circuit trurptaction Short-circuit trurptaction Total short-circuit current A 8 Geoup 1: 01 to 04 Coronibation within a group Number of outputs Max. Ufa 4 4 Ciccution! Outputs must be actuated simultaneously and for the same length	Cable length		m	≤ 30, screened
Rated operational voltage Permissible range Ue Ue Ue 24 20.4 - 28.8 V D C Residual ripple Supply current WA Norm/max. 9/16 at signal 0 12/22 at signal 1 12/22 at s				
Permissible range Residual ripple Supply current Norm./max. 9/16 at signal 0 1/2/22 at signal 1 1/2/22 st signal 1 1/2/22 st signal 1 1/2/22 st signal 0 1/2/22 st				
Residual ripple Supply current Max Norm/max. 9/16 at signal 0 12/22 at signal 1 Protection against polarity reversal Potential isolation Potential isolation Potential isolation From power supply: yes From the inputs: yes to the interface: yes to the memory card: yes Rated operational current at signal _1" DC per channel Max. output voltage Q	Rated operational voltage	U _e	V DC	24
Supply current Protection against polarity reversal Protection against polarity reversal Potential isolation Residual current at signal "1" DC per channel Max. output voltage Q	Permissible range	U _e		20.4 - 28.8 V DC
Protection against polarity reversal Protection against polarity reversal Protection against polarity reversal Potential isolation Potential isolation Potential isolation Residual current at signal _1" DC per channel Residual current on 0 signal per channel Max. output voltage Residual current on 0 signal per channel Max. output voltage Potential isolation Possible per channel Max. output voltage Potential isolation Potential isolation in it the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.) Potential the supply voltage is connected to the wrong poles.} Potential the supply voltage is connected to the wrong poles.} Potential the supply voltage is connected to the wrong poles.} Potential the supply voltage is connected to the wrong poles.} Potential interface vest to the interface vest to the interface vest to the memory card: vest to the interface vest to the memory card: vest to the interface vest to the memory card: vest to the interface vest to the memory card: vest to the interface vest to the memory card: vest to the interface vest to the memory card: vest to the interface vest to the interface vest to the interface vest to the in	Residual ripple		%	5
Potential isolation Potential isolation Rated operational current at signal "1" DC per channel Residual current on 0 signal per channel Max. output voltage V 2.5 (signal 0 at external load < 10 MΩ) V = V = V + V (signal 1 at I = 0.5 A) Short-circuit protection Short-circuit tripping current for R ₀ ≤ 10 mΩ A 0.7 ≤ I = 2 per output Total short-circuit current A 8 Peak short-circuit current A 16 Thermal cutout Max. operating frequency with constant resistive load With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length			mA	12/22 at signal 1
From the inputs; yes to the interface; yes to the interface; yes to the interface; yes to the memory card; yes Rated operational current at signal "1" DC per channel Residual current on 0 signal per channel Max. output voltage Nax. output voltage Nax. output voltage Nort-circuit protection Short-circuit protection Short-circuit tripping current for R ₀ ≤ 10 m0 Total short-circuit tripping current A 8 Peak short-circuit current Thermal cutout Max. operating frequency with constant resistive load Negretating frequency with constant resistive load Nort-circuit, combination within a group Number of outputs Max. total current Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length max. A 2 (Caution! Outputs must be actuated simultaneously and for the same length				event that the supply voltage is connected to the wrong poles.)
Residual current on 0 signal per channel Max. output voltage V 2.5 (signal 0 at external load < 10 MΩ) $U = U_e - 1 V (signal 1 at I_e = 0.5 A)$ Short-circuit protection Yes, thermal (analysis via diagnostics input I16, I15; R15, R16) A 0.7 ≤ I_e ≤ 2 per output Total short-circuit current A 8 Peak short-circuit current A 16 Thermal cutout Max. operating frequency with constant resistive load Max. operating frequency with constant resistive load With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current Max. total current Max. otal current Max. otal current Max. otal current A 2 (Caution! Outputs must be actuated simultaneously and for the same length	Potential Isolation			From the inputs: yes to the interface: yes
Max. output voltage $V = 2.5 \ (signal \ 0 \ at external \ load < 10 \ M\Omega) \\ U = U_e - 1 \ V \ (signal \ 1 \ at \ l_e = 0.5 \ A)$ Short-circuit protection $Yes, thermal \ (analysis \ via \ diagnostics \ input \ l16, \ l15; \ R15, \ R16)$ $A = 0.7 \le l_e \le 2 \ per \ output$ Total short-circuit current $A = 8$ $Peak \ short-circuit \ current$ $A = 16$ $Thermal \ cutout$ $Max. \ operating \ frequency \ with \ constant \ resistive \ load$ $Max. \ operating \ frequency \ with \ constant \ resistive \ load$ $Max. \ operating \ frequency \ with \ external \ suppressor \ circuit, \ combination \ within \ a \ group$ $Number \ of \ outputs$ $Max. \ total \ current$ $A = 2 \ (Caution! \ Outputs \ must \ be \ actuated \ simultaneously \ and \ for \ the \ same \ length$	Rated operational current at signal "1" DC per channel	l _e	Α	Max. 0.5
Short-circuit protection Short-circuit tripping current for $R_a \le 10 \text{ m}\Omega$ Total short-circuit current A 8 Peak short-circuit current A 16 Thermal cutout Max. operating frequency with constant resistive load With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current Max. total current A 10 Croup 1: Ω 1 to Ω 4 Claution! Outputs must be actuated simultaneously and for the same length	Residual current on 0 signal per channel		mA	< 0.1
Short-circuit tripping current for $R_a \le 10 \text{ m}\Omega$ A $0.7 \le I_e \le 2 \text{ per output}$ Total short-circuit current A 8 Peak short-circuit current A 16 Thermal cutout Yes Max. operating frequency with constant resistive load Operation \$0000 h Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current A $0.7 \le I_e \le 2 \text{ per output}$ Geometricuit current A $0.7 \le I_e \le 2 \text{ per output}$	Max. output voltage		V	
Total short-circuit current A 8 Peak short-circuit current A 16 Thermal cutout Max. operating frequency with constant resistive load Operation \$40000 h Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length	Short-circuit protection			Yes, thermal (analysis via diagnostics input 116, 115; R15, R16)
Peak short-circuit current Thermal cutout Max. operating frequency with constant resistive load Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length	Short-circuit tripping current for $R_a \leqq 10 \text{ m}\Omega$		Α	$0.7 \le I_e \le 2$ per output
Thermal cutout Max. operating frequency with constant resistive load Operation \$40000 h Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current Yes Operation \$40000 h Group 1: Q1 to Q4 4 4 A 2 (Caution! Outputs must be actuated simultaneously and for the same length	Total short-circuit current		Α	8
Max. operating frequency with constant resistive load Operation \$0000 h Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current Operation \$0000 h Group 1: Q1 to Q4 4 4 A 2 (Caution! Outputs must be actuated simultaneously and for the same length			Α	16
Parallel connection of outputs With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length				Yes
With resistive load, inductive load with external suppressor circuit, combination within a group Number of outputs Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length				n\$0000
combination within a group Number of outputs max. 4 Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length				Court 1 014 - 04
Max. total current A 2 (Caution! Outputs must be actuated simultaneously and for the same length	combination within a group	may		
		IIIdX.	۸	
			А	time.)
Output status indication LCD-display				ren-nishigh
Inductive load to EN 60947-5-1	IIIUUGUVE IUAU IU EIV 00347-3-1			

Without external suppressor circuit		
$T_{0.95} = 1 \text{ ms}$, R = 48 Ω , L = 16 mH		
Utilization factor	g	0.25
Duty factor	% DF	100
Max. switching frequency f = 0.5 Hz (max. DF = 50 %)	Operat	ion4500
DC-13, $T_{0.95} = 72 \text{ ms}$, $R = 48 \Omega$, $L = 1.15 \text{ H}$		
Utilization factor	g	0.25
Duty factor	% DF	100
Max. switching frequency f = 0.5 Hz (max. DF = 50 %)	Operat	ion4500
$T_{0.95}$ = 15 ms, R = 48 Ω , L = 0.24 H		
Utilization factor	g	0.25
Duty factor	% DF	100
Max. switching frequency f = 0.5 Hz (max. DF = 50 %)	Operat	ion4500
With external suppressor circuit		
Utilization factor	g	1
Duty factor	% DF	100
Max. switching frequency, max. duty factor	Operat	ion\$Depending on the suppressor circuit

Supply voltage U_{Aux}

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.)
Power loss	P	W	2

Design verification as per IEC/EN 61439

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	2
Heat dissipation capacity	P _{diss}	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.
10.2.3.3 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.

Technical data ETIM 6.0

PLC's (EG000024) / Logic module (EC001417)		
Electric engineering, automation, process control engineering / Control / Programn	nable logic control (SI	PS) / Logic module (ecl@ss8.1-27-24-22-16 [AKE539011])
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type of supply voltage		DC
Switching current	А	0.5
Number of analogue inputs		2
Number of analogue outputs		0
Number of digital inputs		8
Number of digital outputs		4
With relay output		No
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		Yes
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	mm	71.5
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" 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/DOCUMENTATION/AWB_MANUALS/MN05013003Z_EN.pdf		
f1=1454&f2=1179;Labeleditor	http://applications.eaton.eu/sdlc?LX=11&		