DATASHEET - EASY-E4-AC-16RE1



I/O expansion, For use with easyE4, 100 - 240 V AC, 110 - 220 V DC (cULus: 100-110 V DC), Inputs expansion (number) digital: 8, screw terminal



Part no. EASY-E4-AC-16RE1 Catalog No. 197222

EL-Nummer

4500560

(Norway)

Delivery program	
Product range	Control relays easyE4
Subrange	easyE4 digital input/output enhancements
Basic function	easyE4 extensions
Description	Input/output extension for easyE4 control relay Expandable with the easyE4 series of digital input/output expansions with easy-E4- CONNECT1 connector (Item Y7-197225) Rated operating voltage 100 to 240V AC or 100 to 240V DC Digital inputs: 8 Digital outputs: 8 relays Screw terminals
Inputs	
Inputs expansion (number)	digital: 8
Additional features	
Display	with diagnostic LED
Software	EASYSOFT-SWLIC/easySoft 7
Supply voltage	100 - 240 V AC, 100 - 240 V DC (cULus: 100 - 110 V DC)
For use with	easyE4

Technical data

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Standards		EN 61000-6-2 EN 61000-6-3 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-30 IEC/EN 61131-2 EN 61010 EN 50178
Approvals		
Approvals		cULus
certificate		CE
shipping classification		DNV GL
		DNV·GL
Dimensions (W x H x D)	mm	71.5 x 90 x 58
Weight	kg	0.232
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Connection type		screw terminal
The state of the s		

Terminal capacities

Screw terminals		
Solid	mm^2	0.2 - 4
flexible	mm^2	0.2 - 2.5
Solid or flexible conductor, with ferrule	mm^2	0,2 - 2,5
Solid or stranded	AWG	22 - 12
Standard screwdriver	mm	0.8 x 3.5
Tightening torque	Nm	0.5 - 0.7
Stripping length	mm	6.5

Climatic environmental conditions

Operating ambient temperature	°C	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2
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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		4	186
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations		Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			III/2
Electrostatic discharge (ESD)			
applied standard			nach IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	0.08 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 61000-6-3 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 1 kV (supply cables, symmetrical) 2 kV (supply cables, asymmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
Clearance in air and creepage distances			nach EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Insulation resistance			in accordance with EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Power supply			
Rated operational voltage	U _e	V	100 - 240V DC (-15/+10%) 100 - 240 DC (cULus: 100 -110 DC) (-15/+10%)
Permissible range	U _e		85 - 264 V AC 85 - 264 V DC (cULus: 85 - 120 V DC)
Residual ripple		%	≦5
Protection against polarity reversal			yes
Frequency		Hz	50/60 (± 5%)
Voltage dips		ms	≤ 20 ms at 100V AC 10 ms at 100V DC
Fuse		Α	≧ 1A (T)
Power loss	Р	W	Normally 11
Digital inputs 115/230 V AC			
Number			8
Potential isolation			from power supply: no between inputs: no from the outputs: yes to the base unit: yes to the expansion units: yes
Rated operational voltage	U _e	V	100 - 240 V AC 100 - 240 V DC (cULus: 100 - 110 V DC)
Input voltage	U _e	V	Condition 0: 0 - 40V AC/DC Condition 1: 79–264 V AC/DC (cULus: 79–264 V AC/79–120 V DC)
Rated frequency		Hz	50/60
Input current at signal 1		mA	11 - 18: 8 x 0.25 (at 115V AC, 60 Hz) 11 - 18: 8 x 0.5 (at 230V AC, 50 Hz) 11 - 18: 8 x 0.25 (at 115V DC) 11 - 18: 8 x 0.5 (at 230V DC)
Deceleration time		ms	type 3932 (0 - > 1/1 -> 0, 50/60Hz) in AC type 0.5 (0 - > 1/1 -> 0) in DC
Cable length		m	40 (unshielded)

Relay outputs

Number Operation and protected 5 Parallel switching of codes for increased output. Not permitted and an output only increased output. Not permitted and an output only increased output. See increased output. S	Relay outputs			
Parallet exvicting of colupted for increased acquet Protection of an anglar relay In this circuit branker or 8 A TI fuse Potential addition No. 8 A TI fuse Sale includion control (10 Ma) (10	Number			8
Protection of an output relay Sees in inclusions according to PN 0719-20V AC Sees in inclusions according to PN 0719-20V AC Sees in inclusions according to PN 0719-20V AC Sees in inclusions above AC Sees in inclusions according to PN 0719-20V AC Sees in inclusions according to PN 0719-20V AC AC Sees in inclusions according to PN 0719-20V AC AC Sees in inclusions according to PN 0719-20V AC AC Sees in inclusions according to PN 0719-20V AC	Outputs in groups of			1
Potential Isolation	Parallel switching of outputs for increased output			Not permitted
Basic solutions (200 N	Protection of an output relay			B16 circuit breaker or 8 A (T) fuse
Conventional thermal current (19 A UL)	Potential isolation			Basic isolation: 600 V AC from power supply: yes From the inputs: yes between outputs: yes
Recommended for load: 12 V AC/DC Rated impulse withstand voltage U _{mp} of centact coal VV E Rated operational voltage U _m V AC 240	Contacts			
Retated impulses withstand voltage Ump, of contact coil kV 6 Retated impulses withstand voltage Up, VAC 240 Rated impulses withstand voltage Up, VAC 240 Safe issoliation voltage Up, VAC 240 Making capacity 300 between coil and contacts AC—15, 260 VAC, 3 A (800 ops./h) Operations 300000 DC-13, L/R ≤ 150 ms, 24 V DC, 1 A (500 S/h) Operations 300000 Breaking capacity 300000 300000 AC-15, 250 VAC, 3 A (600 ops./h) Operations 300000 DC-13, L/R ≤ 150 ms, 24 V DC, 1 A (500 S/h) Operations 25000 1000 V at 230/240 V AC Operations 25000 Pluorescent lamp load Operations 25000 Pluorescent lamp load 10 x 58 W at 230/240 V AC Operations 25000 Pluorescent lamp load 11 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Pluorescent lamp load 12 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Switching frequency Resistive load/lamp load Hz 10 Machanical loperations	Conventional thermal current (10 A UL)		Α	5
Rated insulation voltage Rated insulation voltage Rated insulation voltage 24 VAC 25 VAC 26 Safe isolation according to EN 50178 Making capacity AC 1-52, 260 VAC, 3 A (800 ops_th) CDC-13, UR\$ 150 ms, 24 V DC, 1 A (500 Sh) CDC-14, UR\$ 150 ms, 24 V DC, 1 A (500 Sh) CDC-15, UR\$ 250 V AC CDC-15, UR\$	Recommended for load: 12 V AC/DC		mA	> 500
Rated insulation voltage Up VAC 240 Safe isolation according to EN 50178 VAC 300 between coll and connect 300 between two contacts Making capacity Control (Fig. 500 VAC), 3 (800 ops./h) Operations 3000000 Breaking capacity Control (Fig. 150 ms, 24 V DC, 1 A (800 Sh/h) Operations 3000000 Breaking capacity Oct. 13, L/M ≤ 150 ms, 24 V DC, 1 A (800 Sh/h) Operations 3000000 Broading capacity Oct. 13, L/M ≤ 150 ms, 24 V DC, 1 A (800 Sh/h) Operations 3000000 Broading capacity Operations 2000000 Intermet bulb load Operations 2000000 100 W at 230,240 V AC Operations 200000 Fluorescent lamp load to x 58 W at 230,240 V AC Operations 200000 With upstram elactrical device Operations 200000 Switching frequency AC 200000 Machanical operations X 10 ² 10 Switching frequency X 10 ² 10 10 Resistive load/arm to at 240 V AC X 10 ² 10 10 Uninterrupted current	Rated impulse with stand voltage \mathbf{U}_{imp} of contact coil		kV	6
Safe isolation according to EN 50178 V AC 300 between coil and contact Making capacity AC −15, 250 V AC, 3 x (800 ops./h) Operations 200000 DC-13, L/R ≤ 150 ms, 24 V DC, 1 x (500 S/h) Operations 200000 Breeking capacity 3000000 DC-13, L/R ≤ 150 ms, 24 V DC, 1 x (500 S/h) Operations 200000 DC-13, L/R ≤ 150 ms, 24 V DC, 1 x (500 S/h) Operations 200000 Fluorescent Long load Operations 25000 Fluorescent lamp load Thorsescent Lamp load 25000 Fluorescent lamp load 1 x 58 W at 230/240 V AC Operations 25000 Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Phorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Switching frequency Msc Long Long Long Long Long Long Long Long	Rated operational voltage	Ue	V AC	240
Making capacity Making cap	Rated insulation voltage	Ui	V AC	240
AC-15, 250 V AC, 3 A (800 ops./h)	Safe isolation according to EN 50178		V AC	
DC-13 L/R ≤ 150 ms, 24 V DC, 1 A (500 S/h)	Making capacity			
Breaking capacity AC-15, 250 V AC, 3 A (500 Ops./h) Operations 300000 DC-13, UR ± 150 ms, 24 V DC, 1 A (500 S/h) Operations 200000 Filament bulb load 25000 25000 500 W at 115/120 V AC Operations 25000 Fluorescent lamp load 10 x 58 W at 230/240 V AC Operations 25000 Pluorescent lamp load 10 x 58 W at 230/240 V AC Operations 25000 Pluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Pluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Switching frequency Mc 16 10 10 Mehanical operations x 10 6 10 10 Switching frequency Hz 10 10 Resistive load/lamp load Hz 25 10 Inductive load Hz 10 5 ULICSA Uninterrupted current at 240 V AC A 5 Uninterrupted current at 240 V AC A 5 Uninterrupted current at 240 V AC A 5	AC15, 250 V AC, 3 A (600 ops./h)	Operations		300000
AC-15, 250 V AC, 3 A (500 Ops./h) DC-13 LR ≤ 150 ms, 24 V DC, 1 A (500 S/h) DC-13 LR ≤ 150 ms, 24 V DC, 1 A (500 S/h) DOW at 230/240 V AC DOPERATIONS DOW at 115/120 V AC DOPERATIONS 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 Uncompensated Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Switching frequency Mechanical operations Switching frequency Resistive load/lamp load UUCSA UUCSA UUInterrupted current at 240 V AC Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC Control Circuit Rating Codes (utilization category) Max. rated operationsl voltage max. thermal continuous current cos φ = 1 at B 300 max. make/break cos φ ≠ capacity 1 at B 300 DC Control Circuit Rating Codes (utilization category) Max. rated operational voltage Note the properational voltage Note the properation	DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
DC-13, LR ≤ 150 ms, 24 V DC, 1 A (500 S/h) Operations 200000 Filament bulb load 250000 500 W at 230/240 V AC Operations 250000 500 W at 115/120 V AC Operations 250000 Fluorescent lamp load 10 x 58 W at 230/240 V AC Operations 25000 Pluorescent lamp load 10 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Operations 25000 Switching frequency X 10 ⁶ 10 Mechanical operations X 10 ⁶ 10 Switching frequency Hz 10 Resistive load/lamp load Hz 10 Inductive load Hz 10 UUCISA Juinterrupted current at 240 V AC A 5 Uninterrupted current at 240 V AC A 5 AC AC B 5 Uninterrupted current at 240 V AC A 5 Max. rated operational voltage A 5 max. thormal continuous current cos φ = 1 at B 300 A 5 <td>Breaking capacity</td> <td></td> <td></td> <td></td>	Breaking capacity			
Filament bulb load 1000 W at 230/240 V AC 500 W at 115/120 V AC Filorescent lamp load Filorescent lamp load 1 x 58 W at 230/240 V AC With upstream electrical device Uncompensated Uncompensated Uncompensated Filorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Pluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Pluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Pluorescent 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 UL/CSA Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC AC Control Circuit Rating Codes (utilization category) Max rated operational voltage max. thermal continuous current cos φ = 1 at 8 300 max. make/break cos φ ≠ capacity 1 at 8 300 DC Control Circuit Rating Codes (utilization category) Max rated operational voltage Max rated operational voltage NA Rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty Max rated operational voltage Rate 300 Light Pilot Duty	AC-15, 250 V AC, 3 A (600 Ops./h)	Operations		300000
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 Operations Fluorescent lamp load 1 x 58 W at 230/240 V AC Operations Operations 25000 Switching frequency Mechanical operations Switching frequency Mechanical operations Switching frequency Resistive load/lamp load Inductive load ULI/CSA ULI/CSA Uninterrupted current at 240 V AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage max. thermal continuous current cos φ = 1 at B 300 DC Control Circuit Rating Codes (utilization category) Max. rated operational voltage Control Circuit Rating Codes (utilization category) Max. rated operational voltage Control Circuit Rating Codes (utilization category) Max. rated operational voltage Control Circuit Rating Codes (utilization category) Ray Max. rated operational voltage Ray Control Circuit Rating Codes (utilization category) A S Control Circuit Rating Codes (utilization category) Ray Max. rated operational voltage Ray Control Circuit Rating Codes (utilization category) Ray Ray Ray Ray Ray Ray Ray R	DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
Fluorescent lamp load Fluorescent lamp load 10 x 58 W at 230/240 V AC With upstream electrical device	Filament bulb load			
Fluorescent lamp load Fluorescent lamp load 10 x 58 W at 230/240 V AC With upstream electrical device Uncompensated Uncompensa	1000 W at 230/240 V AC	Operations		25000
Fluorescent lamp load 10 x 58 W at 230/240 V AC With upstream electrical device Uncompensated Operations Opera	500 W at 115/120 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 Wechanical operations 10 Switching frequency Hz 10 Resistive load/lamp load Hz 2 Inductive load Hz 2.5 UL/CSA Hz 5.5 Uninterrupted current at 240 V AC A 5 AC A 5 Uninterrupted current at 24 V DC A 5 AC AC B 300 Light Pilot Duty Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/380 DC Control Circuit Rating Codes (utilization category) R 300 Light Pilot Duty Max. rated operational voltage V DC 300 300 Max. rated operational voltage A 5 300	Fluorescent lamp load			
Uncompensated Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Switching frequency Mechanical operations Switching frequency Resistive load/lamp load Inductive load Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage DC Control Circuit Rating Codes (utilization category) Max. rated operational voltage A 1 A 2 B 300 Light Pilot Duty R 300 Light Pilot Duty Max. rated operational voltage A 1 A 3 B 300 Light Pilot Duty	Fluorescent lamp load 10 x 58 W at 230/240 V AC			
Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated Switching frequency Mechanical operations Switching frequency Resistive load/lamp load Inductive load Ut/CSA Uninterrupted current at 240 V AC Uninterrupted current at 240 V AC AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage max. make/break cos φ ≠ capacity 1 at B 300 DC Control Circuit Rating Codes (utilization category) Max. rated operational voltage Control Circuit Rating Codes (utilization category) AC Control Circuit Rating Codes (utilization category) AC Control Circuit Rating Codes (utilization category) AC B 300 Light Pilot Duty Control Circuit Rating Codes (utilization category) AC AC Control Circuit Rating Codes (utilization category) AC Control Circuit Rating Codes (utilization category) AC AC AC AC CONTROL CIRCUIT Rating Codes (utilization category) AC AC AC AC AC BROU Light Pilot Duty AC CONTROL CIRCUIT Rating Codes (utilization category) AC AC AC AC AC AC AC BROU Light Pilot Duty AC AC AC AC AC AC AC AC AC A	With upstream electrical device	Operations		25000
Switching frequency x 106 10 Switching frequency Hz 10 Resistive load/lamp load Hz 2 Inductive load Hz 0.5 UL/CSA A 5 Uninterrupted current at 240 V AC A 5 AC Control Circuit Rating Codes (utilization category) B 300 Light Pilot Duty Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 DC A 5 Control Circuit Rating Codes (utilization category) A 5 Max. rated operational voltage V AC 3000/380 DC Control Circuit Rating Codes (utilization category) R 300 Light Pilot Duty Max. rated operational voltage V DC 300 Max. rated operational voltage V DC 300 Max. rated operational voltage V DC 300 Max. thermal uninterrupted current at R 300 A 1	Uncompensated	Operations		25000
Mechanical operationsx 10610Switching frequencyHz10Resistive load/lamp loadHz2Inductive loadHz0.5UL/CSAUninterrupted current at 240 V ACA5Uninterrupted current at 24 V DCA5ACControl Circuit Rating Codes (utilization category)B 300 Light Pilot DutyMax. rated operational voltageV AC300max. thermal continuous current cos φ = 1 at B 300A5DCVA3600/360Control Circuit Rating Codes (utilization category)R 300 Light Pilot DutyMax. rated operational voltageV A3600/360DCR 300 Light Pilot DutyMax. rated operational voltageV DC300Max. rated operational voltageV DC300Max. thermal uninterrupted current at R 300A1	Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated	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 AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage Max. make/break cos φ ≠ capacity 1 at B 300 Control Circuit Rating Codes (utilization category) Control Circuit Rating Codes (utilization category) A 5 B 300 Light Pilot Duty VAC 300 A 5 Control Circuit Rating Codes (utilization category) A 5 Control Circuit Rating Codes (utilization category) A 7 A 8 A 9 B 300 Light Pilot Duty VA 3600/360 DC Control Circuit Rating Codes (utilization category) A 7 A 9 A 9 A 1 A 1	Switching frequency			
Resistive load/lamp load Inductive load Hz 0.5 UI/CSA Uninterrupted current at 240 V AC A 5 Uninterrupted current at 24 V DC AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage max. thermal continuous current cos φ = 1 at B 300 max. thermal continuous current cos φ ≠ capacity 1 at B 300 Control Circuit Rating Codes (utilization category) R 300 A 5 Control Circuit Rating Codes (utilization category) A 5 A 5 A 5 A 6 B 300 A 5 B 300 B Control Circuit Rating Codes (utilization category) A B 300 Light Pilot Duty A 3600/360 DC Control Circuit Rating Codes (utilization category) A A A A A A A A A A A A A	Mechanical operations		x 10 ⁶	10
Inductive loadHz0.5UL/CSAUninterrupted current at 240 V ACA5Uninterrupted current at 24 V DCA5ACControl Circuit Rating Codes (utilization category)B 300 Light Pilot DutyMax. rated operational voltageV AC300max. thermal continuous current cos φ = 1 at B 300A5max. make/break cos φ ≠ capacity 1 at B 300VA3600/360DCControl Circuit Rating Codes (utilization category)R 300 Light Pilot DutyMax. rated operational voltageV DC300Max. thermal uninterrupted current at R 300A1	Switching frequency		Hz	10
UL/CSA Uninterrupted current at 240 V AC Uninterrupted current at 24 V DC AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage v AC max. thermal continuous current cos φ = 1 at B 300 max. thermal continuous current cos φ = 1 at B 300 The max. make/break cos φ ≠ capacity 1 at B 300 Control Circuit Rating Codes (utilization category) Control Circuit Rating Codes (utilization category) Max. rated operational voltage V DC Max. rated operational voltage V DC Max. rated operational voltage A 1	Resistive load/lamp load		Hz	2
Uninterrupted current at 240 V AC A 5 Uninterrupted current at 24 V DC A 5 AC B 300 Light Pilot Duty Control Circuit Rating Codes (utilization category) V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/360 DC R 300 Light Pilot Duty 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 A 1	Inductive load		Hz	0.5
Uninterrupted current at 24 V DC A 5 AC B 300 Light Pilot Duty Control Circuit Rating Codes (utilization category) B 300 Light Pilot Duty Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/360 DC R 300 Light Pilot Duty Max. rated operational voltage V DC 300 Max. thermal uninterrupted current at R 300 A 1	UL/CSA			
AC Control Circuit Rating Codes (utilization category) Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/360 Control Circuit Rating Codes (utilization category) Max. rated operational voltage V DC 300 Max. thermal uninterrupted current at R 300 A 1	Uninterrupted current at 240 V AC		Α	5
Control Circuit Rating Codes (utilization category) B 300 Light Pilot Duty Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/360 DC R 300 Light Pilot Duty Max. rated operational voltage V DC 300 Max. thermal uninterrupted current at R 300 A 1	Uninterrupted current at 24 V DC		Α	5
Max. rated operational voltage V AC 300 max. thermal continuous current cos φ = 1 at B 300 A 5 max. make/break cos φ ≠ capacity 1 at B 300 VA 3600/360 DC R 300 Light Pilot Duty 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 A 1	AC			
max. thermal continuous current cos φ = 1 at B 300 max. make/break cos φ ≠ capacity 1 at B 300 Control Circuit Rating Codes (utilization category) Max. rated operational voltage VDC Max. thermal uninterrupted current at R 300 A 1	Control Circuit Rating Codes (utilization category)			B 300 Light Pilot Duty
max. make/break cos φ ≠ capacity 1 at B 300 DC Control Circuit Rating Codes (utilization category) Max. rated operational voltage Va 3600/360 R 300 Light Pilot Duty V DC 300 Max. thermal uninterrupted current at R 300 A 1	Max. rated operational voltage		V AC	300
Control Circuit Rating Codes (utilization category) Max. rated operational voltage V DC Max. thermal uninterrupted current at R 300 A 1	max. thermal continuous current cos ϕ = 1 at B 300		Α	5
Control Circuit Rating Codes (utilization category) Max. rated operational voltage V DC Max. thermal uninterrupted current at R 300 A 1	max. make/break $\cos \phi \neq \text{capacity 1 at B 300}$		VA	3600/360
Max. rated operational voltage V DC 300 Max. thermal uninterrupted current at R 300 A 1	DC			
Max. thermal uninterrupted current at R 300 A 1	Control Circuit Rating Codes (utilization category)			R 300 Light Pilot Duty
	Max. rated operational voltage		V DC	300
Max. make/break capacity at R 300 VA 28/28	Max. thermal uninterrupted current at R 300		Α	1
	Max. make/break capacity at R 300		VA	28/28

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P_{vs}	W	11
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 7.0

IGGIIIIGAI UALA ETTIVI 7.0		
PLC's (EG000024) / Logic module (EC001417)		
Electric engineering, automation, process control engineering / Control / Programm	nable logic control (SF	PS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])
Supply voltage AC 50 Hz	V	85 - 264
Supply voltage AC 60 Hz	V	85 - 264
Supply voltage DC	V	85 - 264
Voltage type of supply voltage		AC/DC
Switching current	Α	5
Number of analogue inputs		0
Number of analogue outputs		0
Number of digital inputs		8
Number of digital outputs		8
With relay output		Yes
Number of HW-interfaces industrial Ethernet		0
Number of 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		2
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

Suggesting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for SUSONET Supporting purcose for SUSONET Supporting purcose for SUSONET Supporting purcose for SUSONET Supporting purcose for PROFINET CO Supporting purcose for Provinciation Feldous Supporting purcose for PROFINET CO Supporting purcose for	Supporting protocol for ASI		No
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Width mm 71.5 Height 90	Explosion safety category for gas		None
Height 90	Explosion safety category for dust		None
	Width	mm	71.5
Depth mm 58	Height	mm	90
	Depth	mm	58

Approvals

UL File No.	E205091
UL Category Control No.	NRAQ/7
North America Certification	UL listed
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions

