

Eaton 197515

Eaton Moeller® series EASY I/O expansion, For use with easyE4, 100 - 240 V AC, 110 - 220 V DC (cULus: 100-110 V DC), Inputs/Outputs expansion (number) digital: 8, Push-In

PRODUCT NAME	Eaton Moeller® series EASY I/O expansion
CATALOG NUMBER	197515
PRODUCT LENGTH/DEPTH	58 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	0.25 kg
CERTIFICATIONS	UL Listed UL Category Control No.: NRAQ, NRAQ7 IEC/EN 61000-4-2 IEC/EN 61131-2 IEC 60068-2-6 IEC 60068-2-30 IEC 60068-2-27 EN 61010 IEC/EN 61000-6-3 IEC/EN 61000-6-2 EN 50178 UL File No.: E205091 DNV GL CE



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USED WITH	easyE4
ТҮРЕ	easyE4 extension
AIR DISCHARGE	8 kV
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	ls the panel builder's responsibility.
10.12 ELECTROMAGNETIC COMPATIBILITY	ls the panel builder's responsibility.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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.

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DECLARATIONS OF CONFORMITY	eaton-control-relay- declaration-of-conformity- uk251131en.pdf
INSTALLATION VIDEOS	Video easy E4 control relay
00	eaton-modular-plc-easy-i- o-expansion-dimensions- 003.eps
	eaton-modular-plc-easy-i- o-expansion-3d- drawing.eps

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Relay output
POLLUTION DEGREE	2
BURST IMPULSE	2 kV, Signal cable 2 kV, Supply cable According to IEC/EN 61000-4-4
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6 kV (contact-coil)
UTILIZATION CATEGORY	B 300 Light Pilot Duty, UL/CSA Control Circuit Rating Codes AC R 300 Light Pilot Duty, UL/CSA Control Circuit Rating Codes DC
AIR PRESSURE	795 - 1080 hPa (operation)
EXPLOSION SAFETY CATEGORY FOR DUST	None
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures Clearance in air and creepage distances according to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
EXPLOSION SAFETY CATEGORY FOR GAS	None
MOUNTING METHOD	Rail mounting possible
VOLTAGE TYPE	AC
MOUNTING POSITION	Horizontal Vertical

	> 500 mA (Relay outputs, Recommended for load: 12 V AC/DC) Current 8 Relay Outputs
CONTACT DISCHARGE	6 kV
BASE TYPE	No
SAFETY PERFORMANCE	
LEVEL (EN ISO 13849-1)	None
SIL (IEC 61508)	None
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	5 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0 W
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
NUMBER OF HW- INTERFACES (INDUSTRIAL ETHERNET)	0
NUMBER OF HW- INTERFACES (OTHER)	0
NUMBER OF HW- INTERFACES (PARALLEL)	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 (WIRELESS)	0

OVERVOLTAGE CATEGORY	Ш
SOFTWARE	EASYSOFT-SWLIC/easySoft
SURGE RATING	1 kV, Supply cables, symmetrical, power pulses (Surge), EMC 2 kV, Supply cables, asymmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5 Level 4
CABLE LENGTH	40 m (max. permissible per input R1 to R12), Digital inputs 115/230 V AC
ELECTROMAGNETIC FIELDS	1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
PROTECTION AGAINST POLARITY REVERSAL	Yes
NUMBER OF INPUTS (ANALOG)	0
CONNECTION TYPE	Push in terminals
DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
IMMUNITY TO LINE- CONDUCTED INTERFERENCE	10 V (according to IEC/EN 61000-4-6)
RADIO INTERFERENCE CLASS	Class B (EN 61000-6-3)
NUMBER OF OUTPUTS (DIGITAL)	8
RELATIVE HUMIDITY	5 - 95 % (IEC 60068-2-30, IEC 60068-2-78)
DEGREE OF PROTECTION	IP20
SAFE ISOLATION	300 V AC, Between coil and contact, According to EN 50178 300 V AC, Between two contacts, According to EN 50178
DELAY TIME	39 ms typ., Digital Inputs 100 - 240 V AC 50 Hz (I1 - I8), Delay time from 1 to 0, Debounce OFF 32 ms typ., Digital Inputs 100 - 240 V AC 60 Hz (I1 - I8), Delay time from 1 to 0,

	Debounce OFF 80 ms, Digital inputs 115/230 V AC 50 Hz (I7, I8), Delay time from 0 to 1, Debounce ON 0.5 ms typ., Digital Inputs 100 - 240 V DC (I1 - I8), Delay time from 1 to 0, Debounce OFF 39 ms typ., Digital Inputs 100 - 240 V AC 50 Hz (I1 - I8), Delay time from 0 to 1, Debounce OFF 32 ms typ., Digital Inputs 100 - 240 V AC 60 Hz (I1 - I8), Delay time from 0 to 1, Debounce OFF 0.5 ms typ., Digital Inputs 100 - 240 V DC (I1 - I8), Delay time from 0 to 1, Debounce OFF
PROTOCOL	MODBUS TCP/IP
RESIDUAL RIPPLE	5 % (transistor outputs) ≤ 5 %
SUPPLY FREQUENCY	50/60 Hz (± 5%)
INSULATION RESISTANCE	According to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
VIBRATION RESISTANCE	57 - 150 Hz, 2 g constant acceleration 10 - 57 Hz, 0.15 mm constant amplitude According to IEC/EN 60068-2-6
INPUT CURRENT	6 x 0.5 mA (I1 - I8, at 230 V AC, 50 Hz, at signal 1) 6 x 0.25 mA (I1 - I8, at 115 V AC, 60 Hz, at signal 1)
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 11 ms, 18 Impacts
INPUT FREQUENCY	50/60 Hz (Digital inputs, at 115/230 V AC) 50/60 Hz (Digital inputs, at 24 V DC)
INPUT VOLTAGE	Condition 1: 79 - 264 V AC, Digital inputs, 115/230 V AC) Condition 0: 0 - 40 V AC, Digital inputs, 115/230 V
	AC)

13, 24 V DC, 1 A (500 Ops./h) 300000 Operations at AC- 15, 250 V AC, 3 A (600 Ops./h)
25,000 Operations (Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated) 25,000 Operations (Fluorescent lamp load 10 x 58 W at 230/240 V AC, with upstream electrical device) 25,000 Operations (Fluorescent lamp load 10 x 58 W at 230/240 V AC, uncompensated) 25,000 Operations (Filament bulb load at 500 W, 115/120 V AC) 25,000 Operations (Filament bulb load at 1000 W, 230/240 V AC)
1,000,000 Operations
28/28 VA (DC, at R 300) 3600/360 VA (AC, at B 300)
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3600/360 VA (AC, at B 300) Not permitted Basic isolation: 600 V AC (Relay outputs) Between Analog inputs and Digital inputs: no Between Relay outputs:
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3600/360 VA (AC, at B 300) Not permitted Basic isolation: 600 V AC (Relay outputs) Between Analog inputs and Digital inputs: no Between Relay outputs: yes 8 10 ms 1 A DC, at R 300 (UL/CSA) 10 A AC, at 240 V AC (UL/CSA) 8 A DC, at 24 V DC (UL/CSA) 5 A AC, max. thermal continuous current cos ф = 1 at B 300 (UL/CSA)
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PVS	
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	264 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	85 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	264 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	85 VAC
SUPPLY VOLTAGE AT DC - MAX	264 VDC
SUPPLY VOLTAGE AT DC -	85 VDC
SWITCHING CURRENT	5 A
PRODUCT CATEGORY	Control relays easyE4
PROTECTION	B16 circuit breaker or 8 A (T) fuse, Protection of an Output relay
POWER CONSUMPTION	4 W
RATED OPERATIONAL VOLTAGE	Max. 300 V AC Max. 300 V DC 85 - 264 V AC 100/110/115/120/230/240 AC (-15 %/+10 %)
SHORT-CIRCUIT PROTECTION	≥ 1A (T), Fuse, Power supply
SWITCHING FREQUENCY	0.5 Hz, Inductive load, Relay outputs 10 Hz, Relay outputs 2 Hz, Resistive load/lamp load, Relay outputs
TERMINAL CAPACITY	0.2 - 2.5 mm² (22 - 12 AWG), flexible with ferrule

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
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information.





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