

Eaton 197511

Eaton Moeller® series EASY I/O expansion,
For use with easyE4, 12/24 V DC, 24 V AC,
Inputs/Outputs expansion (number) digital:
8, Push-In

PRODUCT NAME	Eaton Moeller® series EASY I/O expansion
CATALOG NUMBER	197511
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 UL hazardous location class I UL hazardous location division 2 UL hazardous location group A (acetylene) UL hazardous location group B (hydrogen) UL hazardous location group C (ethylene) UL hazardous location group D (propane) UL hazardous location class I UL hazardous location
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division 2

UL hazardous location
group A (acetylene)

UL hazardous location
group B (hydrogen)

UL hazardous location
group C (ethylene)

UL hazardous location
group D (propane)

USED WITH	easyE4
TYPE	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	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.
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.

INSTALLATION VIDEOS	Video easy E4 control relay
	eaton-modular-plc-easy-i-o-expansion-dimensions-003.eps
	eaton-general-easy-control-relays-symbol-002.tif
	eaton-modular-plc-easy-i-o-expansion-3d-drawing.eps

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.
10.9.2 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.
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 Wall mounting/direct

	mounting
VOLTAGE TYPE	AC/DC
MOUNTING POSITION	Horizontal Vertical
OUTPUT	Voltage Relay outputs in groups of 1 > 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	2 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	III
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. per input), Digital inputs 24 V DC 100 m, unscreened, Digital inputs 12 V DC 100 m, unscreened, Digital inputs 24 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	20 ms, Digital Inputs 12 V DC, Delay time from 1 to 0, Debounce ON 0.2 ms typ., Digital inputs 24 V DC (I1 - I8), Delay time from 1 to 0, Debounce OFF 20 ms, Digital Inputs 12 V DC, Delay time from 0 to 1, Debounce ON 0.2 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 1 to 0, Debounce OFF 0.15 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OFF 0.1 ms typ., Digital inputs 24 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	200 mA
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	Status 0: ≤ 15 V DC (I1 - I4, Digital inputs, 24 V DC) Signal 0: ≤ 5 V DC (I1 - I8, Digital inputs, 24 V DC)
RATED BREAKING CAPACITY	200000 Operations at DC-13, 24 V DC, 1 A (500 Ops./h) 300000 Operations at AC-15, 250 V AC, 3 A (600 Ops./h)
LIFESPAN, ELECTRICAL	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)
LIFESPAN, MECHANICAL	1,000,000 Operations
MAKING/BREAKING CAPACITY	28/28 VA (DC, at R 300) 3600/360 VA (AC, at B 300)
POTENTIAL ISOLATION	Basic isolation: 600 V AC (Relay outputs) Between Analog inputs and Digital inputs: no Between Relay outputs: yes
NUMBER OF INPUTS (DIGITAL)	8
VOLTAGE DIPS	≤ 1 ms from rated voltage (12 V DC) 10 ms
UNINTERRUPTED CURRENT	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 $\cos \phi$ = 1 at B 300 (UL/CSA)
NUMBER OF INTERFACES (PROFINET)	0
NUMBER OF OUTPUTS (ANALOG)	0
RATED INSULATION VOLTAGE (UI)	240 V
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	3 W
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	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	10.2 VDC
SWITCHING CURRENT	5 A
PRODUCT CATEGORY	Control relays easyE4
PROTECTION	Miniature circuit-breaker B16 or slow-blow 8 A fuse, Protection of an output relay
POWER CONSUMPTION	3 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	≥ 1 A (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 mm ² (22 - 12 AWG), flexible with ferrule

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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