

Eaton 197224

Eaton Moeller® series EASY I/O expansion,
For use with easyE4, 24 V DC, Inputs
expansion (number) analog: 4, screw
terminal EASY-E4-DC-4PE1

PRODUCT NAME	Eaton Moeller® series EASY I/O expansion
CATALOG NUMBER	197224
PRODUCT LENGTH/DEPTH	58 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.1 kg
CERTIFICATIONS	IEC/EN 61000-6-3 IEC 60068-2-30 CULus per UL 61010 IEC/EN 61131-2 IEC 60068-2-6 IEC 60068-2-27 IEC/EN 61000-6-2 EN 61010 EN 50178 CSA-C22.2 No. 61010 IEC 60664 IEC/EN 61000-4-2 UL Listed UL Category Control No.: NRAQ, NRAQ7 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
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)

TYPE	easyE4 extension
FEATURES	<p>Additional measurement aids: Filtering (software), smoothing of analog input signal (PT1 behavior), only with set sampling time, selectable per sensor: yes</p> <p>Expandable</p> <p>Expansion device</p> <p>Measuring principle: Two or three wire per sensor, selectable by connection of sensor</p>
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.

INSTALLATION VIDEOS	Video easy E4 control relay
	TT-197224_EASY-E4-DC-4PE1-de_DE
	eaton-modular-plc-easy-i-o-expansion-dimensions-002.eps
	eaton-modular-plc-easy-i-o-expansion-3d-drawing-002.eps

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.
10.9.2 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.
POLLUTION DEGREE	2
BURST IMPULSE	2 kV, Signal cable According to IEC/EN 61000-4-4 2 kV, Supply cable
AIR PRESSURE	795 - 1080 hPa (operation)
CATEGORY (EN 954-1)	None
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
INPUT	Input type resistance sensor: Platinum sensor Pt100 (according to DIN

	EN 60751, IEC 751) Input type resistance sensor: Nickel sensor Ni1000 (according to DIN 43760)
EXPLOSION SAFETY CATEGORY FOR GAS	None
MOUNTING METHOD	Rail mounting possible Top-hat rail fixing (according to IEC/EN 60715, 35 mm) Wall mounting/direct mounting Screw fixing using fixing brackets ZB4-101-GF1 (accessories) Front build in possible
SCREWDRIVER SIZE	3.5 x 0.8 mm, Terminal screw
VOLTAGE TYPE	DC
MOUNTING POSITION	Horizontal Vertical
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
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-	0

INTERFACES (OTHER)	
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	<p>According to IEC/EN 61000-4-5, power pulses (Surge), EMC 0.5 kV, Supply cables, symmetrical, EASY...DC, power pulses (Surge), EMC</p> <p>1 kV, Supply cables, asymmetrical, power pulses (Surge), EMC</p>
CABLE LENGTH	<p>≤ 30 m, unscreened, Analog inputs temperature resistance Pt100 or Ni1000 sensors</p>
ELECTROMAGNETIC FIELDS	<p>10 V/m at 0.8 - 1.0 GHz (according to IEC EN 61000-4-3)</p> <p>1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-4-3)</p> <p>3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)</p>
PROTECTION AGAINST POLARITY REVERSAL	Yes, for supply voltage (Siemens MPI optional)
NUMBER OF INPUTS (ANALOG)	4
CONNECTION TYPE	Screw terminal
DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
IMMUNITY TO LINE-CONDUCTED	10 V (according to IEC/EN 61000-4-6)

INTERFERENCE	
RADIO INTERFERENCE CLASS	Class B (EN 61000-6-3)
NUMBER OF OUTPUTS (DIGITAL)	0
RELATIVE HUMIDITY	5 - 95 % (IEC 60068-2-30, IEC 60068-2-78)
DEGREE OF PROTECTION	IP20
PROTOCOL	TCP/IP MODBUS
RESIDUAL RIPPLE	≤ 5 %
INRUSH CURRENT	12.5 A (for 6 ms)
INSULATION RESISTANCE	According to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
HEAT DISSIPATION	3.4 W (at 24 V DC)
FUNCTIONS	Card diagnostic Diagnostics below lower measurement range
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	40 mA
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
POTENTIAL ISOLATION	Between Analog inputs PT100 or Ni1000 and Power supply: no Between Analog inputs PT100 or Ni1000 and expansion units: yes Between Analog inputs PT100 or Ni1000 and Inputs: no
NUMBER OF INPUTS (DIGITAL)	0
POWER LOSS	1 W
VOLTAGE DIPS	20 ms ≤ 10 ms, Bridging voltage dips
NUMBER OF INTERFACES (PROFINET)	0

NUMBER OF OUTPUTS (ANALOG)	0
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1 W
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT DC - MAX	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC
SWITCHING CURRENT	0 A
PRODUCT CATEGORY	Control relays easyE4
RESOLUTION	12 Bit (0- 4095, digital, scaling per sensor)
POWER CONSUMPTION	1 W
RATED OPERATIONAL VOLTAGE	24 V DC (-15 %/+ 20 % - power supply) 20.4 - 28.8 V DC
SHORT-CIRCUIT PROTECTION	≥ 1A (T), Fuse, Power supply
TERMINAL CAPACITY	0.2 - 2.5 mm ² (22 - 12 AWG), flexible with ferrule 0.2 - 4 mm ² (AWG 22 - 12), solid
TIGHTENING TORQUE	0.6 Nm, Screw terminals

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
:



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