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197225

Eaton Moeller® series EASY 3 x Bus connector plug between base unit and expansion unit/bus module and 3 x end covers, For use with easyE4

061360

Eaton Moeller® series EASY Fixing bracket, for easy500, 700, 800, EC4P, ES4P, easy200, MFD-CP8/CP10

197211

Eaton Moeller® series EASY Control relays easyE4 with display (expandable, Ethernet), 12/24 V DC, 24 V AC, Inputs Digital: 8, of which can be used as analog: 4, screw terminal

197212

Eaton Moeller® series EASY Corelays, easyE4 (expandable, Ethe V DC, 24 V AC, Inputs Digitals can be used as analog: 4, screw to

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| | | GENERAL SPECIFICATIONS | |
|------------------------|---|---|---|
| General specifications | > | PRODUCTNAME | Eaton Moeller® series EASY I/O expansion |
| | | CATALOG NUMBER | 197217 |
| Product specifications | > | MODEL CODE | EASY-E4-UC-8RE1 |
| | | EAN | 4015080892786 |
| | | PRODUCT LENGTH/DEPTH | 58 mm |
| | | PRODUCTHEIGHT | 90 mm |
| | | PRODUCT WIDTH | 36 mm |
| | | PRODUCTWEIGHT | 0.125 kg |
| | | CERTIFICATIONS | CULus per UL 61010 IEC 60068-2-6 IEC 60068-2-7 IEC/EN 61000-6-3 CSA-C22.2 No. 61010 IEC 60068-2-30 EN 61010 IEC/EN 61131-2 EN 50178 IEC/EN 61000-4-2 IEC/EN 61000-6-2 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 C (ethylene) UL hazardous location group D (propane) |
| | | CATALOG NOTES | fitted with two controlled relays |
| | | PRODUCT SPECIFICATIONS | |
| | | RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 0 A |

| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAD DISSIPATION (IN) | Г 0 А |
|---|--|
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. |
| | Max. 300 V AC |
| | 24 V AC (digital inputs) |
| | 12/24 V DC (-15 %/+ 20 % - power supply) |
| | Max. 300 V DC |
| DATED OREDATIONAL VOLTAGE | 10.2 - 28.8 V DC |
| RATED OPERATIONAL VOLTAGE | 240 V AC |
| | 24 V DC (digital inputs) |
| | 24 V AC (-15 %/+10 % - power supply) |
| 3/10 | |

| | 20.4 - 26.4 V AC | |
|--|--|--|
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. | |
| MOUNTING METHOD | Top-hat rail fixing (according to IEC/EN 60715, 35 Rail mounting possible Screw fixing using fixing brackets ZB4-101-GF1 (ac Wall mounting/direct mounting Front build in possible | |
| AIR PRESSURE | 795 - 1080 hPa (operation) | |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. | |
| AMBIENT STO RAGE TEMPERATURE - MIN | -40 °C | |
| SURGE RATING | 2 kV, Supply cables, asymmetrical, power pulses (S1 kV, Supply cables, symmetrical, power pulses (S2 According to IEC/EN 61000-4-5, power pulses (Su | |
| FITTED WITH: | Relay output | |
| VIBRATION RESISTANCE | According to IEC/EN 60068-2-6 10 - 57 Hz, 0.15 mm constant amplitude 57 - 150 Hz, 2 g constant acceleration | |
| MAKING/BREAKING CAPACITY | 28/28 VA (DC, at R 300) 3600/360 VA (AC, at B 300) | |
| EXPLOSION SAFETY CATEGORY FOR GAS | None | |
| AMBIENT OPERATING TEMPERATURE - MAX | 55 °C | |
| SWITCHING CURRENT | 5 A | |
| SWITCHING FREQUENCY | 2 Hz, Resistive load/lamp load, Relay outputs 10 Hz, Relay outputs 0.5 Hz, Inductive load, Relay outputs | |
| FEATURES | Expandable Expansion device | |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C | |
| NUMBER OF HW-INTERFACES (SERIAL TTY) | 0 | |
| SUPPLY VOLTAGE AT AC, 60 HZ - MAX | 264 VAC | |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to | |
| 10.2.6 MECHANICAL IMPACT | Does not apply, since the entire switchgear needs to | |
| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Meets the product standard's requirements. | |
| VOLTAGETYPE | AC/DC | |
| CATEGORY (EN 954-1) | None | |
| PRODUCT CATEGORY | Control relays easyE4 | |
| 4/10 | Between Relay outputs: yes | |

| POTENTIAL ISOLATION | Between Relay outputs and expansion devices: yes Between Digital inputs 24 V DC and Outputs: yes Between Digital inputs 12 V DC and expansion de Between Digital inputs 24 V AC and expansion de Between Digital inputs 24 V AC and base unit: yes Between Digital inputs 12 V DC and base unit: yes Between Digital inputs 24 V DC and expansion de Safe isolation according to EN 50178: 300 V AC (I Between Relay outputs and Power supply: yes Between Digital inputs 12 V DC and Outputs: yes Between Digital inputs 24 V AC and Outputs: yes Between Digital inputs 24 V DC and base unit: yes Between Relay outputs and Inputs: yes Between Relay outputs and Inputs: yes Basic isolation: 600 V AC (Relay outputs) |
|---|--|
| RADIO INTERFERENCE CLASS | Class B (EN 61000-6-3) |
| RESIDUAL RIPPLE | ≤5 % |
| INDICATION | LCD-display base unit used as status indication of DC LCD-display base unit used as status indication of DC |
| TERMINAL CAPACITY | 0.2 - 4 mm ² (AWG 22 - 12), solid 0.2 - 2.5 mm ² (22 - 12 AWG), flexible with femule |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| NUMBER OF HW-INTERFACES (RS-422) | 0 |
| INSULATION RESISTANCE | According to EN 50178, EN 61010-2-201, UL6101 NO. 61010-2-201 |
| POWER LOSS | 2 W |
| OUTPUT | Relay outputs in groups of 1 4 Relay Outputs > 500 mA (Relay outputs, Recommended for load: Voltage Current |
| ELECTROMAGNETIC FIELDS | $1~\mbox{V/m}$ at 2.0 - $2.7~\mbox{GHz}$ (according to IEC EN 6100 $3~\mbox{V/m}$ at 1.4 - $2~\mbox{GHz}$ (according to IEC EN 61000 $10~\mbox{V/m}$ at 0.8 - $1.0~\mbox{GHz}$ (according to IEC EN 610 |
| CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN) | 5 A |
| PROTOCOL | TCP/IP MODBUS |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| OVERVOLTAGE CATEGORY | Ш |
| DEGREE OF PROTECTION | IP20 |
| PARALLEL SWITCHING | Not permitted |
| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |
| | Signal 0: ≤5 V DC (I1 - I4, Digital inputs, 12 V I |

Signal 0: \leq 5 V DC (I1 - I4, Digital inputs, 12 V D Signal 1: \geq 15 V DC (I1 - I4, Digital inputs, 24 V

| INPUT VOLTAGE | At signal $0: \le 5$ V (I1 - I8, sinusoidal, Digital input Signal $0: \le 5$ V DC (I1 - I4, Digital inputs, 24 V D At signal $1: \ge 15$ V (I1 - I8, sinusoidal, Digital input Status $0: \le 15$ V DC (I1 - I4, Digital inputs, 24 V I |
|--|---|
| POLLUTION DEGREE | 2 |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6 kV (contact-coil) |
| SIL (IEC 61508) | None |
| TIGHTENING TORQUE | 0.6 Nm, Screw terminals |
| INPUT FREQUENCY | 50/60 Hz (Digital inputs, at 24 V DC) |
| ТУРЕ | easyE4 extension |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| SUPPLY FREQUENCY | 50/60 Hz (± 5%) |

Meets the product standard's requirements.

Meets the product standard's requirements.

Condensation: prevent with appropriate measures

Yes, for supply voltage (Siemens MPI optional)

15 g, Mechanical, according to IEC/EN 60068-2-27

Does not apply, since the entire switchgear needs to

3.3 mA (I1 - I4, at 24 V DC, at signal 1)

Is the panel builder's responsibility.

Is the panel builder's responsibility.

10 V (according to IEC/EN 61000-4-6)

B16 circuit breaker or 8 A (T) fuse, Protection of an

shock 11 ms, 18 Impacts

80 mA

0

6.5 Hz

Clearance in air and creepage distances according to 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61

6 kV

10.2 VDC

NUMBER OF HW-INTERFACES (WIRELESS)

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)

PROTECTION AGAINST POLARITY REVERSAL

10.12 ELECTROMAGNETIC COMPATIBILITY

NUMBER OF HW-INTERFACES (RS-485)

NUMBER OF HW-INTERFACES (INDUSTRIAL

10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS

IMMUNITY TO LINE-CONDUCTED INTERFERENCE

RADIATION

10.2.7 INSCRIPTIONS

SHOCK RESISTANCE

INPUT CURRENT

10.2.5 LIFTING

ETHERNET)

PROTECTION

FREQUENCY RATING

CONTACT DISCHARGE

SUPPLY VOLTAGE AT DC - MIN

ENVIRONMENTAL CONDITIONS

NUMBER OF INPUTS (ANALOG)

| LIFESPAN, ELECTRICAL | 25,000 Operations (Fluorescent lamp load 10 x 58 uncompensated) 25,000 Operations (Fluorescent lamp load 1 x 58 V conventional, compensated) 25,000 Operations (Fluorescent lamp load 10 x 58 with upstream electrical device) 25,000 Operations (Filament bulb load at 1000 W, |
|--|---|
| STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS | 2 W |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| UTILIZATION CATEGORY | B 300 Light Pilot Duty, UL/CSA Control Circuit R 300 Light Pilot Duty, UL/CSA Control Circuit |
| NUMBER OF HW-INTERFACES (RS-232) | 0 |
| NUMBER OF INPUTS (DIGITAL) | 4 |
| RATED BREAKING CAPACITY | 300000 Operations at AC-15, 250 V AC, 3 A (600 200000 Operations at DC-13, 24 V DC, 1 A (500 0 |
| CABLE LENGTH | 100 m, unscreened, Digital inputs 24 V AC 100 m, unscreened, Digital inputs 24 V DC 100 m, unscreened, Digital inputs 12 V DC 40 m (max. per input), Digital inputs 24 V DC |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to |
| SAFEISOLATION | 300 V AC, Between coil and contact, According to 300 V AC, Between two contacts, According to EN |
| VOLTAGE DIPS | ≤ 1 ms from rated voltage (12 V DC) $10~\text{ms}$ |
| SUPPLY VOLTAGE AT DC - MAX | 28.8 VDC |
| MOUNTING POSITION | Vertical Horizontal |
| SOFTWARE | EASYSOFT-SWLIC/easySoft7 |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the in instruction leaflet (IL) is observed. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 0 W |
| SAFEIY PERFORMANCE LEVEL (EN ISO 13849-1) | None |
| SHORT-CIRCUIT PROTECTION | \geq 1A (T), Fuse, Power supply |
| DROP AND TO PPLE | 50 mm Drop height, Drop to IEC/EN 60068-2-31 |
| SUPPLY VOLTAGE AT AC, 60 HZ - MIN | 85 VAC |
| UNINTERRUPTED CURRENT | 8 A DC, at 24 V DC (UL/CSA) 10 A AC, at 240 V AC (UL/CSA) 1 A DC, at R 300 (UL/CSA) 5 A AC, max. thermal continuous current cos φ = |
| 7/10 | |

| HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX | 0.3 m |
|--|---|
| EQ UIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID | 1 W |
| NUMBER OF OUTPUTS (ANALOG) | 0 |
| AIR DISCHARGE | 8 kV |
| NUMBER OF HW-INTERFACES (USB) | 0 |
| DELAY TIME | 25 ms typ., Digital Inputs 24 V AC 50 Hz (I1 - I4) to 1, Debounce OFF 0.015 ms typ., Digital inputs 12 V DC (I1 - I8), D Debounce OFF 0.015 ms typ., Digital inputs 12 V DC (I1 - I8), D Debounce OFF 20 ms, Digital Inputs 12 V DC, Delay time from 1 0.1 ms typ., Digital inputs 24 V DC (I1 - I4), Dela Debounce OFF 25 ms typ., Digital Inputs 24 V AC 50 Hz (I1 - I4) to 0, Debounce OFF 21 ms typ., Digital Inputs 24 V AC 60 Hz (I1 - I4) to 1, Debounce OFF 21 ms typ., Digital Inputs 24 V AC 60 Hz (I1 - I4) to 0, Debounce OFF 20 ms, Digital Inputs 12 V DC, Delay time from 0 0.2 ms typ., Digital inputs 24 V AC (I1 - I4), Dela Debounce OFF |
| NUMBER OF OUTPUTS (DIGITAL) | 4 |
| POWER CONSUMPTION | 2 W |
| 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. |
| CONNECTION TYPE | Screw terminal |
| LIFESPAN, MECHANICAL | 10,000,000 Operations |
| NUMBER OF HW-INTERFACES (OTHER) | 0 |
| RELATIVE HUMIDITY | 5 - 95 % (IEC 60068-2-30, IEC 60068-2-78) |
| SUPPLY VOLTAGE AT AC, 50 HZ - MIN | 85 VAC |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| SUPPLY VOLTAGE AT AC, 50 HZ - MAX | 264 VAC |
| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi |
| NUMBER OF HW-INTERFACES (PARALLEL) | 0 |
| EXPLOSION SAFETY CATEGORY FOR DUST | None |
| SCREWDRIVER SIZE | 3.5 x 0.8 mm, Terminal screw |

| BURSTIMPULSE | 2 kV, Signal cable 2 kV, Supply cable According to IEC/EN 61000-4-4 |
|---------------------------------|---|
| BASETYPE | No |
| NUMBER OF INTERFACES (PROFINEI) | 0 |
| RATED INSULATION VOLTAGE (UI) | 240 V |
| | |

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help our customers manage power—today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.