

## Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Modicon MCM                         |
| Product or component type | Safe communication expansion module |
| Device short name         | XPSMCM                              |
| [Us] rated supply voltage | 24 V - 20...20 % DC                 |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation in W                 | 3 W                                                                                                                                                                                                                                                                                                                                                                           |
| Safety level                           | Can reach category 4 conforming to ISO 13849-1<br>Can reach PL = e conforming to ISO 13849-1<br>Can reach SIL 3 conforming to IEC 61508<br>Can reach SILCL 3 conforming to IEC 62061                                                                                                                                                                                          |
| Quality labels                         | CE                                                                                                                                                                                                                                                                                                                                                                            |
| Range compatibility                    | Preventa XPSMCM                                                                                                                                                                                                                                                                                                                                                               |
| Connector type                         | 4 ways RS485                                                                                                                                                                                                                                                                                                                                                                  |
| Number of port                         | 1                                                                                                                                                                                                                                                                                                                                                                             |
| Communication port protocol            | RS485                                                                                                                                                                                                                                                                                                                                                                         |
| Current consumption                    | 0.125 mA                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum cable distance between devices | 50 m                                                                                                                                                                                                                                                                                                                                                                          |
| Local signalling                       | LED green with PWR marking for power ON<br>LED green with RUN marking for operating<br>LED red with E IN marking for internal error<br>LED red with E EX marking for external error                                                                                                                                                                                           |
| Connections - terminals                | 2 spring clamp terminals, removable terminal block                                                                                                                                                                                                                                                                                                                            |
| Cable cross section                    | 0.2...2.5 Mm² - AWG 24...AWG 14 flexible cablewithout cable end<br>0.25...2.5 Mm² - AWG 23...AWG 14 flexible cablewith cable end, with bezel<br>0.25...2.5 Mm² - AWG 23...AWG 14 flexible cablewith cable end, without bezel<br>0.2...2.5 Mm² - AWG 24...AWG 14 solid cablewithout cable end<br>0.5...1 mm² - AWG 20...AWG 18 flexible cablewith cable end, with double bezel |
| Mounting support                       | Omega 35 mm DIN rail conforming to EN 50022                                                                                                                                                                                                                                                                                                                                   |
| Width                                  | 22.5 mm                                                                                                                                                                                                                                                                                                                                                                       |
| Height                                 | 99 mm                                                                                                                                                                                                                                                                                                                                                                         |
| Depth                                  | 114.5 mm                                                                                                                                                                                                                                                                                                                                                                      |
| Net weight                             | 0.3 kg                                                                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| Product certifications                | cULus[RETURN]RCM[RETURN]TÜV                                           |
| IP degree of protection               | IP20                                                                  |
| Ambient air temperature for operation | -10...55 °C                                                           |
| Ambient air temperature for storage   | -20...85 °C                                                           |
| Relative humidity                     | 10...95 %                                                             |
| Pollution degree                      | 2                                                                     |
| Insulation                            | 250 V AC between power supply and housing conforming to IEC 61800-5-1 |
| Overvoltage category                  | II                                                                    |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility | Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to IEC 61000-4-2<br>Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to IEC 61000-4-3<br>Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to IEC 61000-4-3 |
| Vibration resistance          | +/-0.35 mm (f= 10...55 Hz) conforming to IEC 61496-1                                                                                                                                                                                                                                                                                                                                                                            |
| Shock resistance              | 10 gn (duration = 16 ms) for 1000 shocks on each axis conforming to IEC 61496-1                                                                                                                                                                                                                                                                                                                                                 |
| Operating altitude            | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Service life                  | 20 year(s)                                                                                                                                                                                                                                                                                                                                                                                                                      |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>         |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information |  <a href="#">Yes</a>                       |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>    |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |