



Main

| | |
|---------------------------|-----------------------------|
| Range of product | Modicon TM5 |
| Product or component type | Compact I/O expansion block |

Complementary

| | |
|----------------------------------|--|
| Enclosure material | Plastic |
| Colour | White |
| Input/Output number | 36 |
| For enclosure nominal dimensions | 24 I + 12 O |
| Number of modules | 2 modules with 12 digital input 2 modules with 6 relay output |
| Discrete input number | 24 |
| Discrete input voltage | 24 V |
| Discrete input voltage type | DC |
| Input voltage limits | 20.4...28.8 V |
| Discrete input logic | Sink |
| Discrete input current | 3.75 mA |
| Input impedance | 6.4 kOhm |
| Analogue input number | 0 |
| Discrete output number | 12 |
| Discrete output type | Relay |
| Wiring mode | 1 wire discrete input |
| Output voltage | 30 V DC 240 V AC |
| Output voltage limits | 184...276 V AC 24...36 V DC |
| Discrete output function | 1 NO |
| Discrete output logic | Source or sink |
| Discrete output current | 2 A per output |

| | |
|--------------------------------|--|
| Voltage state 0 guaranteed | <= 5 V |
| Voltage state 1 guaranteed | >= 15 V |
| Input filtering | <= 25 ms configurable by software <= 100 ms hardware |
| Response time | <= 12 ms from state 0 to state 1 output <= 10 ms from state 1 to state 0 output |
| Minimum switching current | 10 mA 5 V DC |
| Isolation | No insulation between channels 500 Vrms AC insulation between channel and bus |
| Mechanical durability | 20000000 cycles |
| Current consumption | 68 mA 5 V DC bus 165 mA 24 V DC input/output |
| Power dissipation in W | <= 4.3 W |
| Local signalling | 24 LEDs green input status 4 LEDs green power supply 4 LEDs red power supply 12 LEDs yellow output status |
| Electrical connection | Removable spring terminal block |
| Marking | CE |
| Surge withstand | 0.5 kV differential mode 24 V DC EN/IEC 61000-4-5 1 kV common mode 24 V DC EN/IEC 61000-4-5 1 kV differential mode 230 V AC EN/IEC 61000-4-5 2 kV common mode 230 V AC EN/IEC 61000-4-5 |
| Electromagnetic compatibility | EN/IEC 61000-4-6 |
| Disturbance radiated/conducted | CISPR 11 |

Environment

| | |
|---------------------------------------|--|
| Standards | CSA C22.2 No 142 IEC 61131-2 UL 508 CSA C22.2 No 213 |
| Product certifications | CSA C-Tick cULus GOST-R |
| Ambient air temperature for operation | -10...50 °C vertical installation -10...60 °C horizontal installation |
| Ambient air temperature for storage | -40...70 °C |
| Relative humidity | 5...95 % without condensation |
| IP degree of protection | IP20 IEC 61131-2 |
| Pollution degree | 2 IEC 60664 |
| Operating altitude | 0...2000 m |
| Storage altitude | 0...3000 m |
| Vibration resistance | 1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz DIN rail |
| Shock resistance | 15 gn 11 ms |
| Resistance to electrostatic discharge | 8 kV in air EN/IEC 61000-4-2 4 kV on contact EN/IEC 61000-4-2 |
| Resistance to electromagnetic fields | 1 V/m 2...2.7 GHz EN/IEC 61000-4-3 10 V/m 80...2000 MHz EN/IEC 61000-4-3 |
| Resistance to fast transients | 1 kV I/O EN/IEC 61000-4-4 1 kV shielded cable EN/IEC 61000-4-4 2 kV power lines EN/IEC 61000-4-4 |
| Mounting support | DIN rail |
| Product weight | 0.26 kg |

Offer Sustainability

| | |
|--------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1039 - Schneider Electric declaration of conformity |

[Schneider Electric declaration of conformity](#)

| | |
|----------------------------------|--|
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|