

Main

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| Range of product | Twido |
| Product or component type | Compact base controller |
| Discrete I/O number | 40 |
| Discrete input number | 24 |
| Discrete input voltage | 24 V |
| Discrete input voltage type | DC |
| Discrete output number | 2 transistor 14 relay |
| Number of I/O expansion module | 7 |
| [Us] rated supply voltage | 100...240 V AC |
| Use of slot | Memory cartridge |
| Data backed up | Internal RAM external battery TSXPLP01 3 years |
| Integrated connection type | Non isolated serial link mini DIN Modbus/character mode master/slave RTU/ASCII RS485 half duplex 38,4 kbit/s Power supply Serial link interface adaptor RS232C/RS485 |
| Complementary function | PID Event processing |

Complementary

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|---|---|
| Discrete input logic | Sink or source |
| Input voltage limits | 20.4...26.4 V |
| Discrete input current | 7 mA I0.2 to I0.5 7 mA I0.8 to I0.23 11 mA I0.0 to I0.1 11 mA I0.6 to I0.7 |
| Input impedance | 2100 Ohm I0.0 to I0.1 2100 Ohm I0.6 to I0.7 3400 Ohm I0.2 to I0.5 3400 Ohm I0.8 to I0.23 |
| Filter time | 35 µs + programmed filter time for I0.0 to I0.5 at state 1 40 µs + programmed filter time for I0.0 to I0.5 at state 0 40 µs + programmed filter time for I0.6 to I0.23 at state 1 150 µs + programmed filter time for I0.6 to I0.23 at state 0 |
| Insulation between channel and internal logic | 1500 Vrms for 1 minute |
| Insulation resistance between channel | None |
| Minimum load | 0.1 mA |
| Contact resistance | ≤ 30000 µOhm |
| Load current | 2 A 240 V AC resistive 30 cyc/mn relay outputs 2 A 30 V DC resistive 30 cyc/mn relay outputs 2 A 240 V AC inductive 30 cyc/mn relay outputs 2 A 30 V DC inductive 30 cyc/mn relay outputs |
| Mechanical durability | ≥ 20000000 cycles relay outputs |
| Electrical durability | ≥ 100000 cycles relay outputs |
| Current consumption | 5 mA 24 V DC at state 0 70 mA 5 V DC at state 0 90 mA 5 V DC at state 1 128 mA 24 V DC at state 1 128 mA 24 V DC state 1 + input ON 140 mA 5 V DC state 1 + input ON |

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| I/O connection | Non-removable screw terminal block |
| Input/Output number | ≤ 152 removable screw terminal block with I/O expansion module ≤ 208 spring terminal block with I/O expansion module ≤ 264 HE-10 connector with I/O expansion module |
| Network frequency | 50/60 Hz |
| Supply voltage limits | 85...264 V |
| Network frequency limits | 47...63 Hz |
| Power supply output current | 0.4 A 24 V DC sensors |
| Power supply input current | 790 mA |
| Inrush current | ≤ 35 A |
| Protection type | Power protection internal fuse |
| Power consumption in VA | 65 VA 100 V 77 VA 264 V |
| Insulation resistance | > 10 MOhm at 500 V, between supply and earth terminals > 10 MOhm at 500 V, between I/O and earth terminals |
| Program memory | 3000 instructions |
| Exact time for 1 K instruction | 1 ms |
| System overhead | 0.5 ms |
| Memory description | Internal RAM 256 internal bits, no floating, no trigonometrical Internal RAM 3000 internal words, no floating, no trigonometrical Internal RAM 128 timers, no floating, no trigonometrical Internal RAM 128 counters, no floating, no trigonometrical Internal RAM double words, no floating, no trigonometrical Internal RAM floating, trigonometrical |
| Free slots | 1 |
| Realtime clock | With ≤ 30 s/month 30 days |
| Positioning functions | PWM/PLS 2 7 kHz |
| Counting input number | 2 20000 Hz 32 bits 4 5000 Hz 16 bits |
| Analogue adjustment points | 1 point adjustable from 0...1023 1 point adjustable from 0 to 511 points |
| Marking | CE |
| Status LED | 1 LED green PWR 1 LED green RUN 1 LED red module error (ERR) 1 LED user pilot light (STAT) 1 LED per channel green I/O status |
| Product weight | 0.525 kg |

Environment

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|---------------------------------------|---|
| Immunity to microbreaks | 10 ms |
| Dielectric strength | 1500 V for 1 minute, between supply and earth terminals 1500 V for 1 minute, between I/O and earth terminals |
| Product certifications | CSA UL |
| Ambient air temperature for operation | 0...55 °C |
| Ambient air temperature for storage | -25...70 °C |
| Relative humidity | 30...95 % without condensation |
| IP degree of protection | IP20 |
| Operating altitude | 0...2000 m |
| Storage altitude | 0...3000 m |
| Vibration resistance | 0.075 mm 10...57 Hz 35 mm symmetrical DIN rail 1 gn 57...150 Hz 35 mm symmetrical DIN rail 1.6 mm 2...25 Hz plate or panel with fixing kit 4 gn 25...100 Hz plate or panel with fixing kit |
| Shock resistance | 15 gn 11 ms |
| RoHS EUR conformity date | 0932 |
| RoHS EUR status | Compliant |