TWDLCAA24DRF

extendable PLC base Twido - 100..240 V AC supply - 14 I 24 V DC - 10 O relay



| Main | |
|--------------------------------|---|
| Range of product | Twido |
| Product or component type | Compact base controller |
| Discrete I/O number | 24 |
| Discrete input number | 14 |
| Discrete input voltage | 24 V |
| Discrete input voltage type | DC |
| Discrete output number | 10 for relay |
| Number of I/O expansion module | 4 |
| [Us] rated supply volt- age | 100240 V AC |
| Use of slot | Memory cartridge or realtime clock cartridge |
| Data backed up | Internal RAM (lithium) 30 days , charging time = 10 hrs , battery life = 10 yr |
| 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 func- | PID |

Event processing

Complementary

| Complementary | |
|---|---|
| Discrete input logic | Sink or source |
| Input voltage limits | 20.428.8 V |
| Discrete input current | 7 mA for I0.2 to I0.13 11 mA for I0.0 to I0.1 |
| Input impedance | 2100 Ohm for I0.0 to I0.1 3400 Ohm for I0.2 to I0.13 |
| Filter time | 35 μ s + programmed filter time for I0.0 to I0.5 at state 1 40 μ s + programmed filter time for I0.6 to I0.13 at state 1 45 μ s + programmed filter time for I0.0 to I0.5 at state 0 150 μ s + programmed filter time for I0.6 to I0.13 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 at 240 V AC resistive load, operating rate = 30 cyc/mn for relay outputs 2 A at 30 V DC resistive load, operating rate = 30 cyc/mn for relay outputs 2 A at 240 V AC inductive load, operating rate = 30 cyc/mn for relay outputs 2 A at 30 V DC inductive load, operating rate = 30 cyc/mn for relay outputs |
| Mechanical durability | ≥ 20000000 cycles for relay outputs |
| Electrical durability | ≥ 100000 cycles for relay outputs |
| Current consumption | 5 mA at 5 V DC at state 0 36 mA at 5 V DC at state 1 55 mA at 24 V DC at state 1 |
| I/O connection | Non-removable screw terminal block |
| Input/Output number | ≤ 120 with spring terminal block with I/O expansion module ≤ 152 with HE-10 connector with I/O expansion module ≤ 88 with removable screw terminal block with I/O expansion module |
| Network frequency | 50/60 Hz |
| Supply voltage limits | 85264 V |
| | |

tion

| Network frequency limits | 4763 Hz |
|--------------------------------|---|
| Power supply output current | 0.25 A for 24 V DC sensors |
| Power supply input current | 450 mA |
| Inrush current | ≤ 40 A |
| Protection type | Power protection with internal fuse |
| Power consumption in VA | 33 VA at 100 V 40 VA at 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 |
| Free slots | 1 |
| Realtime clock | Without |
| Counting input number | 1 channel(s) at 20000 Hz 32 bits 3 channel(s) at 5000 Hz 16 bits |
| Analogue adjustment points | 1 point adjustable from 01023 1 point adjustable from 0 to 511 points |
| Marking | CE |
| Status LED | 1 LED green for PWR 1 LED green for RUN 1 LED red for module error (ERR) 1 LED for user pilot light (STAT) 1 LED per channel green for I/O status |
| Product weight | 0.305 kg |

Environment

| 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 | 055 °C |
| Ambient air temperature for storage | -2570 °C |
| Relative humidity | 3095 % without condensation |
| IP degree of protection | IP20 |
| Operating altitude | 02000 m |
| Storage altitude | 03000 m |
| Vibration resistance | 0.075 mm , 1057 Hz mounting on: 35 mm symmetrical DIN rail 1 gn , 57150 Hz mounting on: 35 mm symmetrical DIN rail 1.6 mm , 225 Hz mounting on: plate or panel with fixing kit 4 gn , 25100 Hz mounting on: plate or panel with fixing kit |
| Shock resistance | 15 gn for 11 ms |
| RoHS EUR conformity date | 0630 |
| RoHS EUR status | Compliant |

