TWDLCAA10DRF

extendable PLC base Twido - 100..240 V AC supply - 6 I 24 V DC - 4 O relay



Main	
Range of product	Twido
Product or component type	Compact base controller
Discrete I/O number	10
Discrete input number	6
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete output number	4 for relay
[Us] rated supply voltage	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

Complementary

In	
Discrete input logic	Sink or source
Input voltage limits	20.428.8 V
Discrete input current	7 mA for I0.2 to I0.5 11 mA for I0.0 to I0.1
Input impedance	2100 Ohm for I0.0 to I0.1 3400 Ohm for I0.2 to I0.5
Filter time	35 μs + programmed filter time for I0.0 to I0.5 at state 1 45 μs + programmed filter time for I0.0 to I0.5 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 24 mA at 5 V DC at state 1 26 mA at 24 V DC at state 1
I/O connection	Non-removable screw terminal block
Network frequency	50/60 Hz
Supply voltage limits	85264 V
Network frequency limits	4763 Hz
Power supply output current	0.25 A for 24 V DC sensors
Power supply input current	250 mA
Inrush current	≤ 35 A
Protection type	Power protection with internal fuse
Power consumption in VA	20 VA at 100 V 30 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	700 instructions
Exact time for 1 K instruction	1 ms
System overhead	0.5 ms
Memory description	Internal RAM , 128 internal bits, no floating, no trigonometrical Internal RAM , 3000 internal words, no floating, no trigonometrical Internal RAM , 64 timers, no floating, no trigonometrical Internal RAM , 128 counters, 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
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	0.23 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	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

