Product data sheet Characteristics

TWDLCDA24DRF compact PLC base Twido - 24 V DC supply - 14 I 24 V DC - 10 O relay

Product availability : Stock - Normally stocked in distribution facility

Price* : 536.00 USD



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 relay
[Us] rated supply voltage	24 V DC
Number of I/O expansion module	4
Use of slot	Memory cartridge or realtime clock cartridge
Data backed up	Internal RAM (lithium) 30 days, charging time = 10 h, 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 function	Event processing PID

Complementary

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Discrete input logic	Sink or source	
Input voltage limits	20.428.8 V	201 111 111 111
Discrete input current	11 mA for I0.0 to I0.1 7 mA for I0.2 to I0.13	ב ס מ מ מ
Input impedance	2100 Ohm for I0.0 to I0.1 3400 Ohm for I0.2 to I0.13	
Filter time	150 μ s + programmed filter time for I0.6 to I0.13 at state 0 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	to is not
Insulation between channel and internal logic	1500 Vrms for 1 minute	
Insulation resistance between channel	None	
Minimum load	0.1 mA	Siccasine .
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Contact resistance	<= 30000 μOhm	
Load current	2 A at 240 V AC inductive load, operating rate = 30 cyc/mn for relay output 2 A at 240 V AC resistive load, operating rate = 30 cyc/mn for relay output 2 A at 30 V DC inductive load, operating rate = 30 cyc/mn for relay output 2 A at 30 V DC resistive load, operating rate = 30 cyc/mn for relay output	
Mechanical durability	>= 2000000 cycles relay output	
Electrical durability	>= 100000 cycles for relay output	
Current consumption	36 mA at 5 V DC at state 1 5 mA at 5 V DC at state 0 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	
Supply voltage limits	20.428.8 V	
Inrush current	<= 40 A	
Protection type	Power protection with internal fuse	
Power consumption in W	<= 8.7 W	
Insulation resistance	 > 10 MOhm at 500 V, between I/O and earth terminals > 10 MOhm at 500 V, between supply and earth terminals 	
Program memory	3000 instructions	
Exact time for 1 Kinstruction	1 ms	
System overhead	0.5 ms	
Memory description	Internal RAM, 128 counters, no floating, no trigonometrical Internal RAM, 128 timers, no floating, no trigonometrical Internal RAM, 256 internal bits, no floating, no trigonometrical Internal RAM, 3000 internal words, 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	
Status LED	1 LED user pilot light (STAT) 1 LED green PWR 1 LED green RUN 1 LED per channel green I/O status 1 LED red module error (ERR)	
Depth	2.76 in (70 mm)	
Height	3.74 in (95 mm)	
Width	3.54 in (90 mm)	
Product weight	0.67 lb(US) (0.305 kg)	

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Immunity to microbreaks	10 ms
Dielectric strength	1500 V for 1 minute, between I/O and earth terminals 500 V for 1 minute, between supply and earth terminals
Product certifications	CSA UL
Marking	CE
Ambient air temperature for operation	32131 °F (055 °C)
Ambient air temperature for storage	-13158 °F (-2570 °C)
Relative humidity	3095 % without condensation
IP degree of protection	IP20
Operating altitude	06561.68 ft (02000 m)
Storage altitude	09842.52 ft (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

Shock resistance	15 gn 11 ms	
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18 months

Ordering and shipping details

0 11 0	
Category	22531 - PLCS, TWIDO, TWD
Discount Schedule	PC12
GTIN	00785901552444
Nbr. of units in pkg.	1
Package weight(Lbs)	0.969999999999999997
Returnability	Y
Country of origin	TW

Contractual warranty

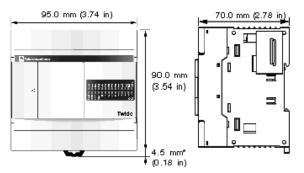
Warranty period

Product data sheet Dimensions Drawings

TWDLCDA24DRF

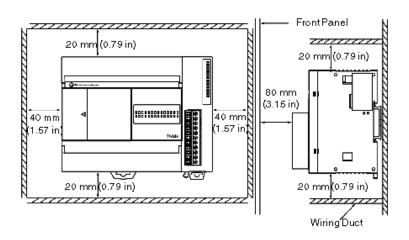
Dimensions

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8.5 mm (0.33 in) when the clamp is pulled out.

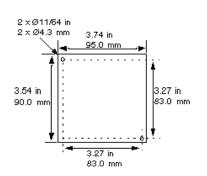
Minimum Clearances for a Compact Base and Expansion I/O Modules



Product data sheet Mounting and Clearance

TWDLCDA24DRF

Mounting Hole Layout

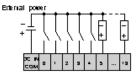


DC Power Supply Wiring Diagram



DC Source Inputs Wiring Diagrams

External Power



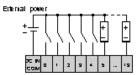
Internal Power



Max current: 250mA.

DC Sink Inputs Wiring Diagrams

External Power

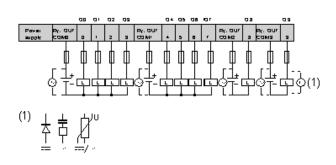


Internal Power



Max current: 250mA.

Relay and Transistor Outputs Wiring Diagram

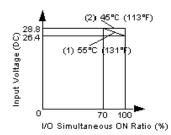


Product data sheet Performance Curves

TWDLCDA24DRF

Performance Curves

I/O Usage Limits



- (1) Limit for TWDLC•AA16DRF, TWDLC•A24DRF, TWDLCA•40DRF and TWDLD•40DRF
- (1) Limit for TWDLC•A(2) All compact bases