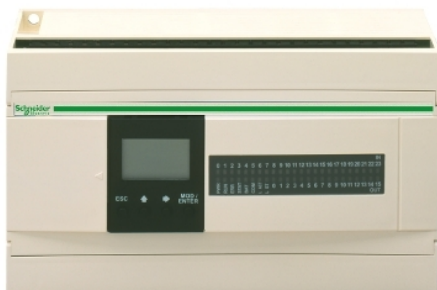


TWDLCAE40DRF

compact PLC base Twido - 100..240 V AC
supply - 24 I 24 V DC - 16 O



Main

Range of Product	Twido
Product or Component Type	Compact base controller
Concept	Transparent Ready
Discrete I/O number	40
Discrete input number	24
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete output number	14 relay 2 transistor
[Us] rated supply voltage	100...240 V AC
Maximum number of I/O expansion module	7
Use of slot	Memory cartridge
Data backed up	Internal RAM external battery TSXPLP01, 3 years
Integrated connection type	Power supply Non isolated serial link mini DIN, Modbus/character mode master/slave RTU/ASCII RS485) half duplex, 38.4 kbit/s Serial link interface adaptor RS232C/RS485) Ethernet TCP/IP RJ45, , 10/100 Mbit/s, 1 twisted pair transparent ready class A10
Complementary function	PID Event processing

Complementary

Discrete input logic	Sink or source
Input voltage limits	20.4...26.4 V
Discrete input current	11 MA I0.0 to I0.1 11 MA I0.6 to I0.7 7 MA I0.2 to I0.5 7 mA I0.8 to I0.23
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	150 µs + programmed filter time for I0.6 to I0.23 at state 0 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
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 inductive 30 cyc/mn relay output 2 A 240 V AC resistive 30 cyc/mn relay output 2 A 30 V DC inductive 30 cyc/mn relay output 2 A 30 V DC resistive 30 cyc/mn relay output
Mechanical durability	20000000 cycles relay output
Electrical durability	100000 cycles relay output

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Current consumption	128 mA 24 V DC at state 1 128 mA 24 V DC state 1 + input ON 170 mA 5 V DC at state 0 240 mA 5 V DC state 1 + input ON 5 mA 24 V DC at state 0 90 mA 5 V DC at state 1
I/O connection	Non-removable screw terminal block
Maximum 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
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 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 Internal RAM, floating, trigonometrical
Free slots	1
Realtime clock	With <= 30 s/month 30 days
Port Ethernet	10BASE-T/100BASE-TX
Communication service	BOOTP client, Ethernet TCP/IP Modbus messaging, Ethernet TCP/IP
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 to 511 points 1 point adjustable from 0...1023
Status LED	PWR 1 LED Green) RUN 1 LED Green) I/O status 1 LED per channel Green) Module error (ERR) 1 LED Red) User pilot light (STAT) 1 LED 10 or 100 Mbit/s rate (LACT) 1 LED Ethernet status (LAN ST) 1 LED
Depth	2.76 in (70 mm)
Height	3.74 in (95 mm)
Width	3.54 in (90 mm)
Net Weight	1.16 lb(US) (0.525 kg)

Environment

Immunity to microbreaks	10 ms
Dielectric strength	1500 V for 1 minute, between I/O and earth terminals 1500 V for 1 minute, between supply and earth terminals
Product certifications	UL CSA
Marking	CE
Ambient Air Temperature for Operation	32...131 °F (0...55 °C)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Relative humidity	30...95 % without condensation
IP Degree of Protection	IP20

Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (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

Ordering and shipping details

Category	22531-PLCS, TWIDO, TWD
Discount Schedule	PC12
GTIN	3595863816020
Nbr. of units in pkg.	1
Package weight(Lbs)	24.66 oz (699.0 g)
Returnability	No
Country of origin	ID

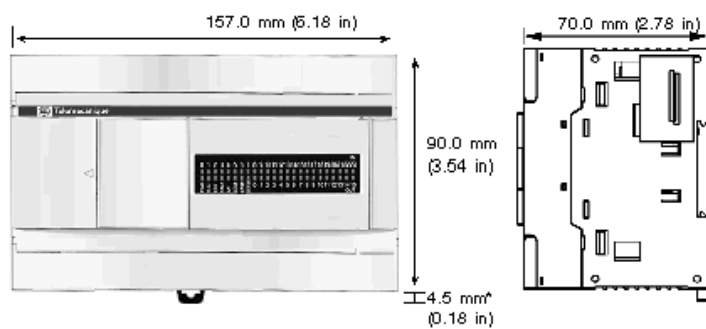
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.33 in (11 cm)
Package 1 width	4.72 in (12 cm)
Package 1 Length	7.28 in (18.5 cm)
Unit Type of Package 2	S04
Number of Units in Package 2	18
Package 2 Weight	29.83 lb(US) (13.529 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	3
Package 3 Weight	5.35 lb(US) (2.426 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

Contractual warranty

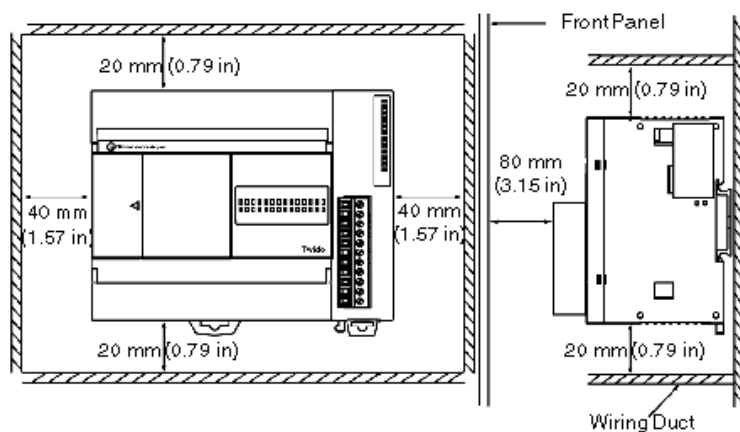
Warranty	18 months
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Dimensions

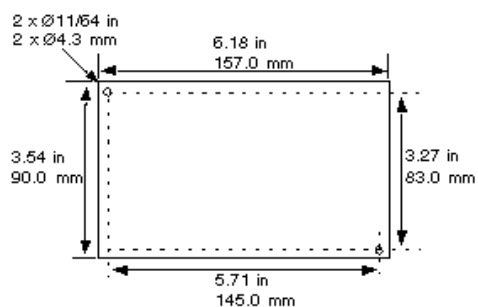


* 8.5 mm (0.33 in) when the clamp is pulled out.

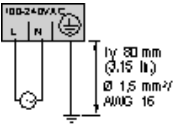
Minimum Clearances for a Compact Base and Expansion I/O Modules



Mounting Hole Layout

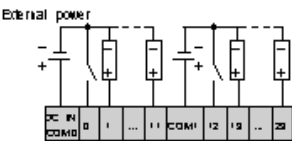


AC Power Supply Wiring Diagram

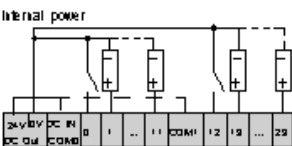


DC Source Inputs Wiring Diagrams

External Power



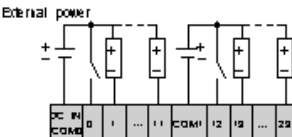
Internal Power



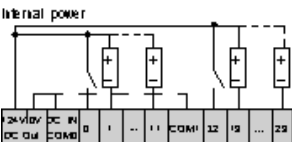
Max current: 400mA.

DC Sink Inputs Wiring Diagrams

External Power

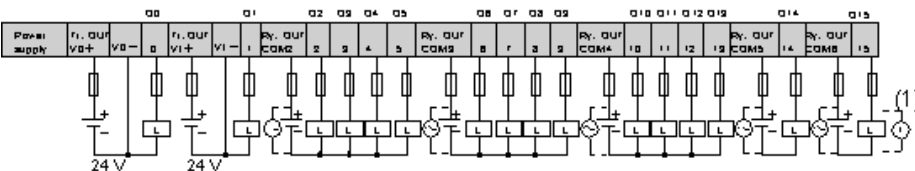


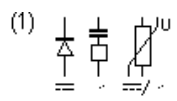
Internal Power



Max current: 400mA.

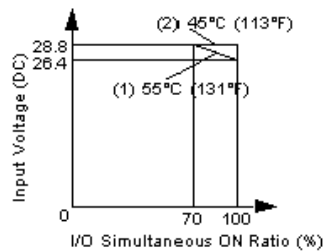
Relay and Transistor Outputs Wiring Diagram





Performance Curves

I/O Usage Limits



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

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