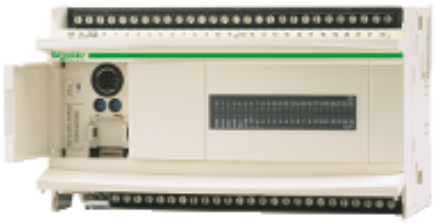
Product data sheet
Characteristics

TWDLCAA40DRF
Compact base controller, Twido, 100 to 240VAC supply, compact, 14 inputs with 24VDC, 10 output relays



Commercial status
End of Commercialisation : DEC 31, 2016

⚠ End of Commercialisation

Main

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	14 for relay 2 for 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 autonomy
Integrated connection type	Power supply Non isolated serial link mini DIN, Modbus/character mode master/slave RTU/ASCII (RS485) ha Serial link interface adaptor (RS232C/RS485)
Complementary function	Event processing PID
Range compatibility	Twido

Complementary

Discrete input logic	Sink or source
Input voltage limits	20.4...26.4 V
Discrete input current	11 MA for I0.0 to I0.1 11 MA for I0.6 to I0.7 7 MA for I0.2 to I0.5 7 MA for I0.8 to I0.23
Input impedance	2100 Ohm for I0.0 to I0.1 2100 Ohm for I0.6 to I0.7 3400 Ohm for I0.2 to I0.5 3400 Ohm for 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 MOhm

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	20000000 Cycles for relay output
Electrical durability	100000 Cycles for relay output
Current consumption	128 mA at 24 V DC at state 1 128 mA at 24 V DC state 1 + input ON 140 mA at 5 V DC state 1 + input ON 5 mA at 24 V DC at state 0 70 mA at 5 V DC at state 0 90 mA at 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 for 24 V DC sensors
Input current	790 MA
Inrush current	35 A
Protection type	Power protection by internal fuse
Power consumption in VA	65 VA at 100 V 77 VA at 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 clock, clock drift <= 30 s/month, operating time: 30 days
Positioning functions	PWM/PLS 2 channel(s) at 7 kHz
Counting input number	2 counting input(s) at 20000 Hz 32 bits 4 counting input(s) at 5000 Hz 16 bits
Analogue adjustment points	1 point adjustable from 0 to 511 points 1 point adjustable from 0...1023
Status LED	1 LED (green) PWR 1 LED (green) RUN 1 LED per channel (green) I/O status 1 LED (red) module error (ERR) 1 LED user pilot light (STAT)
Depth	70 Mm
Height	95 Mm
Width	90 Mm
Net weight	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[RETURN]CSA
Marking	CE
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 at 10…57 Hz on 35 mm symmetrical DIN rail 1 gn at 57…150 Hz on 35 mm symmetrical DIN rail 1.6 mm at 2…25 Hz on plate or panel with fixing kit 4 gn at 25…100 Hz on plate or panel with fixing kit
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.5 Cm
Package 1 Width	12 Cm
Package 1 Length	18.5 Cm
Package 1 Weight	685 G
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	5.974 Kg

Offer Sustainability

Sustainable packaging	No

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

TWDLCAA40DRF may be replaced by any of the following products:



TM221C40R

logic controller, Modicon M221, 40 IO, relay

Qty 1

Substitution date: |



TM221C24R

logic controller, Modicon M221, 24 IO, relay

Qty 1

Substitution date: |



TM3DM24R

discrete IO module, Modicon TM3, 24 IO, 16 inputs, 8 relay outputs, screw, 24V DC

Qty 1

Substitution date: |



TM3DM24R

discrete IO module, Modicon TM3, 24 IO, 16 inputs, 8 relay outputs, screw, 24V DC

Qty 1

Substitution date: |



TM221C24R

logic controller, Modicon M221, 24 IO, relay

Qty 1

Substitution date: |