## TWDLMDA20DUK

## extendable PLC base Twido 24 V - 12 I 24 V DC - 8 O solid state



## Main Range of product Product or component Modular base controller type Discrete I/O number 20 Discrete input number 12 24 V Discrete input voltage Discrete input voltage DC Discrete output number 8 for transistor (sink) Number of I/O expansion module [Us] rated supply volt-24 V DC age Use of slot 32 K memory cartridge and 1 realtime clock

## Complementary

Sink or source
20.426.4 V
5 mA for I0.0 to I0.1
5 mA for I0.6 to I0.7
7 mA for I0.2 to I0.5
7 mA for I0.8 to I0.11
4700 Ohm for I0.2 to I0.5
4700 Ohm for I0.8 to I0.11
5700 Ohm for I0.0 to I0.1
5700 Ohm for I0.6 to I0.7
35 μs for I0.0 to I0.1 at state 1
35 µs for I0.6 to I0.7 at state 1
40 μs for I0.2 to I0.5 at state 1
40 μs for I0.8 to I0.11 at state 1
45 μs for I0.0 to I0.1 at state 0 45 μs for I0.6 to I0.7 at state 0
150 µs for 10.2 to 10.5 at state 0
150 µs for I0.8 to I0.11 at state 0
1500 Vrms for 1 minute
None
24 V
20.428.8 V
0.36 A for transistor output
1 A for transistor output
5 µs for Q0.0 to Q0.1 at state 1
5 μs for Q0.0 to Q0.1 at state 0
300 µs for Q0.2 to Q0.7 at state 1
300 μs for Q0.2 to Q0.7 at state 0
≤ 1 V at state 1
0.1 mA
39 V
8 W
300 mA
HE-10 connector
≤ 116 , spring terminal block with I/O expansion module
≤ 148 , HE-10 connector with I/O expansion module
≤ 88 , removable screw terminal block with I/O expansion module
20.426.4 V

Protection type	Power protection with internal fuse
Power consumption in W	≤ 15 W (base + 4 expension module)
Inrush current	≤ 1 A for transistor output ≤ 50 A for power supply
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	2
Battery type	Lithium for internal RAM , autonomy: 30 days , charging time = 15 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
Counting input number	2 channel(s) at 5000 Hz 16 bits 2 channel(s) at 20000 Hz 32 bits
Positioning functions	PWM/PLS 2 channel(s) at 7 kHz
Analogue input number	1
Analogue input range	010 V
Analogue input resolution	9 bits
Input impedance	100000 Ohm
Complementary function	PID Event processing
Analogue adjustment points	1 point adjustable from 01023
Marking	CE
Status LED	1 LED green for PWR 1 LED green for RUN 1 LED for ERR 1 LED for STAT 1 LED per channel for I/O status
Product weight	0.14 kg
Environment	
Immunity to microbreaks	10 ms
Dielectric strength	500 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 storage	-2570 °C
Ambient air temperature for operation	055 °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

