TWDLMDA40DUK

extendable PLC base Twido 24 V - 24 I 24 V DC - 16 O solid state



Main Range of product Product or component Modular base controller type Discrete I/O number 40 Discrete input number 24 24 V Discrete input voltage Discrete input voltage DC Discrete output number 16 for transistor (sink) Number of I/O expan-

32 K or 64 K memory cartridge and 1 realtime clock

24 V DC

Complementary

- Comprehensi	
Discrete input logic	Sink or source
Input voltage limits	20.426.4 V
Discrete input current	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 I0.23
Input impedance	4700 Ohm for I0.2 to I0.5 4700 Ohm for I0.8 to I0.23 5700 Ohm for I0.0 to I0.1 5700 Ohm for I0.6 to I0.7
Filter time	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 I0.23 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 I0.2 to I0.5 at state 0 150 μs for I0.8 to I0.23 at state 0
Insulation between channel and internal logic	1500 Vrms for 1 minute
Insulation resistance between channel	None
Discrete output voltage	24 V
Output voltage limits	20.428.8 V
Current per channel	0.36 A for transistor output
Current per output common	1 A for transistor output
Response time	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 Q0.15 at state 1 300 µs for Q0.2 to Q0.15 at state 0
[Ures] residual voltage	≤ 1 V at state 1
Leakage current	0.1 mA
Output overvoltage protection	39 V
Tungsten load	8 W
Discrete output current	300 mA
I/O connection	HE-10 connector
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
Supply voltage limits	20.426.4 V

sion module

age Use of slot

[Us] rated supply volt-

Protection type	Power protection with internal fuse
Power consumption in W	≤ 19 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 6000 instructions with 64 K memory cartridge
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 Internal RAM, floating, 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 for ERR 1 LED for STAT 1 LED green for PWR 1 LED green for RUN 1 LED per channel for I/O status
Product weight	0.18 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

