Product data sheet

Specifications



Safety dc discrete output module, Modicon TM5, digital 6O, 24V 0,2 A

TM5SDO6TBFS

Main

Range of product	Modicon TM5
Product or component type	Safety dc discrete output module
Discrete output number	6
Discrete output type	Solid state

Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Eco PacDrive LMC Pro 2 PacDrive LMC Pro
Output voltage	24 V DC
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Current per channel	0.2 A
Maximum current per output common	2 A
Colour	Red
Peak output current	12 A
Switching frequency	<= 500 Hz resistive load
Maximum leakage current	10 µA when switched off
Protection type	Overload protection Short-circuit protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Maximum power consumption in W	0.25 W for bus 1.3 W for internal
Local signalling	1 LED green for power supply 1 LED red for power supply 2 LEDs red for safety status 4 LEDs red/orange for output status
Electrical connection	2 wires
Marking	CE
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1

Disclaimer: 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

Safety reliability data	MTTFd > 100 years PFD < 1E-5 PFH < 1E-9
Net weight	0.025 kg

Environment

Standards	UL 508 IEC 61131-2 CSA C22.2 No 142 EN 13849-1 IEC 61508 IEC 62061
Product certifications	cULus CSA
Ambient air temperature for operation	-10…50 °C (vertical installation) -10…55 °C (horizontal installation)
Ambient air temperature for storage	-40…70 °C
Relative humidity	5…95 % without condensation
IP degree of protection	IP20 conforming to EN 60529
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...2000 m
Storage altitude	0…3000 m
Vibration resistance	1 gn at 8.4…150 Hz on DIN rail 3.5 mm at 5…8.4 Hz on DIN rail
Shock resistance	15 gn for 11 ms
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to EN/IEC 61000-4-5 Conducted RF disturbances conforming to EN/IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	690.0 g
Package 1 Height	3.2 cm
Package 1 width	6 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	34.8 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

EU RoHS Directive	Under investigation
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov