Product datasheet

Specifications





discrete output module, Modicon TM3, 16 outputs transistor NPN, screw

TM3DQ16U

Main

Range Of Product	Modicon TM3	
Product Or Component Type	Discrete output module	
Range Compatibility	Modicon M241	
	Modicon M251	
	Modicon M221	
	Modicon M262	
Discrete Output Type	Transistor	
Discrete Output Number	16	
Discrete Output Logic	Negative logic (sink)	
Discrete Output Voltage	24 V DC for transistor output	
Discrete Output Current	300 mA for transistor output	

Complementary

Discrete I/O Number	16	
Current Consumption	5 mA at 5 V DC via bus connector (at state off) 0 mA at 24 V DC via bus connector (at state off)	
	15 mA at 5 V DC via bus connector (at state on)	
	20 mA at 24 V DC via bus connector (at state on)	
Response Time	450 µs (turn-on)	
	450 μs (turn-off)	
Maximum Leakage Current	0.1 mA for transistor output	
Maximum Voltage Drop	<0.4 V	
Local Signalling	1 LED per channel (green) for output status	
Electrical Connection	10 x 1.5 \mbox{mm}^{2} removable screw terminal block with pitch 3.81 mm adjustment for outputs	
Maximum Cable Distance Between Devices	unshielded cable: <30 m for transistor output	
Insulation	Between output and internal logic at 500 V AC	
	Non-insulated between outputs	
Marking	CE	
Mounting Support	Top hat type TH35-15 rail conforming to IEC 60715	
	Top hat type TH35-7.5 rail conforming to IEC 60715	
	plate or panel with fixing kit	
Height	90 mm	
Depth	81.3 mm	
Width	21.4 mm	
Net Weight	/eight 0.76 kg	

Environment

Standards	IEC 61131-2	
Product Certifications	cULus	
	CE	
	UKCA	
	RCM	
	EAC	
	cULus HazLoc	
Resistance To Electrostatic	8 kV in air conforming to IEC 61000-4-2	
Discharge	4 kV on contact conforming to IEC 61000-4-2	
Resistance To Electromagnetic	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3	
Fields	3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3	
	1 V/m 2 GHz3 GHz conforming to IEC 61000-4-3	
Resistance To Magnetic Fields	c Fields 30 A/m 50/60 Hz conforming to IEC 61000-4-8	
Resistance To Fast Transients	1 kV for I/O conforming to IEC 61000-4-4	
Surge Withstand	1 kV I/O common mode conforming to IEC 61000-4-5 DC	
Resistance To Conducted	10 V 0.1580 MHz conforming to IEC 61000-4-6	
Disturbances	3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to	
	Marine specification (LR, ABS, DNV, GL)	
Electromagnetic Emission	Radiated emissions - test level: 40 dBµV/m QP class A (10 m) at 30230 MHz	
-	conforming to IEC 55011	
	Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 2301000 MHz	
	conforming to IEC 55011	
Ambient Air Temperature For	-1035 °C vertical installation	
Operation	-1055 °C horizontal installation	
Ambient Air Temperature For	-2570 °C	
Storage	40.05%	
Relative Humidity	1095 %, without condensation (in operation)	
	1095 %, without condensation (in storage)	
p Degree Of Protection	IP20 with protective cover in place	
Pollution Degree	2	
Operating Altitude	02000 m	
Storage Altitude	03000 m	
Vibration Resistance	3.5 mm at 58.4 Hz on DIN rail	
	3 gn at 8.4150 Hz on DIN rail	
	3.5 mm at 58.4 Hz on panel	
	3 gn at 8.4150 Hz on panel	
nock Resistance 15 gn for 11 ms		

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	12.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	245.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm

Package 2 Weight	11.273 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	504
Package 3 Height	105 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	130 kg



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

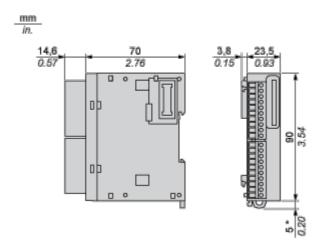
⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information Yes	
Ø	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Dimensions

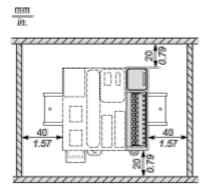


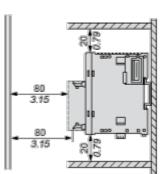
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

TM3DQ16U

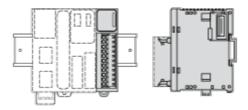
Mounting and Clearance

Spacing Requirements

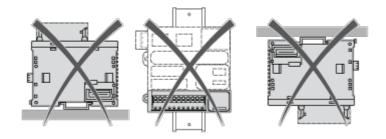




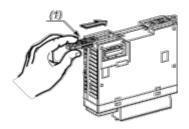
Mounting on a Rail



Incorrect Mounting

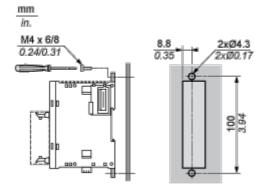


Mounting on a Panel Surface



(1) Install a mounting strip

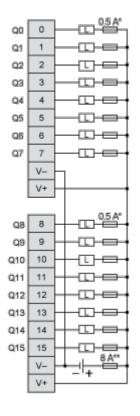
Mounting Hole Layout



Connections and Schema

Digital Transistor Output Module (16-channel, Sink)

Wiring Diagram



- (*) Type T Fuse
- (**) Type F Fuse