Product datasheet

Specifications





Modicon TM3, Discrete output module, 32 outputs transistor PNP (HE10)

TM3DQ32TK

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	32
Discrete Output Logic	Positive logic (source)
Discrete Output Voltage	24 V DC for transistor output
Discrete Output Current	100 mA for transistor output

Complementary

Discrete I/O Number	32	
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) 25 mA at 5 V DC via bus connector (at state on) 40 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	
Maximum Tungsten Load	<1.2 W for transistor output	
Local Signalling	1 LED per channel (green) for output status	
Electrical Connection	HE-10 connectorfor outputs	
Maximum Cable Distance Between Devices	Unshielded cable: <5 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	33.5 mm	
Net Weight	0.112 kg	

Environment

Standards	IEC 61131-2
Product Certifications	cULus CE UKCA RCM EAC cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic Fields	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3 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	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 Disturbances	10 V 0.1580 MHz conforming to IEC 61000-4-6 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 Operation	-1035 °C vertical installation -1055 °C horizontal installation
Ambient Air Temperature For Storage	-2570 °C
Relative Humidity	1095 %, without condensation (in operation) 1095 %, without condensation (in storage)
Ip 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 5…8.4 Hz on DIN rail 3 gn at 8.4…150 Hz on DIN rail 3.5 mm at 5…8.4 Hz on panel 3 gn at 8.4…150 Hz on panel
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	7.525 cm
Package 1 Width	10.661 cm
Package 1 Length	12.89 cm
Package 1 Weight	220.0 g
Unit Type Of Package 2	CAR
Number Of Units In Package 2	42
Package 2 Height	29.6 cm
Package 2 Width	39.6 cm
Package 2 Length	56.4 cm

Package 2 Weight	10.32 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	504
Package 3 Height	75 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	138.4 kg

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

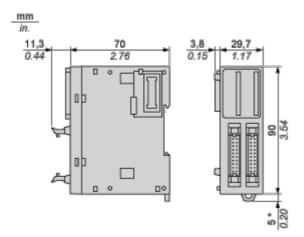
Certifications & Standards

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

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Dimensions Drawings

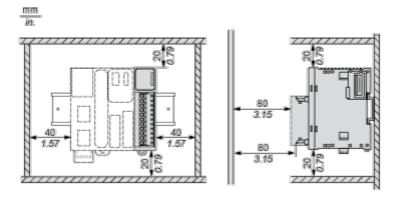
Dimensions



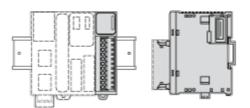
 $(^{*})$ $\,$ 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

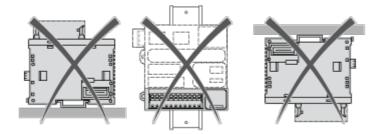
Spacing Requirements



Mounting on a Rail

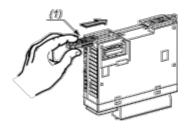


Incorrect Mounting



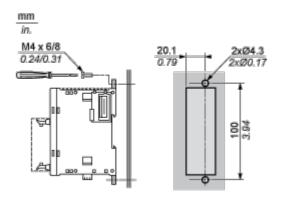
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Mounting on a Panel Surface



(1) Install a mounting strip

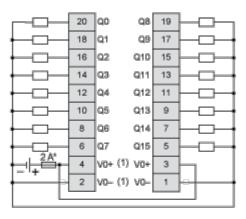
Mounting Hole Layout

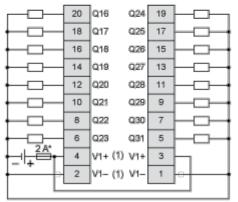


Connections and Schema

Digital Transistor Output Module (32-channel, Source)

Wiring Diagram





(*) Type T fuse

(1) The V0+ terminals are connected internally.

The V0- terminals are connected internally.

The V1+ terminals are connected internally.

The V1- terminals are connected internally.

The V0+ and V1+ terminals are not connected internally.

The V0- and V1- terminals are not connected internally.