Product data sheet Characteristics

TM3DQ32TK

module TM3 - 32 outputs transistor PNP HE10





Main

Range of product	Modicon TM3	4
Product or component type	Discrete output module	ة بر
Range compatibility	Modicon M241 Modicon M251 Modicon M221	5
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

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)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
Product weight	0.112 kg

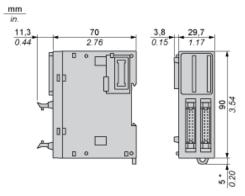
Environment

Standards	EN/IEC 61131-2 EN/IEC 61010-2-201
Product certifications	C-Tick CULus
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3
Resistance to magnetic fields	30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
Resistance to fast transients	1 kV for I/O conforming to EN/IEC 61000-4-4
Surge withstand	1 kV I/O common mode conforming to EN/IEC 61000-4-5 DC
Resistance to conducted disturbances	10 V 0.1580 MHz conforming to EN/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 dB μ V/m QP class A (10 m) at 30230 MHz conforming to EN/ IEC 55011 Radiated emissions - test level: 47 dB μ V/m QP class A (10 m) at 2301000 MHz conforming to EN/ 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 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
Shock resistance	15 gn for 11 ms

Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions

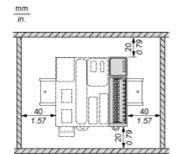


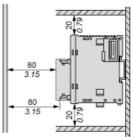
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Product data sheet Mounting and Clearance

TM3DQ32TK

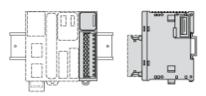
Spacing Requirements



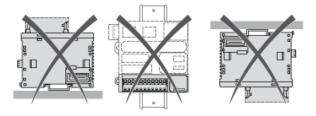


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Mounting on a Rail



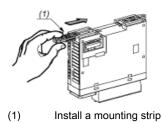
Incorrect Mounting



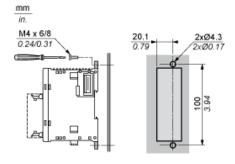
Product data sheet Mounting and Clearance

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Mounting on a Panel Surface

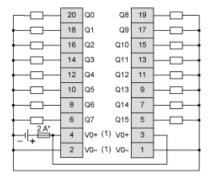


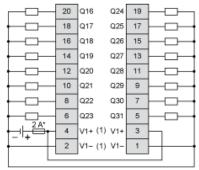
Mounting Hole Layout



Digital Transistor Output Module (32-channel, Source)

Wiring Diagram





- (*) Type T fuse (1) The V0+ term
- 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.