



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

TM3DQ32UK

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	Negative logic (sink)
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

Environment	
Standards	EN/IEC 61010-2-201 EN/IEC 61131-2
Product certifications	cULus C-Tick
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	220 g
Package 1 Height	7.594 cm
Package 1 width	10.647 cm
Package 1 Length	12.775 cm
Unit Type of Package 2	CAR
Number of Units in Package 2	9
Package 2 Weight	2.411 kg
Package 2 Height	15.5 cm
Package 2 width	29.7 cm
Package 2 Length	40.2 cm

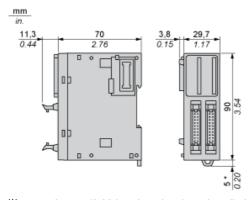
Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
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
PVC free	Yes
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

TM3DQ32UK

Dimensions Drawings

Dimensions

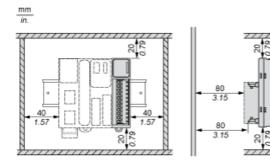


(*) 8.5 mm/0.33 in. when the clamp is pulled out.

TM3DQ32UK

Mounting and Clearance

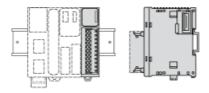
Spacing Requirements



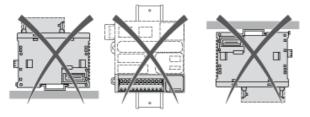
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Mounting and Clearance

Mounting on a Rail



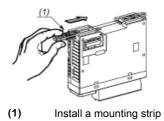
Incorrect Mounting



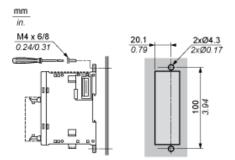
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Mounting and Clearance

Mounting on a Panel Surface



Mounting Hole Layout

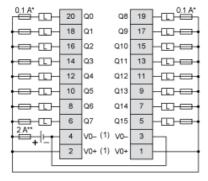


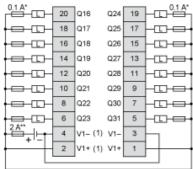
TM3DQ32UK

Connections and Schema

Digital Transistor Output Module (32-channel, Sink)

Wiring Diagram





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