TM3DQ32UK

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





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

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
Package 1 Height Package 1 width	75.000 mm 105.000 mm
Package 1 Length	125.000 mm
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) EVEL 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

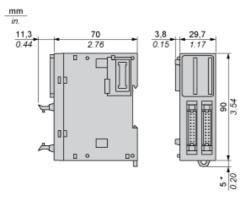
Yes

PVC free

Product data sheet Dimensions Drawings

TM3DQ32UK

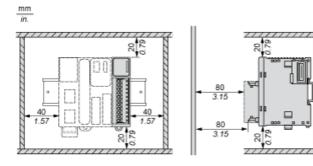
Dimensions



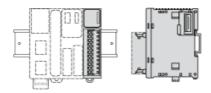
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

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Spacing Requirements



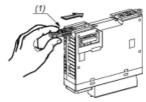
Mounting on a Rail



Incorrect Mounting

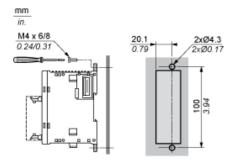


Mounting on a Panel Surface



(1) Install a mounting strip

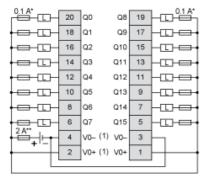
Mounting Hole Layout

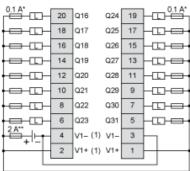


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Digital Transistor Output Module (32-channel, Sink)

Wiring Diagram





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