TM3DQ8R

discrete output module, Modicon TM3, 8 relay outputs, screw, 24V DC





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	Relay normally open
Discrete output number	8
Discrete output logic	Positive or negative
Discrete output voltage	24 V DC for relay output 240 V AC
Discrete output current	2000 mA for relay output

Complementary

Complementary	
Discrete I/O number	8
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) 40 mA at 24 V DC via bus connector (at state on) 30 mA at 5 V DC via bus connector (at state on)
Response time	10 ms (turn-on) 5 ms (turn-off)
Mechanical durability	20000000 cycles
Minimum load	10 mA at 5 V DC for relay output
Local signalling	1 LED per channel (green) for output status
Electrical connection	11 x 2.5 mm² removable screw terminal block with pitch 5.08 mm adjustment for outputs
Maximum cable distance between devices	Unshielded cable: <30 m for relay output
Insulation	Between output and internal logic at 2300 V AC Between outputs at 750 V AC Between output groups at 1500 V AC
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	84.6 mm
Width	27.4 mm
Net weight	0.11 kg

Environment

Standards	IEC 61131-2
Product certifications	CE[RETURN]cULus[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]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	2 kV for relay output conforming to IEC 61000-4-4

The information provided in this docume Ration contains general descriptions and/or technical characteristics of the performance of the products contained herein.

This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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
resistance to conducted 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 dB μ V/m QP class A (10 m) at 30230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dB μ V/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 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

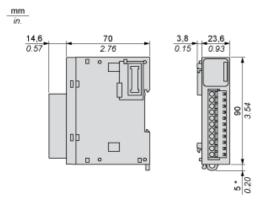
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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.519 cm
Package 1 Width	10.487 cm
Package 1 Length	12.849 cm
Package 1 Weight	240.0 g
Unit Type of Package 2	CAR
Number of Units in Package 2	42
Package 2 Height	29.4 cm
Package 2 Width	39.7 cm
Package 2 Length	56.0 cm
Package 2 Weight	10.95 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

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)
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
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

Dimensions

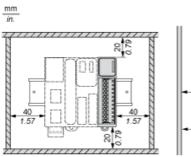


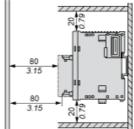
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Product data sheet Mounting and Clearance

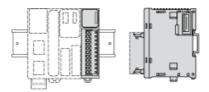
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Spacing Requirements

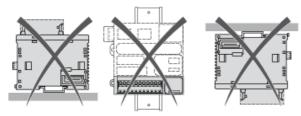




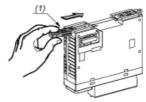
Mounting on a Rail



Incorrect Mounting

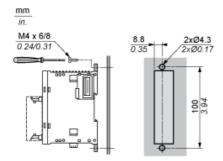


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

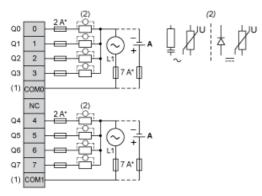


Product data sheet Connections and Schema

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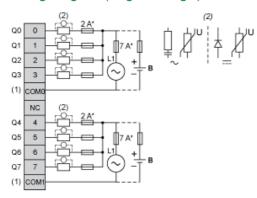
Digital Relay Output Module (8-channel)

Wiring Diagram (Positive Logic)



- (*) Type T Fuse
- (1) The COM0 and COM1 terminals are not connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in parallel to each inductive DC load or an RC snubber in parallel of each inductive AC load.
- (A) Source wiring (positive logic)

Wiring Diagram (Negative Logic)



- (*) Type T fuse
- (1) The COM0 and COM1 terminals are not connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in parallel to each inductive DC load or an RC snubber in parallel of each inductive AC load.
- (B) Sink wiring (negative logic)