

Product datasheet

Specifications



discrete I/O module, Modicon TM3,
16 IO, 8 digital inputs, 8 digital
outputs, screw

TM3RDM16R

Main

Range of product	Modicon TM3
Product or component type	Discrete I/O module
Range compatibility	Modicon Easy M200
Discrete input number	8
Discrete input voltage	24 V DC
Discrete input logic	Sink or source (positive/negative)
Discrete output logic	Positive or negative

Complementary

Discrete input number	8 conforming to IEC 61131-2 Type 1
Discrete input current	5 mA input
Voltage state 1 guaranteed	Input: 15...28.8 V
Voltage state 0 guaranteed	0...5 V input
Current state 1 guaranteed	≥ 2.5 mA input
Current state 0 guaranteed	≤ 1 mA input
Input impedance	4.7 kOhm
Discrete output number	8 at 24 V DC at 240 V AC
Discrete output current	2000 mA relay output
Mechanical durability	20000000 cycles
Typical current consumption	70 mA at 5 V DC 40 mA at 24 V DC
Electrical connection	11 x 1.5 mm ² removable screw terminal block with pitch 3.81 mm adjustment for outputs 9 x 1.5 mm ² removable screw terminal block with pitch 3.81 mm adjustment for inputs
Maximum cable distance between devices	Unshielded cable: <50 m for input Unshielded cable: <150 m for output
Local signalling	1 LED per channel (green) for I/O state
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
Width	27.4 mm
Depth	84.6 mm
Net weight	0.118 kg

Environment

Protective treatment	None
Marking	CE
Ambient air temperature for operation	0...55 °C (horizontal installation)
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation for operation 10...95 % without condensation for storage
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	3.5 mm (f = 5...8.4 Hz) on DIN rail 3 gn (f = 8.4...150 Hz) on DIN rail 3.5 mm (f = 5...8.4 Hz) on panel mounting 3 gn (f = 8.4...150 Hz) on panel mounting
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	12.400 cm
Package 1 Width	7.200 cm
Package 1 Length	10.300 cm
Package 1 Weight	190.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	33
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	6.920 kg
Unit Type of Package 3	P06
Number of Units in Package 3	132
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	35.680 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	77 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	73 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No