

Product data sheet Characteristics

TM2DMM8DRT

Discrete input/output module, Modicon M238 logic controller, 4 inputs 24VDC, 4 outputs relay, 1 terminal block

EAN Code: 3595863995787



Main	
Range of product	Modicon M238 logic controller
Product or component type	Discrete I/O module
Discrete input number	4
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete output number	4
Discrete output type	Relay

Complementary

Complementary	
Range compatibility	Twido Advantys OTB
Input voltage limits	20.428.8 V
Discrete input logic	Sink or source
Discrete input current	7 mA
Input impedance	3.4 kOhm
Discrete output function	1 NO
Current per channel	2 A
Maximum current per output common	7 A
Number of common point	1 for output 1 for input
Contact resistance	45 mOhm
Response time	<= 10 ms from state 0 to state 1 for output <= 5 ms from state 1 to state 0 for output 4 ms at state 0 for input 4 ms at state 1 for input
Minimum switching current	0.1 mA at 0.1 V DC
Isolation between channels	None
Isolation between channels and internal logic	2300 V for 1 minute (output) 500 V for 1 minute (input)
Isolation between input channel and output channel	1500 V for 1 minute
Isolation between output channels group	1500 V for 1 minute
Mechanical durability	20000000 cycles
Electrical durability	100000 Cycles 0.5 A AC-15 240 V AC cos phi = 0.35 inductive 100000 Cycles 1 A AC-15 240 V AC cos phi = 0.7 inductive 100000 Cycles 1 A DC-13 24 V DC inductive (L/R = 7 ms) 100000 Cycles 2 A 240 V AC resistive 100000 cycles 2 A 30 V DC resistive
Current consumption	20 mA at 24 V DC at state 1 for all input/output 25 mA at 5 V DC at state 1 for all input/output
Local signalling	1 display block
Electrical connection	1 removable screw terminal block
Mounting support	35 mm symmetrical DIN rail
Net weight	0.095 kg

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Environment

Depth	70 mm
Height	90 mm
Width	42.9 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	11 cm
Package 1 Length	13 cm
Package 1 Weight	192 g
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.274 kg

Offer Sustainability

REACh Regulation	☑ REACh Declaration			
REACh free of SVHC	Yes			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Mercury free	Yes			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information	€Yes			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
PVC free	Yes			

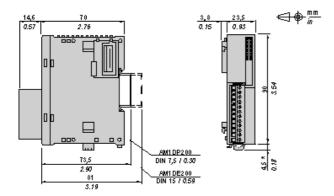
Contractual warranty

Warranty	18 months

TM2DMM8DRT

Digital Mixed I/O Module (8-channel)

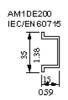
Dimensions



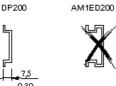
NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

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DIN Rail Mounting







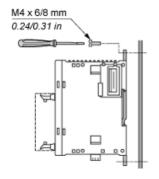


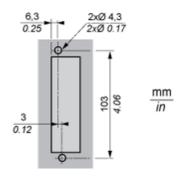
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout





Product data sheet Connections and Schema

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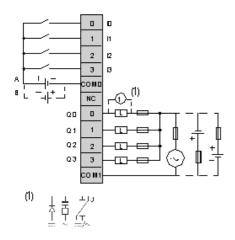
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

0.35 mm in.	11	A A	H				<u>W</u>
mm ²	0,141,5	0,250,5	0,251,5	0,140,5	0,140,75	0,250,34	0,5
AWG	2616	2420	2416	2620	2618	2422	20

Digital Mixed I/O Module (8-channel)

Wiring Diagram



- A Sink wiring (positive logic)
- B Source wiring (negative logic)
- L Load

Fuse value for the load: 2 A

Fuse value for the power supply: 7 A