

Product data sheet Characteristics

TM2DMM24DRF

Discrete I/O module, Modicon M238 logic controller, 16 inputs 24 V DC, 8 output relay, terminal block



Main			
Range of product	Modicon M238 logic controller		
Product or component type	Discrete I/O module		
Discrete input number	16		
Discrete input voltage	24 V		
Discrete input voltage type	DC		
Discrete output number	8		
Discrete output type	Relav		

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	2 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	45 mA at 24 V DC at state 1 for all input/output 65 mA at 5 V DC at state 1 for all input/output				
Local signalling	1 display block				
Electrical connection	1 spring terminal block				
Mounting support	35 mm symmetrical DIN rail				
Net weight	0.14 kg				

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 cm	
Package 1 Width	10.5 cm	
Package 1 Length	12.5 cm	
Package 1 Weight	230 g	

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				

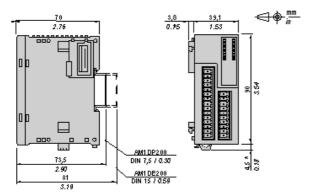
Contractual warranty

Warranty	18 months

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Digital Mixed I/O Module (24-channel)

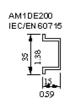
Dimensions



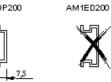
NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

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DIN Rail Mounting







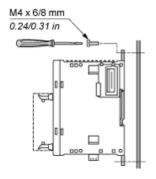


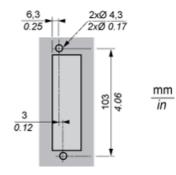
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout





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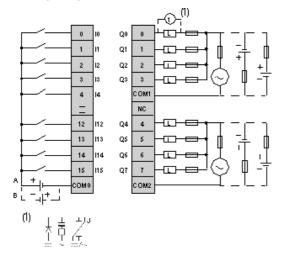
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

0.35 mm in.	11	Å	H				
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 (24-channel)

Wiring Diagram



A Sink wiring (positive logic)

B Source wiring (negative logic)

Fuse value for the load: 2 A

Fuse value for the power supply: 7 A