

Product data sheet

Specifications



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

TM2DMM24DRF

⚠ Discontinued on: Jan 23, 2021

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Product availability: Non-Stock - Not normally stocked in distribution facility

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	Relay

Complementary

Range Compatibility	Twido Advantys OTB
Input voltage limits	20.4...28.8 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 output <= 5 ms from state 1 to state 0 output 4 ms at state 0 input 4 ms at state 1 input
Minimum switching current	0.1 mA 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 24 V DC at state 1 for all input/output 65 mA 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	0.31 lb(US) (0.14 kg)

Environment

Depth	2.8 in (70 mm)
Height	3.5 in (90 mm)
Width	1.7 in (42.9 mm)

Ordering and shipping details

Category	US1PC1222531
Discount Schedule	PC12
GTIN	3595863995770
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7 cm)
Package 1 Width	4.1 in (10.5 cm)
Package 1 Length	4.9 in (12.5 cm)
Package weight(Lbs)	8.1 oz (230 g)

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 >](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label

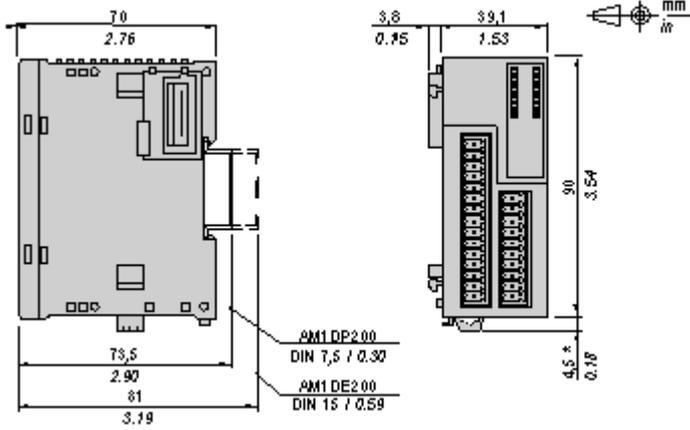


The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Digital Mixed I/O Module (24-channel)

Dimensions

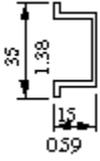


NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

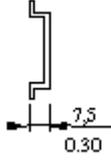
Mounting and Clearance

DIN Rail Mounting

AM1DE200
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200

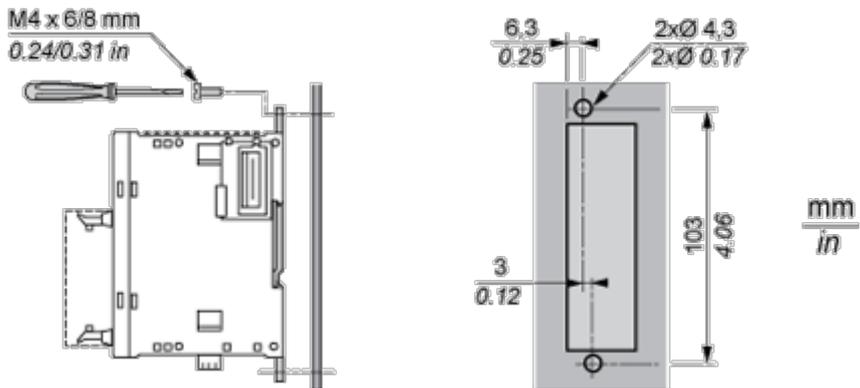


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

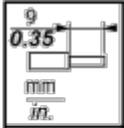
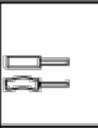
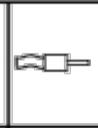
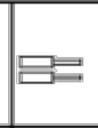
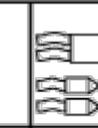
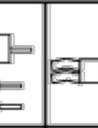
Mounting Hole Layout



Connections and Schema

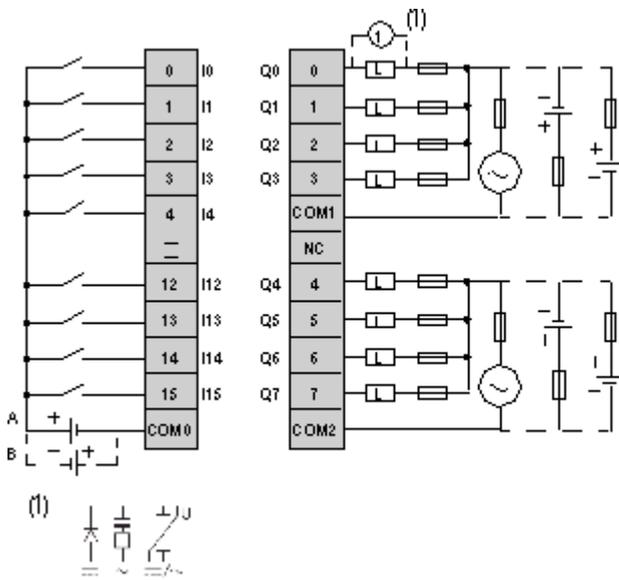
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm ²	0,14...1,5	0,25...0,5	0,25...1,5	0,14...0,5	0,14...0,75	0,25...0,34	0,5
AWG	26...16	24...20	24...16	26...20	26...18	24...22	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