Product data sheet

Specifications



I/O expansion module, Modicon M238 logic controller, Twido, 8 outputs relay, 1 removable screw terminal block, wear part

TM2DRA8RT

Discontinued - Service only

Discontinued on: Dec 1, 2020

End-of-service on: Jun 30, 2024

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

Main

Range of Product	Modicon M238 logic controller
Product or Component Type	I/O expansion module
Discrete output number	8
Discrete output type	Relay

Complementary

Range Compatibility	Twido Advantys OTB
Discrete output function	1 NO
Current per channel	2 A
Maximum current per output common	7 A
Number of common point	2
Contact resistance	45 mOhm
Response time	<= 10 ms from state 0 to state 1 input <= 5 ms from state 1 to state 0 input
Minimum switching current	0.1 mA 0.1 V DC
Isolation between channels	1500 V for 1 minute
Isolation between channels and internal logic	2300 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	30 mA 5 V DC at state 1 for all output 40 mA 24 V DC at state 1 for all output
Local signalling	1 display block
Electrical connection	1 removable screw terminal block
Mounting Support	35 mm symmetrical DIN rail
Product Weight	0.24 lb(US) (0.11 kg)

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

Disclaimer: 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

Environment

Depth	3.3 in (84.6 mm)
Height	3.5 in (90 mm)
Width	1.07 in (27.3 mm)

Ordering and shipping details

Category	US1PC1222531
Discount Schedule	PC12
GTIN	3595863995930
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.0 in (7.5 cm)
Package 1 Width	4.1 in (10.5 cm)
Package 1 Length	4.9 in (12.5 cm)
Package weight(Lbs)	7.2 oz (203.0 g)

Contractual warranty

Warranty (in months)	18

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	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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

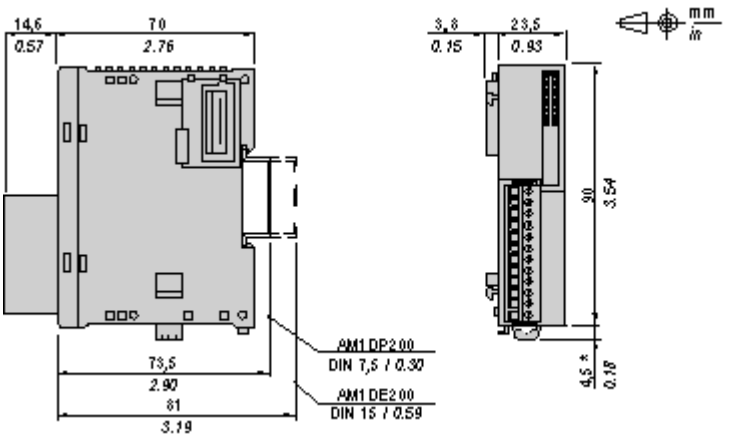
Repack and remanufacture

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 Relay Output Module (8-contact)

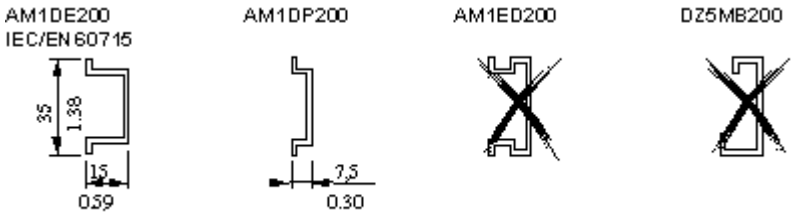
Dimensions



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

Mounting and Clearance

DIN Rail Mounting

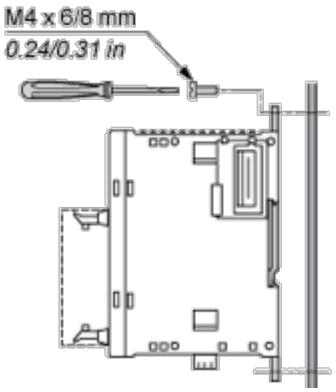


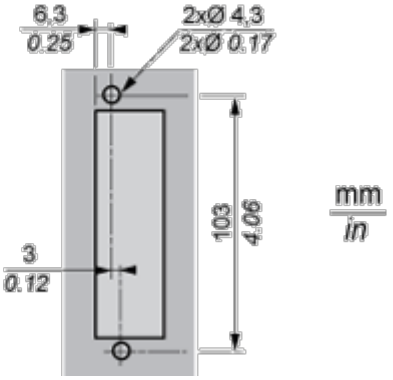
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout

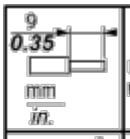
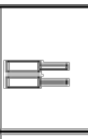
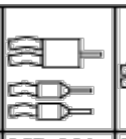
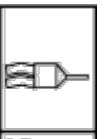




Connections and Schema

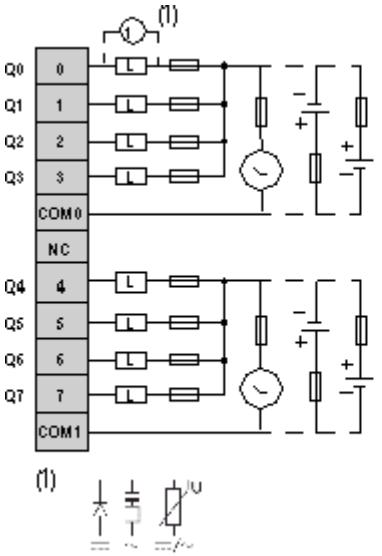
Wiring Requirements

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 Relay Output Module (8-contact)

Wiring Diagram



L Load

Fuse value for the load: 7 A