

## Product data sheet

### Characteristics

# TM2DRA16RT

I/O expansion module, Modicon M238 logic controller, Twido, 16 outputs relay, 1 removable screw terminal block, wear part

EAN Code: 3595863995985



### Main

Range of product	Modicon M238 logic controller
Product or component type	I/O expansion module
Discrete output number	16
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	8 A
Number of common point	2
Contact resistance	45 mOhm
Response time	<= 10 ms from state 0 to state 1 for input <= 5 ms from state 1 to state 0 for input
Minimum switching current	0.1 mA at 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 at 5 V DC at state 1 for all output 40 mA at 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
Net weight	0.145 kg

### Environment

Depth	84.6 mm
Height	90 mm
Width	27.3 mm

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.461 cm
Package 1 Width	10.469 cm
Package 1 Length	12.445 cm
Package 1 Weight	238.4 g
Unit Type of Package 2	S01
Number of Units in Package 2	5
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.342 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	25
Package 3 Height	29.9 cm
Package 3 Width	39.8 cm
Package 3 Length	25 cm
Package 3 Weight	6.567 kg

## Offer Sustainability

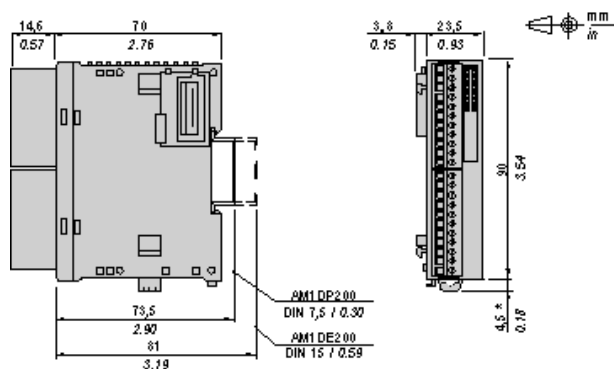
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
WEEE	The product must 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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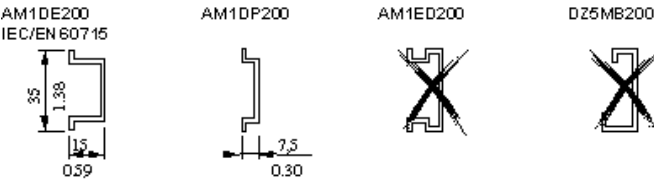
Digital Relay Output Module (16-contact)

Dimensions



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

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

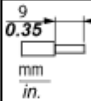
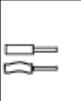
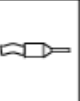
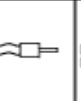

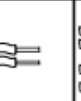
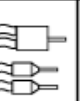
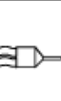
Module Mounting on a Panel Surface

Mounting Hole Layout



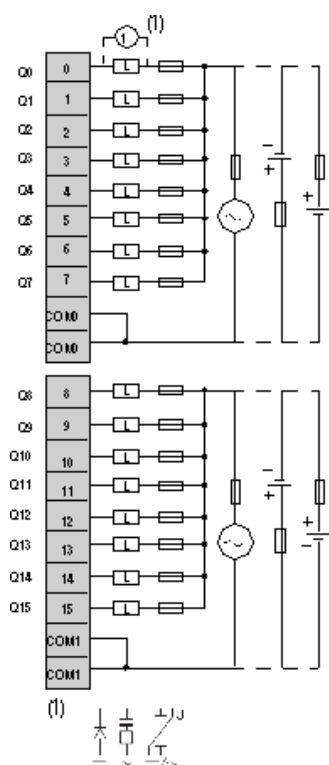
## Wiring Requirements

### Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm <sup>2</sup>	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 (16-contact)

### Wiring Diagram



L Load