

Product data sheet

Specifications



discrete output module Modicon Quantum - 12 O - 24..125 V DC

140DDO88500

⚠ To be discontinued on: 31 December 2022

⚠ To be end-of-service on: 31 December 2030

⚠ To be discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Dc discrete output module
Discrete output number	12

Complementary

Group of channels	2 groups of 6
Discrete output logic	Negative logic (sink)
Addressing requirement	1 input word 1 output word
Discrete output voltage	24...125 V DC
Output voltage limits	19.2...156.2 V
Maximum load current	<= 3 A at 0...60 °C each group <= 6 A at 0...60 °C per module <= 0.75 A at 0...40 °C each point
Surge current	4 A for 1 ms
Response time	1 ms at state 0 to state 1 1 ms at state 1 to state 0
Short-circuit protection	With
Output overvoltage protection	By varistor per group
Load inductance	No limit (protected by diode)
Maximum tungsten load	41 W 115 V 46 W 130 V 8 W 24 V
Switching frequency	<= 50 Hz
Fault indication	Overcurrent
Isolation between channels and bus	2500 Vrms DC for 1 minute
Isolation between group	1200 Vrms DC for 1 minute
Protection type	Internal output protection by 4 A fuse
Power dissipation	1 W + (0.77 x all points on)
Marking	CE
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F)

	16 LEDs (green) for input status
Bus current requirement	375 mA 6 outputs at state 1 650 mA 12 outputs at state 1
Module format	Standard
Net weight	0.45 kg

Environment

Product certifications	GOST FM Class 1 Division 2 C-Tick RMRS
Standards	UL 508 CSA C22.2 No 142
Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	515.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	11
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.883 kg

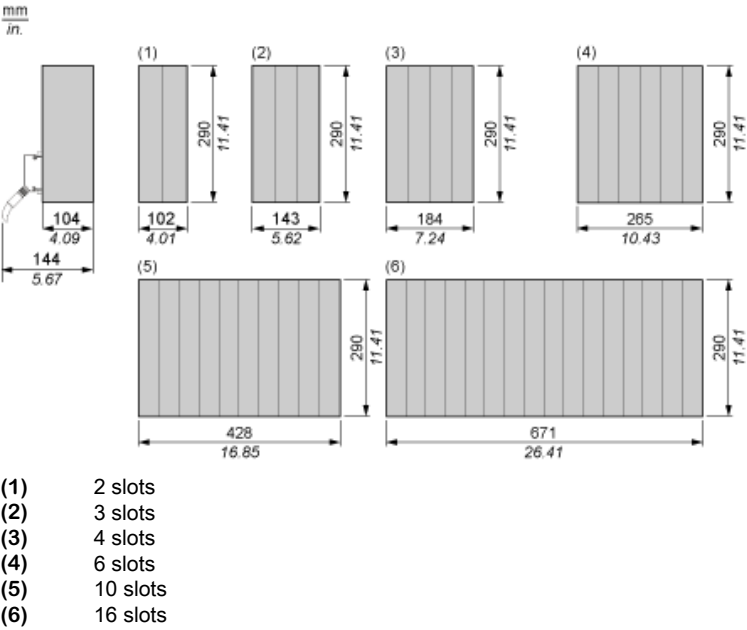
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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
Contractual warranty	
Warranty	18 months

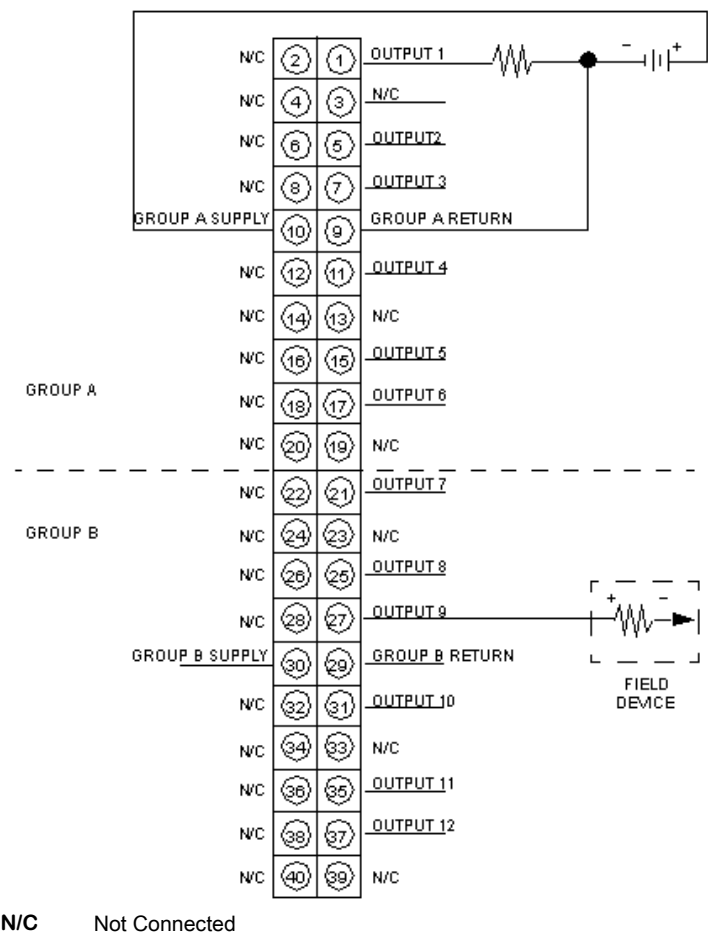
Racks for Modules Mounting

Dimensions of Modules and Racks



24...125 Vdc Discrete Output Source Module

Wiring Diagram



Recommended replacement(s)