

Product data sheet

Specifications



Modicon Quantum discrete output module - 12 O - negative logic - 1 I + 1 O word

140DDO88500C

! Discontinued on: 31 December 2021

! To be end-of-service on: 31 December 2029

! Discontinued - Service only

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

Protective treatment	Conformal coating Humiseal 1A33
Product certifications	GOST C-Tick FM Class 1 Division 2 RMRS
Standards	CSA C22.2 No 142 UL 508
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

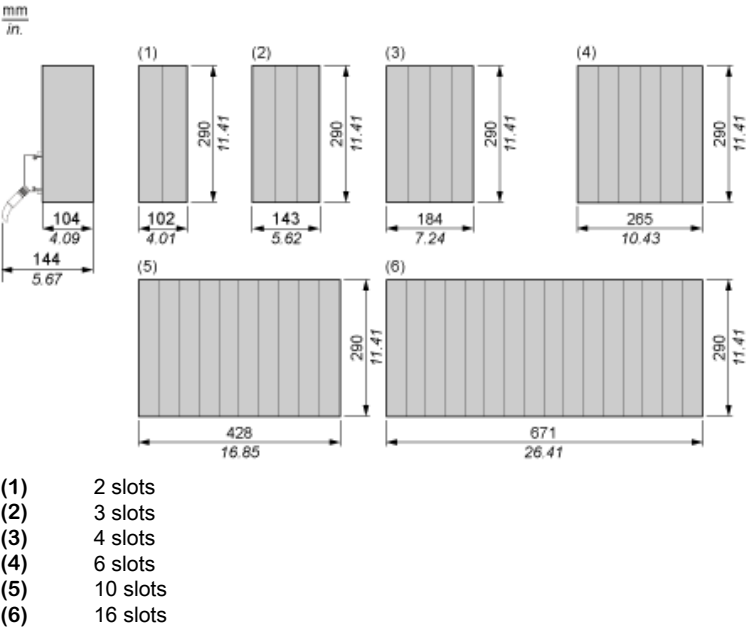
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	515.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.03 kg

Contractual warranty

Warranty	18 months
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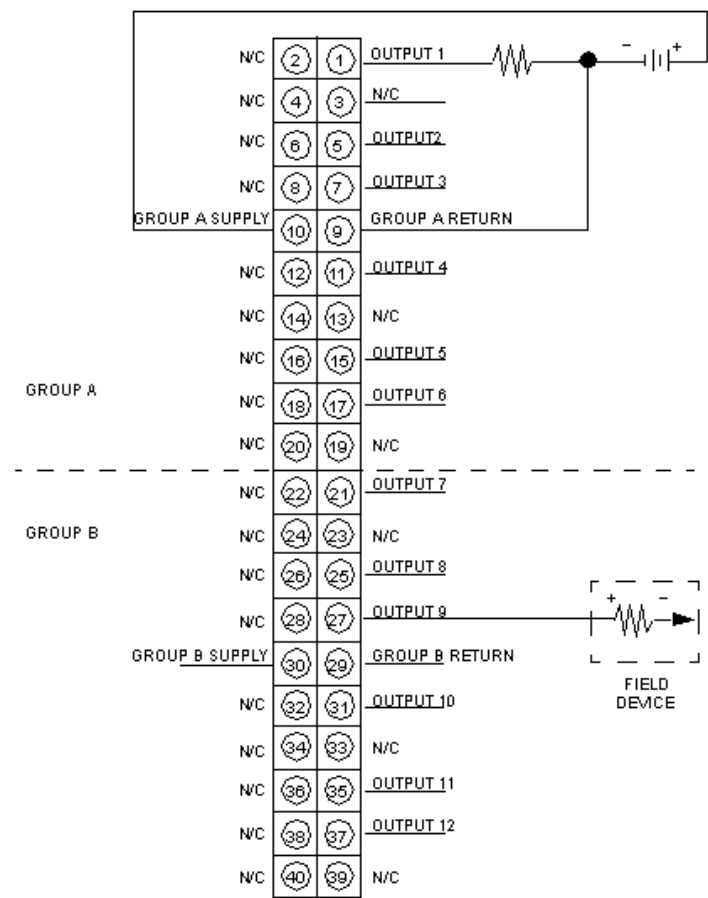
Racks for Modules Mounting

Dimensions of Modules and Racks



24...125 Vdc Discrete Output Source Module

Wiring Diagram



N/C Not Connected

Recommended replacement(s)