

Product data sheet

Specifications



discrete output module Modicon Quantum - 16 O - 20..56 V AC

140DAO84220C

- ❗ 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	AC discrete output modules
Discrete output number	16

Complementary

Group of channels	4 groups of 4 channels
Supply frequency	47...63 Hz
Maximum voltage drop	1.5 V
Discrete output voltage	20...56 V AC
Addressing requirement	1 output word
Absolute maximum output	100 Vrms 1 cycle AC 63 Vrms for 10 s AC 111 Vrms for 1.3 s AC
Maximum load current	16 A rms per module 4 A rms per group 4 A rms 20...56 V per output
Surge current	45 A during 1 cycle per group 25 A during 2 cycles per group 30 A during 3 cycles per group
DV/Dt	400 V/ms
Response time	<= 0.5 ms at state 0 to state 1 <= 0.5 ms at state 1 to state 0
Fault indication	Loss of field power Blown fuse
Protection type	Internal output protection by 5 A fuse Internal by RC filter
Power dissipation	1.85 + (1.1 V x total module load current)
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	350 mA
Module format	Standard
Net weight	0.45 kg

Environment

Protective treatment	Conformal coating Humiseal 1A33
Product certifications	FM Class 1 Division 2 cUL
Standards	UL 508 CSA C22.2 No 142
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 4 kV (contact discharge) conforming to IEC 801-2 Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 801-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 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

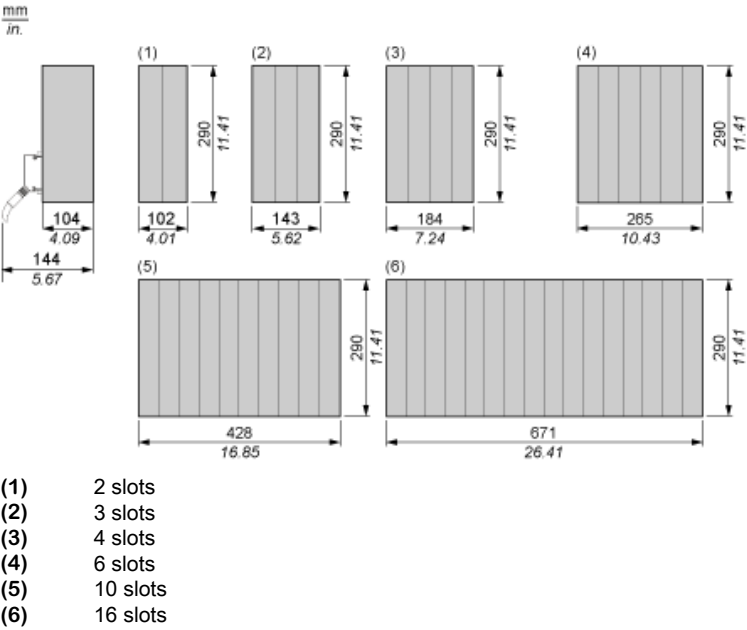
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	16.5 cm
Package 1 Length	31.0 cm
Package 1 Weight	645.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.64 kg

Contractual warranty

Warranty	18 months
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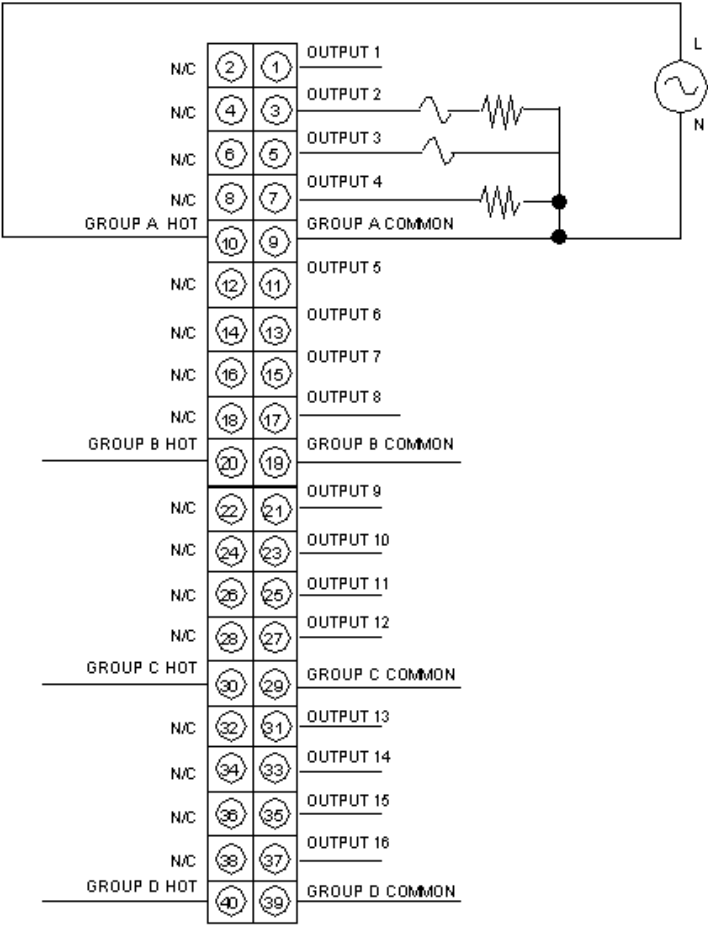
Racks for Modules Mounting

Dimensions of Modules and Racks



24...48 Vac Discrete Output Module

Wiring Diagram



N/C Not Connected

Recommended replacement(s)