

Product datasheet

Specifications



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

Local distributor code:

395516225

140DAO84220

⚠ Discontinued on: 19 May 2023

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

⚠ Discontinued - Service only

EAN Code: 3595861126992

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	Blown fuse Loss of field power
Protection type	Internal by RC filter Internal output protection by 5 A fuse
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

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	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	644.0 g

Contractual warranty

Warranty (in months)	18
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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](#)

Pro-active compliance (Product out of EU RoHS legal scope)

Use Longer



Lifetime extension

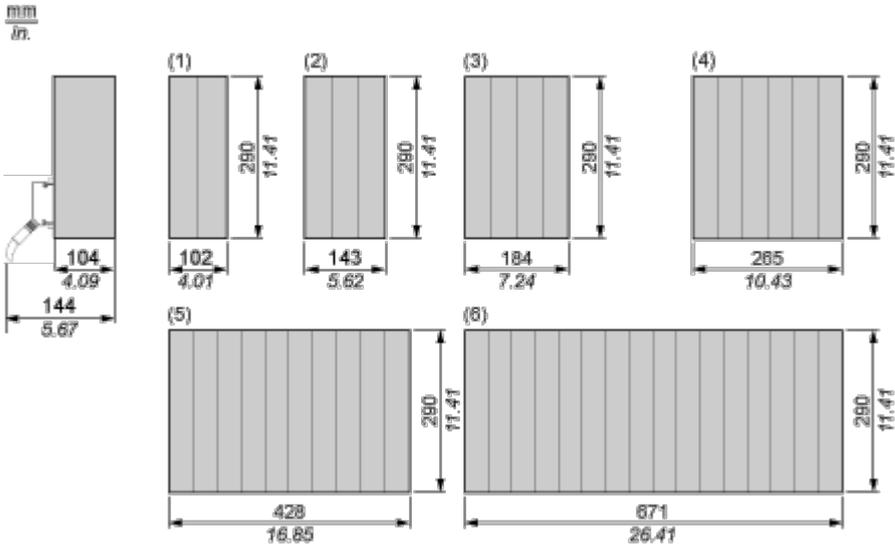
Repair

No

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

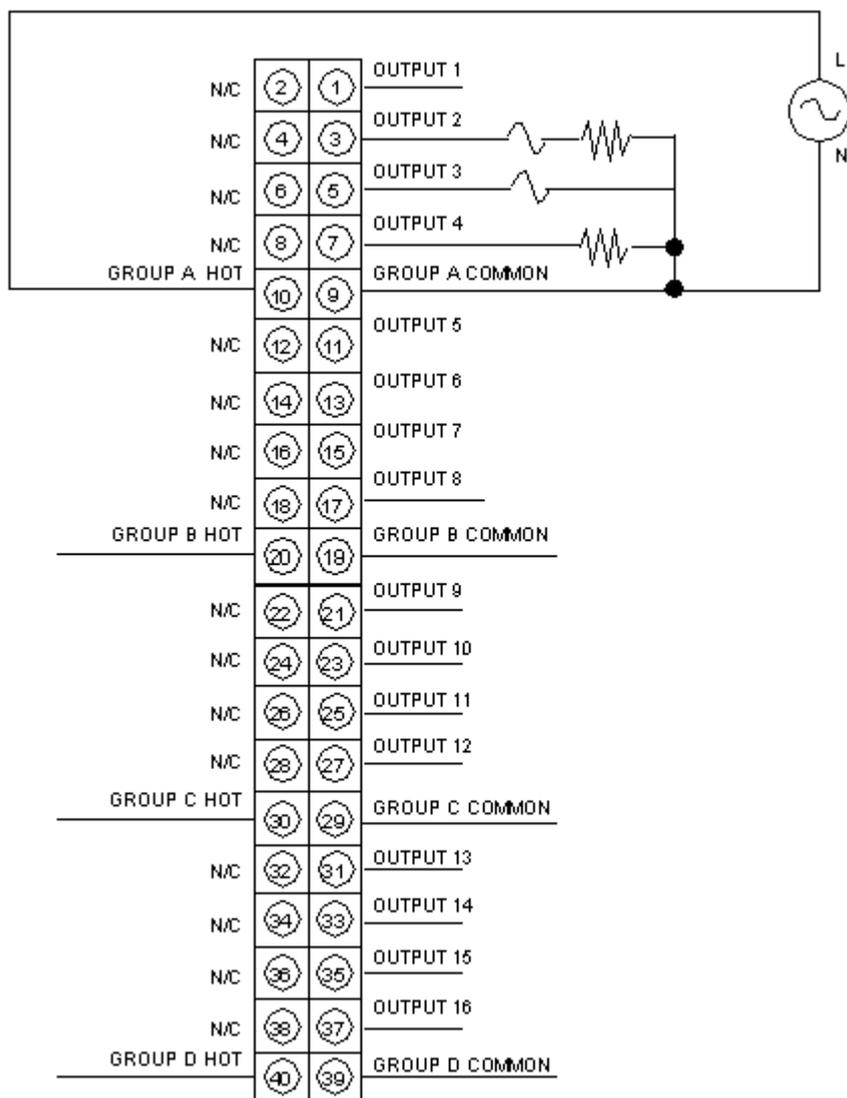


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

24...48 Vac Discrete Output Module

Wiring Diagram



N/C Not Connected