Product data sheet

Specifications



discrete output module Modicon Quantum - 16 O - 83..253 V AC

140DAO84210

Discontinued on: Dec 31, 2022

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

Discontinued - Service only

Product availability: Stock - Normally stocked in distribution facility

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	83...253 V AC
Addressing requirement	1 output word
Absolute maximum output	300 Vrms 10 s AC 400 Vrms 1 cycle AC
Maximum load current	2 mA rms 115 Vrms off state leakage per output 2.5 mA rms 230 Vrms off state leakage per output 3 A rms 170...253 V per output 4 A rms 85...132 V per output 16 A rms per module 4 A rms per group
Surge current	10 A during 3 cycles per point 20 A during 2 cycles per point 30 A during 1 cycle per point 25 A during 3 cycles per group 30 A during 2 cycles per group 45 A during 1 cycle 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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product Weight	0.99 lb(US) (0.45 kg)

Environment

Product Certifications	cUL FM Class 1 Division 2
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	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Relative Humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	US1PC2118155
Discount Schedule	PC21
GTIN	3595861126985
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.4 in (16.3 cm)
Package 1 Width	1.8 in (4.5 cm)
Package 1 Length	12.3 in (31.2 cm)
Package weight(Lbs)	22.4 oz (634.0 g)

Contractual warranty

Warranty (in months)	18

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	Compliant
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

Use Longer

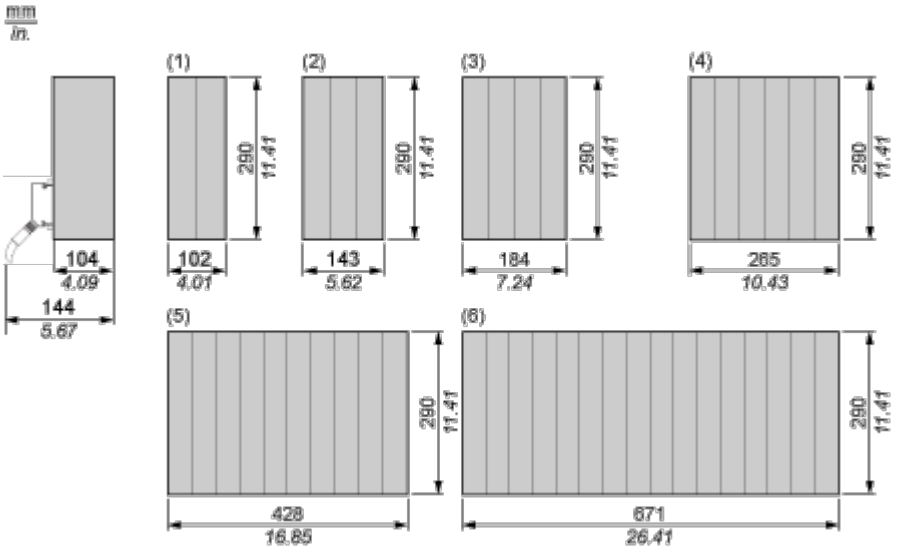
Lifetime extension

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

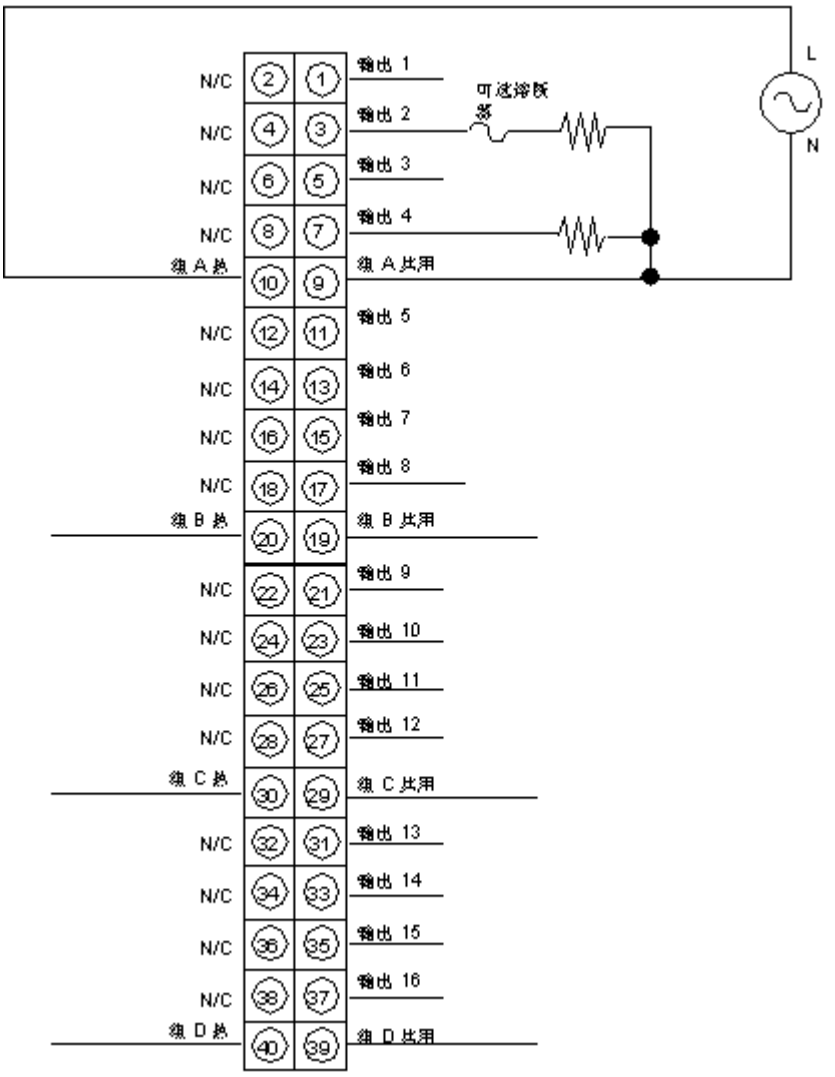
(5) 10 slots

(6) 16 slots

Connections and Schema

100...230 Vac Discrete Output Module

Wiring Diagram



N/C Not Connected