Product data sheet

Specifications

discrete output module Modicon Quantum - 16 O - 20..253 V AC

140DAO84000

Discontinued on: Dec 31, 2022

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

Discontinued - Service only

Main

Range of product	Modicon Quantum automation platform
Product or component type	AC discrete output modules
Discrete output number	16

Complementary

Discrete output type	Isolated
Group of channels	16 groups of 1 channel
Supply frequency	47...63 Hz
maximum voltage drop	1.5 V
Discrete output voltage	20...253 V AC
Addressing requirement	1 output word
Absolute maximum output	300 Vrms for 10 s AC 400 Vrms 1 cycle AC
Maximum load current	1 mA rms 24 Vrms off state leakage per output 1 mA rms 48 Vrms off state leakage per output 2 mA rms 115 Vrms off state leakage per output 2.5 mA rms 230 Vrms off state leakage per output 3 A rms 200...230 V per output 4 A rms 24...115 V per output 16 A rms per module 4 A rms sum of four points, continuous
Surge current	10 A during 3 cycles per point 20 A during 2 cycles per point 30 A during 1 cycle per point
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
Protection type	Internal by RC filter
Power dissipation	1.85 + (1.1 V x total module load current)
Associated fuse rating	5 A
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	0.485 kg

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

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	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	621.0 g

Contractual warranty

Warranty	18 months

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

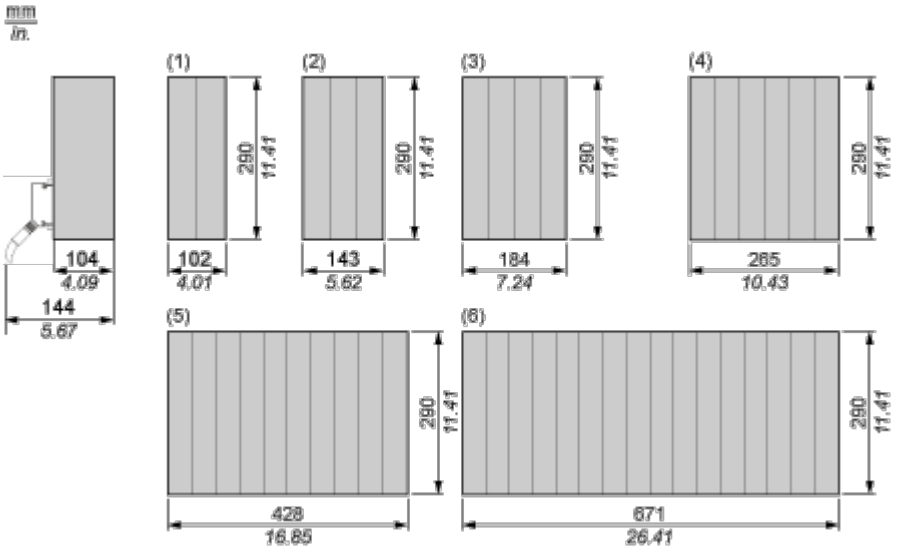
Materials and Substances

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

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



(1) 2 slots

(2) 3 slots

(3) 4 slots

(4) 6 slots

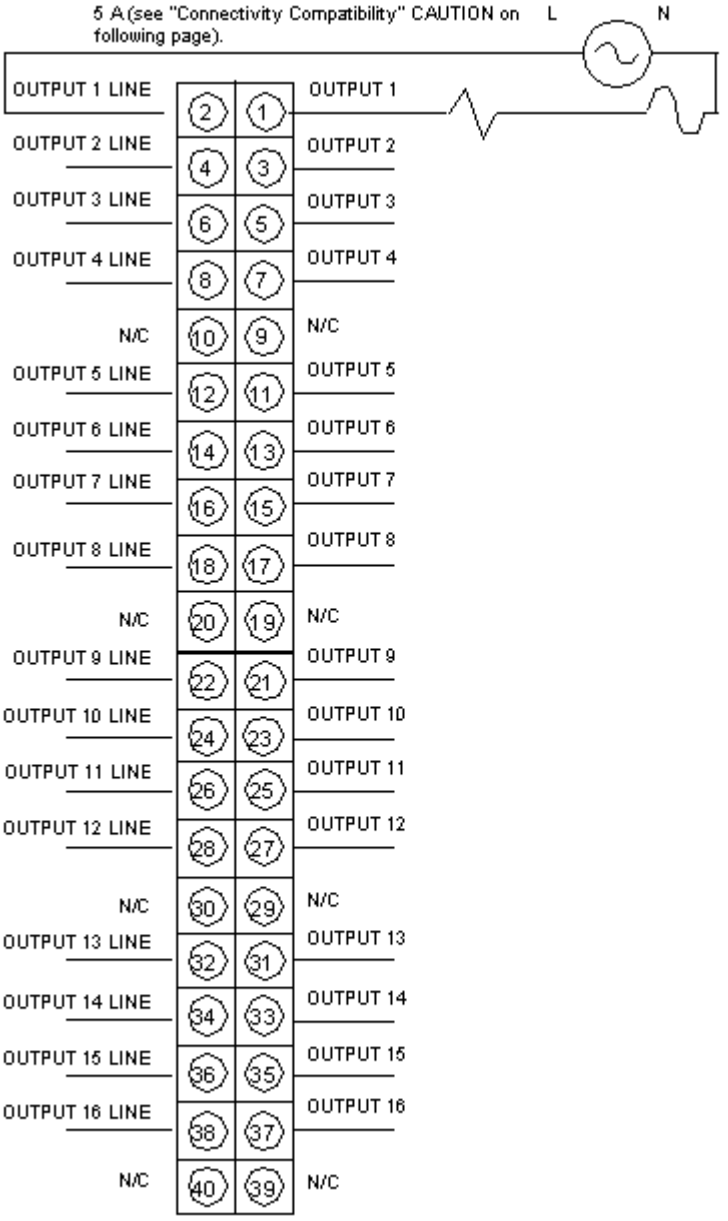
(5) 10 slots

(6) 16 slots

Connections and Schema

24...230 Vac Discrete Output Module

Wiring Diagram



N/C Not Connected