

Product data sheet

Specifications



discrete I/O module Modicon Quantum - 4 I - 125 V DC - 4 O

140DDM69000C

- 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	Mixed discrete I/O module
Discrete I/O number	8

Complementary

Discrete input number	4 1 group of 8
Discrete input logic	Sink
Addressing requirement	1 output word 1 input word
Network frequency limits	47...63 Hz
Discrete input voltage	125 V DC
Input voltage limits	156.2 V including ripple
Voltage state 0 guaranteed	0...36 V
Voltage state 1 guaranteed	88...156.2 V
Current state 0 guaranteed	<= 1.2 mA
Current state 1 guaranteed	>= 2 mA
Response time	0.5 or 1.5 ms depending on the filter at at state 0 to state 1 0.5 or 1.5 ms depending on the filter at at state 1 to state 0
Discrete output number	4 1 group of 4
Discrete output type	Solid state, isolated
Discrete output logic	Source or sink
Discrete output voltage	24...125 V
Output voltage limits	19.2...156.2 V DC typical
Maximum load current	<= 16 A per module <= 4 A per point
Maximum voltage drop	<0.75 V 4 A
Absolute maximum output	30 A during 500 ms per point
Maximum load capacitance	0.1 µF 150 V DC 0.6 µF 24 V DC
Maximum leakage current	1.2 mA 150 V DC

Protection type	On input by resistor limited On output by transient voltage suppression Internal output protection by 5 A fuse per group
Associated fuse rating	5 A
Isolation between group of I/O channels	1780 Vrms for 1 minute
Isolation between group and bus	2500 Vrms for 1 minute
Isolation between channels	1780 Vrms for 1 minute
Fault indication	Overcurrent on output
Power dissipation	0.4 W + (1 x input point on) + (0.75 total output load current)
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for no voltage in output and input (F) 2 LEDs (red) for fault detected on the output point 4 LEDs (green) for output is turned on 4 LEDs (red) for fault detected on the input point
Marking	CE
Bus current requirement	350 mA
Net weight	0.3 kg

Environment

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...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
Protective treatment	Conformal coating Humiseal 1A33
Standards	FM Class 1 Division 2 UL 508 CSA C22.2 No 142
Product certifications	cUL

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	655.0 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	1.665 kg

Offer Sustainability

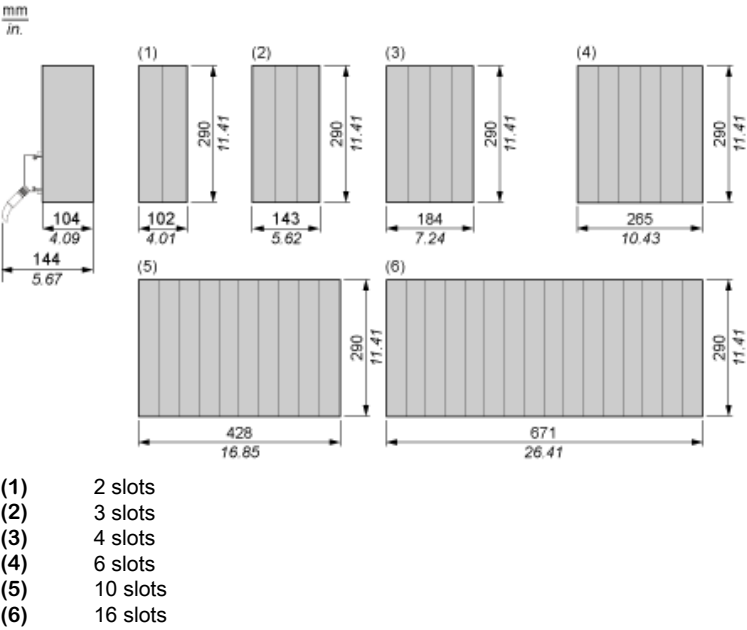
Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty	18 months
----------	-----------

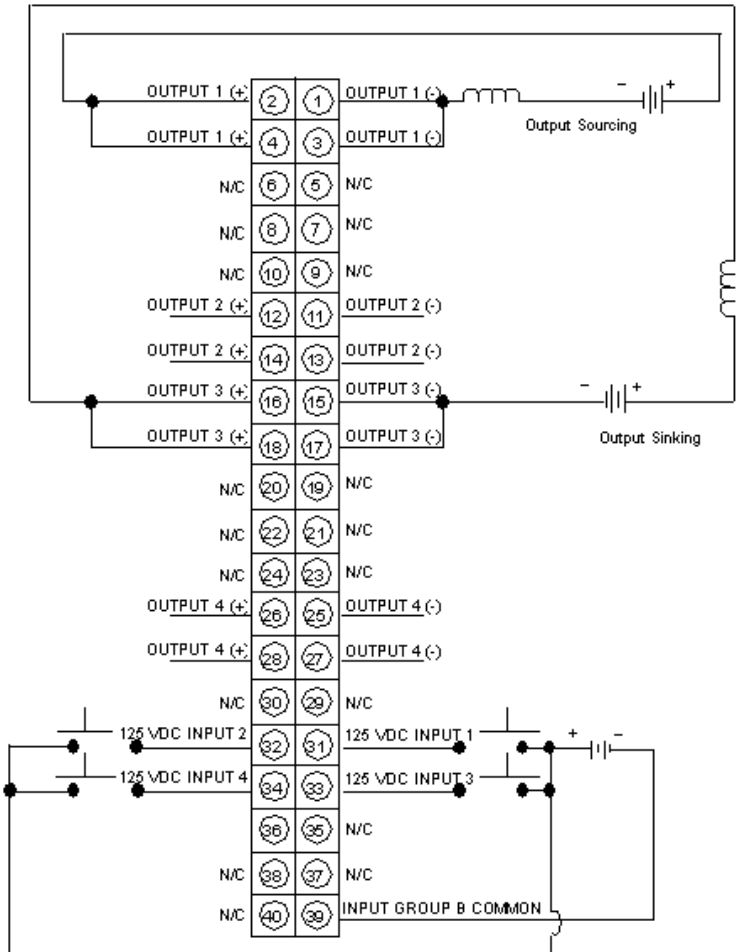
Racks for Modules Mounting

Dimensions of Modules and Racks



125 Vdc Discrete Input/High Power Output Module

Wiring Diagram



N/C Not Connected

Recommended replacement(s)