Product data sheet

Specifications



Discontinued - Service only

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

140DDM69000

Discontinued on: Dec 31, 2022

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

Product availability: Non-Stock - Not normally stocked in distribution facility

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 input word 1 output 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 state 0 to state 1 0.5 or 1.5 ms depending on the filter 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

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

Protection Type	Internal output protection by 5 A fuse per group On output by transient voltage suppression On input by resistor limited
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
Product Weight	0.7 lb(US) (0.3 kg)

Environment

Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 80…1000 MHz 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)
Standards	UL 508 CSA C22.2 No 142 FM Class 1 Division 2
Product Certifications	cUL

Ordering and shipping details

Category	US1PC2118155
Discount Schedule	PC21
GTIN	3595861136939
Returnability	No

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)	23.1 oz (655.0 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

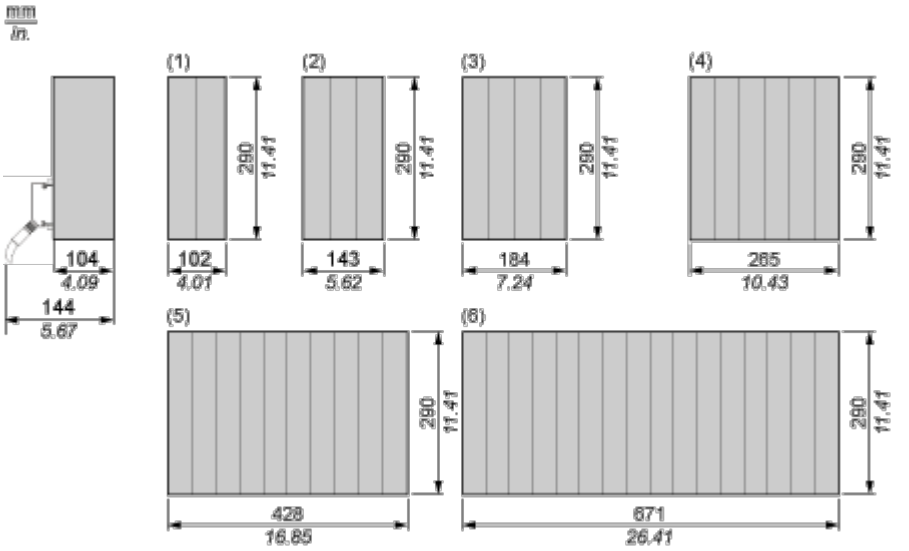
Lifetime extension

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

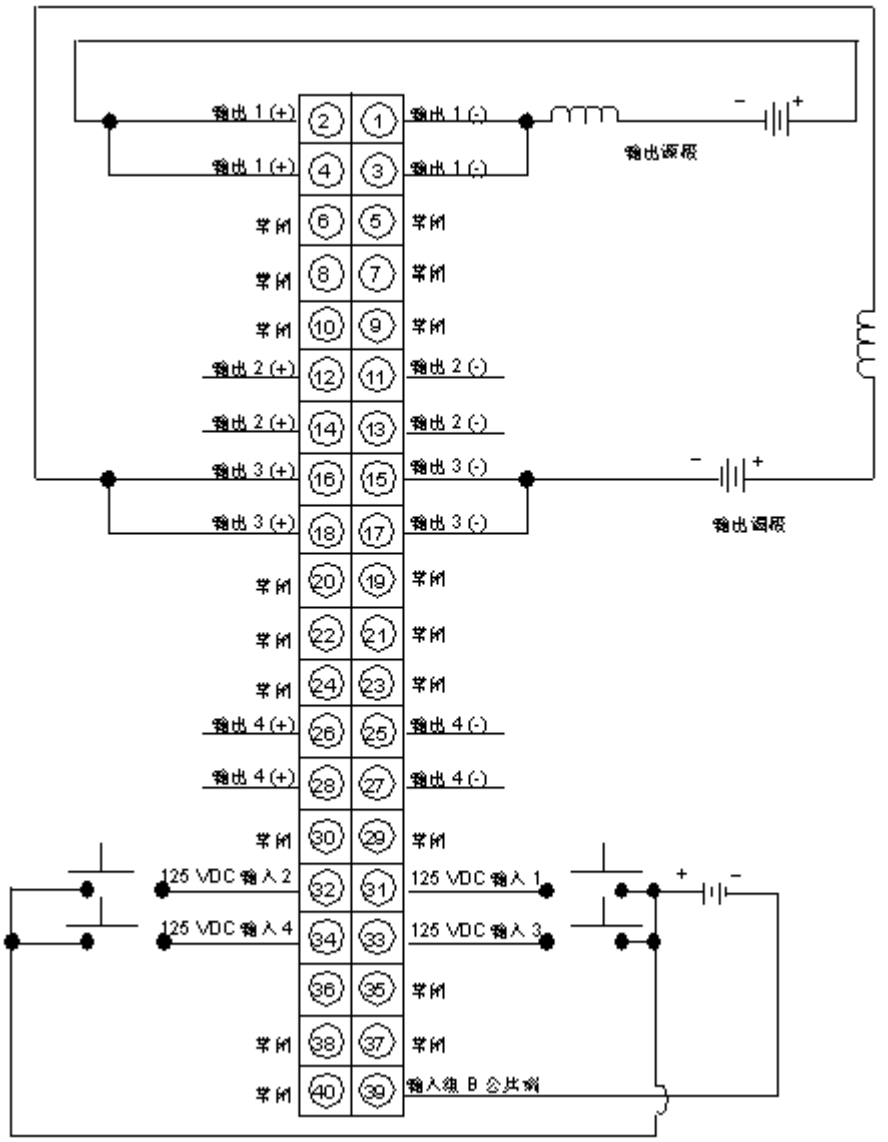
(5) 10 slots

(6) 16 slots

Connections and Schema

125 Vdc Discrete Input/High Power Output Module

Wiring Diagram



N/C Not Connected