Product data sheet

Specifications



Discontinued - Service only

discrete I/O module Modicon Quantum - 16 I - 115 V AC - 8 O solid state

140DAM59000

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	24

Complementary

Discrete input number	16 2 groups of 8
Addressing requirement	1 input word 0.5 output word
Network frequency limits	47…63 Hz
Discrete input voltage	115 V AC
Input voltage limits	156 V during 10 s 200 V during one cycle 132 V typical
Voltage state 0 guaranteed	0...20 V
Voltage state 1 guaranteed	79...132 V 60 Hz 85...132 V 50 Hz
Current state 0 guaranteed	<= 0.5 mA
Current state 1 guaranteed	<= 11 mA 50 Hz <= 13.2 mA 60 Hz
Input impedance	14400 Ohm capacitive
Response time	4.9...0.75 ms at state 0 to state 1 7.3...12.3 ms at state 1 to state 0
Discrete output number	8 2 groups of 4
Discrete output type	Solid state
Discrete output voltage	115 V
Output voltage limits	156 V AC during 10 s 200 V AC during 1 cycle 85...132 V typical AC typical
Minimum load	5 mA
Maximum load current	<= 4 A per point <= 8 A per group <= 8 A per module
Maximum voltage drop	<1.5 V

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

Absolute maximum output	20 A 2 cycles per point 26 A 3 cycles per group 30 A 1 cycle per point 30 A 2 cycles per group 45 A 1 cycle per group 10 A 3 cycles per point
DV/dt	400 V/µs
Maximum leakage current	2.1 mA 115 V AC input circuit 2 mA output circuit
Response time on output	<= 0.5 ms at state 0 to state 1 <= 0.5 ms at state 1 to state 0
Protection Type	On output by RC filter Internal output protection by 5 A fuse per group
Isolation between group	1000 Vrms for 1 minute
Isolation between channels and bus	1780 Vrms for 1 minute
Fault indication	Loss of field power on output Blown fuse on output
Power dissipation	5.5 W + (1.1 x total module load current)
External power requirement	85...132 V AC for output circuit
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for no voltage in output and input (F) 2 LEDs (green) for output is turned on 2 LEDs (red) for fault detected on the input point 2 LEDs (red) for fault detected on the output point
Marking	CE
Bus current requirement	250 mA
Product Weight	0.99 lb(US) (0.45 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	FM Class 1 Division 2 UL 508 CSA C22.2 No 142
Product Certifications	cUL

Ordering and shipping details

Category	US1PC2118155
Discount Schedule	PC21
GTIN	3595861126954
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)	19.8 oz (560.0 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

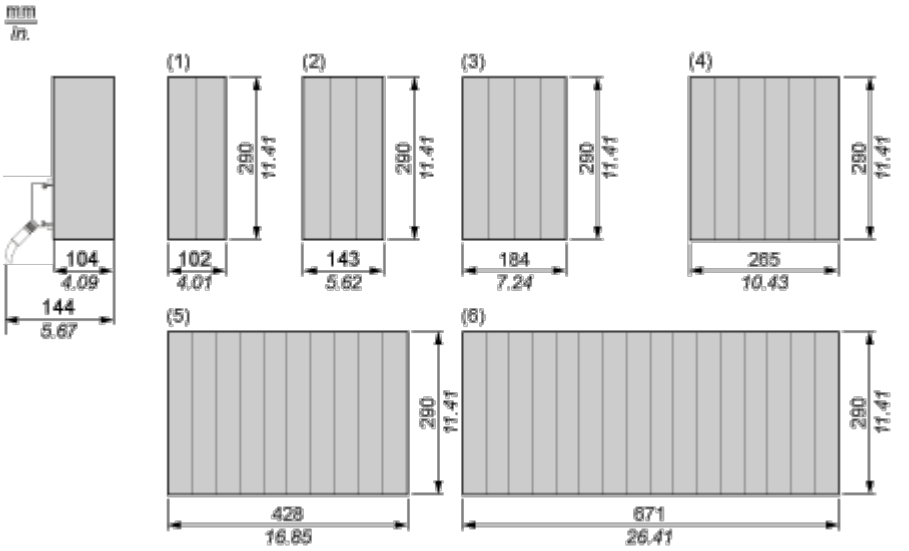
Lifetime extension

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

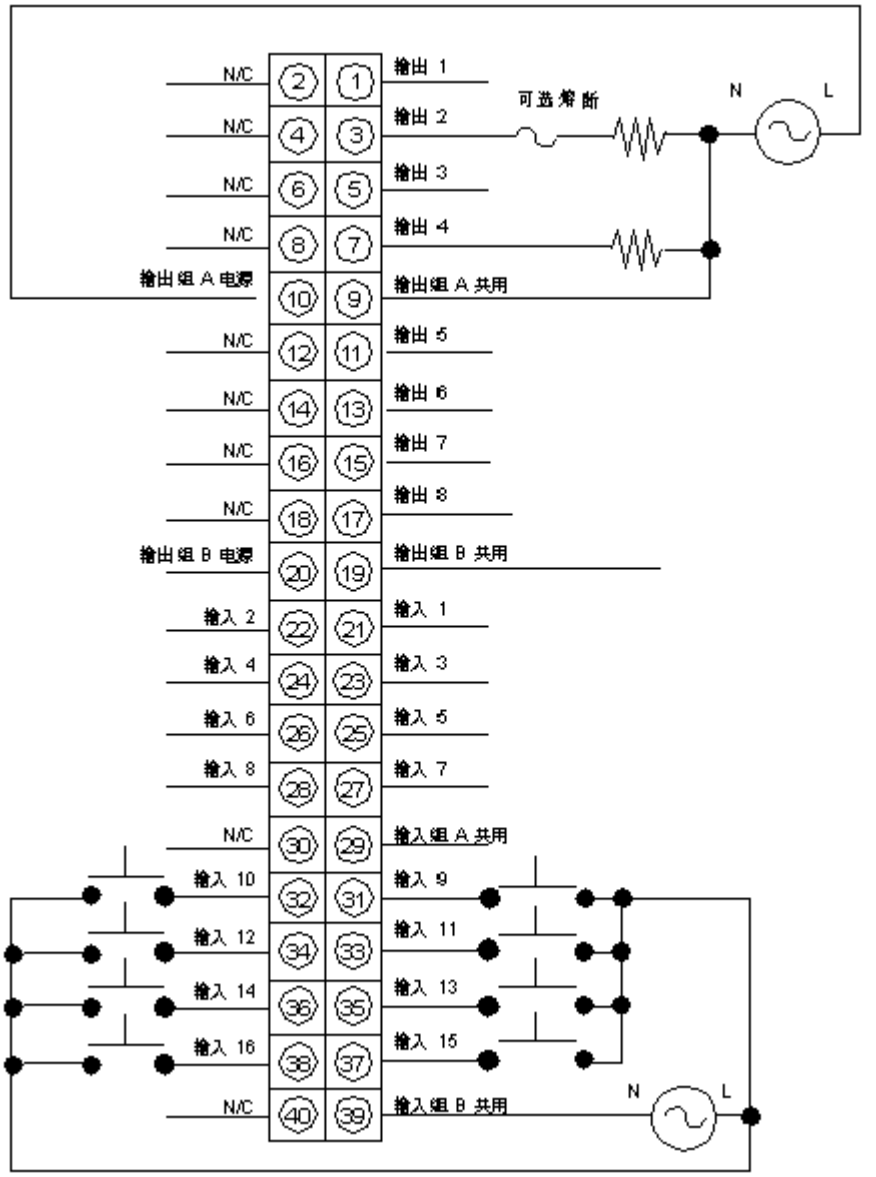
(5) 10 slots

(6) 16 slots

Connections and Schema

115 Vac Discrete Input/Output Module

Wiring Diagram



N/C Not Connected