

Schneider Electric 140DDM39000

discrete I/O module Modicon Quantum - 16 I - 24 V DC - 8 O solid state

140DDM39000

Specifications

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

Discrete input logic

Sink

Addressing requirement

1 input word

0.5 output word

Network frequency limits

47...63 Hz

Discrete input voltage

24 V DC

Input voltage limits

30 V

≤ 1 V during one cycle

56 V during 1.3 ms

≤ 1 V during 10 s

Voltage state 0 guaranteed

-3...5 V

Voltage state 1 guaranteed

15...30 V

Current state 0 guaranteed

≤ 0.5 mA

Current state 1 guaranteed

≥ 2 mA

Input impedance

2500 Ohm

Discrete output number

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8 2 groups of 4
Discrete output type
Solid state
Discrete output logic
Sink
Discrete output voltage
24 V
Output voltage limits
19.2...30 V DC typical
56 V DC during 1.3 ms
Maximum load current
 ≤ 0.5 A per point
 ≤ 2 A per group
 ≤ 4 A per module
Maximum voltage drop
 < 0.4 V 0.5 A
Absolute maximum output
5 A during 500 μ s per point
Maximum load inductance
500 mH 4 Hz
Maximum load capacitance
50 μ F
Maximum leakage current
0.4 mA 30 V DC
Response time on output
 ≤ 1 ms at state 0 to state 1
 ≤ 1 ms at state 1 to state 0
Protection Type
On output by transient voltage suppression
On input by resistor limited
Internal output protection by 5 A fuse per group
Associated fuse rating
5 A per group
Isolation between group
500 Vrms for 1 minute
Isolation between group and bus
1780 Vrms for 1 minute
Fault indication
Blown fuse on output
Loss of field power on output
Power dissipation

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1.75 W + (0.36 x input point on) + (1.1 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 (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

330 mA

Net 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

CSA C22.2 No 142

UL 508

FM Class 1 Division 2

Product Certifications

cUL

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861127036

Returnability

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Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

6.42 in (16.3 cm)

Package 1 Width

1.77 in (4.5 cm)

Package 1 Length

12.28 in (31.2 cm)

Package weight(Lbs)

15.03 oz (426.0 g)

Unit Type of Package 2

S03

Number of Units in Package 2

7

Package 2 Height

11.81 in (30.0 cm)

Package 2 Width

11.81 in (30.0 cm)

Package 2 Length

15.75 in (40.0 cm)

Package 2 Weight

6.700 lb(US) (3.039 kg)

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