

Schneider Service Manual

140DAO84210

3. Product Information

Schneider Electric 140DAO84210

discrete output module Modicon Quantum - 16 O - 83..253 V AC

140DAO84210

Specifications

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

AC discrete output modules

Discrete output number

16

Complementary

Group of channels

4 groups of 4 channels

Supply frequency

47...63 Hz

maximum voltage drop

1.5 V

Discrete output voltage

83...253 V AC

Addressing requirement

1 output word

Absolute maximum output

300 Vrms 10 s AC

400 Vrms 1 cycle AC

Maximum load current

2 mA rms 115 Vrms off state leakage per output

2.5 mA rms 230 Vrms off state leakage per output

3 A rms 170...253 V per output

4 A rms 85...132 V per output

16 A rms per module

4 A rms per group

Surge current

10 A during 3 cycles per point

20 A during 2 cycles per point

30 A during 1 cycle per point

25 A during 3 cycles per group

30 A during 2 cycles per group

45 A during 1 cycle per group

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

Fault indication

Blown fuse

Loss of field power

Protection Type

Internal by RC filter

Internal output protection by 5 A fuse

Power dissipation

$1.85 + (1.1 \text{ V} \times \text{total module load current})$

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

0.99 lb(US) (0.45 kg)

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

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)

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861126985

Returnability

Yes

Country of origin

CN

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)

22.4 oz (634.0 g)