

Schneider Electric 140EHC20200

Modicon Quantum - high-speed counter module - 500000 Hz

140EHC20200

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

High-speed counter module

Number of channels

2

Complementary

Addressing requirement

6 output words

6 input words

Data format

2147483647 dec 32 bits

65535 dec 16 bits

Counting input type

Incremental or quadrature

Counting frequency

500000 Hz

Discrete input voltage

< 30 V

Operating mode

Incremental or quadrature discrete input

Input resistance

10 kOhm discrete input

Operating threshold

0...11 V single ended mode 24 V DC at state off

0...2 V single ended mode 5 V DC at state on

0 V single ended mode 12 V DC at state on

13...24 V single ended mode 24 V DC at state on

2...7 V single ended mode 12 V DC at state off

>= 1.8 V differential mode

3.5...5 V single ended mode 5 V DC at state off

Discrete output number

4

Discrete output type

Field Effect Transistor (FET)

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Discrete output voltage
0 V switch off DC
0.4 V switch on DC
Load current
0.5 A
Maximum leakage current
0.4 mA state off
Maximum voltage drop
<0.4 V state on
Protection type
36 V transorb discrete output
Isolation between channels and bus
1780 Vrms 60 s
Fault type
Loss of output field power
Output short-circuit protection
Blown fuse 2.5 A
Power dissipation
 $4 + (0.4 \times \text{total module load current})$
Bus current requirement
650 mA
External power requirement
19.2...30 V
Rack type
Local
Remote
Distributed
Local signalling
2 LEDs for channel status
Marking
CE
Current consumption
 $\leq 1050 \text{ mA } 24 \text{ V DC external power supply}$
Module format
Standard
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

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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

Product Certifications

C-Tick.1

CSA No 142

FM Class 1 Division 2

UL

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861127104

Returnability

Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.97 in (5.0 cm)

Package 1 Width

6.69 in (17.0 cm)

Package 1 Length

12.60 in (32.0 cm)

Package weight(Lbs)

15.7 oz (444.0 g)



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