

Schneider Service Manual

140EHC10500

3. Product Information

Modicon Quantum - high-speed counter module - 8 I - 100000 Hz

140EHC10500

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

High-speed counter module

Number of channels

5

Complementary

Number of inputs

8

Addressing requirement

12 output words

12 input words

Data format

2147483647 dec 32 bits

65535 dec 16 bits

Counting input voltage

30 V DC max

Counting input current

7 mA

Counting input type

Discrete incremental counter

Counting frequency

100000 Hz

Duty cycle

1/1 counter input

Discrete input current

5 mA

Operating threshold

15...30 V single ended mode 24 V REF DC at state on

3...5 V single ended mode 24 V REF DC at state off

Discrete output number

8

Discrete output type

Field Effect Transistor (FET)

Discrete output voltage

0 V switch off DC

20...30 V switch on DC

Load current

0.21 A

Maximum leakage current

0.1 mA state off

Maximum voltage drop

<1.25 V state on

Isolation between channels and bus

500 Vrms 60 s

Fault type

Loss of output field power

Output short-circuit protection

Internal

Power dissipation

>= 6 W

Bus current requirement

250 mA

External power requirement

19.2...30 V

Rack type

Local

Distributed

Remote

Local signalling

5 LEDs for channel status

Marking

CE

Current consumption

<= 1140 mA 24 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

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

RINA

UL

GOST

LR

CSA Class 1 Division 2

RRS

ABS

GL

DNV

C-tick

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861000124

Returnability

Yes

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.81 in (4.6 cm)

Package 1 Width

6.30 in (16.0 cm)

Package 1 Length

12.20 in (31.0 cm)

Package weight(Lbs)

18.3 oz (520.0 g)