Product data sheet Characteristics

140EHC10500 Modicon Quantum - high-speed counter module - 8 I - 100000 Hz

Main

Range of product	Modicon Quantum automation platform
Product or component type	High-speed counter module
Number of channels	5
Number of inputs	8
Discrete output number	8
Discrete output type	Field Effect Transistor (FET)
Local signalling	5 LEDs channel status
Module format	Standard

Complementary

Complementary	
Addressing requirement	12 input words 12 output words
Data format	65535 dec 16 bits 2147483647 dec 32 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	35 V single ended mode 24 V REF DC at state off 1530 V single ended mode 24 V REF DC at state on
Discrete output voltage	0 V switch off DC 2030 V switch on DC
Load current	0,21 A
Leakage current	≤ 0,1 mA state off
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	19.230 V
Rack type	Distributed Local Remote
Marking	CE
Current consumption	≤ 1140 mA 24 V DC external power supply
Product weight	0,35 kg
Environment	
Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2

10 V/m 80...1000 MHz IEC 801-3

95 % without condensation

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Relative humidity

Resistance to electromagnetic fields

Ambient air temperature for storage

Ambient air temperature for operation



0...60 °C

-40...85 °C

Operating altitude	≤ 5000 m
Standards	UL 508
Product certifications	ABS C-Tick CSA Class 1 Division 2 DNV (Det Norske Veritas) GL GOST LR RINA RRS UL
RoHS EUR conformity date	3Q2009
RoHS EUR status	Will be compliant