

Product data sheet

Specifications



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

140EHC10500C

- Discontinued on: 31 December 2021
- To be end-of-service on: 31 December 2029

Discontinued - Service only

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 for 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	Remote Distributed Local
Local signalling	5 LEDs for channel status
Marking	CE
Current consumption	<= 1140 mA at 24 V DC external power supply
Module format	Standard

Environment

Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m
Protective treatment	Conformal coating Humiseal 1A33
Standards	UL 508
Product certifications	ABS RRS UL C-Tick GL GOST DNV CSA Class 1 Division 2 RINA LR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	16.5 cm
Package 1 Length	32.0 cm
Package 1 Weight	530.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.41 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

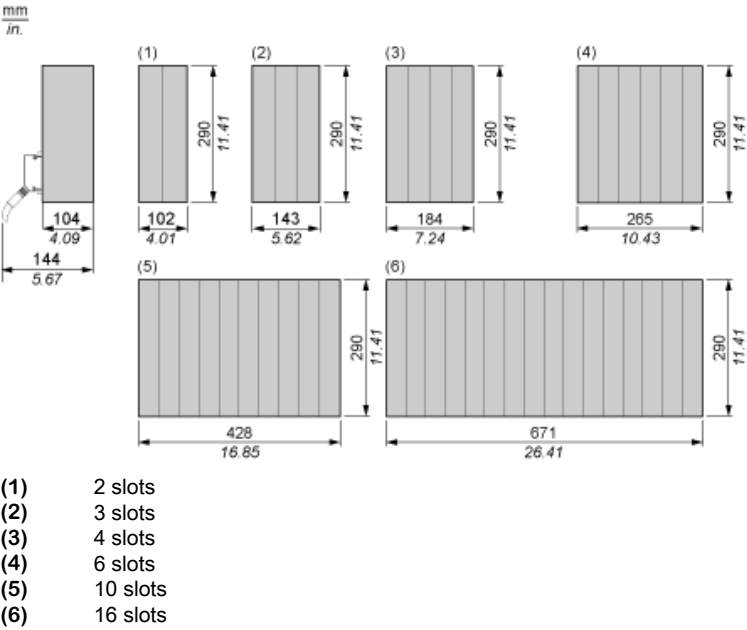
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
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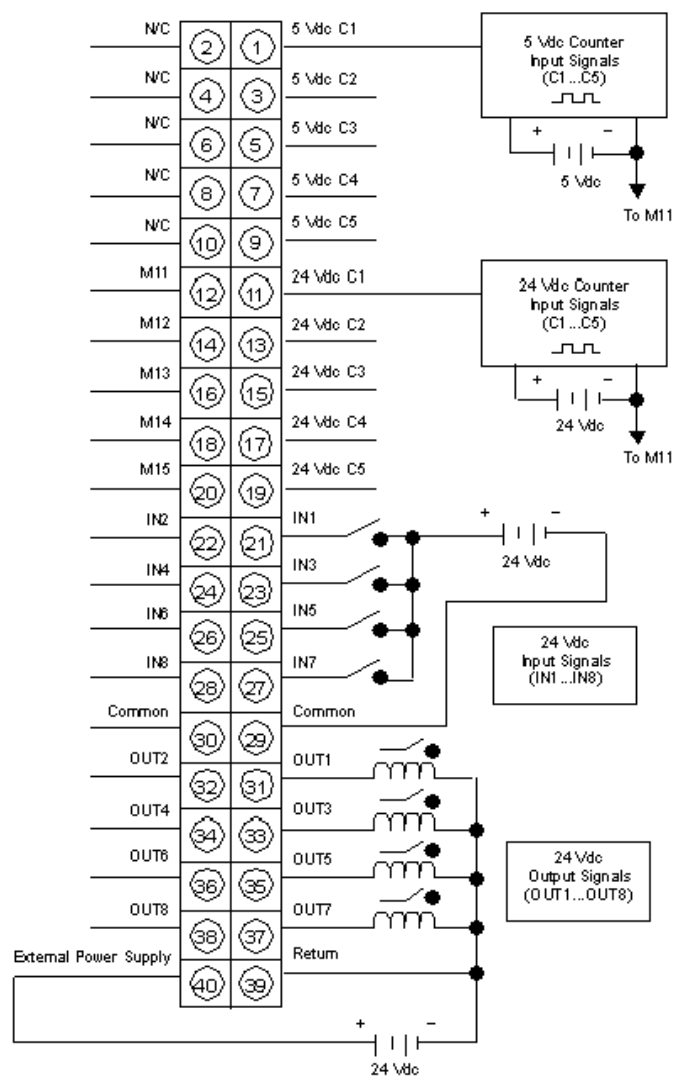
Racks for Modules Mounting

Dimensions of Modules and Racks



Five-Channel Discrete High Speed Counter

Wiring Diagram



N/C Not Connected
Terminals 29 and 30 are jumpered together.

Recommended replacement(s)

140EHC10500C is replaced by:

1x



Counter module, Modicon M340 automation platform, high speed 8 channels

BMXEHC0800H