

Product data sheet

Specifications



counter module STB - 1 CH - 0..40000 Hz - 2 I

STBEHC3020

⚠ Discontinued on: 09 September 2009

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Main

Range of Product	Modicon STB distributed I/O solution
Product or Component Type	Counter module
Number of Channels	1

Complementary

Counting input number	2
Maximum counting frequency	40000 Hz
Counter functions	Frequency meter Loop (modulo) counting Count events Down counting Measure time periods Up/down counting
Counter configuration	Modicon configuration software
Input compatibility	Mechanical contact 2/3 wire photo-electric sensor With 2-wire/3-wire proximity sensors Incremental encoder
Input voltage	24 V
Input voltage limits	19.2...30 V
Input voltage type	DC
Input Current	6 mA
Input logic	Positive
Voltage state 0 guaranteed	-3...5 V
Voltage state 1 guaranteed	11...30 V
Current state 0 guaranteed	<= 1.5 mA
Current state 1 guaranteed	>= 2 mA
Filter time	0 ms digital 40000 Hz counting inputs 0.4 ms digital 1000 Hz counting inputs 1.2 ms digital 400 Hz counting inputs 2.5 µs analog counting inputs 25 µs analog auxiliary input
Output voltage	24 V
Output voltage limits	19.2...30 V
Output voltage type	DC

Nominal output current	0.5 A
Discrete output logic	Positive or negative configurable
Maximum leakage current	0.1 mA at state 0
Maximum voltage drop	<3 V at state 1
Maximum load inductance	500 mH 4 Hz
Protection type	Overload protection electronic tripping manual or automatic reset Short-circuit protection electronic tripping manual or automatic reset Overload protection current limiter Short-circuit protection current limiter
Fallback status	Hold last value configured State 0 for output channels by default State 0 or 1 for each channel configured
Cold swapping	Yes
Hot swapping fallback	Fallback output depending on parameter setting configured mandatory standard network interface module Fallback to 0 not configured mandatory standard network interface module Fallback to 0 basic network interface module
Product Compatibility	Power distribution module STBPDT3100/3105 Mounting base STBXBA3000
[Us] rated supply voltage	24 V DC
Supply	Power distribution module
Current consumption	60...100 mA 5 V DC logic bus
Insulation between channels and bus	500 V
Marking	CE
Overvoltage category	II
Status LED	1 LED (Green) EN validation input status (EN) 1 LED (Green) module status (RDY) 1 LED (Green) reset input status (RST) 1 LED per counting input (Green) counting input status (INA, INB) 1 LED per output (Green) output status (OUT1, OUT2) 1 LED (Red) module error (FLT)
Height	1.11 in (28.1 mm)
Depth	2.76 in (70 mm)
Width	5.05 in (128.3 mm)

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
Pollution degree	2 IEC 60664-1
Operating altitude	<= 6561.68 ft (2000 m)
IP degree of protection	IP20 conforming to EN 61131-2 class 1
Ambient air temperature for operation	-13...158 °F (-25...70 °C) without derating)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative humidity	95 % 140 °F (60 °C) without condensation
Vibration resistance	3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail 5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail +/-0.35 mm 10...58 Hz
Shock resistance	30 gn 11 ms IEC 88 reference 2-27

Ordering and shipping details

Category	18215-ADVANTYS STB I/O
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Discount Schedule	PC32
GTIN	00785901828518
Returnability	No
Country of origin	FR

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

STBEHC3020 is replaced by:

1x		counter kit, Modicon STB, 1 channel, 0-40000Hz, 2 I STBEHC3020KC
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