Product datasheet

Specifications

frequency module, Modicon X80, turbomachinery, input 2 channels, hardened

BMXETM0200H

Main

Range of product	Modicon X80
Product or component type	Frequency module
Product destination	Turbo machine
Product compatibility	M340 PLC M580 PLC
Device application	Speed and frequency control
Number of channels	2
Input frequency	0…500 kHz
Type of measurement	Frequency
Function available	Compare
Number of inputs	2 (MPU) 2 (APU)
Input compatibility	19.2…30 V incremental encoder active pick-up sensor, 10...30 V totem pole magnetic pick-up sensor
Number of outputs	2

Complementary

Output type	Reflex digital output
Cycle time	1 ms
Isolation voltage	1400 V DC for 1 min field/bus or ground 1000 V DC for 1 min differential interfaces 1000 V DC for 1 min input/output
Input type	High speed
Input voltage	24 V DC 100 V AC
Input voltage limits	19.2...30 V at 60 °C 26.4 V at 70 °C
Voltage state 1 guaranteed	MPU: 0.3...100 V AC APU: 2.5...30 V DC
Voltage state 0 guaranteed	< 0.3 V
Discrete output logic	Positive logic (source)
Output voltage	24 V DC
Output voltage limits	19.2...30 V
Maximum load current	1 A per module 0.5 A per output

Maximum leakage current	0.1 mA at state 0
Maximum voltage drop	<3 V at state 1
Output overload protection	Integrated
Output short-circuit protection	1.5 A integrated
Overlap time	0.2 ms
Electrical connection	Connector with 28 pins
Current consumption	<= 200 mA at 3.3 V DC bus <= 30 mA at 24 V DC sensor
Module format	Standard
Net weight	0.124 kg

Environment

Ambient air temperature for operation	-25…70 °C
Relative humidity	10…95 % without condensation
IP degree of protection	IP20
Protective treatment	Conformal coating
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22
Standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0
Environmental characteristic	Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.200 cm
Package 1 Length	12.000 cm
Package 1 Weight	165.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.170 kg

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	**78**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**

Use Again

Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**