

# BMXETM0200H

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



## Main

|                           |   |
|---------------------------|---|
| Range of product          | Modicon X80   |
| Product or component type | Frequency module  |
| Product destination       | Turbo machine   |
| Product compatibility     | M340 PLC<br>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)<br>2 (APU)  |
| Input compatibility       | 19.2...30 V incremental encoder<br>Active pick-up sensor, 10...30 V totem pole<br>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<br>1000 V DC for 1 min differential interfaces<br>1000 V DC for 1 min input/output |
| Input type                      | High speed   |
| Input voltage                   | 24 V DC<br>100 V AC  |
| Input voltage limits            | 19.2...30 V at 60 °C<br>26.4 V at 70 °C  |
| Voltage state 1 guaranteed      | MPU: 0.3...100 V AC<br>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<br>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<br><= 30 mA at 24 V DC sensor  |
| Module format                   | Standard   |
| Net weight                      | 0.124 kg   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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<br>2014/30/EU - electromagnetic compatibility<br>2014/34/EU - ATEX directive  |
| Product certifications                | CE[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy[RETURN]ATEX zone 2/22[RETURN]IECEx zone 2/22  |
| Standards                             | EN/IEC 61131-2<br>EN/IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201<br>IACS E10<br>EN/IEC 61000-6-5, interface type 1 and type 2<br>EN/IEC 61850-3, location G<br>EN/IEC 60079-0  |
| Environmental characteristic          | Gas resistant class Gx conforming to ISA S71.04<br>Gas resistant class 3C4 conforming to IEC 60721-3-3<br>Dust resistant class 3S4 conforming to IEC 60721-3-3<br>Sand resistant class 3S4 conforming to IEC 60721-3-3<br>Salt resistant level 2 conforming to IEC 68252<br>Mold growth resistant class 3B2 conforming to IEC 60721-3-3<br>Fungal spore resistant class 3B2 conforming to IEC 60721-3-3<br>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  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| REACH Regulation           |  <a href="#">REACH Declaration</a>       |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  |
| Mercury free               | Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information |  <a href="#">Yes</a>                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |