



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
Product 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 Weight	175 G
Package 1 Height	5.5 Cm
Package 1 width	11.2 Cm
Package 1 Length	12 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
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

Product Life Status :	Commercialised
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