



Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	8 conforming to EN/IEC 61131-2
Discrete output type	Relay
Discrete output voltage	24...240 V 19...264 V AC 12...24 V 10...34 V DC

Complementary

[I _{th}] conventional free air thermal current	3 A
Insulation resistance	> 10 MOhm 500 V DC
Maximum power dissipation in W	2.7 W
Response time on output	< 10 ms activation < 8 ms deactivation
Typical current consumption	79 mA at 3.3 V DC
MTBF reliability	2119902 H
Output overload protection	Use 1 fast blow fuse per channel or group of channel
Output overvoltage protection	Use discharge diode on each output DC Use RC circuit on each output AC Use ZNO surge limiter on each output AC
Output short-circuit protection	Use 1 fast blow fuse per channel or group of channel
Minimum switching current	10 mA 5 V DC
Electrical durability	AC-15: 100000 cycles at 220 VA 200...240 V (load factor 0.35) AC-12: 1000000 cycles at 110 VA 110...120 V AC-12: 1000000 cycles at 220 VA 200...240 V AC-12: 1000000 cycles at 50 VA 48 V AC-15: 1000000 cycles at 110 VA 200...240 V (load factor 0.35) DC-12: 1000000 cycles at 24 W 24 V DC-13: 1000000 cycles at 24 W 24 V AC-15: 10000000 cycles at 10 VA 110...120 V (load factor 0.35) AC-15: 10000000 cycles at 10 VA 200...240 V (load factor 0.35) AC-15: 150000 cycles at 110 VA 110...120 V (load factor 0.35)

Disclaimer: 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

AC-15: 1500000 cycles at 50 VA 110...120 V (load factor 0.35)
 AC-15: 2000000 cycles at 24 VA 48 V (load factor 0.35)
 DC-13: 2000000 cycles at 10 W 24 V
 DC-12: 300000 cycles at 40 W 24 V
 AC-15: 3000000 cycles at 50 VA 200...240 V (load factor 0.35)
 AC-12: 500000 cycles at 110 VA 48 V
 AC-12: 500000 cycles at 220 VA 110...120 V
 AC-15: 5000000 cycles at 10 VA 48 V (load factor 0.35)
 AC-15: 500000 cycles at 24 VA 24 V (load factor 0.35)
 AC-12: 700000 cycles at 50 VA 24 V

Status LED	1 LED (green)module operating (RUN): 1 LED per channel (green)channel diagnostic: 1 LED (red)module error (ERR): 1 LED (red)module I/O:
Net weight	0.145 kg

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive
Product certifications	CSA Merchant Navy RCM EAC UL CE
Standards	EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201
Dielectric strength	2000 V AC at 50/60 Hz 1 min
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...60 °C
Relative humidity	5...95 % at 55 °C without condensation
Protective treatment	TC
Operating altitude	0...2000 m 2000...5000 m with derating factor

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
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

Contractual warranty

Warranty	18 months
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