



Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	4 conforming to EN/IEC 61131-2
Discrete output type	Relay
Discrete output voltage	24...240 V 10...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	3.9 W
Response time on output	12 ms activation 6 ms deactivation
Typical current consumption	240 mA at 3.3 V DC 130 mA at 24 V DC
MTBF reliability	474792 H
Protection type	External short-circuit protection overvoltage protection, inductive AC network overvoltage protection, inductive DC network External overload protection
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
Maximum switching voltage	230 V AC
Mechanical durability	10000000 cycles
Electrical durability	AC-15: 80000 cycles at 250 VA 250 V at -25...60 °C AC-15: 80000 cycles at 500 VA 250 V at -25...60 °C AC-15: 80000 cycles at 750 VA 250 V at -25...60 °C

AC-12: 250000 cycles at 250 VA 250 V at -25...60 °C
AC-12: 70000 cycles at 500 VA 250 V at -25...60 °C
AC-12: 30000 cycles at 1000 VA 250 V at -25...60 °C
DC-13: 80000 cycles at 24 VA 24 V at -25...60 °C
DC-13: 50000 cycles at 48 VA 24 V at -25...60 °C
DC-13: 30000 cycles at 96 VA 24 V at -25...60 °C
DC-12: 1000000 cycles at 24 VA 24 V at -25...60 °C
DC-12: 500000 cycles at 48 VA 24 V at -25...60 °C
DC-12: 300000 cycles at 120 VA 24 V at -25...60 °C

Switching frequency	<= 50 Hz
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:
Product weight	0.145 kg

Environment

IP degree of protection	IP20
Product certifications	Merchant Navy ATEX EAC TÜV UL CSA
Standards	UL 61010-2-201 EN/IEC 61131-2 EN/IEC 61010-2-201 CSA C22.2 No 61010-2-201
Dielectric strength	2000 V AC at 50/60 Hz 1 min
Vibration resistance	3 gn
Shock resistance	15 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-25...60 °C
Relative humidity	5...95 % at 55 °C without condensation
Protective treatment	Conformal coating
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
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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