Product data sheet

Specifications



discrete module X80 - 8 NO/NC Type C - Isolated relays - 125 V DC/ 250 V AC - sev

BMXDRC0805H

Main

Range Of Product	Modicon X80
Product Or Component Type	Relay discrete output module
Product Specific Application	For severe environments
Discrete Output Number	8 conforming to EN/IEC 61131-2
Discrete Output Logic	Positive or negative
Discrete Output Voltage	5125 V 5150 V DC 24240 V 19264 V AC

Complementary

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Electrical Connection	40 ways terminal block
Network Frequency	50/60 Hz
Network Frequency Limits	4763 Hz
Sensor Power Supply	5150 V
	19264 V
[Ith] Conventional Free Air	4 A 40 °C
Thermal Current	3 A 50 °C
	2 A 60 °C
	1.2 A 70 °C
Insulation Resistance	> 10 MOhm 500 V DC
Power Dissipation In W	3.6 W
Response Time On Output	<= 10 ms activation
	<= 13 ms deactivation
Typical Current Consumption	40 mA at 3.3 V DC
	101 mA at 24 V DC
Mtbf Reliability	2650000 H
Protection Type	External short-circuit protection
	External overload protection
	External overvoltage protection, inductive AC network
	External overvoltage protection, inductive DC network
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

AC-12: 200000 cycles at 48 VA 24 V at -25...60 °C AC-12: 200000 cycles at 28.8 VA 24 V at 60...70 °C AC-12: 300000 cycles at 48 VA 48 V at -25...60 °C AC-12: 300000 cycles at 28.8 VA 48 V at 60...70 °C AC-12: 150000 cycles at 96 VA 48 V at -25...60 °C AC-12: 150000 cycles at 57.6 VA 48 V at 60...70 °C AC-12: 300000 cycles at 110 VA 100...120 V at -25...60 °C AC-12: 300000 cycles at 66 VA 100...120 V at 60...70 °C AC-12: 150000 cycles at 220 VA 100...120 V at -25...60 °C AC-12: 150000 cycles at 132 VA 100...120 V at 60...70 °C AC-12: 300000 cycles at 220 VA 200...250 V at -25...60 °C AC-12: 300000 cycles at 132 VA 200...250 V at 60...70 °C AC-12: 150000 cycles at 500 VA 200...250 V at -25...60 °C AC-12: 150000 cycles at 300 VA 200...250 V at 60...70 °C AC-15: 700000 cycles at 10 VA 24 V at -25...60 °C (load factor 0.4) AC-15: 700000 cycles at 6 VA 24 V at 60...70 °C (load factor 0.4) AC-15: 500000 cycles at 24 VA 24 V at -25...60 °C (load factor 0.4) AC-15: 500000 cycles at 14.4 VA 24 V at 60...70 °C (load factor 0.4) AC-15: 200000 cycles at 48 VA 24 V at -25...60 °C (load factor 0.4) AC-15: 200000 cycles at 28.8 VA 24 V at 60...70 °C (load factor 0.4) AC-15: 700000 cycles at 10 VA 48 V at -25...60 °C (load factor 0.4) AC-15: 700000 cycles at 6 VA 48 V at 60...70 °C (load factor 0.4) AC-15: 500000 cycles at 24 VA 48 V at -25...60 °C (load factor 0.4) AC-15: 500000 cycles at 14.4 VA 48 V at 60...70 °C (load factor 0.4) AC-15: 300000 cycles at 48 VA 48 V at -25...60 °C (load factor 0.4) AC-15: 300000 cycles at 28.8 VA 48 V at 60...70 °C (load factor 0.4) AC-15: 100000 cycles at 96 VA 48 V at -25...60 °C (load factor 0.4) AC-15: 100000 cycles at 57.6 VA 48 V at 60...70 °C (load factor 0.4) AC-15: 1000000 cycles at 10 VA 100...120 V at -25...60 °C (load factor 0.4) AC-15: 1000000 cycles at 6 VA 100...120 V at 60...70 °C (load factor 0.4) AC-15: 300000 cycles at 50 VA 100...120 V at -25...60 °C (load factor 0.4) AC-15: 300000 cycles at 30 VA 100...120 V at 60...70 °C (load factor 0.4) AC-15: 200000 cycles at 110 VA 100...120 V at -25...60 °C (load factor 0.4) AC-15: 200000 cycles at 66 VA 100...120 V at 60...70 °C (load factor 0.4) AC-15: 70000 cycles at 220 VA 100...120 V at -25...60 °C (load factor 0.4) AC-15: 70000 cycles at 132 VA 100...120 V at 60...70 °C (load factor 0.4) AC-15: 1000000 cycles at 10 VA 200...250 V at -25...60 °C (load factor 0.4) AC-15: 1000000 cycles at 6 VA 200...250 V at 60...70 °C (load factor 0.4) AC-15: 500000 cycles at 50 VA 200...250 V at -25...60 °C (load factor 0.4) AC-15: 500000 cycles at 30 VA 200...250 V at 60...70 °C (load factor 0.4) AC-15: 200000 cycles at 110 VA 200...250 V at -25...60 °C (load factor 0.4) AC-15: 200000 cycles at 66 VA 200...250 V at 60...70 °C (load factor 0.4) AC-15: 150000 cycles at 220 VA 200...250 V at -25...60 °C (load factor 0.4) AC-15: 150000 cycles at 132 VA 200...250 V at 60...70 °C (load factor 0.4) DC-12: 200000 cycles at 24 W 24 V at -25...60 °C DC-12: 200000 cycles at 14.4 W 24 V at 60...70 °C DC-12: 150000 cycles at 48 W 24 V at -25...60 °C DC-12: 150000 cycles at 28.8 W 24 V at 60...70 °C DC-12: 150000 cycles at 40 W 48...60 V at -25...60 °C DC-12: 150000 cycles at 24 W 48...60 V at 60...70 °C DC-12: 100000 cycles at 45 W 100...125 V at -25...60 °C DC-12: 60000 cycles at 45 W 100...125 V at 60...70 °C DC-13: 100000 cycles at 10 W 24 V at -25...60 °C DC-13: 100000 cycles at 6 W 24 V at 60...70 °C DC-13: 60000 cycles at 24 W 24 V at -25...60 °C DC-13: 60000 cycles at 14.4 W 24 V at 60...70 °C DC-13: 40000 cycles at 48 W 24 V at -25...60 °C DC-13: 40000 cycles at 28.8 W 24 V at 60...70 °C DC-13: 40000 cycles at 40 W 48...60 V at -25...60 °C DC-13: 40000 cycles at 24 W 48...60 V at 60...70 °C DC-13: 100000 cycles at 15 W 100...125 V at -25...60 °C DC-13: 40000 cycles at 15 W 100...125 V at 60...70 °C 1 LED (green) RUN 1 LED per channel (green) channel diagnostic 1 LED (red) ERR 1 LED (red) I/O

Net Weight

Status Led

0.189 kg

Environment

Ip Degree Of Protection

IP20

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
Dielectric Strength	1780 V AC at 50/60 Hz 1 min
Vibration Resistance	3 gn
Shock Resistance	30 gn
Ambient Air Temperature For Storage	-4085 °C
Ambient Air Temperature For Operation	-2570 °C
Relative Humidity	095 % at -2570 °C without condensation
Protective Treatment	Conformal coating
Operating Altitude	02000 m 20005000 m with derating factor

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	17.900 cm
Package 1 Length	26.100 cm
Package 1 Weight	356.000 g
Unit Type Of Package 2	\$03
Number Of Units In Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.332 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

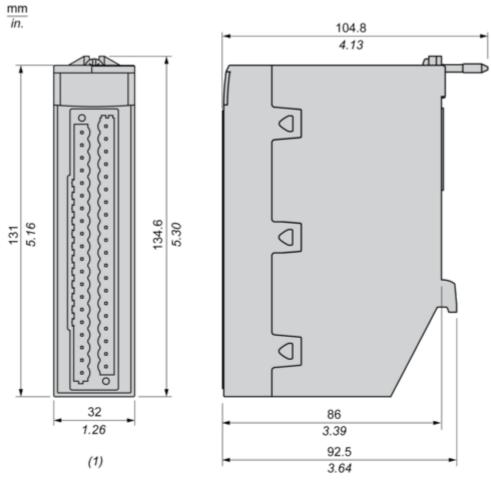
Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
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

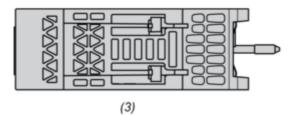
Product data sheet

Dimensions Drawings

Dimensions







(1) Front view(2) Right view

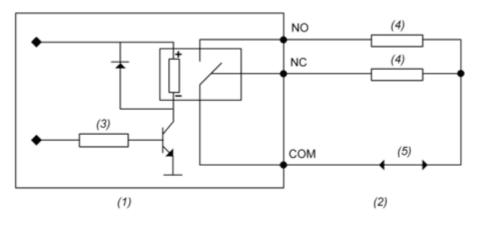
(3) Top view

Product data sheet

Connections and Schema

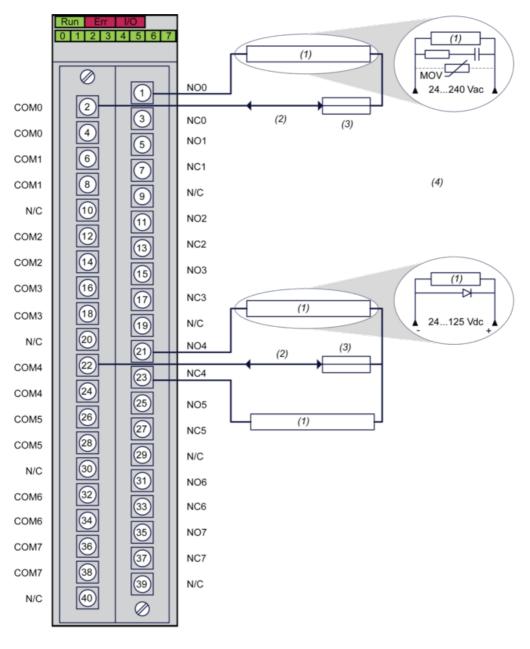
Connecting the Module

Output Circuit Diagram



- (1) Module
- (2) Output
- (3) Command
- (4) Pre-actuator
- (5) Power supply
- NO : Normally open output NC : Normally closed output

Module Connection



(1) Pre-actuator

(2) Power supply : 24...125 Vdc or 24...240 Vac

(3) Fuse : Use appropriate fast-blow fuse for each relay

(4) We recommend installing this type of protection on the terminals of each pre-actuator

N/C : Not connected