

Schneider BME Series Service Manual

BMXSRA0405

1. Description

safety relay output module, Modicon X80, 4 isolated outputs, 24 to 230V AC, 24V DC

3. Product Information

safety relay output module, Modicon X80, 4 isolated outputs, 24 to 230V AC, 24V DC

BMXSRA0405

Main

Range of Product

Modicon X80

Product or Component Type

Discrete output module

Discrete output number

4 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

[Ith] conventional free air thermal current

5 A

Insulation resistance

> 10 MOhm 500 V DC

Power dissipation in W

3.9 W

Response time on output

12 ms activation

6 ms deactivation

Typical current consumption

240 mA 3.3 V DC

130 mA 24 V DC

MTBF reliability

624000 H

Protection type

External short-circuit protection

overvoltage protection, inductive AC

overvoltage protection, inductive DC

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 250 VA 250 V -13...140 °F (-25...60 °C)

AC-15 80000 cycles 500 VA 250 V -13...140 °F (-25...60 °C)

AC-15 80000 cycles 750 VA 250 V -13...140 °F (-25...60 °C)

AC-12 250000 cycles 250 VA 250 V -13...140 °F (-25...60 °C)

AC-12 70000 cycles 500 VA 250 V -13...140 °F (-25...60 °C)

AC-12 30000 cycles 1000 VA 250 V -13...140 °F (-25...60 °C)

DC-13 80000 cycles 24 VA 24 V -13...140 °F (-25...60 °C)

DC-13 50000 cycles 48 VA 24 V -13...140 °F (-25...60 °C)

DC-13 30000 cycles 96 VA 24 V -13...140 °F (-25...60 °C)

DC-12 1000000 cycles 24 VA 24 V -13...140 °F (-25...60 °C)

DC-12 500000 cycles 48 VA 24 V -13...140 °F (-25...60 °C)
DC-12 300000 cycles 120 VA 24 V -13...140 °F (-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
Net Weight
0.320 lb(US) (0.145 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
2000 V AC 50/60 Hz 1 min
Vibration resistance
3 gn
Shock resistance
15 gn
Ambient Air Temperature for Storage
-40...185 °F (-40...85 °C)
Ambient air temperature for operation
-13...140 °F (-25...60 °C)
Relative humidity
5...95 % 131 °F (55 °C) without condensation
Protective treatment
Conformal coating
Operating altitude
0...6561.68 ft (0...2000 m)
2000...5000 m with derating factor
Ordering and shipping details
Category
US1PC3418161
Discount Schedule
PC34
GTIN
3606481204936
Returnability
Yes
Country of origin
FR
Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
2.17 in (5.500 cm)
Package 1 Width
7.09 in (18.000 cm)

Package 1 Length
10.24 in (26.000 cm)
Package weight(Lbs)
13.721 oz (389.000 g)
Unit Type of Package 2
S03
Number of Units in Package 2
8
Package 2 Height
11.81 in (30.000 cm)
Package 2 Width
11.81 in (30.000 cm)
Package 2 Length
15.75 in (40.000 cm)
Package 2 Weight
7.796 lb(US) (3.536 kg)