

Schneider Service Manual

BMXDRA1605

1. Description

BMXDRA1605

3. Product Information

BMXDRA1605

discrete output module, Modicon X80, 16 NO

relay outputs, 24 to 240V AC, 24 to 48V DC

Main

Range of product Modicon X80

Product or component type Discrete output module

Discrete output number 16 conforming to EN/IEC 61131-2

Discrete output type Relay

Discrete output voltage 24...48 V 19...60 V DC

24...240 V 19...264 V AC

Complementary

[Ith] conventional free air thermal current 2 A

Insulation resistance > 10 MOhm 500 V DC

Power dissipation in W 3 W

Response time on output < 8 ms activation

< 10 ms deactivation

Typical current consumption 100 mA at 3.3 V DC

95 mA at 24 V DC

MTBF reliability 2100000 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 1 MA 5 V DC

Electrical durability AC-15: 100000 cycles at 240 VA 200 V (load factor 0.7)

AC-15: 100000 cycles at 120 VA 200 V (load factor 0.35)

AC-12: 100000 cycles at 200 VA 100 V

AC-12: 100000 cycles at 80 VA 48 V

AC-12: 100000 cycles at 50 VA 24 V

AC-15: 100000 cycles at 120 VA 100 V

AC-15: 100000 cycles at 120 VA 24 V

AC-15: 100000 cycles at 120 VA 48 V

DC-12: 100000 cycles at 24 W 24 V

DC-13: 100000 cycles at 10 W 24 V

DC-13: 100000 cycles at 10 W 48 V

AC-15: 300000 cycles at 72 VA 200 V (load factor 0.7)

AC-15: 300000 cycles at 36 VA 200 V (load factor 0.35)

AC-12: 300000 cycles at 200 VA 200 V

AC-12: 300000 cycles at 80 VA 100 V

AC-12: 300000 cycles at 50 VA 48 V

AC-15: 300000 cycles at 36 VA 100 V

AC-15: 300000 cycles at 72 VA 100 V

AC-15: 300000 cycles at 36 VA 48 V

AC-15: 300000 cycles at 72 VA 48 V

AC-15: 300000 cycles at 36 VA 24 V

AC-15: 300000 cycles at 72 VA 24 V

DC-13: 300000 cycles at 3 W 24 V

DC-13: 300000 cycles at 3 W 48 V

DC-13: 7000 cycles at 24 W 24 V

DC-13: 7000 cycles at 24 W 48 V

DC-12: 50000 cycles at 24 W 48 V

Status LED 1 LED (green) RUN

1 LED per channel (green) channel diagnostic

1 LED (red) ERR

1 LED (red) I/O

Product weight 0.15 Kg

Environment

IP degree of protection IP20

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

Operating altitude 0...2000 m

2000...5000 m with derating factor

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 5.300 Cm

Package 1 Width 11.000 Cm

Package 1 Length 11.500 Cm

Package 1 Weight 179.000 G