

Relay Interfaces

Relay modules R1800 DIN 1-3

RB 121... - instant relay blocks - 18 mm .709" spacing

Characteristics

Relay characteristics COIL

Rated voltage +15%, -10% on DC
±15% on AC
Frequency
Power
Rated current
Drop-out voltage at 20°C
Permissible leakage current

RB 121	RB 121 A	RB 121 AV	RB 121 A	
12 V DC	24 V AC/DC	48 V AC/DC	110 V AC/DC	220 V AC/DC
	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
0.5 W	0.7 W	0.96 W	0.5 W	1.1 VA
41 mA	29 mA	20 mA	4.3 mA	5 mA
3.2 V DC	5 V AC/DC	5.6 V AC/DC	14.5 V AC/DC	25.2 V AC

CONTACT

Type
Voltage switching range min./max.
Current switching range min./max.
Load switching range

1 SPDT
12 V / 380 V
10 mA / 8 A
0.6 VA / 2000 VA

AC1 min. / max.
DC1 min. / max.

2 x 10 ⁵
2 x 10 ⁷

Number of on-load operations

Number of off-load operations

Operating speed

7 ms
6 ms
2 ms

Bounce

Insulation coil / contact

Resistance to shock coil / contact

Insulation contact / contact

Ambient temperature storage

2500 V RMS
4000 V RMS
1000 V RMS
-40°C to +80°C
see derating curves

Other characteristics

Body material grey ☐

Wire Solid wire

size Stranded wire

Rated wire size

Wire stripping length

Recommended screwdriver

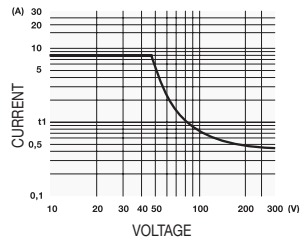
Protection

Recommended torque

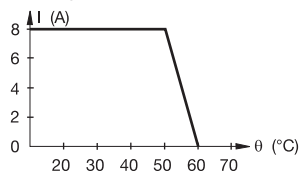
Approvals

UL 94 V0
0.2 - 4 mm ² / 22 - 12 AWG
0.22 - 2.5 mm ² / 22 - 12 AWG
2.5 mm ² / 12 AWG
7 mm .276"
3.5 mm .137"
IP20 NEMA1
0.4 - 0.6 Nm 3.5 - 5.3 lb.in
UL US pending, CE

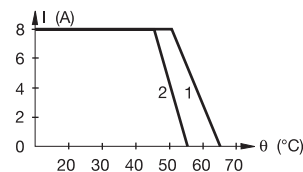
Reference standards CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.



Derating curves



RB 121 12 VDC
RB 121 A 24 VAC/DC
RB 121 AV 48 VAC/DC



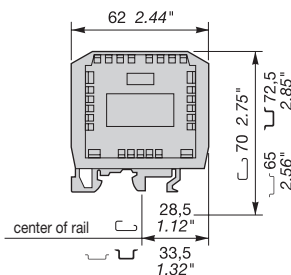
RB 121 A 110-220 VAC/DC
1 : 110 V AC/DC block
2 : 220 V AC block

Order codes

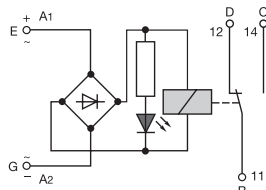
Description	Type	Order P/N	Packaging Weight kg
Relay block 12 V DC	RB 121-12VDC	1SNA 610 125 F2400	1 0.05
Relay block 24 V AC/DC	RB 121A-24VAC/DC	1SNA 610 004 F0700	1 0.05
Relay block 48 VAC/DC	RB 121AV-48VAC/DC	1SNA 610 006 F0100	1 0.05
Relay block 110-220 V AC/DC	RB 121A-110-220VAC/DC	1SNA 610 132 F2300	1 0.05

Accessories

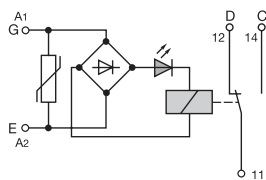
End section	BADL V0 BAM BAM V0	1SNA 399 903 F0200 1SNA 103 002 F2600 1SNA 399 306 F0300	50 50 50
Lengthwise marker	RLV	1SNA 103 849 F0300	
Marking method	RC55	see marking	



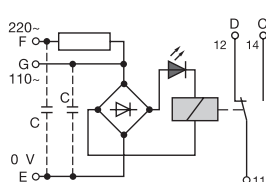
Relay blocks R1800



RB 121 12 VDC RB 121 A 24 VAC/DC



RB 121 AV 48 VAC/DC



RB 121 A 110-220 VAC/DC

