

# Relay Interfaces

## R600 relay modules



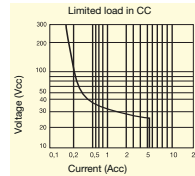
DIN 3

Relay : 1 SPDT low level contact 1 mA upto 6 A - 6 mm .236" spacing

### Characteristics

Relay characteristics	RB 121		RB 121 A				
<b>COIL</b>							
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	5 V DC	12 V DC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	±10% on AC +10% -15% on DC
Frequency			50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,2 W	0,2 W	0,24 W	0,33 W	0,54 W	0,46 W	0,8 W
Rated current	40 mA	16 mA	10 mA	7 mA	9 mA	4 mA	3,5 mA
Drop-out voltage at 20°C	1,2 V	2,2 V	4,5 V	8 V	8 V	17 V	27 V
Status device	green LED						
<b>CONTACT</b>							
Type	1 SPDT						
Voltage switching range min./max.	5 V / 250 V AC						
Current switching range min./max.	1 mA / 6 A						
Load switching range	0,05 VA / 1500 VA (ohmic load)						
AC1 min. / max. DC1 min. / max.	0,05 W / 140 W						
Number of on-load operations	10 <sup>5</sup> on AC15						
Number of off-load operations	10 <sup>7</sup>						
Operating speed	F 5 ms	5 ms	5 ms	5 ms	5 ms	6 ms	7 ms
	O 8 ms	8 ms	8 ms	8 ms	8 ms	15 ms	16 ms
Bounce	1,2 ms						
Insulation coil / contact	4000 V RMS						
Resistance to shock coil / contact	4000 V RMS						
Insulation contact / contact	1000 V RMS						
Ambient temperature storage	-40°C to +80°C						
operating	-20°C to +70°C (1)						
<b>Other characteristics</b>	Screw clamp			Spring clamp			
Body material	grey			UL 94 V0			
Wire	Solid wire			0,2 - 2,5 mm <sup>2</sup> / 24 - 12 AWG			
Stranded wire	0,22 - 2,5 mm <sup>2</sup> / 24 - 12 AWG			0,22 - 2,5 mm <sup>2</sup> / 24 - 12 AWG			
Rated wire size	2,5 mm <sup>2</sup> / 12 AWG			2,5 mm <sup>2</sup> / 12 AWG			
Wire stripping length	9 mm .354"			9 mm .354"			
Recommended screwdriver	3,5 mm .137"			3,5 mm .137"			
Protection	IP20 NEMA1			IP20 NEMA1			
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in			0,4 - 0,6 Nm 3.5 - 5.3 lb.in			
Approvals	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.						

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

### Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 SPDT low level	RB 121-5VDC	1SNA 645 036 R2500	10 0,02
Relay module 1 SPDT low level	RB 121-12VDC	1SNA 645 037 R2600	10 0,02
Relay module 1 SPDT low level	RB 121 A-24VAC/DC	1SNA 645 005 R0700	10 0,02
Relay module 1 SPDT low level	RB 121 A-48-60VAC/DC	1SNA 645 006 R0000	10 0,02
Relay module 1 SPDT low level	RB 121 A-115VAC/DC	1SNA 645 007 R0100	10 0,02
Relay module 1 SPDT low level	RB 121 A-230VAC/DC	1SNA 645 008 R1200	10 0,02
Relay module 1 SPDT low level	RBR 121-5VDC	1SNA 645 536 R2700	10 0,02
Relay module 1 SPDT low level	RBR 121-12VDC	1SNA 645 537 R2000	10 0,02
Relay module 1 SPDT low level	RBR 121 A-24VAC/DC	1SNA 645 505 R0100	10 0,02
Relay module 1 SPDT low level	RBR 121 A-48-60VAC/DC	1SNA 645 506 R0200	10 0,02
Relay module 1 SPDT low level	RBR 121 A-115VAC/DC	1SNA 645 507 R0300	10 0,02
Relay module 1 SPDT low level	RBR 121 A-230VAC/DC	1SNA 645 508 R1400	10 0,02

### Accessories

End section	BADH V0	1SNA 116 900 R2700	50
	BADL V0	1SNA 399 903 R0200	50
	BAM2 V0	1SNA 399 967 R0100	50
Separator end section	SC 612	1SNA 290 474 R0200	10
Divisible shunt 10 poles	BJ 612-10	1SNA 290 488 R0100	10
Divisible shunt 70 poles	BJ 612-70	1SNA 290 489 R0200	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA 645 031 R2000	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA 645 531 R2200	5
Test plug DIA. 2 mm	FC2	1SNA 007 865 R2600	10
Marking method	RC65 RC610	see marking	

