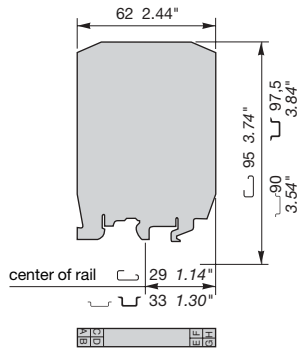


Relay interfaces

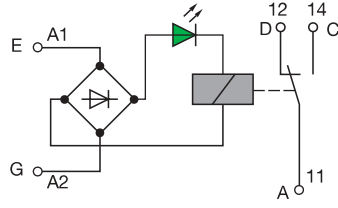
Relay modules
Series 30 000

DIN 1 - 3



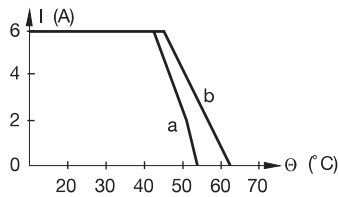
RB 121 24 V DC

Spacing 11.5 mm .453"



- Economy version of RB 121 A
- DC input only

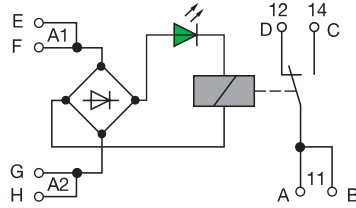
Ambient temperature derating curve



a : horizontal position
b : vertical position e* = 20 mm .788"

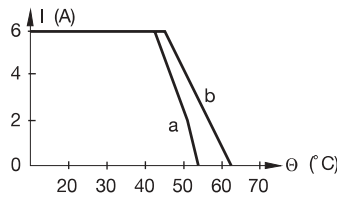
RB 121 A 12 V DC, 24 V AC/DC

Spacing 11.5 mm .453"



- Sealed relay
- Input protected against leakage currents
- Easy access to clamps for wiring
- Double wire clamps simplify daisy chaining

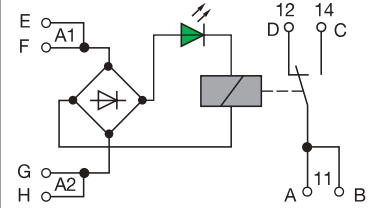
Ambient temperature derating curve



a : horizontal position
b : vertical position e* = 20 mm .788"

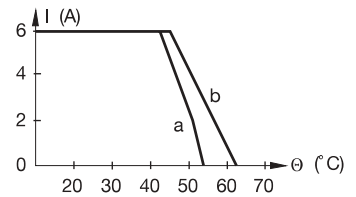
RB 121 A 48 V AC/DC

Spacing 11.5 mm .453"



- Sealed relay
- Input protected against leakage currents
- Easy access to clamps for wiring
- Double wire clamps simplify daisy chaining

Ambient temperature derating curve



a : horizontal position
b : vertical position e* = 20 mm .788"

Part numbers

Type	P/N
RB 121 24 V DC	0030 031.17

*e = distance between relays mounted in a vertical assembly

Type	P/N
RB 121 12 V DC	0030 001.22
RB 121 A 24 V AC/DC	0030 002.23

Type	P/N
RB 121 A 48 V AC/DC	0030 003.24

Approvals (Contact Entelec)



Characteristics

COIL	RB 121 24 V DC	RB 121 12 V DC	RB 121 A 24 V AC/DC	RB 121 A 48 V AC/DC
Rated voltage	+ 20%, - 15% on DC ± 15% on AC	12 V DC	12 V DC 24 V AC 24 V DC	48 V AC 48 V DC
Power	0.44 W	0.5 W	0.52 VA 0.44 W	0.62 VA 0.48 W
Rated current	18 mA	42 mA	22 mA 18 mA	13 mA 10 mA
Drop-out voltage at 20°C	4.6 V	2.8 V	4.6 V 4.6 V	5.8 V 5.8 V
Drop-in voltage at 20°C	14 V DC	7.5 V	12 V AC 14 V DC	26 V AC 30 V DC
Permissible leakage current	1.8 mA	3.5 mA	2.2 mA 1.8 mA	1 mA 1 mA
CONTACT				
Type	1 SPDT	1 SPDT	1 SPDT	1 SPDT
Voltage switching range min. / max.	5 V / 150 V DC - 250 V AC	5 V / 150 V DC - 250 V AC	5 V / 150 V DC - 250 V AC	5 V / 150 V DC - 250 V AC
Current switching range min. / max.	1 mA / 6 A	1 mA / 6 A	1 mA / 6 A	1 mA / 6 A
Load switching range AC1 min. / max.	5 mVA / 1500 VA	5 mVA / 1500 VA	5 mVA / 1500 VA	5 mVA / 1500 VA
DC1 min. / max.	5 mW / 192 W	5 mW / 192 W	5 mW / 192 W	5 mW / 192 W
Number of on-load operations	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Number of off-load operations	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶
Operating speed C	5 ms	5 ms	5 ms	5 ms
O	11 ms	11 ms	11 ms	12 ms
Bounce	1 ms	1 ms	1 ms	1 ms
Isolation, coil / contacts	3500 V rms	3500 V rms	3500 V rms	3500 V rms
Resistance to shock-wave, coil / contacts				
Isolation, contacts / contacts	1000 V rms	1000 V rms	1000 V rms	1000 V rms
TEMPERATURE				
Ambient temperature				
Storage	- 40°C to + 80°C	- 40°C to + 80°C	- 40°C to + 80°C	- 40°C to + 80°C
Operating temperature	- 20°C to + 62°C	- 20°C to + 62°C	- 20°C to + 62°C	- 20°C to + 62°C

Accessories, marking, wire size : see Accessories section.