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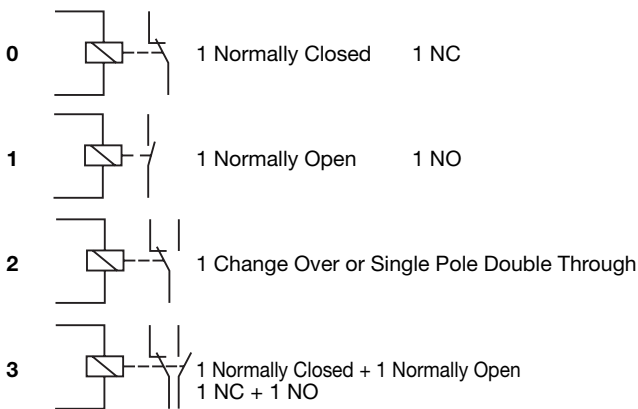
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Coding Principle

Construction of description type

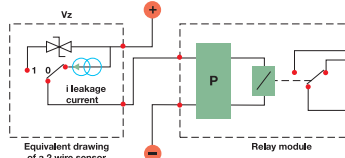
SERIES	CODE	NB OF RELAYS	CONTACT TYPE	NB OF CONTACTS PER RELAY	PARTICULARITIES			
R 600  R 900 R 1800	<table border="1"><tr><td>R</td><td>B</td></tr></table>	R	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
R	B							
R 600 	<table border="1"><tr><td>R</td><td>B</td><td>R</td></tr></table>	R	B	R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R	B	R						
R 20000	<table border="1"><tr><td>R</td><td>M</td></tr></table>	R	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
R	M							
R 500	<table border="1"><tr><td>D</td><td>2,5/5</td><td>R</td></tr></table>	D	2,5/5	R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	2,5/5	R						
R 910	<table border="1"><tr><td>M</td><td>4/9</td><td>R</td></tr></table>	M	4/9	R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	4/9	R						
			0 1 2 3		None A B C N P R V I			

Description of contact types :

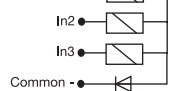


Particularities description :

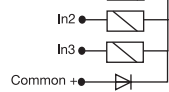
None Input voltage DC
A Input voltage AC/DC
B Input voltage AC
C 2 wire sensor compatibility



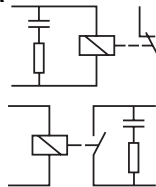
N In1 In2 In3 Common - Commons of coils connected to negative



P In1 In2 In3 Common + Commons of coils connected to positive

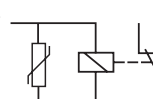


R RC circuit protection :
- Input protection against leakage current

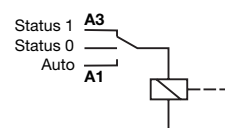


- Increases relay contacts life




V Relay protection against overvoltage peaks



I Switch to force the coil for maintenance and/or installation purposes



Color coding for relays

Color	Current level in contacts	Switching current	Switching voltage	Switching load power
 green	Very low level	10 ⁻⁷ to 5 A	10 ⁻³ to 250 V	10 ⁻¹⁰ to 2000 VA 10 ⁻¹⁰ to 200 W
 grey	Low level	1 mA to 8 A	5 to 250 V	0,05 to 1500 VA 0,05 to 192 W
 blue	High level	10 mA to 16 A	12 to 380 V	0,6 to 4000 VA 0,6 to 240 W

Selection guide for relay modules

How to use this selection guide :

1 Choose the coil voltage AC or DC

Input type	Rated voltage
DC input	5 VDC
	12 VDC

2 Choose the contact type together with the current needed for your application

Contact type	Connection type	Nb of relays	Current in contacts
1 SPDT	screw	1	10mA-6A
1 SPDT	screw	1	1mA-6A
1 SPDT	spring	1	10mA-6A

3 Verify the connection type, the number of relays and the spacing

Connection type	Nb of relays	Current in contacts	Spacing (mm)
screw	1	10mA-6A	6
screw	1	1mA-6A	6

4 Go to see the indicated page for more technical data or Use the part number to place an order

Part number	Page
1SNA 645 034 R2300	16
1SNA 645 036 R2500	17



Screw connection



Spring connection

Input type	Rated voltage	Contact type	Connection type	Nb of relays	Current in contacts	Spacing (mm)	Series	Available approvals	Particularities	Product type	Part number	Page
DC input	5 VDC	1 SPDT	screw	1	10mA-6A	6	R600			RB 121-5VDC	1SNA 645 034 R2300	17
		1 SPDT	screw	1	1mA-6A	6	R600			RB 121-5VDC	1SNA 645 036 R2500	18
		1 SPDT	spring	1	10mA-6A	6	R600			RBR 121-5VDC	1SNA 645 534 R2500	17
		1 SPDT	spring	1	1mA-6A	6	R600			RBR 121-5VDC	1SNA 645 536 R2700	18
		1 SPDT	screw	1	1mA-2A	18	R1800		TTL	EBO 1R-5VDC	1SNA 010 131 R1400	28
	12 VDC	1 NO	screw	1	10mA-5A	9	R910		R	M 4/9.R111L-12VDC	1SNA 607 051 R0700	22
		1 NO	screw	1	10mA-5A	9	R910		R	M 4/9.R111L-12VDC	1SNA 607 001 R0600	22
		1 NO	screw	1	10mA-5A	9	R910		R	M 4/9.R111L-12VDC	1SNA 607 029 R0100	22
		1 NO	screw	1	10 mA-5A	12,7	R20000			RM 111-12VDC	1SNA 020 035 R1100	34
		1 SPDT	screw	1	10mA-6A	6	R600			RB 121-12VDC	1SNA 645 035 R2400	17
		1 SPDT	screw	1	1mA-6A	6	R600			RB 121-12VDC	1SNA 645 037 R2600	18
		1 SPDT	spring	1	10mA-6A	6	R600			RBR 121-12VDC	1SNA 645 535 R2600	17
		1 SPDT	spring	1	1 mA-6A	6	R600			RBR 121-12VDC	1SNA 645 537 R2000	18
		1 SPDT	screw	1	10mA-8A	18	R1800			RB 121-12VDC	1SNA 610 125 R2400	25
		1 SPDT	screw	1	1mA-6A	11,5	R900			RB 121-12VDC	1SNA 630 001 R0000	31
		1 DPDT	screw	1	0,1µA-4A	18	R1800			RB 122-12VDC	1SNA 010 174 R0700	30

Notes :

P Pluggable relays
R Leakage current protection

I External switch to force the coil
Is Internal switch to force the coil

V Overvoltage protection with varistor
C Static sensor compatible

Negative Coil common in negative
Positive Coil common in positive
TTL TTL compatible

High runners in bold characters

Marine Certifications :



Input type	Rated voltage	Contact type	Connection type	Nb of relays	Current in contacts	Spacing (mm)	Series	Available approvals	Particularities	Product type	Part number	Page	
DC input	24 VDC	1 NO	screw	1	10mA-6A	12	R600		R	RB 101AR-24VAC/DC	1SNA 645 019 R0400	16	
		1 NO	spring	1	10mA-6A	12	R600		R	RBR 101AR-24VAC/DC	1SNA 645 519 R0600	16	
		1 NO	screw	1	10mA-8A	12,7	R20000			RM 101-24VDC	1SNA 020 239 R0200	34	
		1 NC	screw	1	10mA-5A	9	R910			M 4/9.R111L-24VDC	1SNA 607 052 R0000	22	
		1 NC	screw	1	10mA-5A	9	R910		R	M 4/9.R111L-24VDC	1SNA 607 002 R0700	22	
		1 NC	screw	1	10mA-5A	9	R910		R	M 4/9.R111L-24VDC	1SNA 607 030 R0600	22	
		1 NC	screw	1	10mA-6A	6	R600			RB 111A-24VAC/DC	1SNA 645 014 R2700	16	
		1 NC	screw	1	10mA-6A	6	R600		Is	RB 111AI-24VAC/DC	1SNA 645 063 R0000	16	
		1 NC	screw	1	10 mA-6A	12	R600		R	RB 111AR-24VAC/DC	1SNA 645 018 R0300	16	
		1 NC	spring	1	10mA-6A	6	R600			RBR 111A-24VAC/DC	1SNA 645 514 R2100	16	
		1 NC	spring	1	10mA-6A	6	R600		Is	RBR 111AI-24VAC/DC	1SNA 645 563 R0200	16	
		1 NC	spring	1	10mA-6A	12	R600		R	RBR 111AR-24VAC/DC	1SNA 645 518 R0500	16	
		1 NC	screw	1	10mA-8A	12,7	R20000			RM 111-24VDC	1SNA 020 032 R1600	34	
		4 NC	screw	1	0,1µA-5A	18	R1800			RB 114A-24VAC/DC	1SNA 010 126 R1700	24	
		1 NC+1 NO	screw	1	10mA-5A	18	R1800			C, V	RB 131CV-24VDC	1SNA 010 181 R1700	23
		1 NC+1 NO	screw	1	1µA-5A	18	R1800			C, V	RB 131CV-24VDC	1SNA 010 151 R2000	23
		1 NC+1 NO	screw	1	1µA-8A	18	R1800				RB 131-24VDC	1SNA 010 055 R2300	24
		1 NC+1 NO	screw	1	1µA-8A	18	R1800				RB 310-24VDC bistable	1SNA 010 063 R2300	24
		1 NC, 1 NC	screw	2	1µA-5A	18	R1800				RB 211-24VDC	1SNA 010 014 R1200	24
		1 SPDT	screw	1	10mA-6A	6	R600				RB 121A-24VAC/DC	1SNA 645 001 R0300	17
		1 SPDT	screw	1	1 mA-6A	6	R600				RB 121A-24VAC/DC	1SNA 645 005 R0700	18
		1 SPDT	screw	1	10mA-6A	5,08	R500			P	D 2,5/5-R121-24VDC	1SNA 607 217 R0200	21
		1 SPDT	screw	1	10mA-6A	5,08	R500			P	D 2,5/5-R121L-24VDC	1SNA 607 201 R1300	21
		1 SPDT	screw	1	10mA-6A	5,08	R500			P	D 2,5/5-R121L-24VAC/DC	1SNA 607 231 R0000	21
		1 SPDT	screw	1	10mA-6A	12	R600		I		RB 121AI-24VAC/DC	1SNA 645 032 R2100	19
		1 SPDT	screw	1	10mA-6A	12	R600		Is		RB 121AI-24VAC/DC	1SNA 645 009 R1300	19
		1 SPDT	screw	1	1mA-6A	12	R600		I		RB 121AI-24VAC/DC	1SNA 645 033 R2200	19
		1 SPDT	screw	1	1mA-6A	12	R600		Is		RB 121AI-24VAC/DC	1SNA 645 010 R0700	19
		1 SPDT	spring	1	10mA-6A	6	R600				RBR 121A-24VAC/DC	1SNA 645 501 R0500	17
		1 SPDT	spring	1	1mA-6A	6	R600				RBR 121A-24VAC/DC	1SNA 645 505 R0100	18
		1 SPDT	spring	1	10mA-6A	12	R600		I		RBR 121AI-24VAC/DC	1SNA 645 532 R2300	19
		1 SPDT	spring	1	10mA-6A	12	R600		Is		RBR 121AI-24VAC/DC	1SNA 645 509 R1500	19
		1 SPDT	spring	1	1mA-6A	12	R600		I		RBR 121AI-24VAC/DC	1SNA 645 533 R2400	19
		1 SPDT	spring	1	1mA-6A	12	R600		Is		RBR 121AI-24VAC/DC	1SNA 645 510 R0100	19
		1 SPDT	screw	1	10mA-8A	18	R1800				RB 121A-24VAC/DC	1SNA 610 004 R0700	25
		1 SPDT	screw	1	5mA-3A	18	R1800			C, V	RB 121CV-24VAC/DC orange	1SNA 010 184 R1200	27
		1 SPDT	screw	1	1µA-5A	18	R1800			C, V	RB 121CV-24VAC/DC orange	1SNA 010 154 R2300	27
		1 SPDT	screw	1	1mA-6A	11,5	R900				RB 121A-24VAC/DC	1SNA 630 002 R0100	31
		1 SPDT	screw	1	1mA-6A	11,5	R900			I	RB 121AI-24VAC/DC	1SNA 630 007 R0600	32
		1 SPDT	screw	1	10mA-10A	17,8	R20000				RM 121A-24VAC/DC	1SNA 020 042 R2000	35
		1 SPDT	screw	1	10mA-16A	22,5	R20000				RM 121-24VDC	1SNA 020 046 R2400	35
		1 SPDT	screw	4	10mA-16A	89	R20000				RM 421A-24VAC/DC	1SNA 020 054 R2400	36
1 SPDT	screw	8	10mA-16A	165	R20000				RM 821A-24VAC/DC	1SNA 020 070 R0000	36		
1 SPDT	screw	16	10mA-16A	325	R20000				RM 1621A-24VAC/DC	1SNA 020 086 R1500	36		
1 SPDT	screw	4	1mA-8A	63,5	R20000			Negative	RM 421N-24VDC	1SNA 020 604 R0100	37		
1 SPDT	screw	8	1mA-8A	132	R20000			Negative	RM 821N-24VDC	1SNA 020 112 R1300	37		
1 SPDT	screw	16	1mA-8A	252	R20000			Negative	RM 1621N-24VDC	1SNA 020 113 R1400	37		

Notes :

P Pluggable relays
R Leakage current protection

I External switch to force the coil
Is Internal switch to force the coil

V Overvoltage protection with varistor
C Static sensor compatible

Negative Coil common in negative
Positive Coil common in positive
TTL TTL compatible

High runners in bold characters
Marine Certifications :

Input type	Rated voltage	Contact type	Connection type	Nb of relays	Current in contacts	Spacing (mm)	Series	Available approvals	Particularities	Product type	Part number	Page	
AC input	48 VAC	1 DPDT	spring	1	1mA-8A	12	R600			RBR 122A-48-60VAC/DC	1SNA 645 540 R1700	20	
		1 DPDT	screw	1	10mA-5A	18	R1800		V	RB 122AV-48VAC/DC	1SNA 610 122 R2100	29	
		1 DPDT	screw	1	10mA-5A	23	R20000			RM 122A-48VAC/DC	1SNA 020 107 R2700	38	
	60 VAC	1 NO	screw	1	10mA-6A	6	R600				RB 111A-48-60VAC/DC	1SNA 645 015 R2000	16
		1 NO	spring	1	10mA-6A	6	R600				RBR 111A-48-60VAC/DC	1SNA 645 515 R2200	16
		1 SPDT	screw	1	10mA-6A	6	R600				RB 121A-48-60VAC/DC	1SNA 645 002 R0400	17
		1 SPDT	screw	1	1mA-6A	6	R600				RB 121A-48-60VAC/DC	1SNA 645 006 R0000	18
		1 SPDT	spring	1	10mA-6A	6	R600				RBR 121A-48-60VAC/DC	1SNA 645 502 R0600	17
		1 SPDT	spring	1	1mA-6A	6	R600				RBR 121A-48-60VAC/DC	1SNA 645 506 R0200	18
		1 DPDT	screw	1	1mA-8A	12	R600				RB 122A-48-60VAC/DC	1SNA 645 040 R1500	20
		1 DPDT	spring	1	1mA-8A	12	R600				RBR 122A-48-60VAC/DC	1SNA 645 540 R1700	20
	110-115 VAC	1 NO	screw	1	10mA-6A	6	R600				RB 111A-115VAC/DC	1SNA 645 016 R2100	16
		1 NO	spring	1	10mA-6A	6	R600				RBR 111A-115VAC/DC	1SNA 645 516 R2300	16
		1 NO	screw	1	10mA-6A	12,7	R20000				RM 111A-110VAC/DC	1SNA 020 323 R2600	34
		1 NO+1 NC	screw	1	10mA-5A	18	R1800			C, V, R	RB 131BCVR-110VAC/DC	1SNA 010 183 R1100	23
		1 NO+1 NC	screw	1	1µA-5A	18	R1800			C, V, R	RB 131BCVR-110VAC	1SNA 010 153 R2200	23
		1 SPDT	screw	1	10mA-6A	6	R600				RB 121A-115VAC/DC	1SNA 645 003 R0500	17
		1 SPDT	screw	1	1mA-6A	6	R600				RB 121A-115VAC/DC	1SNA 645 007 R0100	18
		1 SPDT	screw	1	10mA-6A	12	R600			R	RB 121AR-115VAC/DC	1SNA 645 046 R0700	19
		1 SPDT	screw	1	10mA-6A	5,08	R500			P	D 2,5/5-R121L-110VAC	1SNA 607 264 R1100	21
		1 SPDT	spring	1	10mA-6A	6	R600				RBR 121A-115VAC/DC	1SNA 645 503 R0700	17
		1 SPDT	spring	1	1mA-6A	6	R600				RBR 121A-115VAC/DC	1SNA 645 507 R0300	18
		1 SPDT	spring	1	10mA-6A	12	R600			R	RBR 121AR-115VAC/DC	1SNA 645 546 R0100	19
		1 SPDT	screw	1	10mA-8A	18	R1800				RB 121A-110-135VAC/DC	1SNA 010 226 R2300	26
		1 SPDT	screw	1	10mA-8A	18	R1800				RB 121A-110-230VAC/DC	1SNA 610 132 R2300	25
		1 SPDT	screw	1	10mA-3A	23	R1800				RB 121B-115VAC gris	1SNA 010 067 R2700	26
		1 SPDT	screw	1	10mA-3A	23	R1800				RM 121B-115VAC orange	1SNA 010 088 R2500	26
		1 SPDT	screw	1	10mA-8A	18	R1800			R	RB 121AR1-110VAC/DC	1SNA 010 158 R0700	26
		1 SPDT	screw	1	10mA-8A	18	R1800			R	RB 121AR2-110VAC/DC	1SNA 010 168 R0100	26
		1 SPDT	screw	1	5mA-3A	18	R1800			C, V, R	RB 121BCVR-110VAC orange	1SNA 010 186 R1400	27
		1 SPDT	screw	1	1µA-5A	18	R1800			C, V, R	RB 121BCVR-110VAC orange	1SNA 010 156 R2500	27
	1 SPDT	screw	1	1mA-5A	11,5	R900				RB 121A-110VAC 50 Hz	1SNA 630 004 R0300	32	
	1 SPDT	screw	1	1mA-5A	11,5	R900				RB 121A-115VAC 60 Hz	1SNA 630 005 R0400	32	
	1 SPDT	screw	1	100mA-8A	17,8	R20000				RM 121A-115VAC/DC	1SNA 020 044 R2200	35	
	1 SPDT	screw	4	10mA-10A	89	R20000				RM 421A-110VAC/DC	1SNA 020 052 R2200	36	
	1 SPDT	screw	8	10mA-10A	165	R20000				RM 821A-110VAC/DC	1SNA 020 068 R0200	36	
1 SPDT	screw	16	10mA-10A	325	R20000				RM 1621A-110VAC/DC	1SNA 020 084 R1300	36		
1 DPDT	screw	1	1mA-8A	12	R600				RB 122A-115VAC/DC	1SNA 645 041 R0200	20		
1 DPDT	spring	1	1mA-8A	12	R600				RBR 122A-115VAC/DC	1SNA 645 541 R0400	20		
1 DPDT	screw	1	10mA-5A	23	R1800			R	RB 122AR-110VAC/DC	1SNA 610 011 R2500	29		
1 DPDT	screw	1	10mA-3A	18	R1800			R	RB 122AR-135VAC/DC	1SNA 010 228 R0500	30		
1 DPDT	screw	1	0,1µA-5A	23	R1800			V, R	RB 122BR-110VAC	1SNA 610 115 R2200	29		
1 DPDT	screw	1	100mA-7A	15	R900			V	RB 122A-110VAC 50 Hz	1SNA 630 021 R2300	33		
1 DPDT	screw	1	100mA-7A	15	R900			V	RB 122A-115VAC 60 Hz	1SNA 630 022 R2400	33		
1 DPDT	screw	1	10mA-5A	23	R20000				RM 122A-115VAC/DC	1SNA 020 141 R2000	38		
1 DPDT	screw	8	100mA-4A	159	R20000				RM 822A-110VAC/DC	1SNA 020 150 R0500	40		
1 DPDT	screw	16	100mA-4A	300	R20000				RM 1622A-110VAC/DC	1SNA 020 152 R2300	40		

Notes :
P Pluggable relays
R Leakage current protection
I External switch to force the coil
Is Internal switch to force the coil
V Overvoltage protection with varistor
C Static sensor compatible
Negative Coil common in negative
Positive Coil common in positive
TTL TTL compatible

High runners in bold characters
Marine Certifications :

Input type	Rated voltage	Contact type	Connection type	Nb of relays	Current in contacts	Spacing (mm)	Series	Available approvals	Particularities	Product type	Part number	Page
AC input	135 VAC	1 SPDT	screw	1	10mA-8A	18	R1800			RB 121A-110-135VAC/DC	1SNA 010 226 R2300	26
		1 DPDT	screw	1	10mA-3A	18	R1800		R	RB 122AR-135VAC/DC	1SNA 010 228 R0500	30
	230 VAC	1 NO	screw	1	10mA-6A	6	R600			RB 111A-230VAC/DC	1SNA 645 017 R2200	16
			spring	1	10mA-6A	6	R600			RBR 111A-230VAC/DC	1SNA 645 517 R2400	16
		1 SPDT	screw	1	10mA-6A	6	R600		R P	RB 121A-230VAC/DC	1SNA 645 004 R0400	17
			screw	1	1mA-6A	6	R600			RB 121A-230VAC/DC	1SNA 645 008 R1200	18
		1 SPDT	screw	1	10mA-6A	12	R600		R P	RB 121AR-230VAC/DC	1SNA 645 011 R2400	19
			screw	1	10mA-6A	5,08	R500			D 2,5/5-R121L-230VAC/DC	1SNA 607 265 R1200	21
		1 SPDT	screw	1	10mA-6A	6	R600		R	RBR 121A-230VAC/DC	1SNA 645 504 R0000	17
			spring	1	1mA-6A	6	R600			RBR 121A-230VAC/DC	1SNA 645 508 R1400	18
		1 SPDT	screw	1	10mA-6A	12	R600		R	RBR 121AR-230VAC/DC	1SNA 645 511 R2600	19
			screw	1	10mA-8A	18	R1800			RB 121A-110-230VAC/DC	1SNA 610 132 R2300	25
		1 SPDT	screw	1	1mA-5A	11,5	R900		R	RB 121A-230VAC	1SNA 630 006 R0500	32
			screw	1	100mA-8A	17,8	R20000			RM 121A-230VAC/DC	1SNA 020 045 R2300	35
		1 SPDT	screw	4	10mA-10A	89	R20000		R	RM 421A-220VAC/DC	1SNA 020 053 R2300	36
			screw	8	10mA-10A	165	R20000			RM 821A-220VAC/DC	1SNA 020 069 R0300	36
		1 SPDT	screw	16	10mA-10A	325	R20000		R	RM 1621A-220VAC/DC	1SNA 020 085 R1400	36
			screw	1	1mA-8A	12	R600			RB 122A-230VAC/DC	1SNA 645 013 R2600	20
		1 DPDT	screw	1	1mA-8A	12	R600		R V, R	RBR 122A-230VAC/DC	1SNA 645 513 R2000	20
			spring	1	1mA-8A	12	R600			RB 122BR-230VAC	1SNA 610 089 R0400	29
1 DPDT	screw	1	0,1µA-5A	23	R1800		R V, R	RBR 122AV-230VAC/DC	1SNA 610 123 R2200	29		
	screw	1	10mA-5A	23	R20000			RM 122A-230VAC/DC	1SNA 020 142 R2100	38		

Notes :

P Pluggable relays
R Leakage current protection

I External switch to force the coil
Is Internal switch to force the coil

V Overvoltage protection with varistor
C Static sensor compatible

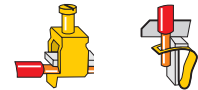
Negative Coil common in negative
Positive Coil common in positive
TTL TTL compatible

High runners in bold characters

Marine Certifications : RINA, DNV, GL, BV, LRS

Relay Interfaces

R600 relay modules

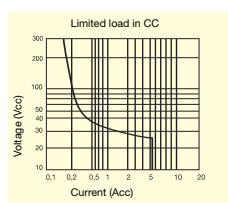


DIN 3

Relay : 1NO or 1NC high level contact 10 mA to 6 A - 6 mm .236" or 12 mm .472" spacing

Characteristics

Relay characteristics	RB 111 A					RB 111 AI	RB 111 AR	RB 101 AR
COIL								
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	24 VAC/DC	48 VAC/DC	60 VAC/DC	115 VAC/DC	±10% on AC +10% -15% on DC 230 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,24 W	0,34 W	0,54 W	0,46 W	0,8 W	0,24 W	0,24 W	0,24 W
Rated current	10 mA	7 mA	9 mA	4 mA	3,5 mA	10 mA	10 mA	10 mA
Drop-out voltage at 20°C	4,5 V	8 V	8 V	17 V	27 V	4,5 V	4,5 V	4,5 V
Status device	green LED						green LED	green LED
CONTACT								
Type	1 NO						1 NO + RC	1 NC + RC
Voltage switching range min./max.	12 V / 250 V AC							
Current switching range min./max.	10 mA / 6 A							
Load switching range	0,6 VA / 1500 VA (ohmic load)							
AC1 min. / max.	0,6 W / 140 W							
DC1 min. / max.	10 ³ on AC15							
Number of on-load operations	10 ⁷							
Number of off-load operations	10 ⁷							
Operating speed	F	5 ms	5 ms	5 ms	6 ms	7 ms	5 ms	5 ms
	O	8 ms	8 ms	8 ms	15 ms	15 ms	8 ms	8 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)							
Other characteristics	Screw clamp				Spring clamp			
Body material	grey				grey			
Wire	UL 94 V0				UL 94 V0			
Wire size	0,2 - 4 mm ² / 24 - 12 AWG				0,2 - 2,5 mm ² / 24 - 12 AWG			
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG				0,22 - 2,5 mm ² / 24 - 12 AWG			
Rated wire size	2,5 mm ² / 12 AWG				2,5 mm ² / 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
Relay module 1 NO high level 6 mm spacing	RB 111 A-24VAC/DC	1SNA 645 014 R2700	10	0,02
Relay module 1 NO high level 6 mm spacing	RB 111 A-48-60VAC/DC	1SNA 645 015 R2000	10	0,02
Relay module 1 NO high level 6 mm spacing	RB 111 A-115VAC/DC	1SNA 645 016 R2100	10	0,02
Relay module 1 NO high level 6 mm spacing	RB 111 A-230VAC/DC	1SNA 645 017 R2200	10	0,02
Relay mod. 1 NO high level w/safety switch 6 mm sp.	RB 111 AI-24VAC/DC	1SNA 645 063 R0000	10	0,02
Relay mod. 1 NO high level w/contact protection 12 mm sp.	RB 111 AR-24VAC/DC	1SNA 645 018 R0300	5	0,03
Relay mod. 1 NC high level w/contact protection 12 mm sp.	RB 101 AR-24VAC/DC	1SNA 645 019 R0400	5	0,03
Relay module 1 NO high level 6 mm spacing	RBR 111 A-24VAC/DC	1SNA 645 514 R2100	10	0,02
Relay module 1 NO high level 6 mm spacing	RBR 111 A-48-60VAC/DC	1SNA 645 515 R2200	10	0,02
Relay module 1 NO high level 6 mm spacing	RBR 111 A-115VAC/DC	1SNA 645 516 R2300	10	0,02
Relay module 1 NO high level 6 mm spacing	RBR 111 A-230VAC/DC	1SNA 645 517 R2400	10	0,02
Relay mod. 1 NO high level w/safety switch 6 mm sp.	RBR 111 AI-24VAC/DC	1SNA 645 563 R0200	10	0,02
Relay mod. 1 NO high level w/contact protection 12 mm sp.	RBR 111 AR-24VAC/DC	1SNA 645 518 R0500	5	0,03
Relay mod. 1 NC high level w/contact protection 12 mm sp.	RBR 101 AR-24VAC/DC	1SNA 645 519 R0600	5	0,03

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
	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	

Screw clamp module

70 2.76"

67,5 2.66"

35 1.38"

center of rail

Spring clamp module

75 2.95"

67,5 2.66"

37,5 1.48"

center of rail

RB...111 A - 24 V AC/DC

RB...111 A48-60-115-230 V AC/DC

RB...111 AI

RB...111 AR

RB...101 AR

BADH

BADL

BJ...

SC612

D 4/12-3...

FC2

Relay Interfaces

R600 relay modules



DIN 3

Relay : 1 SPDT high level contact 10 mA to 6 A - 6 mm .236" spacing

Characteristics

Relay characteristics COIL	RB 121		RB 121A				
	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
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						

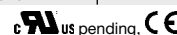
CONTACT

Type	1 SPDT						
Voltage switching range min./max.	12 V / 250 V AC						
Current switching range min./max.	10 mA / 6 A						
Load switching range	0,6 VA / 1500 VA (ohmic load)						
	0,6 W / 140 W						
Number of on-load operations	10 ⁵ on AC15						
Number of off-load operations	10 ⁷						
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)						

Other characteristics

	Screw clamp	Spring clamp
Body material	grey	grey
Wire	Solid wire	Solid wire
size	0,2 - 4 mm ² / 24 - 12 AWG	0,2 - 2,5 mm ² / 24 - 12 AWG
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG	0,22 - 2,5 mm ² / 24 - 12 AWG
Rated wire size	2,5 mm ² / 12 AWG	2,5 mm ² / 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

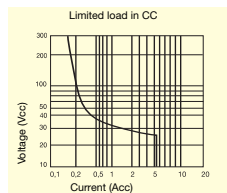
Approvals



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.



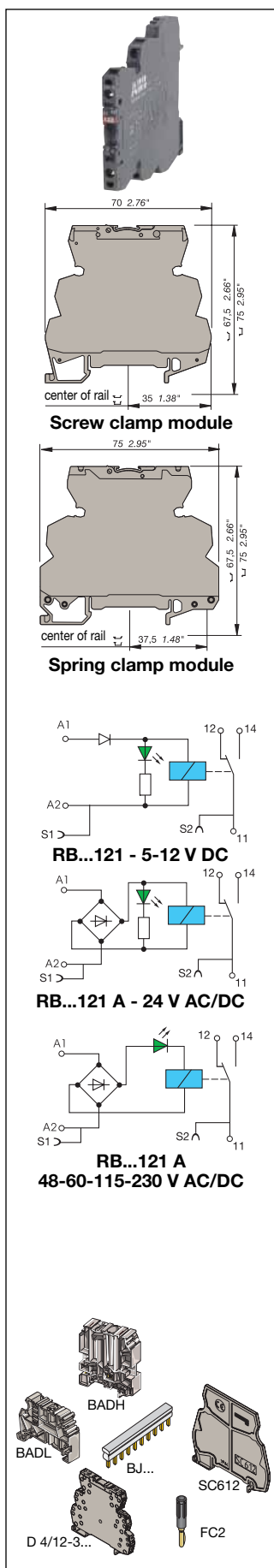
	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight
Relay module 1 SPDT high level	RB 121-5VDC	1SNA 645 034 F2300	10	0,02
Relay module 1 SPDT high level	RB 121-12VDC	1SNA 645 035 F2400	10	0,02
Relay module 1 SPDT high level	RB 121 A-24VAC/DC	1SNA 645 001 F0300	10	0,02
Relay module 1 SPDT high level	RB 121 A-48-60VAC/DC	1SNA 645 002 F0400	10	0,02
Relay module 1 SPDT high level	RB 121 A-115VAC/DC	1SNA 645 003 F0500	10	0,02
Relay module 1 SPDT high level	RB 121 A-230VAC/DC	1SNA 645 004 F0400	10	0,02
Relay module 1 SPDT high level	RBR 121-5VDC	1SNA 645 534 F2500	10	0,02
Relay module 1 SPDT high level	RBR 121-12VDC	1SNA 645 535 F2600	10	0,02
Relay module 1 SPDT high level	RBR 121 A-24VAC/DC	1SNA 645 501 F0500	10	0,02
Relay module 1 SPDT high level	RBR 121 A-48-60VAC/DC	1SNA 645 502 F0600	10	0,02
Relay module 1 SPDT high level	RBR 121 A-115VAC/DC	1SNA 645 503 F0700	10	0,02
Relay module 1 SPDT high level	RBR 121 A-230VAC/DC	1SNA 645 504 F0000	10	0,02

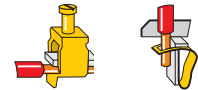
Accessories

End section	BADH V0	1SNA 116 900 F2700	50
	BADL V0	1SNA 399 903 F0200	50
	BAM2 V0	1SNA 399 967 F0100	50
Separator end section	SC 612	1SNA 290 474 F0200	10
Divisible shunt 10 poles	BJ 612-10	1SNA 290 488 F0100	10
	BJ 612-70	1SNA 290 489 F0200	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA 645 031 F2000	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA 645 531 F2200	5
Test plug DIA. 2 mm	FC2	1SNA 007 865 F2600	10
Marking method	RC65 RC610	see marking	



Relay Interfaces

R600 relay modules



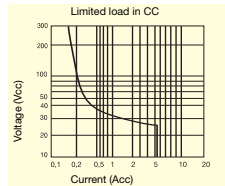
DIN 3

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

Characteristics

Relay characteristics	RB 121		RB 121 A				
	COIL						
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 230 V AC/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						
CONTACT							
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.	0,05 W / 140 W						
DC1 min. / max.							
Number of on-load operations	10 ⁵ on AC15						
Number of off-load operations	10 ⁷						
Operating speed	F	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
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	-40°C to +80°C						
storage							
operating	-20°C to +70°C (1)						
Other characteristics	Screw clamp			Spring clamp			
Body material	grey			UL 94 V0			
Wire	Solid wire			UL 94 V0			
size	0,2 - 4 mm ² / 24 - 12 AWG			0,2 - 2,5 mm ² / 24 - 12 AWG			
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG			0,22 - 2,5 mm ² / 24 - 12 AWG			
Rated wire size	2,5 mm ² / 12 AWG			2,5 mm ² / 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.



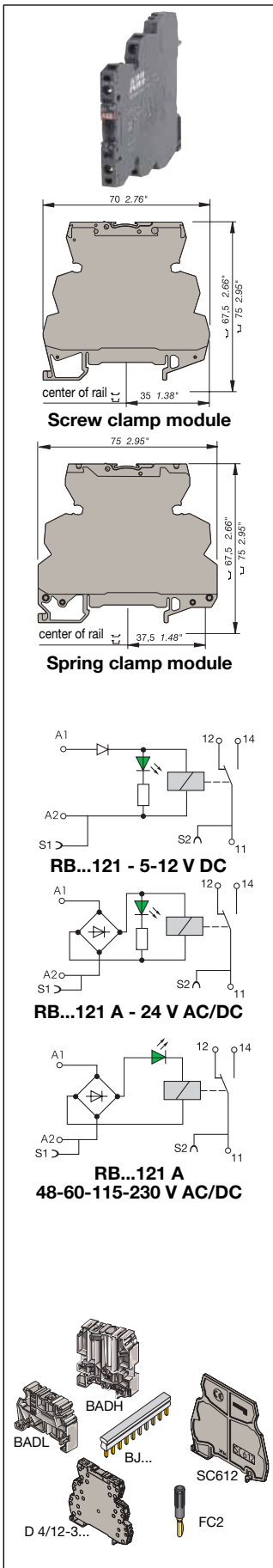
	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight
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

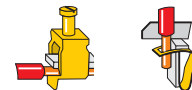
Accessories

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	

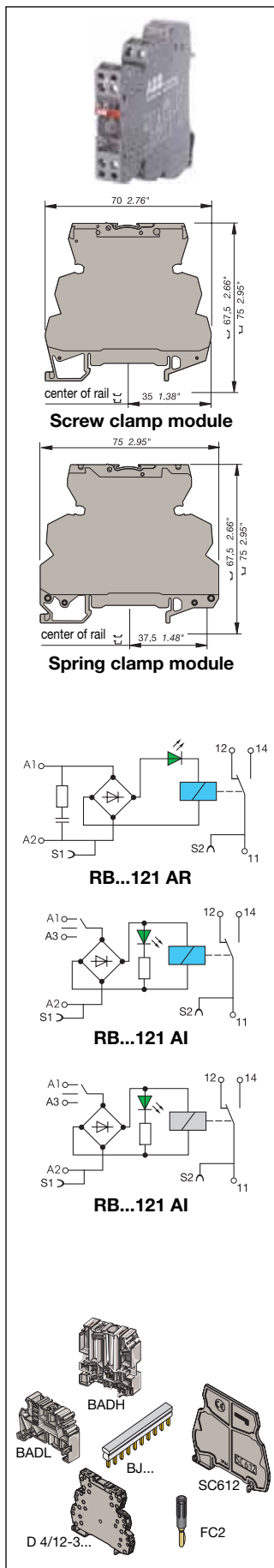


Relay Interfaces

R600 relay modules



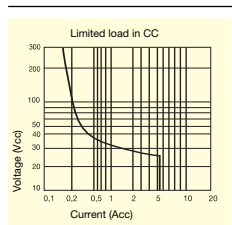
DIN 3



- Relay : 1 SPDT high level with switch or with leakage current protection - 12 mm .472" spacing
- Relay : 1 SPDT low level with switch - 12 mm .472" spacing

Characteristics

Relay characteristics	RB...121 AR		RB...121 AI		RB...121 AI	
	COIL					
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	115 V AC/DC	±10% on AC +10% -15% on DC 230 V AC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	2 W	2,8 W	0,24 W	0,24 W	0,24 W	0,24 W
Rated current	18 mA	12 mA	10 mA	10 mA	10 mA	10 mA
Drop-out voltage at 20°C	17 V	27 V	4,5 V	4,5 V	4,5 V	4,5 V
Permissible leakage current	1,6 mA	1 mA				
Status device	green LED				green LED	
CONTACT						
Type	1 SPDT					
Voltage switching range min./max.	12 V / 250 V				5 V / 250 V	
Current switching range min./max.	10 mA / 6 A				1 mA / 6 A	
Load switching range						
AC1 min. / max.	0,6 VA / 1500 VA (ohmic load)				0,05 VA/1500 VA (ohmic load)	
DC1 min. / max.	0,6 W / 140 W				0,05 W / 140 W	
Number of on-load operations	10 ⁵ on AC15				10 ⁵ on AC15	
Number of off-load operations	10 ⁷				10 ⁷	
Operating speed	F 6 ms	7 ms	5 ms	5 ms	5 ms	5 ms
	O 15 ms	16 ms	8 ms	8 ms	8 ms	8 ms
Bounce						
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)					
Other characteristics	Screw clamp				Spring clamp	
Body material	grey UL 94 V0				UL 94 V0	
Wire	Solid wire				0,2 - 2,5 mm ² / 24 - 12 AWG	
size	Stranded wire				0,22 - 2,5 mm ² / 24 - 12 AWG	
Rated wire size	2,5 mm ² / 12 AWG				2,5 mm ² / 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						
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 mod. 1SPDT high level w/leakage current protec.	RB 121 AR-115VAC/DC	1SNA 645 046 R0700	5	0,03
Relay mod. 1SPDT high level w/leakage current protec.	RB 121 AR-230VAC/DC	1SNA 645 011 R2400	5	0,03
Relay mod. 1SPDT high level with switch	RB 121 AI-24VAC/DC	1SNA 645 032 R2100	5	0,03
Relay mod. 1SPDT high level with safety switch	RB 121 AI-24VAC/DC	1SNA 645 009 R1300	5	0,03
Relay module 1SPDT low level with switch	RB 121 AI-24VAC/DC	1SNA 645 033 R2200	5	0,03
Relay module 1SPDT low level with safety switch	RB 121 AI-24VAC/DC	1SNA 645 010 R0700	5	0,03
Relay mod. 1SPDT high level w/leakage current protec.	RBR 121 AR-115VAC/DC	1SNA 645 546 R0100	5	0,03
Relay mod. 1SPDT high level w/leakage current protec.	RBR 121 AR-230VAC/DC	1SNA 645 511 R2600	5	0,03
Relay mod. 1SPDT high level with switch	RBR 121 AI-24VAC/DC	1SNA 645 532 R2300	5	0,03
Relay mod. 1SPDT high level with safety switch	RBR 121 AI-24VAC/DC	1SNA 645 509 R1500	5	0,03
Relay module 1SPDT low level with switch	RBR 121 AI-24VAC/DC	1SNA 645 533 R2400	5	0,03
Relay module 1SPDT low level with safety switch	RBR 121 AI-24VAC/DC	1SNA 645 510 R0100	5	0,03

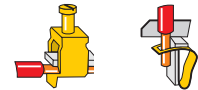
Accessories

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
Screw 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	



Relay Interfaces

R600 relay modules



DIN 3

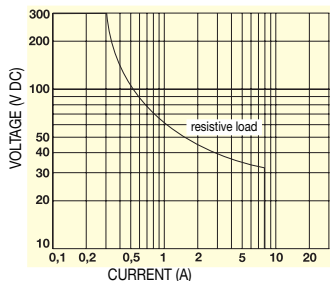
Relay : 1 DPDT low level contact 1 mA to 8 A - 12 mm .472" spacing

Characteristics

Relay characteristics	RB...122A				
	COIL				
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	50 / 60 Hz
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,48 W	0,62 W	0,96 W	0,58 W	1,15 W
Rated current	20 mA	13 mA	16 mA	5 mA	5 mA
Drop-out voltage at 20°C	5,4 V	8,8 V	8,8 V	20 V	10 V
Status device	green LED				
CONTACT	1 DPDT				
Type	5 V / 250 V DC - 250 V AC				
Voltage switching range min./max.	1 mA / 8 A				
Current switching range min./max.	1 mA / 5 A				
Load switching range	5 mVA / 1500 VA				
AC1 min. / max.	5 mW / 192 W				
DC1 min. / max.	10 ⁵				
Number of on-load operations	2 x 10 ⁷				
Number of off-load operations	6 ms				
Operating speed F	6 ms	10 ms	10 ms	6 ms	6 ms
O	10 ms	14 ms	14 ms	15 ms	15 ms
Bounce	1 ms				
Insulation coil / contact	3500 V RMS				
Resistance to shock coil / contact	3500 V RMS				
Insulation contact / contact	3500 V RMS (between 2 contacts)				
Ambient temperature storage	-40°C to +80°C				
operating	-20°C to +70°C (1)				
Other characteristics	Screw clamp		Spring clamp		
Body material	grey		UL 94 V0		
Wire	Solid wire		UL 94 V0		
size	0,2 - 4 mm ² / 24 - 12 AWG		0,2 - 2,5 mm ² / 24 - 12 AWG		
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG		0,22 - 2,5 mm ² / 24 - 12 AWG		
Rated wire size	2,5 mm ² / 12 AWG		2,5 mm ² / 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.

Max. DC load breaking capacity

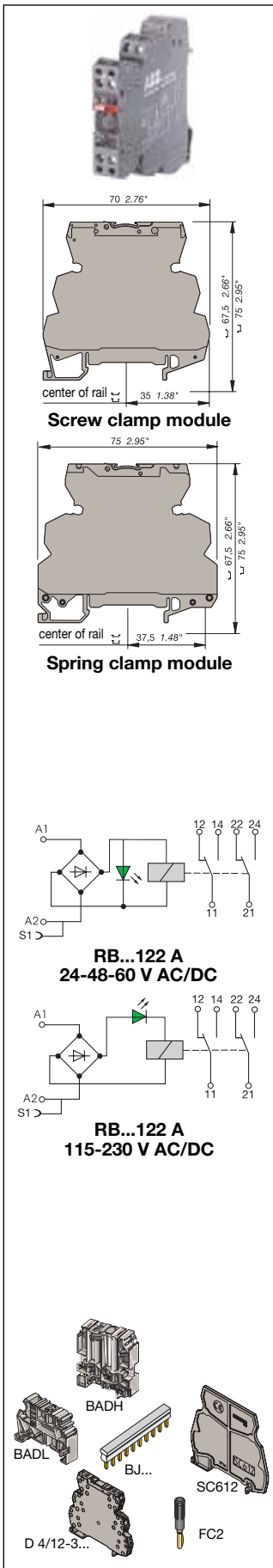


Order codes

Description	Type	Order P/N	Packaging	Weight
Relay module 1 DPDT low level	RB 122 A-24VAC/DC	1SNA 645 012 R2500	5	0,03 kg
Relay module 1 DPDT low level	RB 122 A-48-60VAC/DC	1SNA 645 040 R1500	5	0,03 kg
Relay module 1 DPDT low level	RB 122 A-115VAC/DC	1SNA 645 041 R0200	5	0,03 kg
Relay module 1 DPDT low level	RB 122 A-230VAC/DC	1SNA 645 013 R2600	5	0,03 kg
Relay module 1 DPDT low level	RBR 122 A-24VAC/DC	1SNA 645 512 R2700	5	0,03 kg
Relay module 1 DPDT low level	RBR 122 A-48-60VAC/DC	1SNA 645 540 R1700	5	0,03 kg
Relay module 1 DPDT low level	RBR 122 A-115VAC/DC	1SNA 645 541 R0400	5	0,03 kg
Relay module 1 DPDT low level	RBR 122 A-230VAC/DC	1SNA 645 513 R2000	5	0,03 kg

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
	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	



Relay Interfaces

R500 pluggable relay modules



DIN 3

Pluggable relay : 1 SPDT high level contact 10 mA to 6 A - 5.08 mm .200" spacing

Characteristics

Relay characteristics	D 2,5/5-R121	D 2,5/5-R121L	D 2,5/5-R121AL				D 2,5/5-R121BL	
COIL								
Rated voltage $\pm 20\%$, -15% DC, $\pm 15\%$ AC	24 V DC	24 V DC	24 V AC	24 V DC	48 V AC	48 V DC	110 V AC	230 V AC
Frequency			50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	50 / 60 Hz
Power	0.17 W	0.3 W	0.35 VA	0.35 W	0.44 VA	0.47 W	1.08 VA	2.13 VA
Rated current	7 mA	12 mA	12.4 mA	10 mA	7.6 mA	6.8 mA	8.4 mA	8 mA
Drop-out voltage at 20°C	2.4 V	2.4 V	4.8 V	4.8 V	10 V	10 V	25 V	45 V
Status device					green LED			

CONTACT

Type	1 SPDT							
Voltage switching range min./max.	12 V / 250 V AC							
Current switching range min./max.	10 mA / 6 A							
Load switching range	0.6 VA / 1500 VA (ohmic load)							
AC1 min. / max.	0.6 W / 140 W							
DC1 min. / DC13 max.	10 ⁵ in AC15							
Number of on-load operations	10 x 10 ⁵							
Number of off-load operations	10 x 10 ⁵							
Pull-in time (delay time)	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms
Drop-out time (delay time)	8 ms	8 ms	15 ms	15 ms	15 ms	15 ms	15 ms	15 ms
Bounce time	1.5 ms							
Insulation coil / contacts	4000 V RMS							
Breakdown voltage coil / contacts	4000 V RMS							
Insulation contacts/contacts	1000 V RMS							
Storage ambient temperature	- 40°C to + 80°C							
Operating ambient temperature	See derating curves							

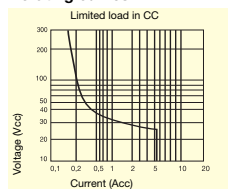
Other characteristics

Body material	grey	UL 94 V0
Wire	Solid wire	0.2-4 mm ² / 24-12 AWG
Wire size	Stranded wire	0.22-2.5 mm ² / 24-12 AWG
Rated wire size		2.5 mm ² / 12 AWG
Wire stripping length		10 mm .394"
Recommended screwdriver		3.5 mm .137"
Protection		IP 20 NEMA 1
Recommended torque		0.4-0.6 Nm 3.5-5.3 lb.in
Approvals		

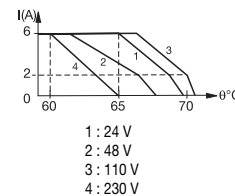
Reference standards

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.

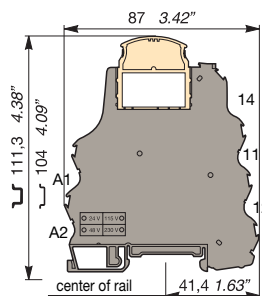
Derating curves



	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

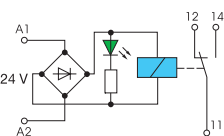


D 2,5/5-R121

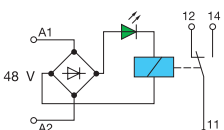


D 2,5/5-R121

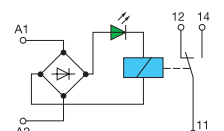
D 2,5/5-R121L



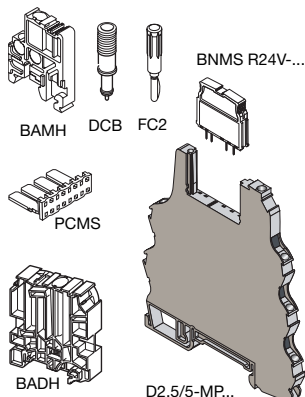
D 2,5/5-R121AL-24V



D 2,5/5-R121AL-48V



D 2,5/5-R121BL



Order codes

Description	Type	Order P/N	Packaging	Weight kg
Relay module 1 SPDT high level	D 2,5/5-R121-24VDC	1SNA 607 217 R0200	10	0.032
Relay module with LED 1 SPDT high level	D 2,5/5-R121L-24VDC	1SNA 607 201 R1300	10	0.032
Relay module with LED 1 SPDT high level	D 2,5/5-R121AL-24VAC/DC	1SNA 607 231 R0000	10	0.04
Relay module with LED 1 SPDT high level	D 2,5/5-R121AL-48VAC/DC	1SNA 607 232 R0100	10	0.04
Relay module with LED 1 SPDT high level	D 2,5/5-R121BL-110VAC	1SNA 607 264 R1100	10	0.04
Relay module with LED 1 SPDT high level	D 2,5/5-R121BL-230VAC	1SNA 607 265 R1200	10	0.04

Accessories

High end stop	BAMH 9,1 mm	1SNA 114 836 R0000	50	
	BAMH V0 9,1 mm	1SNA 194 836 R0100	50	
	BADH 12 mm	1SNA 116 900 R2700	50	
Comb type jumper bar 2 to 22 poles		consult us		
Jumper bar 10 poles grey	PCMS V0	1SNA 205 523 R2200	8	
Relay / Opto base	D 2,5/5-MP	1SNA 607 224 R0100	10	0.028
Relay / Opto base with LED 24 VDC	D 2,5/5-MP-24VDC	1SNA 607 222 R0700	10	0.028
Relay / Opto base with LED 24 VAC/VDC	D 2,5/5-MP-24VAC/DC	1SNA 607 260 R2100	10	0.036
Relay / Opto base with LED 48 VAC/VDC	D 2,5/5-MP-48VAC/DC	1SNA 607 261 R1600	10	0.036
Relay / Opto base with LED 110 VAC	D 2,5/5-MP-110VAC	1SNA 607 266 R1300	10	0.036
Relay / Opto base with LED 230 VAC	D 2,5/5-MP-230VAC	1SNA 607 267 R1400	10	0.036
Plug relay 24 V 1 SPDT 10 mA to 6 A	BNMS R24V-1	1SNA 031 820 R1400	4	
Plug relay 24 V 1 SPDT 1 mA to 6 A	BNMS R24V-2	1SNA 031 847 R1300	4	
Test device	blue	DCB (1)	1SNA 105 028 R2100	10
Test plug	DIA. 2 mm	FC2	1SNA 007 865 R2600	10
Marking method	RC55	see marking		

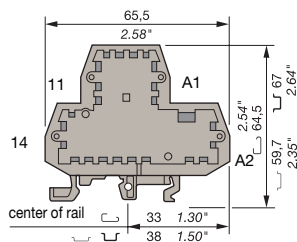
(1) Only on top decks.

Relay Interfaces

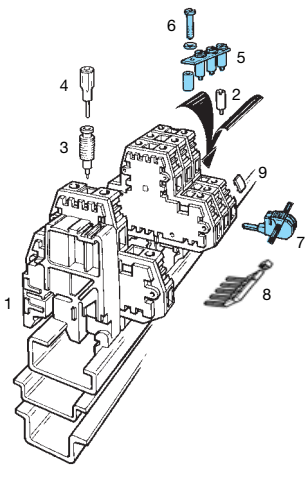
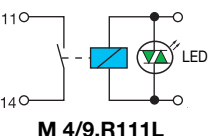
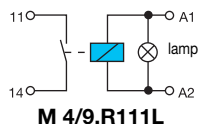
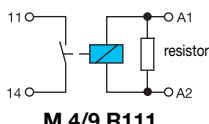
R910 relay modules



DIN 1-3



M 4/9.R111...



Relay : 1 NO high level contacts 10 mA to 5 A - 9 mm .354" spacing

Characteristics

Relay characteristics	M 4/9.R111		M 4/9.R111L		M 4/9.R111L	
COIL						
Rated voltage +20%, -20% on DC	12 V	24 V	12 V	24 V	12 V	24 V
Frequency						
Power	0.3 W	0.3 W	0.6 W	0.8 W	0.25 W	0.31 W
Rated current	24 mA	14 mA	52 mA	33 mA	21 mA	13 mA
Drop-out voltage at 20°C	1.2 V DC	2.4 V DC	1.2 V	2.4 V	1.2 V	2.4 V
Allowable leakage current	2 mA	1 mA	4 mA	3 mA	1.5 mA	0.7 mA
Status device			lamp		green LED	

CONTACT

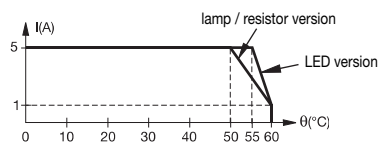
Type	1 NO					
Voltage switching range min./max.	12 V / 150 V DC - 250 V AC					
Current switching range	10 mA / 5 A					
Load switching range	0.6 VA / 1250 VA					
AC1 min. / max.	0.6 W / 150 W					
DC1 min. / max.	1 x 10 ⁶					
Number of on-load operations	2 x 10 ⁷					
Number of off-load operations	5 ms					
Pull-in time (delay time)	7 ms					
Drop-out time (delay time)	6 ms				6 ms	
Bounce time	4 ms					
Insulation coil / contacts	3000 V RMS		4000 V RMS		2500 V RMS	
Breakdown voltage with 1.2/50µ wave	750 V RMS					
Insulation contacts/contacts	-40°C to +80°C					
Storage ambient temperature	See derating curve hereunder					

Other characteristics

Body material	grey	UL 94 V0
Wire	Solid wire	0.2-4 mm ² / 22-12 AWG
size	Stranded wire	0.22-2.5 mm ² / 22-12 AWG
Rated wire size		2.5 mm ² / 12 AWG
Wire stripping length		9 mm .354"
Recommended screwdriver		3.5 mm .137"
Protection		IP 20 NEMA 1
Recommended torque		0.4-0.6 Nm 3.5-5.3 lb.in
Approvals	UL US - CE	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 curve



Order codes

Description	Type	Order P/N	Packaging	Weight kg
Relay module 1 NO high level	M 4/9.R111-12VDC	1SNA 607 029 R0100	10	0.02
Relay module 1 NO high level	M 4/9.R111-24VDC	1SNA 607 030 R0600	10	0.02
Relay module with lamp 1NO high level protected against leakage current	M 4/9.R111L-12VDC	1SNA 607 001 R0600	10	0.02
Relay module with lamp 1NO high level protected against leakage current	M 4/9.R111L-24VDC	1SNA 607 002 R0700	10	0.02
Relay module with LED 1 NO high level	M 4/9.R111L-12VDC	1SNA 607 051 R0700	10	0.02
Relay module with LED 1 NO high level	M 4/9.R111L-24VDC	1SNA 607 052 R0000	10	0.02

Accessories

1 High end stop (all rails)	BAMH	9,1 mm	1SNA 114 836 R0000	50
2 Test socket	DIA. 2 mm	AL2 (1)	1SNA 163 070 R0000	50
	DIA. 3 mm	AL3 (1)	1SNA 163 261 R0000	50
3 Test device	grey	DCG	1SNA 163 218 R0500	10
4 Test plug		FC2	1SNA 007 865 R2600	10
5 Jumper bar	8 poles	BJS9 (1)(2)	1SNA 177 583 R1200	25
	16 poles	BJS9 (1)(2)	1SNA 177 584 R1300	25
6 Sub-assembly for jumper bar (screw + jumper + post)		EV6D (1)(2)	1SNA 168 400 R1600	20
7 IDC jumper		AD2,5	1SNA 114 205 R2000	50
8 Comb type jumper bar		PC9	1SNA 210 160 R1200	10
9 Marking method		RC65 and RC610	see marking	

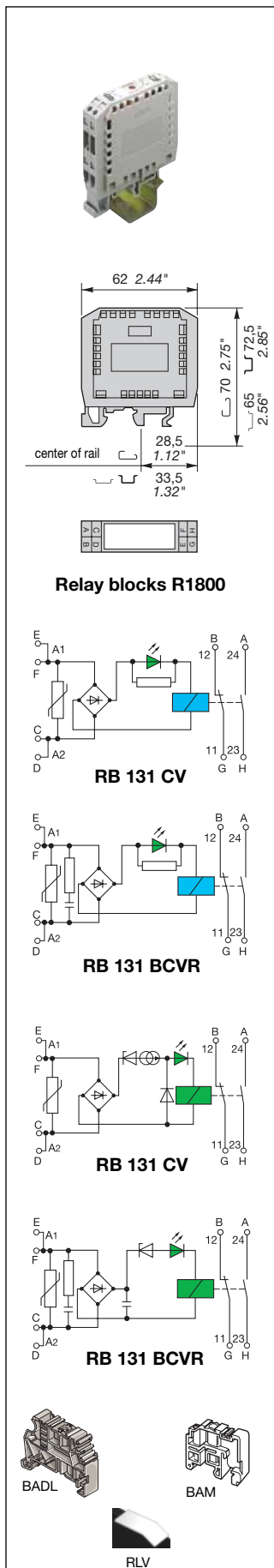
(1) These accessories can be used on the lower connection only.
 (2) Use of these accessories requires the user to cut out the precut partition.

Relay Interfaces

R1800 relay modules



DIN 1-3



- Relay : 1 NO and 1 NC high level contacts 10 mA up to 5 A - 18 mm .709" spacing
- Relay : 1 NO and 1 NC very low level contacts 10⁻⁶ mA up to 5 A - 18 mm .709" spacing

Characteristics

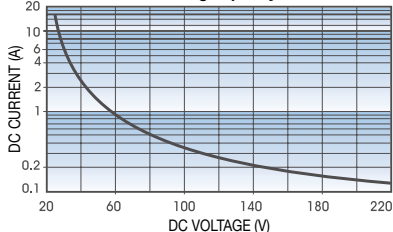
Relay characteristics	RB 131 CV		RB 131 BCVR	RB 131 CV		RB 131 BCVR
	COIL		CONTACT		COIL	
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC	48 V DC	110 V AC	24 V DC	48 V DC	110 V AC
Frequency			50/60 Hz			50/60 Hz
Power	0.6 W	0.7 W	1.9 VA	0.8 W	1.2 W	4.4 VA
Rated current	25 mA	14 mA	17 mA	34 mA	24 mA	40 mA
Drop-out voltage at 20°C	2.4 V DC	4.8 V DC	11 V AC	5 V DC	12 V DC	20 V AC
Permissible leakage current	1 mA	2 mA	2 mA	1 mA	2.2 mA	
Status device	green Led			green Led		
Type	1 NO + 1 NC			1 NO + 1 NC		
Voltage switching range min./max.	12 V / 250 V			10 ⁻³ V / 250 V		
Current switching range min./max.	10 mA / 5 A			10 ⁻⁶ mA / 5 A		
Load switching range	AC1 min. / max. DC1 min. / max.			10 ⁻⁶ VA / 1250 VA		
Number of on-load operations	2 x 10 ⁵ resistive			2 x 10 ⁵ resistive		
Number of off-load operations	2 x 10 ⁷			10 ⁷		
Operating speed	7 ms			8 ms		
Bounce	10 ms			4 ms		
Insulation coil / contact	4 ms			2500 V RMS		
Resistance to shock coil / contact				≥ 1000 V RMS		
Insulation contact / contact				-40°C à +80°C		
Ambient temperature storage operating				see derating curves		

Other characteristics

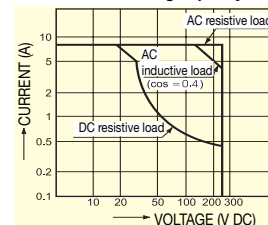
Body material	grey	UL 94 V2
Wire	Solid wire	0 - 4 mm ² / 20 - 12 AWG
size	Stranded wire	0 - 2.5 mm ² / 20 - 12 AWG
Rated wire size		2.5 mm ² / 12 AWG
Wire stripping length		7 mm .276"
Recommended screwdriver		3.5 mm .137"
Protection		IP20 NEMA1
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in
Approvals		CE

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

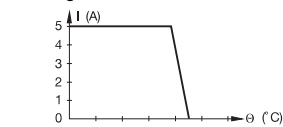
Max. DC load breaking capacity : curve 1



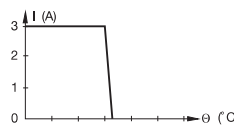
Max. DC load breaking capacity : curve 2



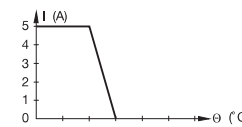
Derating curves



RB 131 CV
RB 131 BCVR



RB 131 CV
Very low level



RB 131 BCVR
Very low level

Order codes

Description	Type	Order P/N	Packaging Weight kg
■ Relay module 1 NO + 1 NC high level	RB 131 CV 24 V DC	1SNA 010 181 R1700	1
■ Relay module 1 NO + 1 NC high level	RB 131 CV 48 V DC	1SNA 010 182 R1000	1
■ Relay module 1 NO + 1 NC high level	RB 131 BCVR 110 V AC	1SNA 010 183 R1100	1
■ Relay module 1 NO + 1 NC very low level	RB 131 CV 24 V DC	1SNA 010 151 R2000	1
■ Relay module 1 NO + 1 NC very low level	RB 131 CV 48 V DC	1SNA 010 152 R2100	1
■ Relay module 1 NO + 1 NC very low level	RB 131 BCVR 110 V AC	1SNA 010 153 R2200	1

Accessories

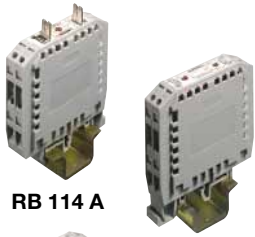
End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marker	RC55	see markers	

Relay Interfaces

R1800 relay modules



DIN 1-3



RB 114 A



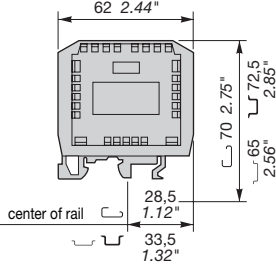
RB 211



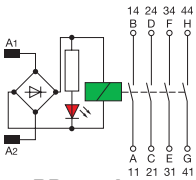
RB 310



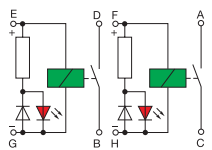
RB 131



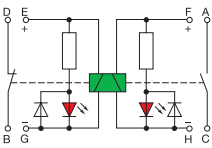
Relay blocks R1800



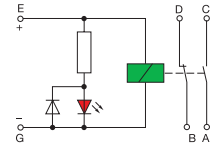
RB 114 A



RB 211



RB 310



RB 131



BADL

BAM

RLV

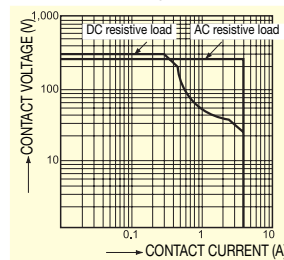
- Relay : 4 NO very low level contacts 10^{-7} A to 4 A - 18 mm .709" spacing
- 2 relays : 1 NO very low level contacts 10^{-6} A to 5 A - 18 mm .709" spacing
- Latching relay : very low level contacts 10^{-6} A to 8 A - 18 mm .709" spacing
- Relay : 1 NO and 1 NC very low level contacts 10^{-6} A to 8 A - 18 mm .709" spacing

Characteristics

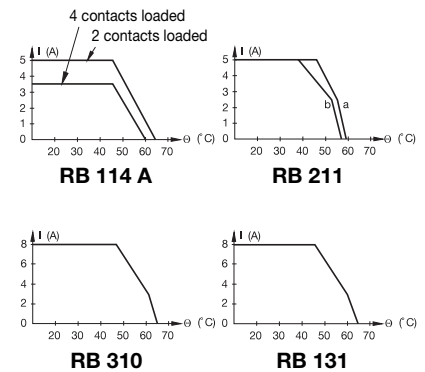
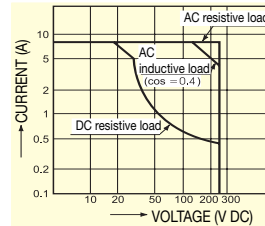
Relay characteristics	RB 114 A	RB 211	RB 310	RB 131
COIL				
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V AC/DC	48 V AC/DC	24 V DC	24 V DC
Frequency	50/60 Hz	50/60 Hz		
Power	0.6 W / 0.7 VA	0.8 W / 0.9 VA	2 x 0.36 W	0.36 W
Rated current	26 mA	17 mA	15 mA	15 mA
Drop-out voltage	2.7 V AC/DC	4 V AC/DC	2.4 V DC	
Permissible leakage current				2.4 V DC
Status device	Red Led	Red Led	Red Led	
CONTACT				
Type	4 NO	1 NO + 1 NO	1 NO + 1NC	
Voltage switching range min./max.	10^3 V / 250 V	10^3 V / 250 V	10^3 V / 250 V	
Current switching range min./max.	10^{-7} A / 4 A	10^{-6} A / 5 A	10^{-6} A / 8 A	
Load switching range				
AC1 min. / max.	10^{10} VA / 1000 VA	10^8 VA / 1250 VA	10^8 VA / 2000 VA	
DC1 min. / max.	10^{10} W / see curve 1 hereunder	10^8 W / see curve 2	10^8 W / see curve 2 hereunder	
Number of on-load operations	2×10^5 resistive	2×10^5 resistive	2×10^5 resistive	
Number of off-load operations	10^8	10^7	10^7	
Operating speed				
F	8 ms	8 ms	8 ms	
O	3 ms	4 ms	4 ms	
Bounce	0.5 ms	1 ms	1 ms	
Insulation coil / contact	1500 V RMS	2500 V RMS	2500 V RMS	
Resistance to shock coil / contact				
Insulation contact / contact	750 V RMS	1500 V RMS	1500 V RMS	
Ambient temperature storage operating				-40°C to +80°C see derating curves
Other characteristics				
Body material	grey	UL 94 V2		
Wire	Solid wire	0 - 4 mm ² / 20 - 12 AWG		
size	Stranded wire	0 - 2.5 mm ² / 20 - 12 AWG		
Rated wire size		2.5 mm ² / 12 AWG		
Wire stripping length		7 mm .276"		
Recommended screwdriver		3.5 mm .137"		
Protection		IP20 NEMA1		
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
Approvals	CE	CE	CE	CE
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6			

Derating curves

Max. DC load breaking capacity :



Max. DC load breaking capacity :



Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 4 NO very low level	RB 114 A 24 V AC/DC	1SNA 010 126 R1700	1
Relay module 4 NO very low level	RB 114 A 48 V AC/DC	1SNA 010 127 R1000	1
2 relay module 1 NO very low level	RB 211 24 V DC	1SNA 010 014 R1200	1
Latching relay module very low level	RB 310 24 V DC	1SNA 010 063 R2300	1
Latching relay module very low level	RB 310 48 V DC	1SNA 010 064 R2400	1
Relay module 1 NO + 1 NC very low level	RB 131 24 V DC	1SNA 010 055 R2300	1

Accessories

End section	Type	Order P/N	Packaging Weight kg
BADL	BADL V0	1SNA 399 903 R0200	50
BAM	BAM	1SNA 103 002 R2600	50
BAM V0	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marker	RC55	see markers	

Relay Interfaces

R1800 relay modules

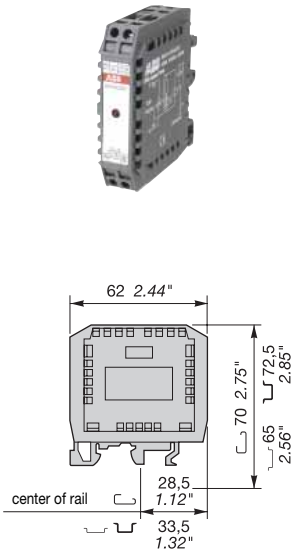


DIN 1-3

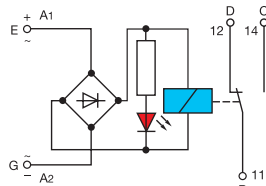
Relay : 1 SPDT high level contacts 10 mA to 8 A - 18 mm .709" spacing

Characteristics

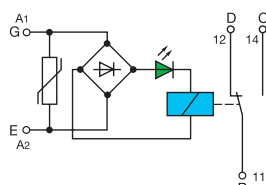
Relay characteristics	RB 121	RB 121 A	RB 121 AV	RB 121 A	
COIL					
Rated voltage +15%, -10% on DC ±15% on AC	12 V DC	24 V AC/DC	48 V AC/DC	110 V AC/DC	220 V AC/DC
Frequency		50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0.5 W	0.7 W	0.96 W	0.5 W	1.1 VA
Rated current	41 mA	29 mA	20 mA	4.3 mA	5 mA
Drop-out voltage at 20°C	3.2 V DC	5 V AC/DC	5.6 V AC/DC	14.5 V AC/DC	25.2 V AC
Permissible leakage current					
Status device	red LED		green LED	red LED	
CONTACT					
Type	1 SPDT				
Voltage switching range min./max.	12 V / 380 V				
Current switching range min./max.	10 mA / 8 A				
Load switching range	AC1 min. / max. DC1 min. / max. 0.6 VA / 2000 VA 0.6 W / see curve below				
Number of on-load operations	2 x 10 ⁵				
Number of off-load operations	2 x 10 ⁷				
Operating speed	F 7 ms O 6 ms				
Bounce	2 ms				
Insulation coil / contact	2500 V RMS				
Resistance to shock coil / contact	4000 V RMS				
Insulation contact / contact	1000 V RMS				
Ambient temperature storage operating	-40°C to +80°C see derating curves				
Other characteristics					
Body material	grey UL 94 V0				
Wire	Solid wire 0.2 - 4 mm ² / 22 - 12 AWG				
size	Stranded wire 0.22 - 2.5 mm ² / 22 - 12 AWG				
Rated wire size	2.5 mm ² / 12 AWG				
Wire stripping length	7 mm .276"				
Recommended screwdriver	3.5 mm .137"				
Protection	IP20 NEMA1				
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in				
Approvals	us for RB 121A-24VAC/DC and RB 121A-110-220VAC/DC,				
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.				



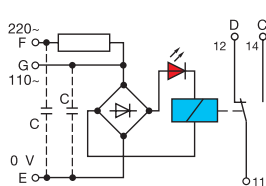
Relay blocks R1800



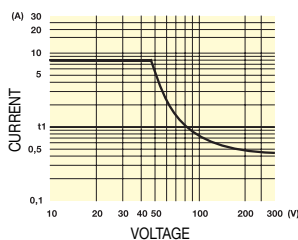
RB 121 12 VDC RB 121 A 24 VAC/DC



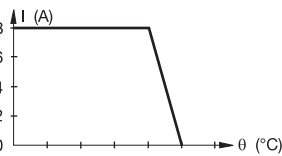
RB 121 AV 48 VAC/DC



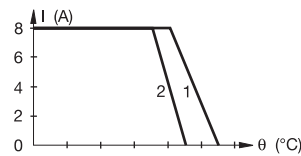
RB 121 A 110-220 VAC/DC



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

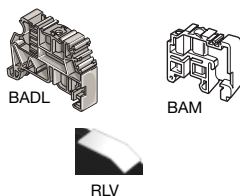
1 : 110 V AC/DC block
2 : 220 V AC block

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Relay block 1 SPDT high level	RB 121-12VDC	1SNA 610 125 R2400	1	0.05
Relay block 1 SPDT high level	RB 121A-24VAC/DC	1SNA 610 004 R0700	1	0.05
Relay block 1 SPDT high level	RB 121AV-48VAC/DC	1SNA 610 006 R0100	1	0.05
Relay block 1 SPDT high level	RB 121A-110-220VAC/DC	1SNA 610 132 R2300	1	0.05

Accessories

End section	Type	Order P/N	Packaging	Weight kg
BADL	BADL V0	1SNA 399 903 R0200	50	
BAM	BAM	1SNA 103 002 R2600	50	
BAM V0	BAM V0	1SNA 399 306 R0300	50	
Lengthwise marker	RLV	1SNA 103 849 R0300	100	
Marking method	RC55	see marking		



Relay Interfaces

R1800 relay modules



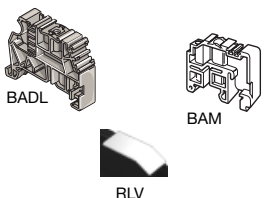
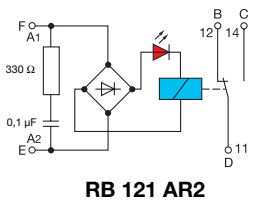
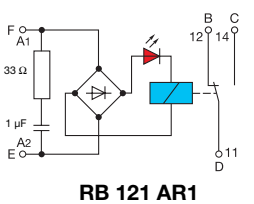
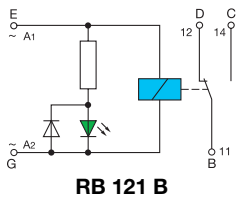
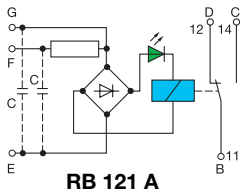
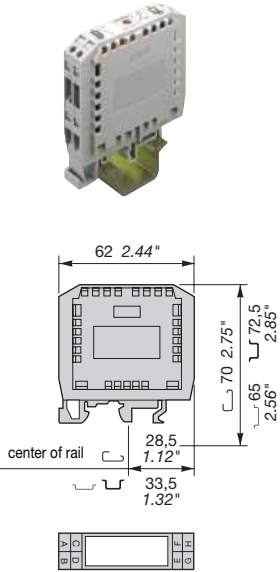
DIN 1-3

Relay : 1 SPDT high level contacts 10 mA to 8 A - 18 mm .709" or 23 mm .906" spacing

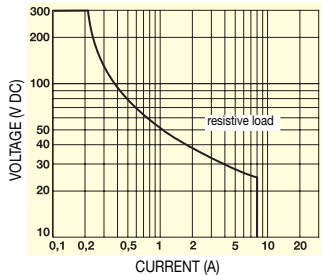
Characteristics

Relay characteristics	RB 121 A		RB 121 B	RB 121 AR1		RB 121 AR2	
COIL							
Rated voltage +20%, -15% on DC +10%, -15% on AC	110 V AC/DC	135 V AC/DC	115 V AC	110 V DC	110 V AC	110 V DC	110 V AC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz		50/60 Hz		50/60 Hz
Power	0.5 W	0.6 W	1.3 VA	0.5 W	4.4 VA	0.5 W	1 VA
Rated current	4.3 mA	4.4 mA	11 mA	4.5 mA	40 mA	4.5 mA	9 mA
Drop-out voltage	11 V AC/DC	13.5 V DC	20.7 V AC	19 V DC	20 V AC	19 V DC	20 V AC
Permissible leakage current							
Status device	green LED			red LED			
CONTACT							
Type	1 SPDT			1 SPDT			
Voltage switching range min./max.	12 V / 250 V			12 V / 380 V			
Current switching range min./max.	10 mA / 8 A		10 mA / 3 A	10 mA / 8 A			
Load switching range							
AC1 min. / max.	0.6 VA / 2000 VA		580 mVA / 750 VA	0.6 VA / 2000 VA			
DC1 min. / max.	0.6 W / see curve		230 mW / see curve	0.6 W / 90 W			
Number of on-load operations	2 x 10 ⁶ ohmic		3A/100W : 5 x 10 ⁵ 3A/750VA : 10 ⁵	2 x 10 ⁶ ohmic			
Number of off-load operations	2 x 10 ⁷		10 ⁷	2 x 10 ⁷			
Operating speed	F	7 ms	2 ms	7 ms			
	O	6 ms	2 ms	3 ms			
Bounce		2 ms	0.5 ms	2 ms			
Insulation coil / contact	2500 V RMS		1500 V RMS	2500 V RMS			
Resistance to shock coil / contact							
Insulation contact / contact	1500 V RMS		750 V RMS	1000 V RMS			
Ambient temperature	storage			-40°C to +80°C			
operating				see derating curves			
Other characteristics							
Body material	orange or grey			UL 94 V2			
Wire	Solid wire			0 - 4 mm ² / 20 - 12 AWG			
size	Stranded wire			0 - 2.5 mm ² / 20 - 12 AWG			
Rated wire size				2.5 mm ² / 12 AWG			
Wire stripping length				7 mm .276"			
Recommended screwdriver				3.5 mm .137"			
Protection				IP20 NEMA1			
Recommended torque				0.4 - 0.6 Nm 3.5 - 5.3 lb.in			
Approvals	CE			UL		FUS CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6						

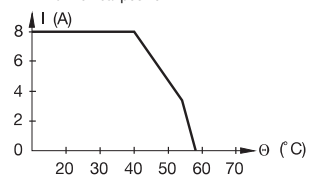
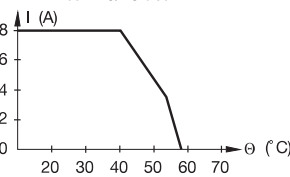
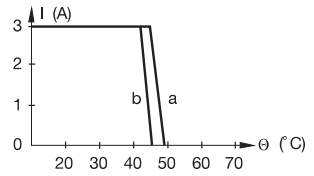
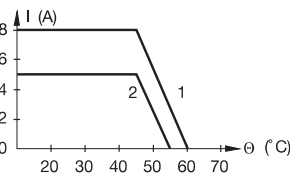
Relay blocks R1800



Max. DC load breaking capacity



Derating curves



Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 SPDT high level 18 mm spacing	RB 121 A 110-135 V AC/DC	1SNA 010 226 R2300	1
Relay module 1 SPDT high level 18 mm spacing	RB 121 B 115 V AC	1SNA 010 067 R2700	1
Relay module orange 1 SPDT high level 23 mm spacing	RB 121 B 115 V AC	1SNA 010 088 R2500	1
Relay module 1 SPDT* high level 18 mm spacing	RB 121 AR1 110 V AC/DC	1SNA 010 158 R0700	1
Relay module 1 SPDT* high level 18 mm spacing	RB 121 AR2 110 V AC/DC	1SNA 010 168 R0100	1

* with leakage current protection ; orange

Accessories

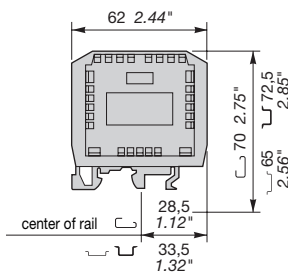
End section	Type	Order P/N	Packaging Weight kg
	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marker	RC55	see markers	

Relay Interfaces

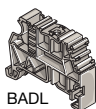
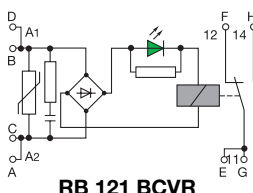
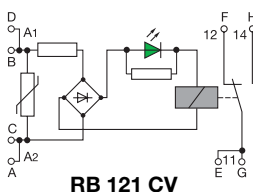
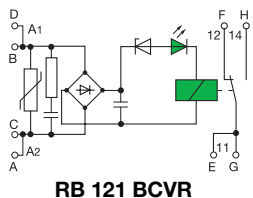
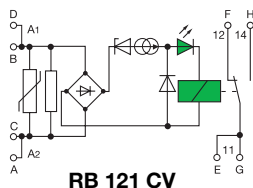
R1800 relay modules



DIN 1-3



Relay blocks R1800

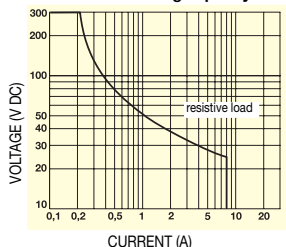


- Relay : 1 SPDT very low level contacts 10⁻⁶ A to 5 A - 18 mm .709" spacing
- Relay : 1 SPDT low level contacts 5 mA to 6 A - 18 mm .709" spacing

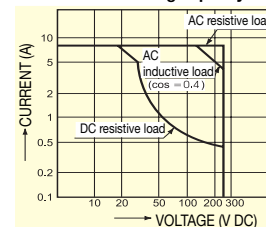
Characteristics

Relay characteristics	RB 121 CV		RB 121 BCVR	RB 121 CV		RB 121 BCVR
COIL						
Rated voltage +20%, -15% on DC +10%, -15% on AC	13.2 to 26.4 V DC	32.4 to 52.8 V DC	82 to 121 V AC	24 V DC	48 V DC	110 V AC
Frequency			50/60 Hz			50/60 Hz
Power	0.8 W	1.2 W	4.4 VA	0.85 W	1 W	3.9 VA
Rated current	34 mA	24 mA	40 mA	35 mA	20 mA	35 mA
Drop-out voltage	5 V DC	12 V DC	20 V AC	2.4 V DC	4.8 V DC	11 V AC
Permissible leakage current		1 mA	2.2 mA		3.5 mA	2 mA
Status device	green LED					
CONTACT						
Type	1 SPDT			1 SPDT		
Voltage switching range min./max.	10 ⁻³ V / 250 V			12 V / 250 V		
Current switching range min./max.	10 ⁻⁶ A / 5 A			5 mA / 3 A		5 mA / 6 A
Load switching range						
AC1 min. / max. VA	10 ⁻⁶ VA / 1250 VA			60 mVA / 750 VA		60 mVA / 1500
DC1 min. / max. VA	10 ⁻⁶ W / see curve 2 hereunder			60 mW / see curve 1 hereunder		
Number of on-load operations	2 x 10 ⁵ ohmic			2 x 10 ⁵ ohmic		
Number of off-load operations						
Operating speed	F 10 ⁷			2 x 10 ⁷		
	O 8 ms			7 ms		
Bounce	4 ms			10 ms		
Insulation coil / contact	1 ms			2500 V RMS		
Resistance to shock coil / contact				≥ 1000 V RMS		
Insulation contact / contact				-40°C à +80°C		
Ambient temperature storage				see derating curves		
Ambient temperature operating						
Other characteristics						
Body material	orange			UL 94 V2		
Wire	Solid wire			0 - 4 mm ² / 20 - 12 AWG		
Wire size	Stranded wire			0 - 2.5 mm ² / 20 - 12 AWG		
Rated wire size				2.5 mm ² / 12 AWG		
Wire stripping length				7 mm .276"		
Recommended screwdriver				3.5 mm .137"		
Protection				IP20 NEMA1		
Recommended torque				0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
Approvals				CE		
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6					

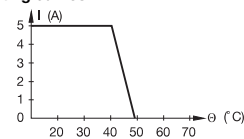
Max. DC load breaking capacity : curve 1



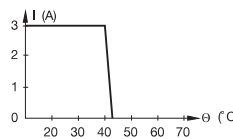
Max. DC load breaking capacity : curve 2



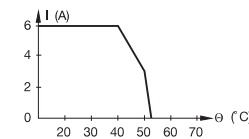
Derating curves



RB 121 CV
RB 121 BCVR



RB 121 CV



RB 121 BCVR

Order codes

Description	Type	Order P/N	Packaging Weight kg
■ Relay module 1 SPDT very low level	RB 121 CV 24 V DC	1SNA 010 154 R2300	1
■ Relay module 1 SPDT very low level	RB 121 CV 48 V DC	1SNA 010 155 R2400	1
■ Relay module 1 SPDT very low level	RB 121 BCVR 110 V AC	1SNA 010 156 R2500	1
■ Relay module 1 SPDT low level	RB 121 CV 24 V DC	1SNA 010 184 R1200	1
■ Relay module 1 SPDT low level	RB 121 CV 48 V DC	1SNA 010 185 R1300	1
■ Relay module 1 SPDT low level	RB 121 BCVR 110 V AC	1SNA 010 186 R1400	1

Accessories

End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marker	RC55	see markers	

Relay Interfaces

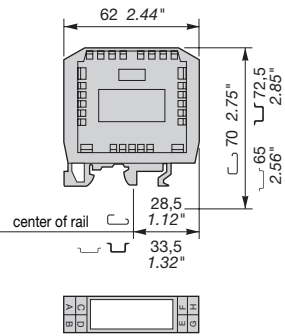
R1800 relay modules



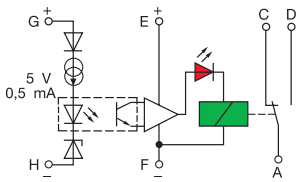
DIN 1-3



EBO 1R



Relay blocks R1800

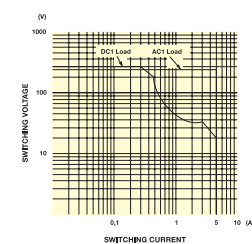


EBO 1R

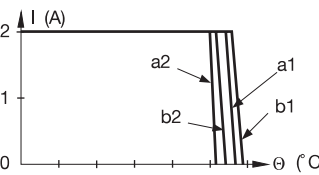
Relay : 1 SPDT with TTL compatible control - 18 mm .709" spacing

Characteristics

Relay characteristics	EBO 1R	
COIL/INPUT	Input GH	Power supply EF
Rated voltage +20%, -15% on DC +10%, -15% on AC	5 V DC	24 V to 30 V DC
Frequency		
Power	2.5 mW	0.83 W
Rated current	0.5 mA	25 mA
Drop-out point	2 V DC	17 V DC
Drop-out voltage	2.1 V	7 V
Insulation input / power supply	2000 V RMS	
Status device	red LED	
CONTACT	1 SPDT	
Type	125 V AC / 150 V DC	
Voltage switching range min./max.	2 A	
Current switching range min./max.	50 VA / 30 W	
Load switching range	10 ⁻⁵ VA / see curve hereunder	
AC1 min. / max.	10 ⁻⁵ W	
DC1 min. / max.	10 ⁶	
Load min.	2 x 10 ⁷	
Number of on-load operations	30 ms	
Number of off-load operations	11 ms	
Operating speed	0.2 ms	
Bounce	1400 V RMS	
Insulation coil / contact	2 kV	
Resistance to shock coil / contact	-40°C to +80°C	
Ambient temperature storage	see derating curve	
operating		
Other characteristics	UL 94 V2	
Body material	0 - 4 mm ² / 20 - 12 AWG	
Wire	Solid wire	
Wire size	0 - 2.5 mm ² / 20 - 12 AWG	
Stranded wire	2.5 mm ² / 12 AWG	
Rated wire size	7 mm .276"	
Wire stripping length	3.5 mm .137"	
Recommended screwdriver	IP20 NEMA1	
Protection	0.4 - 0.6 Nm 3.5 - 5.3 lb.in	
Recommended torque	CE	
Approvals		
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6	



Derating curve



a1. horizontal at 24 V
a2. horizontal at 30 V
b1. vertical at 24 V
b2. vertical at 30 V

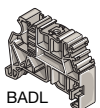
EBO 1R

Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 SPDT	EBO 1R 5 V DC	1SNA 010 131 R1400	1

Accessories

End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marking method	RC55	see markers	

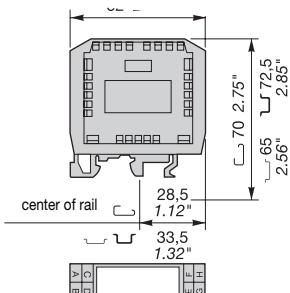


Relay Interfaces

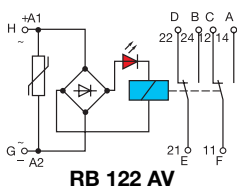
R1800 relay modules



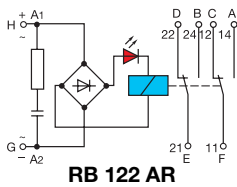
DIN 1-3



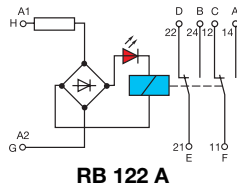
Relay blocks R1800



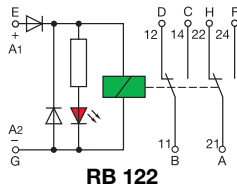
RB 122 AV



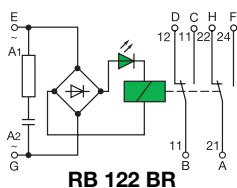
RB 122 AR



RB 122 A



RB 122



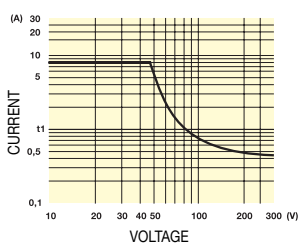
RB 122 BR



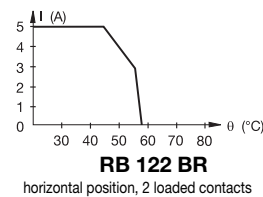
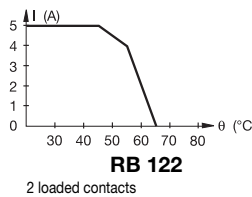
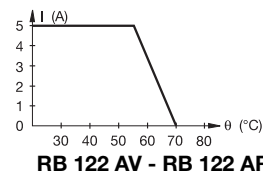
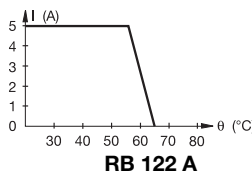
- Relay : 1 DPDT high level contacts 10 mA to 5 A - 18 mm .709" or 23 mm .906" spacing
- Relay : 1 DPDT very low level contacts 10⁻⁷ A to 5 A - 18 mm .709" or 23 mm .906" spacing

Characteristics

Relay characteristics	RB 122 AV	RB 122 AR	RB 122 A	RB 122	RB 122 BR
COIL					
Rated voltage +15%, -10% on DC ±15% on AC	24 VAC/DC	48 VAC/DC	110 VAC/DC	24 V DC	48 V DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0.7 W	0.7 W	0.7 W - 1.8 VA	1.2 W	0.31 W
Rated current	26 mA	14 mA	16 mA	5.5 mA	13 mA
Drop-out voltage at 20°C	2.4 V AC/DC	4.8 V AC/DC	11 V AC/DC	22 V AC/DC	2.4 V DC
Permissible leakage current		1.6 mA			
Status device			red LED		green LED
CONTACT					
Type	1 DPDT				
Voltage switching range min./max.	12 V / 250 V	10 ⁻³ V / 250 V	12 V / 250 V	10 ⁻³ V / 250 V	
Current switching range min./max.	10 mA / 5 A			10 ⁻⁷ A / 5 A	
Load switching range	0.6 VA / 1250 VA			10 ⁻¹⁰ VA / 1000 VA	
AC1 min. / max. DC1 min. / max.	0.6 W / see curve hereunder			10 ⁻¹⁰ W / see curve hereunder	
Number of on-load operations	2 x 10 ⁵			5A/100W - 5A/1kVA : 10 ⁵	
Number of off-load operations	2 x 10 ⁷			2 x 10 ⁸	
Operating speed	F	7 ms	4 ms	3 ms	8 ms
	O	3 ms	0.5 ms	0.5 ms	3 ms
Bounce					
Insulation coil / contact		2000 V RMS		1500 V RMS	4000 V RMS
Resistance to shock coil / contact		4000 V RMS		4000 V RMS	2000 V RMS
Insulation contact / contact		1500 V RMS		2000 V RMS	
Ambient temperature storage	-40°C to +80°C				
operating	see derating curves				
Other characteristics					
Body material	grey				
Wire	Solid wire				
Wire size	Stranded wire				
Rated wire size	2.5 mm ² / 12 AWG				
Wire stripping length	7 mm .276"				
Recommended screwdriver	3.5 mm .137"				
Protection	IP20 NEMA1				
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in				
Approvals	UL for RB 122AR-110VAC/DC, RB 122-24VDC, RB 122BR-110VAC and RB122AV-24VAC/DC, CE				
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEM : IRC 1000-4-2, 3, 4, 5, 6.				



Derating curves



Order codes

Description	Type	Order P/N	Packaging	Weight
Relay module 1 DPDT high level 18 mm sp.	RB 122AV-24VAC/DC	1SNA 610 121 R2000	1	0.05
Relay module 1 DPDT high level 18 mm sp.	RB 122AV-48VAC/DC	1SNA 610 122 R2100	1	0.05
Relay module 1 DPDT high level 18 mm sp.	RB 122AR-110VAC/DC	1SNA 610 011 R2500	1	0.05
Relay module 1 DPDT high level 18 mm sp.	RB 122A-220VAC/DC	1SNA 610 123 R2200	1	0.05
Relay module 1 DPDT very low level 18 mm sp.	RB 122-24VDC	1SNA 610 059 R1500	1	0.05
Relay module 1 DPDT very low level 18 mm sp.	RB 122-48VDC	1SNA 610 060 R1200	1	0.05
Relay module 1 DPDT very low level 23 mm sp.	RB 122BR-110VAC	1SNA 610 115 R2200	1	0.05
Relay module 1 DPDT very low level 23 mm sp.	RB 122BR-220VAC	1SNA 610 089 R0400	1	0.05

Accessories

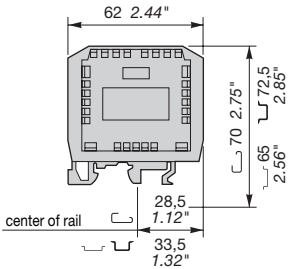
End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	
Marking method	RC55	see marking	

Relay Interfaces

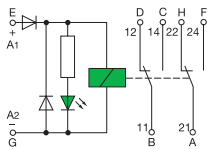
R1800 relay modules



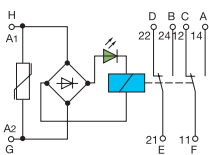
DIN 1-3



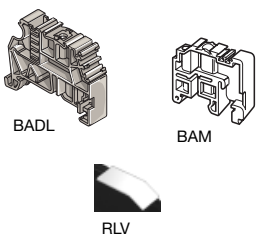
Relay blocks R1800



RB 122



RB 122 A

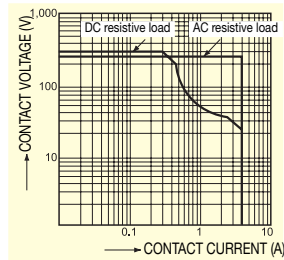


- Relay : 1 DPDT very low level contacts 10⁻⁷ A to 4 A - 18 mm .709" spacing
- Relay : 1 DPDT high level contacts 10 mA to 3 A - 18 mm .709" spacing

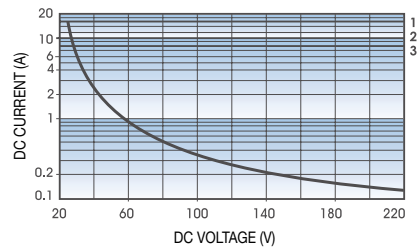
Characteristics

Relay characteristics	RB 122	RB 122 A
COIL		
Rated voltage +20%, -15% on DC +10%, -15% on AC	12 V DC	135 V AC/DC
Frequency		50/60 Hz
Power	0.26 W	0.8 W
Rated current	22 mA	5.8 mA
Drop-out voltage	2 V DC	13.5 V AC/DC
Drop-in voltage		
Permissible leakage current		
Status device	green LED	green LED
CONTACT		
Type	1 DPDT	1 DPDT
Voltage switching range min./max.	10 ³ V / 250 V	12 V / 250 V
Current switching range min./max.	10 ⁻⁷ A / 4 A	10 mA / 3 A
Load switching range		
AC1 min. / max.	10 ⁻¹⁰ VA / 1000 VA	0.6 VA / 750 VA
DC1 min. / max.	10 ⁻¹⁰ W / see curve 1 hereunder	see curve 2 hereunder
Number of on-load operations	2 x 10 ⁵ resistive	2 x 10 ⁵ resistive
Number of off-load operations	10 ⁶	2 x 10 ⁶
Operating speed		
F	8 ms	7 ms
O	7.5 ms	4 ms
Bounce	0.21 ms	3 ms
Insulation coil / contact	1500 V RMS	2000 V RMS
Resistance to shock coil / contact		
Insulation contact / contact	1500 V RMS	2000 V RMS
Ambient temperature storage	-40°C to +80°C	
operating	see derating curves	
Other characteristics		
Body material	grey	UL 94 V2
Wire	Solid wire	0 - 4 mm ² / 20 - 12 AWG
size	Stranded wire	0 - 2.5 mm ² / 20 - 12 AWG
Rated wire size		2.5 mm ² / 12 AWG
Wire stripping length		7 mm .276"
Recommended screwdriver		3.5 mm .137"
Protection		IP20 NEMA1
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in
Approvals	CE	CE, UL, cUL
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6	

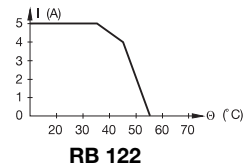
Max. DC load breaking capacity : curve 1



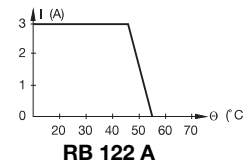
Max. DC load breaking capacity : curve 2



Derating curves



RB 122



RB 122 A

Order codes

Description	Type	Order P/N	Packaging Weight kg
■ Relay module 1 DPDT very low level	RB 122	12 V DC 1SNA 010 174 R0700	1
■ Relay module 1 DPDT high level	RB 122 A	135 V AC/DC 1SNA 010 228 R0500	1

Accessories

End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
	Lengthwise marker	RLV	1SNA 103 849 R0300
Marker	RC55	see markers	

Relay Interfaces

R900 relay modules

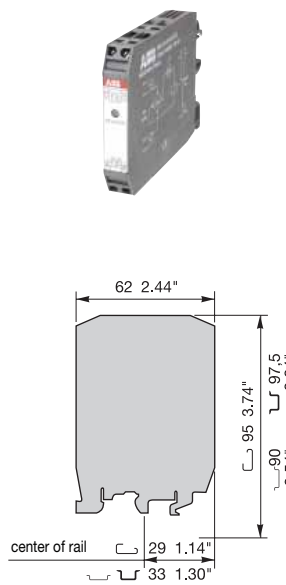


DIN 1-3

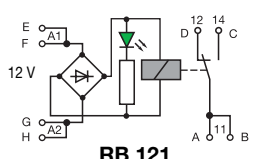
Relay : 1 SPDT low level contacts 1 mA to 6 A - 11.5 mm .453" spacing

Characteristics

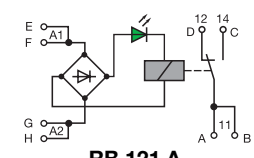
Relay characteristics	RB 121 - 12 V	RB 121 A - 24 V		RB 121 A - 48 V	
COIL					
Rated voltage +20%, -15% on DC, ±15% on AC	12 V DC	24 V AC	24 V DC	48 V AC	48 V DC
Frequency		50 / 60 Hz		50 / 60 Hz	
Power	0.5 W	0.52 VA	0.44 W	0.62 VA	0.48 W
Rated current	42 mA	22 mA	18 mA	13 mA	10 mA
Drop-out voltage at 20°C	2.8 V	4.6 V	4.6 V	5.8 V	5.8 V
Permissible leakage current	3.5 mA	2.2 mA	1.8 mA	1 mA	1 mA
Status device	green LED				
CONTACT					
Type	1 SPDT				
Voltage switching range min./max.	5 V / 150 V DC - 250 V AC				
Current switching range min./max.	1 mA / 6 A				
Load switching range					
AC1 min. / max.	5 mVA / 1500 VA				
DC1 min. / max.	5 mW / 192 W				
Number of on-load operations	1 x 10 ⁵				
Number of off-load operations	5 x 10 ⁶				
Operating speed	5 ms				
Bounce	1 ms				
Insulation coil / contact	3500 V RMS				
Resistance to shock coil / contact	4000 V RMS				
Insulation contact / contact	1000 V RMS				
Ambient temperature storage operating	-40°C to +80°C See derating curve				
Other characteristics					
Body material	grey				
Wire	Solid wire				
size	Stranded wire				
Rated wire size	UL 94 V0				
Wire stripping length	0.5 - 4 mm ² / 20 - 12 AWG				
Recommended screwdriver	0.5 - 2.5 mm ² / 20 - 12 AWG				
Protection	2.5 mm ² / 12 AWG				
Recommended torque	7 mm .276"				
Approvals	3.5 mm .137"				
Reference standards	IP20 NEMA1				
	0.4 - 0.6 Nm 3.5 - 5.3 lb.in				
	us for RB 121A-24VAC/DC,				



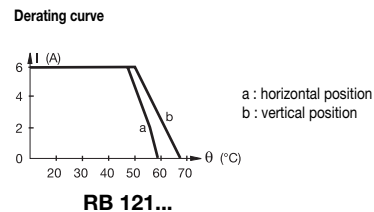
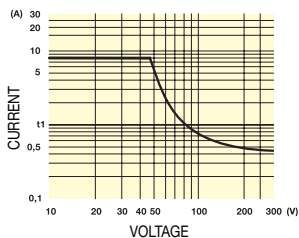
Relay blocks R900



RB 121



RB 121 A

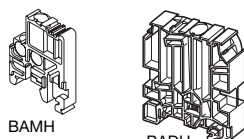


Order codes

Description	Type	Order P/N	Packaging	Weight kg
Relay module 1 SPDT low level	RB 121-12VDC	1SNA 630 001 R0000	1	0.04
Relay module 1 SPDT low level	RB 121A-24VAC/DC	1SNA 630 002 R0100	1	0.04
Relay module 1 SPDT low level	RB 121A-48VAC/DC	1SNA 630 003 R0200	1	0.04

Accessories

High end section	BADH	1SNA 116 900 R2700	50
	BAMH	1SNA 114 836 R0000	50
	BAMH V0	1SNA 194 836 R0100	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marking method	RC55	see marking	

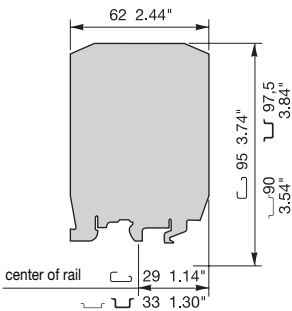


Relay Interfaces

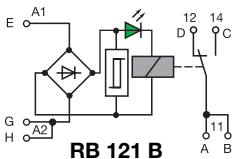
R900 relay modules



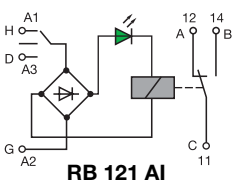
DIN 1-3



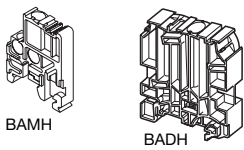
Relay blocks R900



RB 121 B



RB 121 AI

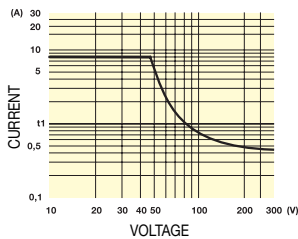


RLV

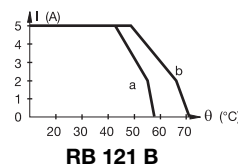
- Relay : 1 SPDT low level contacts 1 mA to 5 A - 11.5 mm .453" spacing
- Relay : 1 SPDT with switch low level contacts 1 mA to 5 A - 11.5 mm .453" spacing

Characteristics

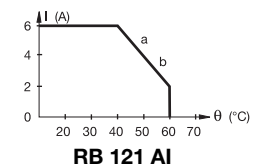
Relay characteristics	RB 121 B			RB 121 AI	
	COIL				
Rated voltage +20%, -15% on DC, ±15% on AC	110 V AC	115 V AC	230 V AC	24 V AC ±10%	24 V DC ±10%
Frequency	50 Hz	60 Hz	50 Hz	50 / 60 Hz	
Power	1.5 VA	1.6 VA	3.22 VA	0.53 VA	0.44 W
Rated current	14 mA	14 mA	14 mA	22 mA	18 mA
Drop-out voltage at 20°C	30 V AC	30 V AC	60 V AC	5.5 V	4.6 V
Permissible leakage current	2 mA max.	2 mA max.	3.6 mA max.	2.2 mA	1.8 mA
Status device	green LED				
CONTACT					
Type	1 SPDT				
Voltage switching range min./max.	5 V / 150 V DC - 250 V AC				
Current switching range min./max.	1 mA / 5 A		1 mA / 6 A		
Load switching range	5 mVA / 1250 VA		5 mVA / 1500 VA		
AC1 min. / max. DC1 min. / max.	5 mW / 192 W				
Number of on-load operations	1 x 10 ⁵				
Number of off-load operations	5 x 10 ⁶				
Operating speed	10 ms		11 ms		
Bounce	1 ms				
Insulation coil / contact	3000 V RMS				
Resistance to shock coil / contact	4000 V RMS				
Insulation contact / contact	1000 V RMS				
Ambient temperature storage operating	-40°C to +80°C				
	see derating curves				
Other characteristics					
Body material	grey				
Wire	Solid wire				
size	0.5 - 4 mm ² / 20 - 12 AWG				
Stranded wire	0.5 - 2.5 mm ² / 20 - 12 AWG				
Rated wire size	2.5 mm ² / 12 AWG				
Wire stripping length	7 mm .276"				
Recommended screwdriver	3.5 mm .137"				
Protection	IP20 NEMA1				
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in				
Approvals					
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 B



RB 121 AI

Order codes

Description	Type	Order P/N	Packaging	Weight
Relay module 1 SPDT low level	RB 121B-110VAC	1SNA 630 004 R0300	1	0.05
Relay module 1 SPDT low level	RB 121B-115VAC	1SNA 630 005 R0400	1	0.05
Relay module 1 SPDT low level	RB 121B-230VAC	1SNA 630 006 R0500	1	0.05
Relay module 1 SPDT with switch low level	RB 121AI-24VAC/DC	1SNA 630 007 R0600	1	0.05

Accessories

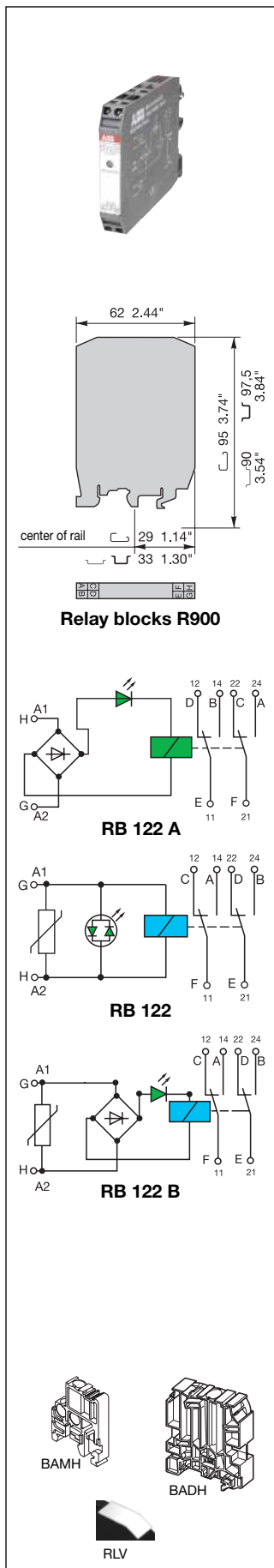
High end section	BADH	1SNA 116 900 R2700	50
	BAMH	1SNA 114 836 R0000	50
	BAMH V0	1SNA 194 836 R0100	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marking method	RC55	see marking	

Relay Interfaces

R900 relay modules



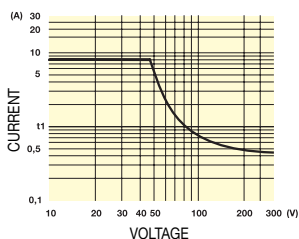
DIN 1-3



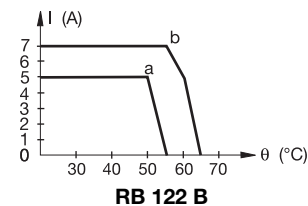
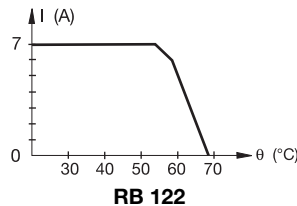
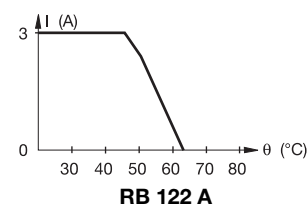
- Relay : 1 DPDT very low level contacts 10⁻⁵ A to 3 A - 11.5 mm .453" spacing
- Relay : 1 DPDT high level contacts 100 mA to 7 A - 15 mm .591" spacing

Characteristics

Relay characteristics	RB 122 A	RB 122	RB 122 B	
COIL				
Rated voltage +15%, -10% on DC ±15% on AC	24 V AC	24 V DC	24 V DC	110 V AC
Frequency	50 / 60 Hz			115 V AC
Power	0.4 VA	0.35 W	0.48 W	50 Hz
Rated current	16.8 mA	14.4 mA	20 mA	60 Hz
Drop-out voltage at 20°C	9.2 V	6.5 V	2.4 V DC	3.6 VA
Permissible leakage current	2 mA max.	2 mA max.	1.5 mA	33 mA
Status device			green LED	4 VA
				35 mA
				11 V AC
				11.5 V AC
				2 mA
				2.6 mA
CONTACT				
Type		1 DPDT		
Voltage switching range min./max.	10 ⁻⁵ V / 250 V AC		12 V / 250 V	
Current switching range min./max.	10 ⁻⁵ A / 3 A	100 mA / 7 A	100 mA / 7 A	100 mA / 7 A
Load switching range				
AC1 min. / max.	10 ⁻¹⁰ VA / 250 VA	1.2 VA / 1750 VA	1.2 VA / 1750 VA	1.2 VA / 1750 VA
DC1 min. / max.	10 ⁻¹⁰ W / 90 W	1.2 W / see curve hereunder		
Number of on-load operations	1.8 x 10 ⁶ (2 A / 60 W)			
Number of off-load operations	10 ⁸		30 x 10 ⁶	
Operating speed				
F	6 ms	8 ms		6 ms
O	11 ms	15 ms		12 ms
Bounce	1 ms		2 ms	
Insulation coil / contact	1500 V RMS		2500 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		see derating curves		
Other characteristics				
Body material	grey	UL 94 V0		
Wire	Solid wire	0.5 - 4 mm ² / 20 - 12 AWG		
size	Stranded wire	0.5 - 2.5 mm ² / 20 - 12 AWG		
Rated wire size		2.5 mm ² / 12 AWG		
Wire stripping length		7 mm .276"		
Recommended screwdriver		3.5 mm .137"		
Protection		IP20 NEMA1		
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
Approvals		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



a : 110 V AC/50 Hz block
b : 115 V AC/60 Hz block

Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 DPDT very low level 11.5 mm sp.	RB 122A-24VAC/DC	1SNA 630 011 R2100	1 0.05
Relay module 1 DPDT high level 15 mm sp.	RB 122-24VDC	1SNA 630 019 R0100	1 0.05
Relay module 1 DPDT high level 15 mm sp.	RB 122B-110VAC/50Hz	1SNA 630 021 R2300	1 0.06
Relay module 1 DPDT high level 15 mm sp.	RB 122B-115VAC/60Hz	1SNA 630 022 R2400	1 0.06

Accessories

High end section	BADH	1SNA 116 900 R2700	50
	BAMH	1SNA 114 836 R0000	50
	BAMH V0	1SNA 194 836 R0100	50
	Lengthwise marker	RLV	1SNA 103 849 R0300
Marking method	RC55	see marking	

Relay Interfaces

R20000 relay modules



DIN 1-3

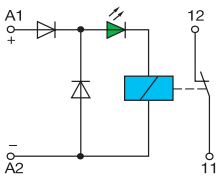
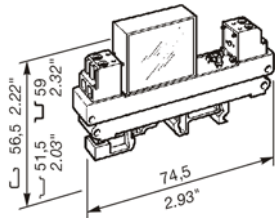
Relay modules R20000



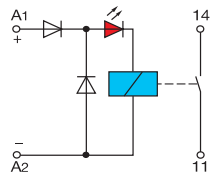
RM 101



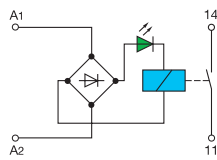
RM 111...



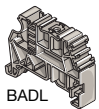
RM 101



RM 111



RM 111 A

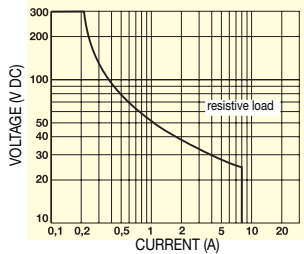


- Relay : 1 NC high level contact 10 mA to 8 A - 12,7 mm .500" spacing
- Relay : 1 NO high level contact 10 mA to 8 A - 12,7 mm .500" spacing

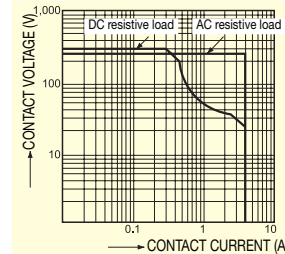
Characteristics

Relay characteristics	RM 101	RM 111				RM 111 A
COIL						
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC	12 V DC	24 V DC	48 V DC	110 V DC	110 V AC/DC
Frequency						50/60 Hz
Power	0.5 W	0.5 W	0.5 W	0.5 W	0.5 W	0.5 W
Rated current	20 mA	40 mA	20 mA	10 mA	4.3 mA	4.4 mA
Drop-out voltage	4.2 V DC	1.2 V DC	4.2 V DC	7.8 V DC	17.1 V DC	14 V AC/DC
Permissible leakage current						
Status device	green LED	green LED	red LED		green LED	
CONTACT						
Type	1 NC	1 NO			1 NO	
Voltage switching range min./max.	12 V / 250 V	12 V / 250 V			12 V / 250 V	
Current switching range min./max.	10 mA / 8 A	10 mA / 5 A			10 mA / 8 A	
Load switching range						
AC1 min. / max.	0.6 VA / 2000 VA	0.6VA/1250VA			0.6 VA / 2000 VA	
DC1 min. / max.	0.6 W/see curve 1 hereunder	0.6 W/see curve 2 hereunder			0.6 W/see curve 1 hereunder	
Number of on-load operations	2 x 10 ⁶ resistive				2 x 10 ⁶ resistive	
Number of off-load operations		10 x 10 ⁶			2 x 10 ⁷	
Operating speed						
F	4 ms	10 ms			4 ms	
O	6 ms	5 ms			6 ms	
Bounce	2 ms	2 ms			2 ms	
Insulation coil / contact	2000 V RMS	2000 V RMS			2000 V RMS	
Resistance to shock coil / contact	1.2 / 50 μs - 5 kV / 500 Ω	1.2/50μs-4kV/500Ω			1.2 / 50 μs - 5 kV / 500 Ω	
Insulation contact / contact						
Ambient temperature storage		-40°C to +80°C				
operating		see derating curves				
Other characteristics						
Body material	orange	UL 94 V2				
Wire	Solid wire	0 - 2.5 mm ² / 20 - 14 AWG				
size	Stranded wire	0 - 2.5 mm ² / 20 - 14 AWG				
Rated wire size		2.5 mm ² / 12 AWG				
Wire stripping length		6 mm .236"				
Recommended screwdriver		3.5 mm .137"				
Protection		IP20 NEMA1				
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in				
Approvals		CE	CE	CE	CE	CE
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6				

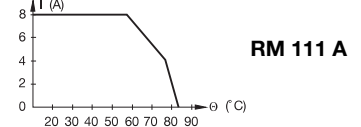
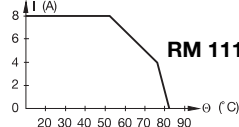
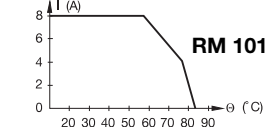
Max. DC load breaking capacity : curve 1



Max. DC load breaking capacity : curve 2



Derating curves



Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 NC high level	RM 101 24 V DC	1SNA 020 239 R0200	1
Relay module 1 NO high level	RM 111 12 V DC	1SNA 020 035 R1100	1
Relay module 1 NO high level	RM 111 24 V DC	1SNA 020 032 R1600	1
Relay module 1 NO high level	RM 111 48 V DC	1SNA 020 033 R1700	1
Relay module 1 NO high level	RM 111 110 V DC	1SNA 020 034 R1000	1
Relay module 1 NO high level	RM 111 A 110 V AC/DC	1SNA 020 323 R2600	1

Accessories

Description	Type	Order P/N	Packaging Weight kg
End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Pivoting marker-holder : quantity 20	PEF	1SNA 020 568 R0400	1
Marker	RC55	see markers	

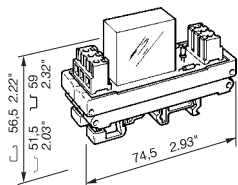
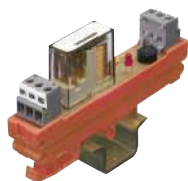
Relay Interfaces

R20000 relay modules

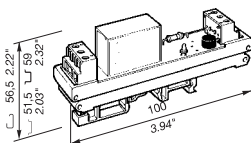


DIN 1-3

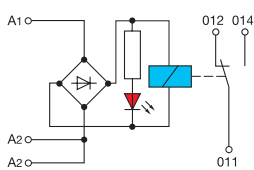
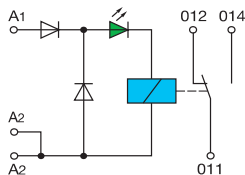
Relay modules R20000



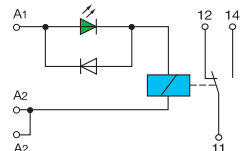
RM 121 24 V DC
RM 121 A 115 V AC/DC
RM 121 A 220 V AC/DC



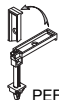
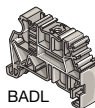
RM 121 A 24 V DC



RM 121 A 115 V AC/DC
RM 121 A 220 V AC/DC



RM 121 A 115 V AC/DC
RM 121 A 220 V AC/DC

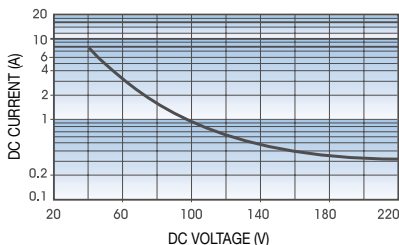


Relay : 1 SPDT high level contact 10 mA 6 A - 17,8 mm .701" or 22,5 mm .886" spacing

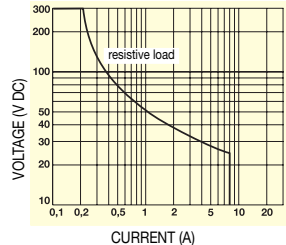
Characteristics

Relay characteristics	RM 121	RM 121 A	RM 121 A
COIL			
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC	24 V AC/DC	48 V AC/DC
Frequency		50/60 Hz	50/60 Hz
Power	0.65 W	0.7 W	0.9 W
Rated current	26 mA	30 mA	18 mA
Drop-out voltage	4 V DC	3.6 V AC/DC	7.2 V AC/DC
Permissible leakage current			
Status device	green LED	red LED	green LED
CONTACT			
Type	1 SPDT	1 SPDT	1 SPDT
Voltage switching range min./max.	12 V / 250 V	12 V / 250 V	12 V / 250 V
Current switching range min./max.	10 mA / 16 A	10 mA / 10 A	100 mA / 8 A
Load switching range			
AC1 min. / max.	0.6 VA / 4000 VA	0.6 VA / 2500 VA	0.6 VA / 2000 VA
DC1 min. / max.	0.6 W / see curve 1 hereunder	0.6 W / see curve 1 hereunder	0.6 W / see curve 1 hereunder
Number of on-load operations	2 x 10 ⁵ resistive	2 x 10 ⁵ resistive	2 x 10 ⁵
Number of off-load operations	2 x 10 ⁷	2 x 10 ⁷	3 x 10 ⁷
Operating speed			
F	7 ms	7 ms	10 ms
O	8 ms	4 ms	15 ms
Bounce	3 ms	3 ms	4 ms
Insulation coil / contact	4 000 V RMS	4 000 V RMS	2 500 V RMS
Resistance to shock coil / contact	1.2 / 50 µs - 5 kV / 500 Ω	1.2 / 50 µs - 5 kV / 500 Ω	1.2 / 50 µs - 5 kV / 500 Ω
Insulation contact / contact			1000 V RMS
Ambient temperature storage operating		-40°C to +80°C	see derating curves
Other characteristics			
Body material	orange	UL 94 V2	
Wire	Solid wire	0 - 2.5 mm ² / 20 - 14 AWG	
size	Stranded wire	0 - 2.5 mm ² / 20 - 14 AWG	
Rated wire size		2.5 mm ² / 12 AWG	
Wire stripping length		6 mm .236"	
Recommended screwdriver		3.5 mm .137"	
Protection		IP20 NEMA1	
Recommended torque		0.4 - 0.6 Nm 3.5 - 5.3 lb.in	
Approvals		CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6		

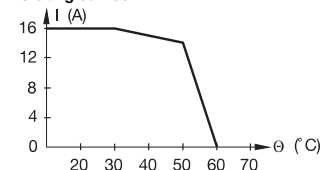
Max. DC load breaking capacity : curve 1



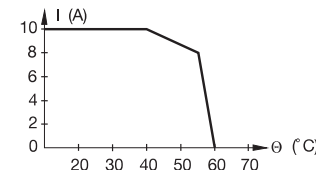
Max. DC load breaking capacity : curve 2



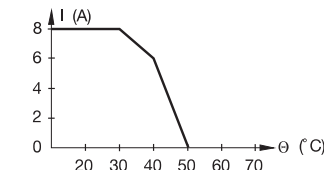
Derating curves



RM 121 24 V DC



RM 121 A 24 - 48 V AC/DC



RM 121 A 115 - 220 V AC/DC

Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 SPDT high level 22.5 mm sp.	RM 121	24 V DC 1SNA 020 046 F2400	1
Relay module 1 SPDT high level 17.8 mm sp.	RM 121 A	24 V AC/DC 1SNA 020 042 F2000	1
Relay module 1 SPDT high level 17.8 mm sp.	RM 121 A	48 V AC/DC 1SNA 020 043 F2100	1
Relay module 1 SPDT high level 17.8 mm sp.	RM 121 A	115 V AC/DC 1SNA 020 044 F2200	1
Relay module 1 SPDT high level 17.8 mm sp.	RM 121 A	220 V AC/DC 1SNA 020 045 F2300	1

Accessories

End section	BADL V0	1SNA 399 903 F0200	50
	BAM	1SNA 103 002 F2600	50
	BAM V0	1SNA 399 306 F0300	50
Lengthwise marker	RLV	1SNA 103 849 F0300	100
Pivoting marker-holder : quantity 20	PEF	1SNA 020 568 F0400	1
Marker	RC55	see markers	

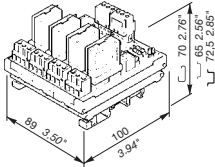
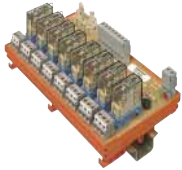
Relay Interfaces



4, 8 and 16 relay modules R20000

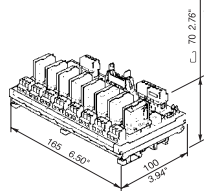
DIN 1-3

Relay modules R20000



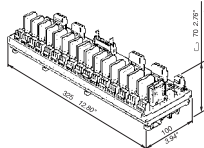
RM 421 A

Inputs : connection using pluggable connectors



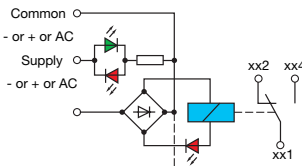
RM 821 A

10 point socket with extractors
Inputs : 24 and 48 V module connection using HE 10/10 connector mounted in parallel with pluggable connectors.
110 et 220 V module connection using pluggable connectors only.



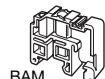
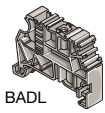
RM 1621 A

20 point socket with extractors
Inputs : 24 and 48 V module connection using HE 10/20 connector mounted in parallel with pluggable connectors.
110 et 220 V module connection using pluggable connectors only.



RM 421 A - RM 821 A - RM 1621 A

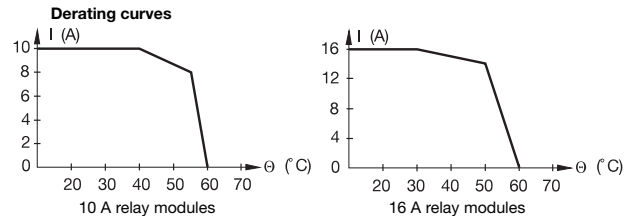
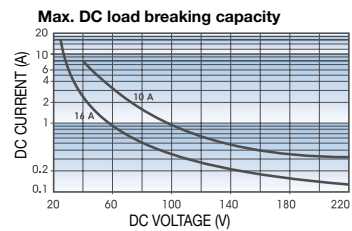
- Red diode R lighted when + on common
- Green diode V lighted when - on common
- Red diode R, green diode V both lighted when alternative



- 4 relays : 1 SPDT high level contact from 10 mA to 16 A - 89 mm 3.50" spacing
- 8 relays : 1 SPDT high level contact from 10 mA to 16 A - 165 mm 6.50" spacing
- 16 relays : 1 SPDT high level contact from 10 mA to 16 A - 325 mm 12.80" spacing

Characteristics

Relay characteristics	RM 421 A	RM 821 A	RM 1621 A
Modules equipped with relays	16 Amps	10 Amps	
COIL			
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V AC/DC	48 V AC/DC	110 V AC/DC 220 V AC/DC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power	1.32 W	1.32 W	1.32 W
Rated current	50 AC/56 DC	24 AC/28 DC	11 AC/12 DC 6 AC/65 DC
Drop-out voltage	6 AC/5.4 DC	8.7 AC/7.8 DC	15.5 AC/14 DC 27.8 AC/25 DC
Permissible leakage current			
Status device	see description on left column		
CONTACT			
Type	1 SPDT	1 SPDT	
Voltage switching range min./max.	12 V / 250 V AC		
Current switching range min./max.	10 mA / 16 A	10 mA / 10 A	
Load switching range			
AC1 min. / max. DC1 min. / max.	0.6 VA / 4000 VA 0.6 W / see curve hereunder	0.6 VA / 2500 VA 0.6 W / see curve hereunder	
Number of on-load operations	2 x 10 ⁶ resistive	2 x 10 ⁶ resistive	
Number of off-load operations	2 x 10 ⁷	2 x 10 ⁷	
Operating speed	5 ms	5 ms	
	5 ms	5 ms	
Bounce	4 ms	4 ms	
Insulation coil / contact	4 000 V RMS	4 000 V RMS	
Resistance to shock coil / contact	1.2 / 50 µs - 5 000 V / 500 Ω	1.2 / 50 µs - 5 000 V / 500 Ω	
Insulation contact / contact	2 500 V RMS	2 500 V RMS	
Ambient temperature	-40°C to +80°C		
storage	see derating curves		
operating			
Other characteristics			
Body material	UL 94 V2		
Wire	Solid wire		
size	0 - 2.5 mm ² / 20 - 14 AWG		
Stranded wire	0 - 2.5 mm ² / 20 - 14 AWG		
Rated wire size	2.5 mm ² / 12 AWG		
Wire stripping length	6 mm .236"		
Recommended screwdriver	3.5 mm .137"		
Protection	IP20 NEMA1		
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
Approvals	(RM 421 A 24 and 110 V AC/DC - RM 821 A 24 and 110 V AC/DC - RM 1621 A 24 and 110 V AC/DC)		
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6		



Order codes

Description	Type	Order P/N	Packaging Weight kg
Pluggable 4 relay module 1SPDT high level 16A	RM 421 A	24 V AC/DC 1SNA 020 054 R2400	1
Pluggable 4 relay module 1SPDT high level 10A	RM 421 A	48 V AC/DC 1SNA 020 051 R2100	1
Pluggable 4 relay module 1SPDT high level 10A	RM 421 A	110 V AC/DC 1SNA 020 052 R2200	1
Pluggable 4 relay module 1SPDT high level 10A	RM 421 A	220 V AC/DC 1SNA 020 053 R2300	1
Pluggable 8 relay module 1SPDT high level 16A	RM 821 A	24 V AC/DC 1SNA 020 070 R0000	1
Pluggable 8 relay module 1SPDT high level 10A	RM 821 A	48 V AC/DC 1SNA 020 067 R2100	1
Pluggable 8 relay module 1SPDT high level 10A	RM 821 A	110 V AC/DC 1SNA 020 068 R0200	1
Pluggable 8 relay module 1SPDT high level 10A	RM 821 A	220 V AC/DC 1SNA 020 069 R0300	1
Pluggable 16 relay module 1SPDT high level 16A	RM 1621 A	24 V AC/DC 1SNA 020 086 R1500	1
Pluggable 16 relay module 1SPDT high level 10A	RM 1621 A	48 V AC/DC 1SNA 020 083 R1200	1
Pluggable 16 relay module 1SPDT high level 10A	RM 1621 A	110 V AC/DC 1SNA 020 084 R1300	1
Pluggable 16 relay module 1SPDT high level 10A	RM 1621 A	220 V AC/DC 1SNA 020 085 R1400	1

Accessories

End section	Part	Order P/N	Weight kg
12 V relay for 24 V 16 A modules 24 V relay for 48 V 10 A modules 60 V relay for 110 V 10 A modules 110 V relay for 220 V 10 A modules	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker Pivoting marker-holder : quantity 20	RLV	1SNA 103 849 R0300	100
	PEF	1SNA 020 568 R0400	1
	Marker	RC55	see markers

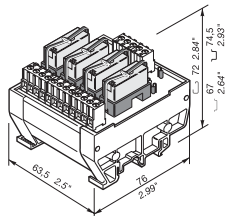
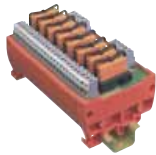
Relay Interfaces



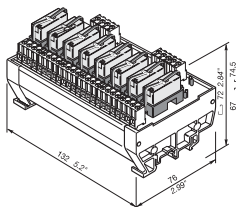
4, 8 and 16 relay modules R20000

DIN 1-3

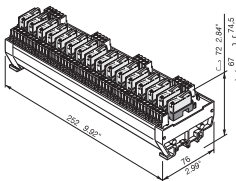
Relay modules R20000



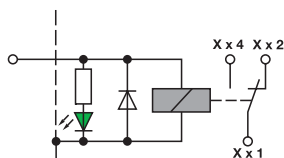
RM 421...



RM 821...

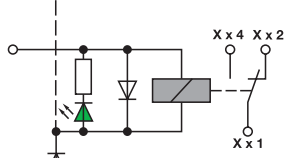


RM 1621...



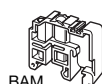
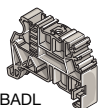
RM 421 N
RM 821 N
RM 1621 N

Negative common



RM 421 P
RM 821 P
RM 1621 P

Positive common

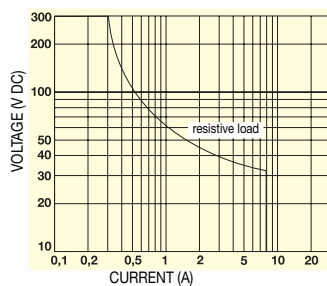


- 4 relays : 1 SPDT low level contact 1 mA to 8 A N or P version - 63,5 mm 2.5" spacing
- 8 relays : 1 SPDT low level contact 1 mA to 8 A N or P version - 132 mm 5.2" spacing
- 16 relays : 1 SPDT low level contact 1 mA to 8 A N or P version - 252 mm 10.0" spacing

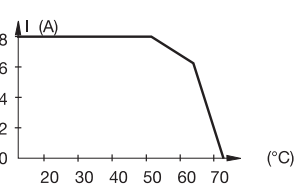
Characteristics

Relay characteristics	RM 421 N	RM 421 P	RM 821 N	RM 821 P	RM 1621 N	RM 1621 P
COIL						
Rated voltage +20%, -15% on DC +10%, -15% on AC				24 V DC		
Frequency						
Power				0.36 W		
Rated current				15 mA		
Drop-out voltage				2.4 V		
Permissible leakage current						
Status device				green LED		
CONTACT						
Type				1 SPDT		
Voltage switching range min./max.				5 V / 250 V		
Current switching range min./max.				1 mA / 8 A		
Load switching range						
AC1 min. / max.				5 mW / 2 000 VA		
DC1 min. / max.				5 mW / see curve hereunder		
Number of on-load operations				10 ⁸ resistive		
Number of off-load operations				30 x 10 ⁶		
Operating speed						
F				7 ms		
O				3 ms		
Bounce				1 ms		
Insulation coil / contact				5 000 V RMS		
Resistance to shock coil / contact						
Insulation contact / contact				2 500 V RMS		
Ambient temperature				-40°C to +80°C		
operating				see derating curves		
Other characteristics						
Body material				orange		
Wire				Solid wire		
size				Stranded wire		
Rated wire size				UL 94 V2		
Wire stripping length				0 - 2.5 mm ² / 20 - 14 AWG		
Recommended screwdriver				0 - 2.5 mm ² / 20 - 14 AWG		
Protection				2.5 mm ² / 12 AWG		
Recommended torque				6 mm .236"		
Approvals				3.5 mm .137"		
				IP20 NEMA1		
				0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
				CE		
Reference standards				CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6		

Max. DC load breaking capacity



Derating curves



RM 421 N - RM 421 P
RM 821 N - RM 821 P
RM 1621 N - RM 1621 P

Order codes

Description	Type	Order P/N	Packaging Weight kg
4 relay module 1 SPDT pluggable low level(1)	RM 421 N	24 V DC 1SNA 020 604 R0100	1
4 relay module 1 SPDT pluggable low level(2)	RM 421 P	24 V DC 1SNA 020 605 R0200	1
8 relay module 1 SPDT pluggable low level(1)	RM 821 N	24 V DC 1SNA 020 112 R1300	1
8 relay module 1 SPDT pluggable low level(2)	RM 821 P	24 V DC 1SNA 020 114 R1500	1
16 relay module 1 SPDT pluggable low level(1)	RM 1621 N	24 V DC 1SNA 020 113 R1400	1
16 relay module 1 SPDT pluggable low level(2)	RM 1621 P	24 V DC 1SNA 020 115 R1600	1

(1) Negative common - (2) Positive common

Accessories

Accessories	Order P/N	Packaging Weight kg
End section	BADL V0 1SNA 399 903 R0200	50
	BAM 1SNA 103 002 R2600	50
	BAM V0 1SNA 399 306 R0300	50
Schrack 24 V relay	1SNA 179 208 R2400	10
Lengthwise marker	RLV 1SNA 103 849 R0300	100
Pivoting marker-holder : quantity 20	PEF 1SNA 020 568 R0400	1
Marker	RC55 see markers	

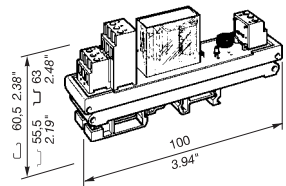
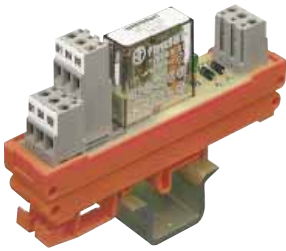
Relay Interfaces

Relay modules R20000

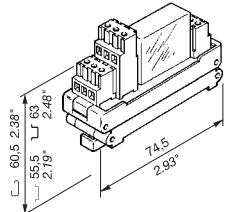


DIN 1-3

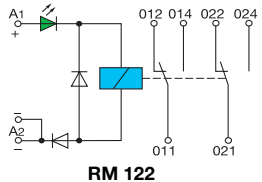
Relay modules R20000



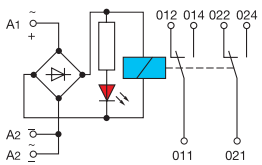
RM 122 A - 24/48 V AC/DC
RM 122 - 24 V DC



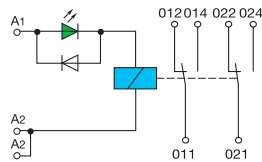
RM 122 A - 115/220 V AC/DC



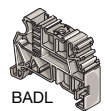
RM 122



RM 122 A - 24/48 V AC/DC



RM 122 A - 115/220 V AC/DC

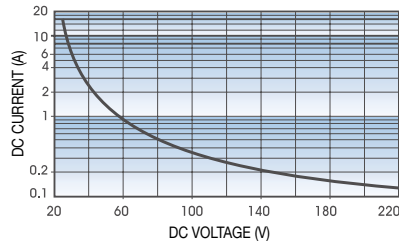


Relay : 1 DPDT high level contact from 10 mA to 8 A - 23 mm .906" spacing

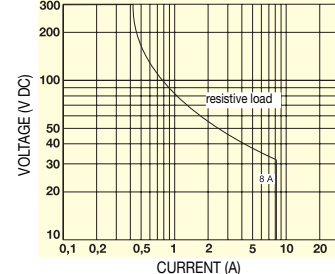
Characteristics

Relay characteristics	RM 122	RM 122 A	RM 122 A
COIL			
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC	24 V AC/DC	48 V AC/DC
Frequency		50/60 Hz	50/60 Hz
Power	0.6 W	0.7 W	0.9 W
Rated current	25 mA	30 mA	18 mA
Drop-out voltage	5.6 V DC	3.6 V AC/DC	7.2 V AC/DC
Permissible leakage current			
Status device	green LED	red LED	green LED
CONTACT			
Type	1 DPDT		
Voltage switching range min./max.	12 V / 250 V		
Current switching range min./max.	10 mA / 5 A	10 mA / 5 A	10 mA / 8 A
Load switching range			
AC1 min. / max.	0.6 VA / 1250 VA	0.6 VA / 1250 VA	0.6 VA / 2000 VA
DC1 min. / max.	0.6 W / see curve 1	0.6 W / see curve 1	0.6 W / see curve 2
Number of on-load operations	2 x 10 ⁵ resistive	2 x 10 ⁵ resistive	2 x 10 ⁵ resistive
Number of off-load operations	10 ⁷	10 ⁷	3 x 10 ⁷
Operating speed			
F	7 ms	7 ms	10 ms
O	4 ms	4 ms	15 ms
Bounce	3 ms	3 ms	4 ms
Insulation coil / contact	4000 V RMS	4000 V RMS	3000 V RMS
Resistance to shock coil / contact			
Insulation contact / contact	1500 V RMS	2000 V RMS	1000 V RMS
Ambient temperature storage	-40°C to +80°C		
operating	see derating curves		
Other characteristics			
Body material	orange		
Wire	Solid wire		
size	Stranded wire		
Rated wire size	UL 94 V2		
Wire stripping length	0 - 4 mm ² / 20 - 12 AWG		
Recommended screwdriver	2.5 mm ² / 12 AWG		
Protection	7 mm .276"		
Approvals	3.5 mm .137"		
	IP20 NEMA1		
	0.4 - 0.6 Nm 3.5 - 5.3 lb.in		
	CE		
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6		

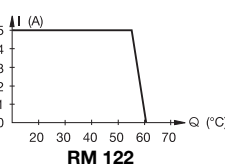
Max. DC load breaking capacity : curve 1



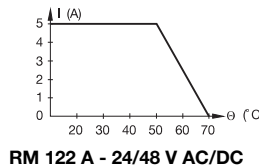
Max. DC load breaking capacity : curve 2



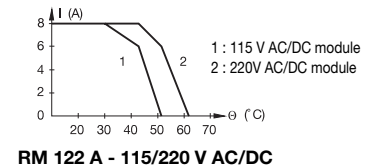
Derating curves



RM 122



RM 122 A - 24/48 V AC/DC



RM 122 A - 115/220 V AC/DC

Order codes

Description	Type	Order P/N	Packaging Weight kg
Relay module 1 DPDT high level	RM 122 24 V DC	1SNA 020 139 R2600	1
Relay module 1 DPDT high level	RM 122 A 24 V AC/DC	1SNA 020 106 R2600	1
Relay module 1 DPDT high level	RM 122 A 48 V AC/DC	1SNA 020 107 R2700	1
Relay module 1 DPDT high level	RM 122 A 115 V AC/DC	1SNA 020 141 R2000	1
Relay module 1 DPDT high level	RM 122 A 220 V AC/DC	1SNA 020 142 R2100	1

Accessories

End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marker	RC55	see markers	

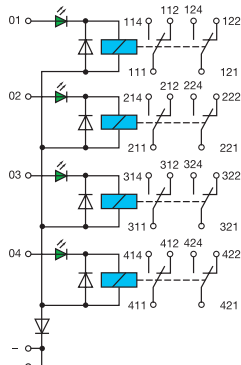
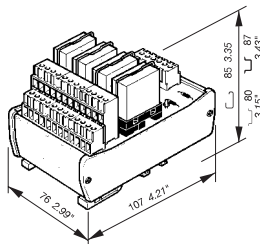
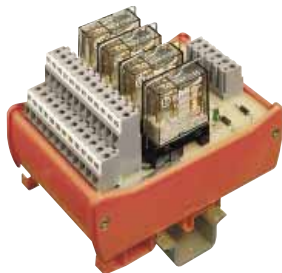
Relay Interfaces

4 relay modules R20000

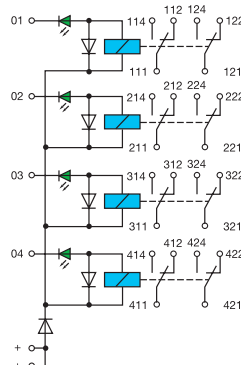


DIN 1-3

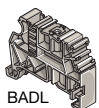
Relay modules R20000



RM 422 N



RM 422 P



BADL



BAM



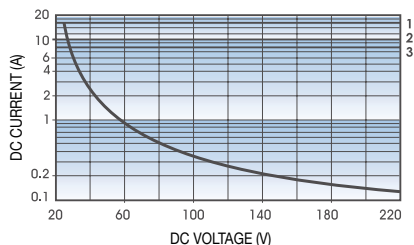
RLV

4 relays : 1 DPDT high level contact from 10 mA to 5 A N or P version - 76 mm 3" spacing

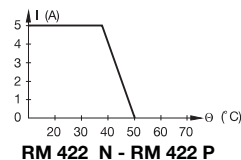
Characteristics

Relay characteristics	RM 422 N - RM 422 P	
	RM 422 N	RM 422 P
COIL		
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC	48 V DC
Frequency		
Power	0.6 W	0.6 W
Rated current	24 mA	13 mA
Drop-out voltage	5.6 V DC	8 V DC
Permissible leakage current		
Status device	green LED	
CONTACT		
Type	1 DPDT	
Voltage switching range min./max.	12 V / 250 V	
Current switching range min./max.	10 mA / 5 A	
Load switching range		
AC1 min. / max.	0.6 VA / 1250 VA	
DC1 min. / max.	0.6 W / see curve	
Number of on-load operations	10 ⁵	
Number of off-load operations	2 x 10 ⁷	
Operating speed	F	7 ms
	O	4 ms
Bounce	3 ms	
Insulation coil / contact	4000 V RMS	
Resistance to shock coil / contact		
Insulation contact / contact	1500 V RMS	
Ambient temperature storage	-40°C to +80°C	
operating	see derating curves	
Other characteristics		
Body material	orange	
Wire	UL 94 V2	
Wire size	Solid wire	
size	Stranded wire	
Rated wire size	0 - 4 mm ² / 20 - 12 AWG	
Wire stripping length	0 - 2.5 mm ² / 20 - 12 AWG	
Recommended screwdriver	2.5 mm ² / 12 AWG	
Protection	7 mm .276"	
Recommended torque	3.5 mm .137"	
Approvals	IP20 NEMA1	
	0.4 - 0.6 Nm 3.5 - 5.3 lb.in	
Reference standards	CE	
	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6	

Max. DC load breaking capacity



Derating curves



Order codes

Description	Type	Order P/N	Packaging Weight kg	
4 relay module 1 DPDT high level negative common	RM 422 N	24 V DC	1SNA 020 144 R2300	1
4 relay module 1 DPDT high level positive common	RM 422 P	24 V DC	1SNA 020 146 R2500	1
4 relay module 1 DPDT high level negative common	RM 422 N	48 V DC	1SNA 020 145 R2400	1
4 relay module 1 DPDT high level positive common	RM 422 P	48 V DC	1SNA 020 147 R2600	1

Accessories

End section	BADL V0	1SNA 399 903 F0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 F0300	50
24 V relay for 24 V module		1SNA 174 855 R2700	10
	48 V relay for 48 V module		1SNA 174 856 R2000
Lengthwise marker	RLV	1SNA 103 849 F0300	100
Marker	RC55	see markers	

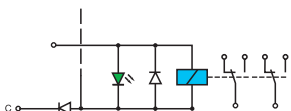
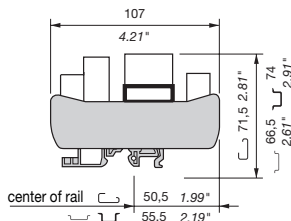
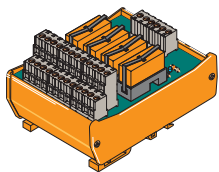
Relay Interfaces



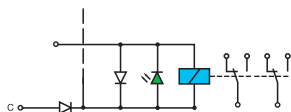
4, 8 and 16 relay modules R20000

DIN 1-3

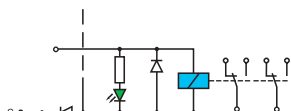
Relay modules R20000



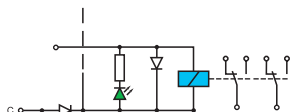
RM 422 N
Negative common



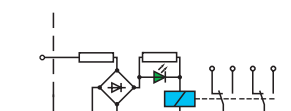
RM 422 P
Positive common



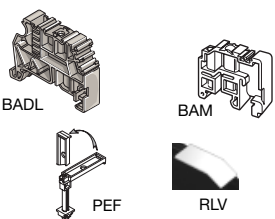
RM 822 N
RM 1622 N
Negative common



RM 822 P
RM 1622 P
Positive common



RM 822 A
RM 1622 A



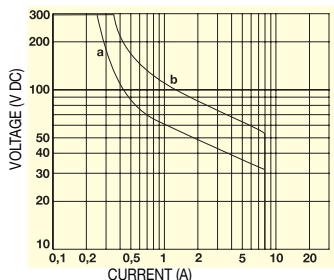
- 4 relays : 1 DPDT high level contact from 100 mA to 4 A - 76 mm 2.99" spacing
- 8 relays : 1 DPDT high level contact from 100 mA to 4 A - 159 mm 6.26" spacing
- 16 relays : 1 DPDT high level contact from 100 mA to 4 A - 300 mm 11.81" spacing

Characteristics

Relay characteristics	RM 422 N	RM 422 P	RM 822 N	RM 822 P	RM 1622 N	RM 1622 P	RM 822 A	RM 1622 A	
COIL									
Rated voltage +20%, -15% on DC +10%, -15% on AC	24 V DC						110 V AC/DC		
Frequency							50/60 Hz		
Power	0.5 W						0.77 W		
Rated current	21 mA						7 mA		
Drop-out voltage	2.4 V DC						15 V		
Permissible leakage current									
Status device	green LED								
CONTACT									
Type	2 DPDT								
Voltage switching range min./max.	12 V / 250 V AC								
Current switching range min./max.	100 mA / 4 A								
Load switching range	AC1 min. / max. DC1 min. / max.						1.2 VA / 1 000 VA 12 W / see curve hereunder		
Number of on-load operations	2 x 10 ⁶								
Number of off-load operations	30 x 10 ⁶								
Operating speed	F	9 ms						7 ms (DC) / 12 ms (AC)	
	O	12 ms						12 ms	
Bounce	2 ms								
Insulation coil / contact	3.5 kV								
Resistance to shock coil / contact	10 kV								
Insulation contact / contact	2 kV								
Ambient temperature storage operating	-40°C to +80°C see derating curves								
Other characteristics									
Body material	orange						UL 94 V2		
Wire	Solid wire						0 - 2.5 mm ² / 20 - 14 AWG		
size	Stranded wire						0 - 2.5 mm ² / 20 - 14 AWG		
Rated wire size							2.5 mm ² / 12 AWG		
Wire stripping length							6 mm .236"		
Recommended screwdriver							3.5 mm .137"		
Protection							IP20 NEMA1		
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in								
Approvals							CE		

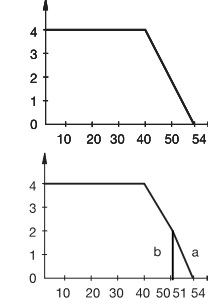
Reference standards CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6

Max. DC load breaking capacity



a : 1 contact
b : 2 serial contacts
2 pole resistive load

Derating curves



RM 422 N
RM 422 P

RM 822 N - RM 1622 N
RM 822 P - RM 1622 P
RM 822 A - RM 1622 A

a : 24 V DC
b : 110 V AC/DC

Order codes

Description	Type	Order P/N	Packaging Weight kg
4 relay module 1 DPDT pluggable high level(1)	RM 422 N	24 V DC 1SNA 020 672 R0400	1
4 relay module 1 DPDT pluggable high level(2)	RM 422 P	24 V DC 1SNA 020 673 R0500	1
8 relay module 1 DPDT pluggable high level(1)	RM 822 N	24 V DC 1SNA 020 149 R0000	1
8 relay module 1 DPDT pluggable high level(2)	RM 822 P	24 V DC 1SNA 020 492 R11000	1
8 relay module 1 DPDT pluggable high level	RM 822 A	110 V AC/DC 1SNA 020 150 R05000	1
16 relay module 1 DPDT pluggable high level(1)	RM 1622 N	24 V DC 1SNA 020 151 R22000	1
16 relay module 1 DPDT pluggable high level(2)	RM 1622 P	24 V DC 1SNA 020 493 R12000	1
16 relay module 1 DPDT pluggable high level	RM 1622 A	110 V AC/DC 1SNA 020 152 R23000	1

(1) Negative common - (2) Positive common

Accessories

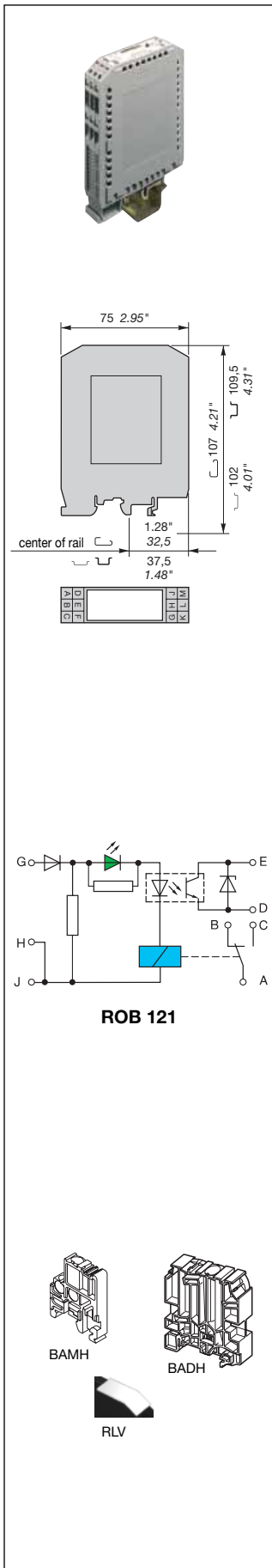
End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2600	50
	BAM V0	1SNA 399 306 R0300	50
Schrack 24 V relay for 24 V module		1SNA 210 021 R2600	10
Schrack 60 V relay for 110 V module		1SNA 210 022 R2700	10
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Pivoting marker-holder : quantity 20	PEF	1SNA 020 568 R0400	1
Marker	RC55	see markers	

Electronic Interfaces



R11000 relay + optocoupler modules

DIN 1-3

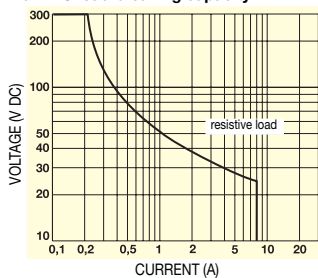


Relay + optocoupler : relay 1 SPDT and optocoupler 4.5 to 58 V DC / 30 mA output - 22.5 mm .886" spacing

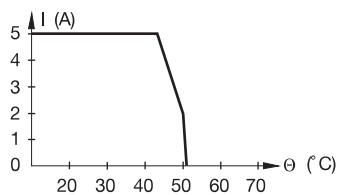
Characteristics

Relay-opto characteristics	ROB 121
INPUT	
Rated voltage +20%, -15% on DC ±15% on AC	24 V DC
Power	0.96 W
Rated current	40 mA
Drop-out voltage	15 V
Permissible leakage current	2.9 mA
OPTOCOUPLER OUTPUT	
Output voltage	4.5 to 58 V DC
Output current max.	30 mA
Output current min.	
Residual voltage at I max and U rated	typical 0.6 V max.
Operating speed F/O	50 µs / 1.5 ms
Isolation input / output	2500 V RMS
RELAY OUTPUT	
Type	1 SPDT
Voltage switching range min./max.	12 V / 250 V
Current switching range min./max.	5 A
Number of on-load operations	2 x 10 ⁵
Number of off-load operations	3 x 10 ⁷
Operating speed F	5 ms
O	3 ms
Bounce	2 ms
Insulation coil / contact	3500 V RMS
Opto output / relay contact isolation	3500 V RMS
Ambient temperature storage	-40°C to +80°C
operating	see derating curve
Other characteristics	
Body material	grey UL 94 V2
Wire	Solid wire
size	0 - 4 mm ² / 20 - 12 AWG
Stranded wire	0 - 2.5 mm ² / 20 - 12 AWG
Rated wire size	2.5 mm ² / 12 AWG
Wire stripping length	7 mm .276"
Recommended screwdriver	3.5 mm .137"
Protection	IP20 NEMA1
Recommended torque	0.4 - 0.6 Nm 3.5 - 5.3 lb.in
Approvals	CE
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6

Max. DC load breaking capacity



Derating curve



Order codes

Description	Type	Order P/N	Packaging	Weight
Relay 1 SPDT - opto. 30 mA/DC module	ROB 121	24 V DC	1SNA 011 093 R0700	1 kg

Accessories

High end section	BADH	1SNA 116 900 R2700	50
	BAMH	1SNA 114 836 R0000	50
	BAMH V0	1SNA 194 836 R0100	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marking method	RC55	see markers	

Accessories

End stops

The end stops are mounted at the extremity of the terminal board assembly, giving additional support to the terminal blocks as markers. For various types of marking, refer to the marker section.

Description	Type	Order P/N	Packaging Weight kg
End stop DIN 3			
grey V0	BADL 9 mm	1SNA 399 903 R0200	50
End stop with screws DIN 3			
grey V0	BAM2 V0 10 mm	1SNA 399 967 R0100	50
grey V2	BAM2 10 mm	1SNA 206 351 R1600	50
beige V0	BAM2 V0 10 mm	1SNA 296 351 R0000	50
High end stop with screws DIN 1 and DIN 3			
grey	BAMH 9,1 mm	1SNA 114 836 R0000	50
beige V0	BAMH V0 9,1 mm	1SNA 194 836 R0100	50
High end stop with screws DIN 3			
grey	BADH 12 mm	1SNA 116 900 R2700	50

Mounting rails

Symmetrical zinc bichromate plated steel prepunched rail	PR30 2 m	1SNA 173 220 R0500	1
Symmetrical zinc bichromate plated steel rail	PR3.Z2 2 m	1SNA 174 300 R1700	1
White, symmetrical passivated galvanized steel rail	PR3.G2 2 m	1SNA 164 800 R0300	1
Symmetrical zinc bichromate plated steel rail	PR5 2 m	1SNA 168 700 R2200	1
Symmetrical zinc bichromate plated steel rail	PR4 2 m	1SNA 168 500 R1200	1

Test devices

Test plug DIA. 2 mm	FC2	1SNA 007 865 R2600	10
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Assembled jumper bar

This accessory permits electrical connection between 2 to 70 blocks with 6 mm spacing placed side by side. It can be used with screw clamp or spring clamp blocks with 6 mm or 12 mm spacing. Interconnection of blocks not placed side by side is possible if teeth of the jumper bar have been cut in front of the blocks not to be connected. These teeth can be removed using pliers. Use of separator end sections before and after the jumper bar is required to preserve IP20 protection of the assembly.

Assembled jumper bar 10 poles - 24 A	BJ612-10	1SNA 290 488 R0100	10
Assembled jumper bar 70 poles - 24 A	BJ612-70	1SNA 290 489 R0200	10

Separator end section

Directly mounted on the rail beside the block, it permits to identify and make electrical insulation of product groups using jumper bars. Dimensions are the same as screw clamp blocks : width 70 mm and height on rail 67,5 mm with 2 mm spacing.

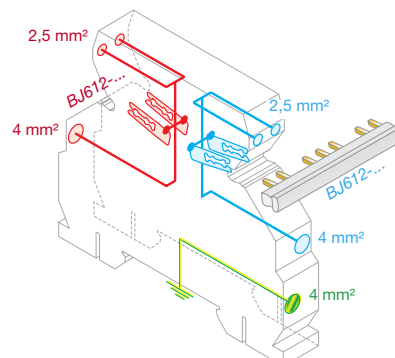
Separator end section	SC612	1SNA 290 474 R0200	10
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Distribution block

This terminal block with BJ612-... jumper bars permits 2 polarities distribution (PCL side and process side) thanks to two separate circuits, each of them including :

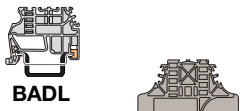
- one 4 mm² input,
- two 2,5 mm² outputs
- one double output for jumper bar BJ612-...

It permits also the connection of ground to the rail though a 4 mm² input.



Rated voltage : 250 VAC-DC
 Rated current : 32 A (4 mm²) - 16 A (2,5 mm²)
 Recommended torque : 0,4 - 0,6 Nm

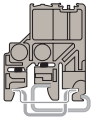
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA 645 031 R2000	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA 645 531 R2200	5



BADL



BAM2



BAMH



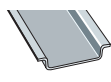
BADH



PR30



PR3.Z2



PR3.G2



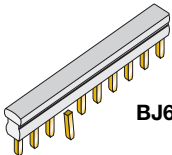
PR5



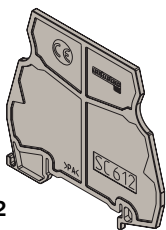
PR4



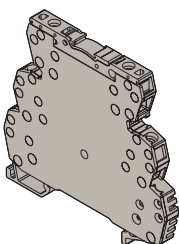
FC2



BJ612-...



SC612



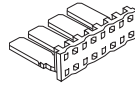
D4/12-3...

Accessories

PCMS

Comb-type jumper

This accessory permits the electrical connection of 2 to 22 blocks.



No. of poles	Grey UL94V0	Red UL94V0	Blue UL94V0	Green/Yellow UL94V0
2	1SNA 205 491 R2300	1SNA 205 492 R2400	1SNA 205 493 R2500	1SNA 205 494 R2600
3	1SNA 205 495 R2700	1SNA 205 496 R2800	1SNA 205 497 R2900	1SNA 205 498 R3000
4	1SNA 205 499 R0300	1SNA 205 500 R1000	1SNA 205 501 R0500	1SNA 205 502 R0600
5	1SNA 205 503 R0700	1SNA 205 504 R0800	1SNA 205 505 R0900	1SNA 205 506 R1000
6	1SNA 205 507 R0300	1SNA 205 508 R1400	1SNA 205 509 R1500	1SNA 205 510 R1600
7	1SNA 205 511 R2600	1SNA 205 512 R2700	1SNA 205 513 R2800	1SNA 205 514 R2900
8	1SNA 205 515 R2200	1SNA 205 516 R2300	1SNA 205 517 R2400	1SNA 205 518 R0500
9	1SNA 205 519 R0600	1SNA 205 520 R0300	1SNA 205 521 R2000	1SNA 205 522 R2100
10	1SNA 205 523 R2200	1SNA 205 524 R2300	1SNA 205 525 R2400	1SNA 205 526 R2500
11	1SNA 205 527 R2600	1SNA 205 528 R0700	1SNA 205 529 R0800	1SNA 205 530 R0500
12	1SNA 205 531 R2200	1SNA 205 532 R2300	1SNA 205 533 R2400	1SNA 205 534 R2500
13	1SNA 205 535 R2600	1SNA 205 536 R2700	1SNA 205 537 R2800	1SNA 205 538 R0100
14	1SNA 205 539 R0200	1SNA 205 540 R1700	1SNA 205 541 R0400	1SNA 205 542 R0500
15	1SNA 205 543 R0600	1SNA 205 544 R0700	1SNA 205 545 R0800	1SNA 205 546 R0100
16	1SNA 205 547 R0200	1SNA 205 548 R1300	1SNA 205 549 R1400	1SNA 205 550 R1100
17	1SNA 205 551 R0600	1SNA 205 552 R0700	1SNA 205 553 R0800	1SNA 205 554 R0100
18	1SNA 205 555 R0200	1SNA 205 556 R0300	1SNA 205 557 R0400	1SNA 205 558 R1500
19	1SNA 205 559 R1600	1SNA 205 560 R1300	1SNA 205 561 R0800	1SNA 205 562 R0100
20	1SNA 205 563 R0200	1SNA 205 564 R0300	1SNA 205 565 R0400	1SNA 205 566 R0500
21	1SNA 205 567 R0600	1SNA 205 568 R1700	1SNA 205 569 R1000	1SNA 205 570 R1500
22	1SNA 205 571 R0200	1SNA 205 572 R0300	1SNA 205 573 R0400	1SNA 205 574 R0500

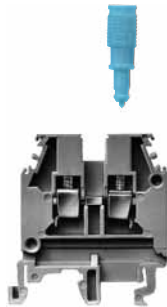
DC

Test device on screw head

This patented device is mounted on the round screwdriver opening. It is used for trouble shooting, measuring and control for monitoring and repairing an installation, on blocks without a test socket. For this, the device receives an FC2 test plug.

The DC's are differentiated by their colour :

blue for MA 2,5/5 blocks



DCB 1SNA 105 028 R2100

BJ Jumper bar

BJS Jumper bar not assembled

To connect terminal blocks, place the metal tube into the top center hole on each terminal block to be connected. The metal tube contacts the terminal block's internal connector bar. The perforated bar is cut to length and placed flat along the center opening of the series of terminal blocks. The screw is inserted into the perforated bar's hole which is located directly above the blocks being connected. The screw goes through the threaded metal tube and is screwed into the terminal block's internal connector bar. This completes the electrical connection to the perforated bar and connects the block.



To be mounted on blocks series R910 :

Screw + washer + post	EV6D	1SNA 168 400 R1600
Perforated jumper bar	BJS9 32 A 8 poles	1SNA 177 583 R1200
	BJS9 32 A 16 poles	1SNA 177 584 R1300

PEF

Identification label holders

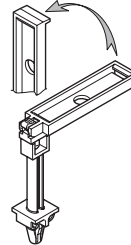
Designed to hold RPEV label (see opposite).

PEF * 1SNA 020 568 R0400

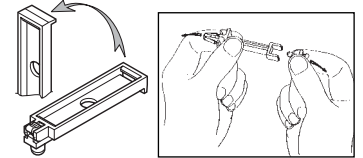
* Delivered with labels.

The label holders are removable and the labels can be changed easily.

- For mounting on PCB in a 3,7 mm diameter hole.



- For mounting on a PCB block in a 2 mm diameter hole (no support leg).



RPEV

Label for PEF 29 x 6 mm

Sheets of 99 pre-cut labels

✓ Blank

RPEV 1SNA 173 178 R0700



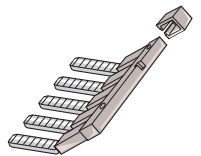
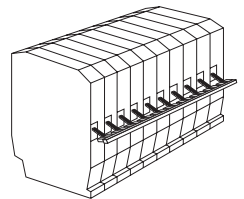
PC

Comb-type jumper bar

PC **EIP**

This accessory can be used only on the terminal blocks with at least one compression clamp connection. It permits the electrical connection of 2 to 10 blocks.

Interconnection of non-consecutive blocks is possible by removing the teeth opposite the blocks which must not be connected. The comb-type jumper bars can be cut using pliers (or a saw) : in this case, the use of an insulating tip **EIP** is recommended. The comb is placed in the compression clamp before tightening the screws, above the eventual conductor.



To be mounted on blocks series R900 and R910 :

Insulating tip for comb	EIP	1SNA 113 550 R2400
Comb-type jumper bar	PC9 15 A 10 poles	1SNA 210 160 R1200

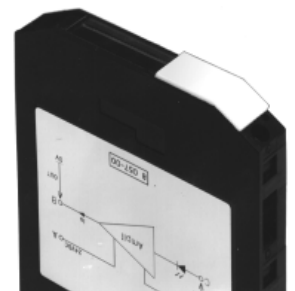
RL Lengthwise marker

RLV Lengthwise marker
Width 9 mm .354"

Large area for writing.
To be snapped onto the top of blocks.

Blank marker for writing :

RLV 1SNA 103 849 R0300



Marking

Marking for Interface Modules

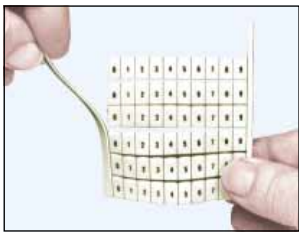
Selection table

Markers for modules :	RC610	RC55	RC65
R500			
R600		POSSIBLE	
R900			
R910		POSSIBLE	
R1800			

Possible mounting : **POSSIBLE**

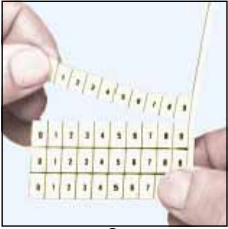
Recommended mounting :

Impossible mounting :



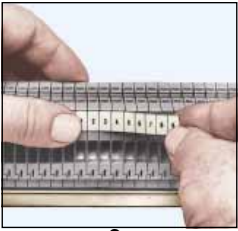
1

Remove one of the side bands of the



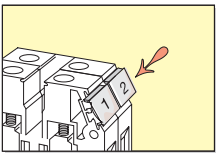
2

Separate the chosen strip from the rest of the card.

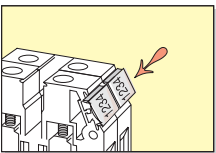


3

Press the first marker in place and slide your thumb on the rest of the strip.



Horizontal marking



Vertical marking



Refillable box of 100 cards of 18 RC markers

Marking for for terminal blocks

Standard RC marker cards

Marker sizes	(x) = Nb of cards in 5 mm spacing kit			(x) = Nb of cards in 6 mm spacing kit		
	RC55	RC65	RC610	RC55	RC65	RC610
Blank cards	1SNA 230 000 R1200	1SNA 232 000 R0000	1SNA 233 000 R0100			
Horizontal marking						
10 strips from 1 to 10	1SNA 230 002 R0030 (5)	1SNA 232 002 R2600 (5)	1SNA 233 002 R2700 (25)			
10 strips from 11 to 20	1SNA 230 003 R0100 (2)	1SNA 232 003 R2700 (2)	1SNA 233 003 R2030 (10)			
10 strips from 21 to 30	1SNA 230 004 R0200	1SNA 232 004 R2000	1SNA 233 004 R2100 (6)			
10 strips from 31 to 40	1SNA 230 005 R0300	1SNA 232 005 R2100	1SNA 233 005 R2200 (4)			
10 strips from 41 to 50	1SNA 230 006 R0400	1SNA 232 006 R2200	1SNA 233 006 R2300 (3)			
10 strips from 51 to 60	1SNA 230 007 R0500	1SNA 232 007 R2300	1SNA 233 007 R2400 (2)			
10 strips from 61 to 70	1SNA 230 008 R0600	1SNA 232 008 R0400	1SNA 233 008 R0500 (2)			
From 1 to 100	1SNA 230 030 R0700 (2)	1SNA 232 030 R2500 (2)	1SNA 233 030 R2600 (15)			
From 101 to 200	1SNA 230 031 R2400	1SNA 232 031 R1200	1SNA 233 031 R1300 (2)			
20 times L1-L2-L3-N-PE	1SNA 230 131 R2500	1SNA 232 131 R1300	1SNA 233 131 R1400 (2)			
Vertical marking						
10 strips from 1 to 10	1SNA 230 041 R0600	1SNA 232 041 R2400	1SNA 233 041 R2500 (5)			
10 strips from 11 to 20	1SNA 230 042 R0700	1SNA 232 042 R2500	1SNA 233 042 R2600 (3)			
10 strips from 21 to 30	1SNA 230 043 R0000	1SNA 232 043 R2600	1SNA 233 043 R2700 (2)			
10 strips from 31 to 40	1SNA 230 044 R0100	1SNA 232 044 R2700	1SNA 233 044 R2030 (2)			
From 1 to 100	1SNA 230 060 R1500	1SNA 232 060 R0300	1SNA 233 060 R0400 (8)			

Marking kit RC 5 mm spacing or 6 mm spacing

Box with 100 cards with 18 various part numbers (see table next page)

Description	Type	Order P/N	Packaging Weight kg
Box with 100 cards RC 5 mm spacing		1SNA 400 085 R2700	1
Refill for box RC 5 mm		1SNA 400 145 R0700	1
Box with 100 cards RC 6 mm spacing		1SNA 400 084 R2600	1
Refill for box RC 6 mm		1SNA 400 144 R0600	1