

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ABB

RB121A-24VAC/DC

INTERFACE RELAY MODULE

Used with the applicable ABB R600 interface relays configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: ABB manufacturer documentation

Input type	Rated voltage	Contact type	Connection type	Nb of relays	Current in contacts	Spacing (mm)	Series	Available approvals	Particulars	Product type	Part number	Page
DC input	24 VDC	1 NO	screw	1	10mA-6A	12	R600	(pending)	R	RB 101AR-24VAC/DC	1SNA 645 019 R0400	18
		1 NO	spring	1	10mA-6A	12	R600	(pending)	R	RBR 101AR-24VAC/DC	1SNA 645 519 R0600	18
		1 NO	screw	1	10mA-8A	12,7	R20000	(pending)		RM 101-24VDC	1SNA 020 239 R0200	34
		1 NC	screw	1	10mA-5A	9	R910	(pending)	R	M 4/9.R111L-24VDC	1SNA 607 052 R0000	22
		1 NC	screw	1	10mA-5A	9	R910	(pending)	R	M 4/9.R111L-24VDC	1SNA 607 002 R0700	22
		1 NC	screw	1	10mA-5A	9	R910	(pending)	R	M 4/9.R111L-24VDC	1SNA 607 030 R0800	22
		1 NC	screw	1	10mA-6A	6	R600	(pending)	Is	RB 111A-24VAC/DC	1SNA 645 014 R2700	16
		1 NC	screw	1	10mA-6A	6	R600	(pending)	Is	RB 111AI-24VAC/DC	1SNA 645 063 R0000	16
		1 NC	screw	1	10 mA-6A	12	R600	(pending)	R	RB 111AR-24VAC/DC	1SNA 645 018 R0300	16
		1 NC	spring	1	10mA-6A	6	R600	(pending)		RBR 111A-24VAC/DC	1SNA 645 514 R2100	16
		1 NC	spring	1	10mA-6A	6	R600	(pending)	Is	RBR 111AI-24VAC/DC	1SNA 645 563 R0200	16
		1 NC	spring	1	10mA-6A	12	R600	(pending)	R	RBR 111AR-24VAC/DC	1SNA 645 518 R0500	16
		1 NC	screw	1	10mA-8A	12,7	R20000	(pending)		RM 111-24VDC	1SNA 020 032 R1600	34
		4 NC	screw	1	0,1µA-5A	18	R1800	(pending)		RB 114A-24VAC/DC	1SNA 010 126 R1700	24
		1NC+1NO	screw	1	10mA-5A	18	R1800	(pending)	C, V	RB 131CV-24VDC	1SNA 010 181 R1700	23
		1NC+1NO	screw	1	1µA-5A	18	R1800	(pending)	C, V	RB 131CV-24VDC	1SNA 010 151 R2000	23
		1NC+1NO	screw	1	1µA-8A	18	R1800	(pending)		RB 131-24VDC	1SNA 010 055 R2300	24
		1NC+1NO	screw	1	1µA-8A	18	R1800	(pending)		RB 310-24VDC bistable	1SNA 010 063 R2300	24
		1NC, 1NC	screw	2	1µA-5A	18	R1800	(pending)		RB 211-24VDC	1SNA 010 014 R1200	24
		1 SPDT	screw	1	10mA-6A	6	R600	(pending)		RB 121A-24VAC/DC	1SNA 645 001 R0300	17
		1 SPDT	screw	1	1 mA-6A	6	R600	(pending)		RB 121A-24VAC/DC	1SNA 645 005 R0700	18
		1 SPDT	screw	1	10mA-6A	5,08	R500	(pending)	P	D 2,5/5-R121-24VDC	1SNA 607 217 R0200	21
		1 SPDT	screw	1	10mA-6A	5,08	R500	(pending)	P	D 2,5/5-R121L-24VDC	1SNA 607 201 R1300	21
		1 SPDT	screw	1	10mA-6A	5,08	R500	(pending)	P	D 2,5/5-R121L-24VAC/DC	1SNA 607 231 R0000	21
		1 SPDT	screw	1	10mA-6A	12	R600	(pending)	I	RB 121AI-24VAC/DC	1SNA 645 032 R2100	19
		1 SPDT	screw	1	10mA-6A	12	R600	(pending)	Is	RB 121AI-24VAC/DC	1SNA 645 009 R1300	19
		1 SPDT	screw	1	1mA-6A	12	R600	(pending)	I	RB 121AI-24VAC/DC	1SNA 645 033 R2200	19
		1 SPDT	screw	1	1mA-6A	12	R600	(pending)	Is	RB 121AI-24VAC/DC	1SNA 645 010 R0700	19
		1 SPDT	spring	1	10mA-6A	6	R600	(pending)		RBR 121A-24VAC/DC	1SNA 645 501 R0500	17
		1 SPDT	spring	1	1mA-6A	6	R600	(pending)		RBR 121A-24VAC/DC	1SNA 645 505 R0100	18
		1 SPDT	spring	1	10mA-6A	12	R600	(pending)	I	RBR 121AI-24VAC/DC	1SNA 645 532 R2300	19
		1 SPDT	spring	1	10mA-6A	12	R600	(pending)	Is	RBR 121AI-24VAC/DC	1SNA 645 509 R1500	19
		1 SPDT	spring	1	1mA-6A	12	R600	(pending)	I	RBR 121AI-24VAC/DC	1SNA 645 533 R2400	19
		1 SPDT	spring	1	1mA-6A	12	R600	(pending)	Is	RBR 121AI-24VAC/DC	1SNA 645 510 R0100	19
		1 SPDT	screw	1	10mA-8A	18	R1800	(pending)		RB 121A-24VAC/DC	1SNA 610 004 R0700	25
		1 SPDT	screw	1	5mA-3A	18	R1800	(pending)	C, V	RB 121CV-24VAC/DC orange	1SNA 010 184 R1200	27
		1 SPDT	screw	1	1µA-5A	18	R1800	(pending)	C, V	RB 121CV-24VAC/DC orange	1SNA 010 154 R2300	27
		1 SPDT	screw	1	1mA-6A	11,5	R900	(pending)		RB 121A-24VAC/DC	1SNA 630 002 R0100	31
		1 SPDT	screw	1	1mA-6A	11,5	R900	(pending)	I	RB 121AI-24VAC/DC	1SNA 630 007 R0600	32
		1 SPDT	screw	1	10mA-10A	17,8	R20000	(pending)		RM 121A-24VAC/DC	1SNA 020 042 R2000	35
		1 SPDT	screw	1	10mA-16A	22,5	R20000	(pending)		RM 121-24VDC	1SNA 020 046 R2400	35
		1 SPDT	screw	4	10mA-16A	89	R20000	(pending)		RM 421A-24VAC/DC	1SNA 020 054 R2400	38
		1 SPDT	screw	8	10mA-16A	165	R20000	(pending)		RM 821A-24VAC/DC	1SNA 020 070 R0000	38
		1 SPDT	screw	16	10mA-16A	325	R20000	(pending)		RM 1621A-24VAC/DC	1SNA 020 086 R1500	38
		1 SPDT	screw	4	1mA-8A	63,5	R20000	(pending)	Negative	RM 421N-24VDC	1SNA 020 604 R0100	37
		1 SPDT	screw	8	1mA-8A	132	R20000	(pending)	Negative	RM 821N-24VDC	1SNA 020 112 R1300	37
		1 SPDT	screw	16	1mA-8A	252	R20000	(pending)	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	24 VAC	1 NC	screw	1	10mA-6A	12	R600	(pending)	R	RB 101AR-24VAC/DC	1SNA 645 019 R0400	16
		1 NC	spring	1	10mA-6A	12	R600	(pending)	R	RBR 101AR-24VAC/DC	1SNA 645 519 R0600	16
		1 NO	screw	1	10mA-6A	6	R600	(pending)		RB 111A-24VAC/DC	1SNA 645 014 R2700	16
		1 NO	screw	1	10mA-6A	6	R600	(pending)	Is	RB 111AI-24VAC/DC	1SNA 645 063 R0000	16
		1 NO	screw	1	10mA-6A	12	R600	(pending)	R	RB 111AR-24VAC/DC	1SNA 645 018 R0300	16
		1 NO	spring	1	10mA-6A	6	R600	(pending)		RBR 111A-24VAC/DC	1SNA 645 514 R2100	16
		1 NO	spring	1	10mA-6A	6	R600	(pending)	Is	RBR 111AI-24VAC/DC	1SNA 645 563 R0200	16
		1 NO	spring	1	10mA-6A	12	R600	(pending)	R	RBR 111AR-24VAC/DC	1SNA 645 518 R0500	16
		4 NO	screw	1	0,1µA-5A	18	R1800			RB 114A-24VAC/DC	1SNA 010 126 R1700	24
		1 SPDT	screw	1	10mA-6A	6	R600	(pending)		RB 121A-24VAC/DC	1SNA 645 001 R0300	17
		1 SPDT	screw	1	1mA-6A	6	R600	(pending)		RB 121A-24VAC/DC	1SNA 645 005 R0700	18
		1 SPDT	screw	1	10mA-6A	5,08	R600		P	D 2,5/5-R121L-24VAC/DC	1SNA 607 231 R0000	21
		1 SPDT	screw	1	10mA-6A	12	R600	(pending)	I	RB 121AI-24VAC/DC	1SNA 645 032 R2100	19
		1 SPDT	screw	1	10mA-6A	12	R600	(pending)	Is	RB 121AI-24VAC/DC	1SNA 645 009 R1300	19
		1 SPDT	screw	1	1mA-6A	12	R600	(pending)	I	RB 121AI-24VAC/DC	1SNA 645 033 R2200	19
		1 SPDT	screw	1	1mA-6A	12	R600	(pending)	Is	RB 121AI-24VAC/DC	1SNA 645 010 R0700	19
		1 SPDT	spring	1	10mA-6A	6	R600	(pending)		RBR 121A-24VAC/DC	1SNA 645 501 R0500	17
		1 SPDT	spring	1	1mA-6A	6	R600	(pending)		RBR 121A-24VAC/DC	1SNA 645 505 R0100	18
		1 SPDT	spring	1	10mA-6A	12	R600	(pending)	I	RBR 121AI-24VAC/DC	1SNA 645 532 R2300	19
		1 SPDT	spring	1	10mA-6A	12	R600	(pending)	Is	RBR 121AI-24VAC/DC	1SNA 645 509 R1500	19
		1 SPDT	spring	1	1mA-6A	12	R600	(pending)	I	RBR 121AI-24VAC/DC	1SNA 645 533 R2400	19
		1 SPDT	spring	1	1mA-6A	12	R600	(pending)	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	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	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
	48 VAC	1 DPDT	screw	1	1mA-8A	12	R600	(pending)		RB 122A-24VAC/DC	1SNA 645 012 R2500	20
		1 DPDT	spring	1	1mA-8A	12	R600	(pending)		RBR 122A-24VAC/DC	1SNA 645 512 R2700	20
		1 DPDT	screw	1	10mA-5A	18	R1800		V	RBR 122AV-24VAC/DC	1SNA 610 121 R2000	29
		1 DPDT	screw	1	10µA-3A	11,5	R900			RB 122A-24VAC/DC	1SNA 630 011 R2100	33
		1 DPDT	screw	1	10mA-5A	23	R20000			RM 122A-24VAC/DC	1SNA 020 106 R2600	38
		1 NO	screw	1	10mA-6A	6	R600	(pending)		RB 111A-48-60VAC/DC	1SNA 645 015 R2000	16
		1 NO	spring	1	10mA-6A	6	R600	(pending)		RBR 111A-48-60VAC/DC	1SNA 645 515 R2200	16
		4 NO	screw	1	0,1µA-5A	18	R1800			RB 114A-48VAC/DC	1SNA 010 127 R1000	24
		1 SPDT	screw	1	10mA-6A	6	R600	(pending)		RB 121A-48-60VAC/DC	1SNA 645 002 R0400	17
		1 SPDT	screw	1	1mA-6A	6	R600	(pending)		RB 121A-48-60VAC/DC	1SNA 645 006 R0000	18
		1 SPDT	screw	1	10mA-6A	5,08	R500		P	D 2,5/5-R121L-48VAC/DC	1SNA 607 232 R0100	21
		1 SPDT	spring	1	10mA-6A	6	R600	(pending)		RBR 121A-48-60VAC/DC	1SNA 645 502 R0600	17
		1 SPDT	spring	1	1mA-6A	6	R600	(pending)		RBR 121A-48-60VAC/DC	1SNA 645 506 R0200	18
		1 SPDT	screw	1	10mA-8A	18	R1800		V	RB 121AV-48VAC/DC	1SNA 610 006 R0100	25
		1 SPDT	screw	1	1mA-6A	11,5	R900			RB 121A-48VAC/DC	1SNA 630 003 R0200	31
		1 SPDT	screw	1	10mA-10A	17,8	R20000			RM 121A-48VAC/DC	1SNA 020 043 R2100	35
		1 SPDT	screw	4	10mA-10A	89	R20000			RM 421A-48VAC/DC	1SNA 020 051 R2100	36
		1 SPDT	screw	8	10mA-10A	165	R20000			RM 821A-48VAC/DC	1SNA 020 067 R2100	36
		1 SPDT	screw	16	10mA-10A	325	R20000			RM 1621A-48VAC/DC	1SNA 020 063 R1200	36
		1 DPDT	screw	1	1mA-8A	12	R600	(pending)		RB 122A-48-60VAC/DC	1SNA 645 040 R1500	20

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

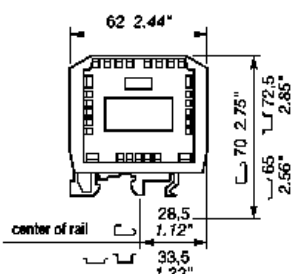
Marine Certifications : RINA, DNV, GL, BV, LRS

Relay Interfaces

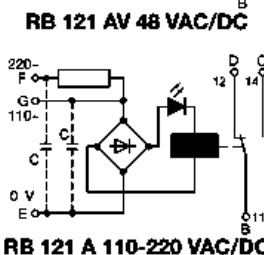
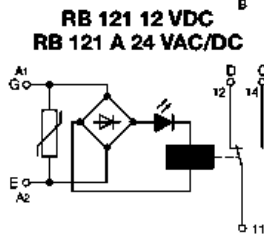
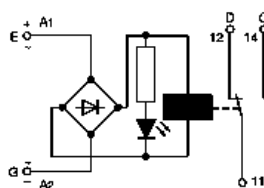
R1800 relay modules



DIN 1-3



Relay blocks R1800



RLV

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

Characteristics

Relay characteristics

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

12 V DC	24 V AC/DC 50 / 60 Hz 0.7 W 29 mA 5 V AC/DC	48 V AC/DC 50 / 60 Hz 0.96 W 20 mA 5.8 V AC/DC	110 V AC/DC 50 / 60 Hz 0.5 W 4.8 mA 14.5 V AC/DC	220 V AC/DC 50 / 60 Hz 1.1 VA 5 mA 25.2 V AC
3.2 V DC				
	red LED	green LED		red LED

CONTACT

Type
Voltage switching range min./max.
Current switching range min./max.
Load switching range
AC1 min. / max.
DC1 min. / max.
Number of on-load operations
Number of off-load operations
Operating speed
Bounce
Insulation coil / contact
Resistance to shock coil / contact
Insulation contact / contact
Ambient temperature storage
operating

1 SPDT
12 V / 380 V
10 mA / 8 A
0.6 VA / 2000 VA
0.6 W / see curve below
2 x 10⁶
2 x 10⁷
7 ms
6 ms
2 ms
2500 V RMS
4000 V RMS
1000 V RMS
-40°C to +80°C
see derating curves

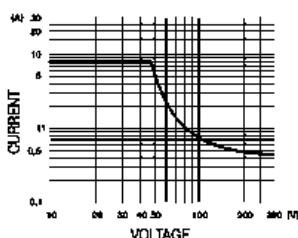
Other characteristics

Body material
Wire
size
Rated wire size
Wire stripping length
Recommended screwdriver
Protection
Recommended torque
Approvals

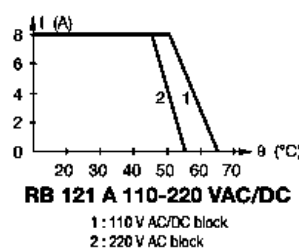
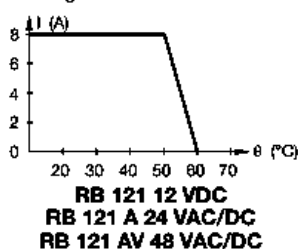
UL 94 V0
0.2 - 4 mm² / 22 - 12 AWG
0.22 - 2.5 mm² / 22 - 12 AWG
2.5 mm² / 12 AWG
7 mm .276"
3.5 mm .137"
IP20 NEMA1
0.4 - 0.6 Nm 3.5 - 5.3 lbf.in

Reference standards

CEI 647-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IEC 1000-4-2, 3, 4, 5, 6.



Derating curves



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 610 008 R0100	1	0.05
Relay block 1 SPDT high level	RB 121A-110-220VAC/DC	1SNA 610 132 R2900	1	0.05

Accessories

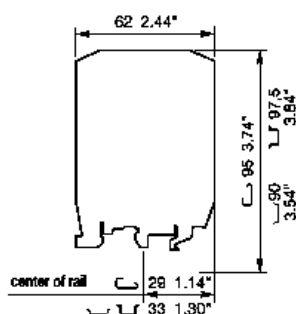
End section	BADL V0	1SNA 399 903 R0200	50
	BAM	1SNA 103 002 R2800	50
	BAM V0	1SNA 399 308 R0300	50
Lengthwise marker	RLV	1SNA 103 649 R0300	100
Marking method	RC55	see marking	

Relay Interfaces

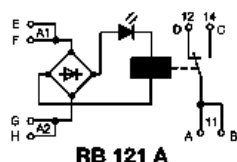
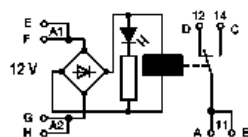
R900 relay modules



□ □ DIN 1-3



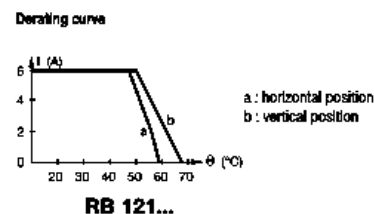
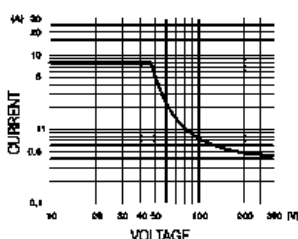
Relay blocks R900



□ 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 50 / 60 Hz	24 V DC 48 V AC 50 / 60 Hz
Frequency			
Power	0.5 W	0.52 VA	0.44 W
Rated current	42 mA	22 mA	18 mA
Drop-out voltage at 20°C	2.8 V	4.6 V	4.8 V
Permissible leakage current	3.5 mA	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 / 6 A
Load switching range			5 mVA / 1500 VA
AC1 min. / max.			5 mW / 192 W
DC1 min. / max.			1 x 10 ⁶
Number of on-load operations			5 x 10 ⁶
Number of off-load operations			5 ms
Operating speed		11 ms	12 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			-40°C to +80°C
operating			See derating curve
Other characteristics			
Body material	gray		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			UL for RB 121A-24VAC/DC, CE
Reference standards			



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 114 838 R0000	50
	BAMH V0	1SNA 194 838 R0100	50
Lengthwise marker	RLV	1SNA 103 849 R0300	100
Marking method	RC55	see marking	

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Type	Pages	Type	Pages	Type	Pages	Type	Pages	Type	Pages	
A										
AD2.5	22	BNMS NSV-2	72	F						
AL2	22	BNMS NSV-3	72	FC2	78	RBR 111 A-230VAC/DC	16	RM 111 110 V DC	34	
AL3	22	BNMS P24V-1	72	M						
B										
BADH	76	BNMS P24V-2	72	M 4/9.R111-12VDC	22	RBR 111 A-24VAC/DC	16	RM 111 12 V DC	34	
BADH V0	16	BNMS P24V-3	72	M 4/9.R111-24VDC	22	RBR 111 A-48-60VAC/DC	16	RM 111 24 V DC	34	
BADL	76	BNMS P46V-3	72	M 4/9.R111L-12VDC	22	RBR 111 A-24VAC/DC	16	RM 111 48 V DC	34	
BADL V0	16	BNMS PSV-1	73	M 4/9.R111L-12VDC	22	RBR 111 AR-24VAC/DC	16	RM 121 A 115 V AC/DC	35	
BAM	23	BNMS PSV-2	72	M 4/9.R111L-24VDC	22	RBR 121-12VDC	17	RM 121 A 220 V AC/DC	35	
BAM2	76	BNMS PSV-3	72	O						
BAM2 V0	76	BNMS R24V-1	74	OBA 1000-110VAC	61	RBR 121 A-115VAC/DC	17	RM 121 A 48 V AC/DC	35	
BAMH	76	BNMS R24V-2	74	OBA 1000-24VDC	61	RBR 121 A-230VAC/DC	17	RM 121 24 V DC	35	
BAMH V0	76	BNMS ST1	74	OBA 1000-48VDC	61	RBR 121 A-24VAC/DC	17	RM 122 24 V DC	38	
BAM V0	23	BNMS ST2	74	OBA 1000-5VDC	61	RBR 121 A-48-60VAC/DC	17	RM 122 A 115 V AC/DC	38	
BJ612-10	76	BNMS T115V-1	71	OBC 0100-110VAC	57	RBR 121 A-24VAC/DC	19	RM 122 A 220 V AC/DC	38	
BJ612-70	76	BNMS T125V-1	71	OBC 0100-230VAC	57	RBR 122 A-115VAC/DC	20	RM 1621 A 110 V AC/DC	36	
BJ612-70	76	BNMS T230V-1	71	OBC 0100-24VDC	57	RBR 122 A-230VAC/DC	20	RM 1621 A 220 V AC/DC	36	
BJ612-10	76	BNMS T24V-1	71	OBC 0100-48VDC	57	RBR 122 A-24VAC/DC	20	RM 1621 A 24 V AC/DC	36	
BJ612-70	76	BNMS T48V-1	71	OBC 0100 125 V DC	58	RBR 122 A-48-60VAC/DC	20	RM 1621 A 48 V AC/DC	36	
BJ612-10	16	BNMS T5V-1	71	OBC 0100 110 VAC/125 VDC	58	RB 101 AR-24VAC/DC	16	RM 1621 N 24 V DC	37	
BJ612-70	16	D						16	RM 1621 P 24 V DC	37
BNMS A24V-4	70	D 4/12-3A-3A	76	OBC 0100 R 110 V AC	59	RB 111 A-115VAC/DC	16	RM 1622 A 110 V AC/DC	40	
BNMS A24V-4 250 V/1 A	56	D 4/12-3L-3L	76	OBC 0100 S 125 V DC	58	RB 111 A-230VAC/DC	16	RM 1622 A 110 V AC/DC	40	
BNMS CAIU-250	70	DCB	77	OBC 1000-110VAC	60	RB 111 A-24VAC/DC	16	RM 1622 N 24 V DC	40	
BNMS CAIU-500	70	DCG	22	OBC 1000-230VAC	60	RB 111 A-48-60VAC/DC	16	RM 1622 P 24 V DC	40	
BNMS CAIU-250	74	D 2,5/5-MP	21	OBC 1000-24VDC	60	RB 111 A-24VAC/DC	16	RM 421 A 110 V AC/DC	36	
BNMS CAIU-500	74	D 2,5/5-MP-110VAC	21	OBC 1000-48VDC	60	RB 111 AR-24VAC/DC	16	RM 421 A 220 V AC/DC	36	
BNMS F125mA-1	70	D 2,5/5-MP-230VAC	21	OBC 1000-5VDC	60	RB 114 A 24 V AC/DC	24	RM 421 A 24 V AC/DC	36	
BNMS F125mA-2	70	D 2,5/5-MP-24VAC/DC	21	OBC 0100-115-230VAC/DC	47	RB 114 A 48 V AC/DC	24	RM 421 A 48 V AC/DC	36	
BNMS F125mA-3	70	D 2,5/5-MP-24VDC	21	OBC 0100-24VDC	47	RB 121-12VDC	17	RM 421 N 24 V DC	37	
BNMS F125mA-4	70	D 2,5/5-MP-48VAC/DC	21	OBC 0100-24VDC	47	RB 121-5VDC	17	RM 421 P 24 V DC	37	
BNMS F2A-1	70	D 2,5/5-MP1	51	OBC 0100-48-60VAC/DC	47	RB 121A-110-220VAC/DC	25	RM 422 N 24 V DC	39	
BNMS F2A-2	70	D 2,5/5-OBIA-0030-115VAC	52	OBC 0100-5-12VDC	47	RB 121A-24VAC/DC	25	RM 422 N 48 V DC	39	
BNMS F2A-2	70	D 2,5/5-OBIA-0030-230VAC	52	OBOA 1000-115VAC/DC	50	RB 121A-48VAC/DC	31	RM 422 P 24 V DC	39	
BNMS F2A-7	70	D 2,5/5-OBIA-0030-24VAC	52	OBOA 1000-230VAC/DC	50	RB 121A-24VAC/DC	32	RM 422 P 48 V DC	39	
BNMS F500mA-1	70	D 2,5/5-OBIA-0030-48VAC	52	OBOA 1000-24VDC	50	RB 121AV-48VAC/DC	25	RM 621 A 110 V AC/DC	36	
BNMS F5A-1	70	D 2,5/5-OBIA-0030-48VAC	52	OBOA 1000-48-60VAC/DC	50	RB 121B-110VAC	32	RM 621 A 220 V AC/DC	36	
BNMS F5A-2	70	D 2,5/5-OBIC-0030-125VDC	51	OBOA 2000-24VDC	50	RB 121B-115VAC	32	RM 621 A 24 V AC/DC	36	
BNMS N24V-1	70	D 2,5/5-OBIC-0030-24VDC	51	OBOC 1000-115VAC/DC	48	RB 121B-230VAC	32	RM 621 A 48 V AC/DC	36	
BNMS N24V-2	70	D 2,5/5-OBIC-0030-48VDC	51	OBOC 1000-230VAC/DC	48	RB 121 A-115VAC/DC	17	RM 621 N 24 V DC	37	
BNMS N24V-3	70	D 2,5/5-OBIC-0030-5VDC	51	OBOC 1000-24VDC	48	RB 121 A-230VAC/DC	17	RM 621 P 24 V DC	37	
BNMS N48V-3	70	D 2,5/5-OBIA-1000-110VAC	56	OBOC 1000-48-60VAC/DC	48	RB 121 A-24VAC/DC	17	RM 622 A 110 V AC/DC	40	
BNMS NSV-1	70	D 2,5/5-OBIA-1000-230VAC	56	OBOC 1000-5-12VDC	48	RB 121 A-48-60VAC/DC	17	RM 622 N 24 V DC	40	
BNMS NSV-2	70	D 2,5/5-OBIA-1000-24VAC/DC	56	OBOC 1500-24VAC/DC	48	RB 121 A-24VAC/DC	19	RM 622 P 24 V DC	40	
BNMS NSV-3	70	D 2,5/5-OBIA-1000-48VAC/DC	56	OBOC 5000-115VAC/DC	49	RB 121 AR-115VAC/DC	19	ROB 121 24 V DC	67	
BNMS P24V-1	70	D 2,5/5-OBIA-1000-24VDC	56	OBOC 5000-230VAC/DC	49	RB 121 AR-230VAC/DC	19	RPEV	77	
BNMS P24V-1 24 V/2 A	55	D 2,5/5-OBIA-1000-48VAC/DC	56	OBOC 5000-24VDC	49	RB 121 AR1 110 V AC/DC	26	S		
BNMS P24V-2	70	D 2,5/5-OBIC-0100-24VDC	53	OBRIC 0100-115-230VAC/DC	47	RB 121 AR2 110 V AC/DC	26	SC612	76	
BNMS P24V-2 24 V/1 A	54	D 2,5/5-OBIC-0100-48VDC	53	OBRIC 0100-24VDC	47	RB 121 A 110-135 V AC/DC	26	SC 612	16	
BNMS P24V-3	53	D 2,5/5-OBIC-0100-5VDC	53	OBRIC 0100-48-60VAC/DC	47	RB 121 BCVR 110 V AC	27			
BNMS P48V-3	53	D 2,5/5-OBIC-1000-110VAC	54	OBRIC 0100-5-12VDC	47	RB 121 B 115 V AC	26			
BNMS PSV-1	70	D 2,5/5-OBIC-1000-230VAC	54	OBRIC 0100-5-12VDC	47	RB 121 CV 24 V DC	27			
BNMS PSV-1 5 V/2 A	55	D 2,5/5-OBIC-1000-24VAC/DC	54	OBRIC 0100-48-60VAC/DC	47	RB 121 CV 48 V DC	27			
BNMS PSV-2	70	D 2,5/5-OBIC-1000-24VDC	54	OBRIC 0100-5-12VDC	47	RB 122-24VDC	29			
BNMS PSV-2	70	D 2,5/5-OBIC-1000-48VAC/DC	54	OBRIC 0100-115VAC/DC	50	RB 122-48VDC	29			
BNMS PSV-2 5 V/1 A	54	D 2,5/5-OBIC-1000-5VDC	54	OBRIC 0100-24VDC	50	RB 122A-220VAC/DC	29			
BNMS PSV-3	53	D 2,5/5-OBIC-2000-110VAC	55	OBRIC 0100-48-60VAC/DC	50	RB 122A-24VAC/DC	33			
BNMS R24V-1	21	D 2,5/5-OBIC-2000-230VAC	55	OBRIC 1000-115VAC/DC	48	RB 122A-24VAC/DC	33			
BNMS R24V-2	21	D 2,5/5-OBIC-2000-230VAC	55	OBRIC 1000-230VAC/DC	48	RB 122AR-110VAC/DC	29			
BNMS ST1	70	D 2,5/5-OBIC-2000-24VAC/DC	55	OBRIC 1000-230VAC/DC	48	RB 122AR-110VAC/DC	29			
BNMS ST2	70	D 2,5/5-OBIC-2000-24VDC	55	OBRIC 1000-24VDC	48	RB 122AV-24VAC/DC	29			
BNMS T115V-1	52	D 2,5/5-OBIC-2000-48VAC/DC	55	OBRIC 1000-48-60VAC/DC	48	RB 122AV-48VAC/DC	29			
BNMS T125V-1	51	D 2,5/5-OBIC-2000-5VDC	55	OBRIC 1000-5-12VDC	48	RB 122AV-48VAC/DC	29			
BNMS T230V-1	52	D 2,5/5-R121-24VDC	21	OBRIC 1500-24VAC/DC	48	RB 122B-110VAC/50Hz	33			
BNMS T24V-1	51	D 2,5/5-R121AL-24VAC/DC	21	OBRIC 5000-115VAC/DC	49	RB 122B-115VAC/60Hz	33			
BNMS T24V-2	70	D 2,5/5-R121AL-48VAC/DC	21	OBRIC 5000-230VAC/DC	49	RB 122BR-110VAC	29			
BNMS T24V-3	70	D 2,5/5-R121AL-110VAC	21	OBRIC 5000-24VDC	49	RB 122BR-220VAC	29			
BNMS T48V-1	51	D 2,5/5-R121BL-110VAC	21	OBRIC 5000-24VDC	49	RB 122 12 V DC	30			
BNMS T48V-1	51	D 2,5/5-R121BL-230VAC	21	OM1 A3 24 V AC/DC	66	RB 122 A-115VAC/DC	20			
BNMS T5V-1	51	D 2,5/5-R121L-24VDC	21	OM1 C3 24 V AC/DC	66	RB 122 A-230VAC/DC	20			
BNMS A24V-4	73	E						RB 122 A-24VAC/DC	20	
BNMS F125mA-1	74	EB01-127VAC/DC	64	ORA 111-24VDC	62	RB 122 A-48-60VAC/DC	20			
BNMS F125mA-2	74	EB01-220VAC/DC	64	ORC 111-24VDC	62	RB 122 A 135 V AC/DC	30			
BNMS F125mA-3	74	EB01-24VAC/DC	64	P						
BNMS F125mA-4	74	EB01-48VAC/DC	64	PC9	77	RB 131 24 V DC	24			
BNMS F2A-1	74	EBQ3 DC	63	PCMS	77	RB 131 BCVR 110 V AC	23			
BNMS F2A-2	74	EBO 1R 5 V DC	28	PCMS V0	52	RB 131 CV 24 V DC	23			
BNMS F500mA-1	74	EB IDC 24	65	PEF	77	RB 131 CV 48 V DC	23			
BNMS F5A-1	74	EB IDC 5	65	PR3.G2	78	RB 211 24 V DC	24			
BNMS F5A-2	74	EB OAC 24	65	PR3.Z2	78	RB 310 48 V DC	24			
BNMS N24V-1	73	EB OAC 5	65	PR30	78	RB 310 24 V DC	24			
BNMS N24V-2	72	EB OAC 24	65	PR4	78	RC65	78			
BNMS N24V-3	72	EB ODC 24	65	PR5	78	RC610	78			
BNMS N48V-3	72	EB ODC 5	65	R						
BNMS NSV-1	73	EIP	77	RBR 101 AR-24VAC/DC	16	RC65	78			
		EVBD	77	RBR 111 A-115VAC/DC	16	RC65	78			
						RIV	77			
						RM 101 24 V DC	34			
						RM 111 A 110 V AC/DC	34			