









**3RB20 solid-state overload relays with screw connection on auxiliary current side for direct mounting<sup>1)2)</sup> and stand-alone installation<sup>2)3)</sup>, CLASS 10 or CLASS 20**

Features and technical specifications:

- Overload protection, phase failure protection and unbalance protection
- Internal power supply
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicator
- TEST function and self-monitoring

	Size Contactor <sup>4)</sup>	Set current value of the inverse-time delayed overload trip	Order No.	List Price \$	Weight per PU approx. kg
<b>Size S00<sup>1)</sup></b>					
	S00	0.1 ... 0.4	<b>3RB20 16-1 RB0</b>		0.200
		0.32 ... 1.25	<b>3RB20 16-1 NB0</b>		0.200
		1 ... 4	<b>3RB20 16-1 PB0</b>		0.200
		3 ... 12	<b>3RB20 16-1 SB0</b>		0.200
<b>Size S0<sup>1)</sup></b>					
	S0	0.1 ... 0.4	<b>3RB20 26-1 RB0</b>		0.220
		0.32 ... 1.25	<b>3RB20 26-1 NB0</b>		0.220
		1 ... 4	<b>3RB20 26-1 PB0</b>		0.220
		3 ... 12	<b>3RB20 26-1 SB0</b>		0.220
		6 ... 25	<b>3RB20 26-1 QB0</b>		0.220
<b>Size S2<sup>1)3)5)</sup></b>					
	S2	6 ... 25	<b>3RB20 36-1 QB0</b>		0.360
		12.5 ... 50	<b>3RB20 36-1 QW1</b>		0.230
			<b>3RB20 36-1 UB0</b>		0.360
			<b>3RB20 36-1 UW1</b>		0.230
<b>Size S3<sup>1)3)5)</sup></b>					
	S3	12.5 ... 50	<b>3RB20 46-1 UB0</b>		0.560
		25 ... 100	<b>3RB20 46-1 EB0</b>		0.560
			<b>3RB20 46-1 EW1</b>		0.450
		with busbar			
		with pass through CT's			
<b>Size S6<sup>2)5)</sup></b>					
	S6	50 ... 200	with busbar	<b>3RB20 56-1 FC2</b>	1.030
			with pass through CT's	<b>3RB20 56-1 FW2</b>	0.690
<b>Size S10/S12<sup>2)</sup></b>					
	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	<b>3RB20 66-1 GC2</b>		1.820
		160 ... 630	<b>3RB20 66-1 MC2</b>		1.820

2 Class 20

1 Class 10

- 1) The relays with an Order No. ending with "0" are designed for direct mounting to the contactor. With the matching terminal brackets (see Accessories) the sizes S00 and S0 can also be installed as stand-alone units.
- 2) The relays with an Order No. ending with "2" are designed for direct mounting and stand-alone installation. For 3TF68/3TF69 contactors, direct mounting is not possible.
- 3) The relays with an Order No. ending with "1" are designed for stand-alone installation.
- 4) Observe maximum rated operational current of the devices.
- 5) The relays with an Order No. with "W" in 11th position are equipped with a straight-through transformer.

For accessories, see pages 3/53-3/54.  
For description, see pages 3/19-3/21.  
For technical data, see pages 3/27-3/32.  
For dimension drawings, see page 3/33.  
For schematic diagrams, see page 3/34.

# Overload Relays

## 3RB2 Solid-State Overload Relays

SIRIUS









**3RB20, 3RB21 for standard applications**

**3RB20 solid-state overload relays with spring-loaded terminals on the auxiliary current side for direct mounting<sup>1)2)</sup> and stand-alone installation<sup>2)3)</sup>, CLASS 10 or CLASS 20**

Features and technical specifications:

- Overload protection, phase failure protection and unbalance protection
- Internal power supply
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicator
- TEST function and self-monitoring

Size Contactor <sup>4)</sup>	Set current value of the inverse-time delayed overload trip	Order No.	List Price \$	Weight per PU approx.
<b>Size S00<sup>1)</sup></b>				
 3RB20 16-1RD0	S00	0.1 ... 0.4 0.32 ... 1.25 1 ... 4 3 ... 12	3RB20 16-1 RD0	0.200
			3RB20 16-1 ND0	0.200
			3RB20 16-1 PD0	0.200
			3RB20 16-1 SD0	0.200
<b>Size S0<sup>1)</sup></b>				
 3RB20 26-1QD0	S0	0.1 ... 0.4 0.32 ... 1.25 1 ... 4 3 ... 12 6 ... 25	3RB20 26-1 RD0	0.220
			3RB20 26-1 ND0	0.220
			3RB20 26-1 PD0	0.220
			3RB20 26-1 SD0	0.220
			3RB20 26-1 QD0	0.220
<b>Size S2<sup>1)3)5)</sup></b>				
 3RB20 36-1UD0	S2	6 ... 25 12.5 ... 50	3RB20 36-1 QD0	0.360
			3RB20 36-1 QX1	0.230
			3RB20 36-1 UD0	0.360
			3RB20 36-1 UX1	0.230
<b>Size S3<sup>1)3)5)</sup></b>				
 3RB20 46-1ED0	S3	12.5 ... 50 25 ... 100	with busbar 3RB20 46-1 UD0	0.560
			with pass through CT's 3RB20 46-1 ED0	0.560
			3RB20 46-1 EX1	0.450
<b>Size S6<sup>2)5)</sup></b>				
 3RB20 56-1FX2	S6	50 ... 200	with busbar 3RB20 56-1 FF2	1.030
			with pass through CT's 3RB20 56-1 FX2	0.690
<b>Size S10/S12<sup>2)</sup></b>				
 3RB20 66-1MF2	S10/S12 and size 14 (3TF68/ 3TF69)	55 ... 250 160 ... 630	3RB20 66-1 GF2	1.820
			3RB20 66-1 MF2	1.820

2 Class 20

1 Class 10







- 1) The relays with an Order No. ending with "0" are designed for direct mounting to the contactor. With the matching terminal brackets (see Accessories) the sizes S00 and S0 can also be installed as stand-alone units.
- 2) The relays with an Order No. ending with "2" are designed for direct mounting and stand-alone installation. For 3TF68/3TF69 contactors, direct mounting is not possible.
- 3) The relays with an Order No. ending with "1" are designed for stand-alone installation.
- 4) Observe maximum rated operational current of the devices.
- 5) The relays with an Order No. with "X" in 11th position are equipped with a straight-through transformer.

For accessories, see pages 3/53-3/54.  
 For description, see pages 3/19-3/21.  
 For technical data, see pages 3/27-3/32.  
 For dimension drawings, see page 3/33.  
 For schematic diagrams, see page 3/34.


**3RB21 solid-state overload relays with screw connection on auxiliary current side for direct mounting<sup>1)2)</sup> and stand-alone installation<sup>2)3)</sup>, CLASS 5, 10, 20 and 30 adjustable**

Features and technical specifications:

- Overload protection, phase failure protection and unbalance protection
- Internal ground fault detection (activatable)
- Internal power supply
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Electrical remote RESET integrated
- Switch position indicator
- TEST function and self-monitoring

Size Contactor <sup>4)</sup>	Set current value of the inverse-time delayed overload trip	With screw connection on auxiliary current side		Weight per PU approx. kg	
		Order No.	List Price \$		
<b>Size S00<sup>1)</sup></b>					
 3RB21 13-4RB0	S00	0.1 ... 0.4	<b>3RB21 13-4RB0</b>	0.200	
		0.32 ... 1.25	<b>3RB21 13-4NB0</b>	0.200	
		1 ... 4	<b>3RB21 13-4PB0</b>	0.200	
		3 ... 12	<b>3RB21 13-4SB0</b>	0.200	
<b>Size S0<sup>1)</sup></b>					
 3RB21 23-4QB0	S0	0.1 ... 0.4	<b>3RB21 23-4RB0</b>	0.220	
		0.32 ... 1.25	<b>3RB21 23-4NB0</b>	0.220	
		1 ... 4	<b>3RB21 23-4PB0</b>	0.220	
		3 ... 12	<b>3RB21 23-4SB0</b>	0.220	
		6 ... 25	<b>3RB21 23-4QB0</b>	0.220	
<b>Size S2<sup>1)3)5)</sup></b>					
 3RB21 33-4UB0	S2	6 ... 25	<b>3RB21 33-4QB0</b>	0.360	
		12.5 ... 50	<b>3RB21 33-4QW1</b>	0.230	
			<b>3RB21 33-4UB0</b>	0.360	
 3RB21 43-4EB0	S3	25 ... 100	with busbar	<b>3RB21 43-4UB0</b>	0.560
			with pass through CT's	<b>3RB21 43-4EB0</b>	0.560
			<b>3RB21 43-4EW1</b>	0.450	
<b>Size S6<sup>2)5)</sup></b>					
 3RB21 53-4FC2	S6	50 ... 200	with busbar	<b>3RB21 53-4FC2</b>	1.030
			with pass through CT's	<b>3RB21 53-4FW2</b>	0.690
<b>Size S10/S12<sup>2)</sup></b>					
 3RB21 63-4MC2	S10/S12 and size 14 (3TF68/ 3TF69)	55 ... 250	<b>3RB21 63-4GC2</b>	1.820	
		160 ... 630	<b>3RB21 63-4MC2</b>	1.820	

1) The relays with an Order No. ending with "0" are designed for direct mounting to the contactor. With the matching terminal brackets (see Accessories) the sizes S00 and S0 can also be installed as stand-alone units.

2) The relays with an Order No. ending with "2" are designed for direct mounting and stand-alone installation. For 3TF68/3TF69 contactors, direct mounting is not possible.

3) The relays with an Order No. ending with "1" are designed for stand-alone installation.

4) Observe maximum rated operational current of the devices.

5) The relays with an Order No. with "W" in 11th position are equipped with a straight-through transformer.

For accessories, see pages 3/53-3/54.

For description, see pages 3/19-3/21.

For technical data, see pages 3/27-3/32.

For dimension drawings, see page 3/33.

For schematic diagrams, see page 3/34.

# Overload Relays

## 3RB2 Solid-State Overload Relays

SIRIUS









**3RB20, 3RB21 for standard applications**

**3RB21 solid-state overload relays with spring-loaded terminals on the auxiliary current side for direct mounting<sup>1)2)</sup> and stand-alone installation<sup>1)3)</sup>, CLASS 5, 10, 20 and 30 adjustable**

Features and technical specifications:

- Overload protection, phase failure protection and unbalance protection
- Internal ground fault detection (activatable)
- Internal power supply
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Electrical remote RESET integrated
- Switch position indicator
- TEST function and self-monitoring

Size Contactor <sup>4)</sup>	Set current value of the inverse-time delayed overload trip	With spring-loaded terminals on auxiliary current side		Weight per PU approx. kg
		Order No.	List Price \$	
<b>Size S00<sup>1)</sup></b>				
 3RB21 13-4RD0	S00	0.1 ... 0.4	<b>3RB21 13-4RD0</b>	0.200
		0.32 ... 1.25	<b>3RB21 13-4ND0</b>	0.200
		1 ... 4	<b>3RB21 13-4PD0</b>	0.200
		3 ... 12	<b>3RB21 13-4SD0</b>	0.200
<b>Size S0<sup>1)</sup></b>				
 3RB21 23-4QD0	S0	0.1 ... 0.4	<b>3RB21 23-4RD0</b>	0.220
		0.32 ... 1.25	<b>3RB21 23-4ND0</b>	0.220
		1 ... 4	<b>3RB21 23-4PD0</b>	0.220
		3 ... 12	<b>3RB21 23-4SD0</b>	0.220
		6 ... 25	<b>3RB21 23-4QD0</b>	0.220
<b>Size S2<sup>1)3)5)</sup></b>				
 3RB21 33-4UD0	S2	6 ... 25	<b>3RB21 33-4QD0</b>	0.360
		12.5 ... 50	<b>3RB21 33-4QX1</b>	0.230
			<b>3RB21 33-4UD0</b>	0.360
			<b>3RB21 33-4UX1</b>	0.230
<b>Size S3<sup>1)3)5)</sup></b>				
 3RB21 43-4ED0	S3	12.5 ... 50	<b>3RB21 43-4UD0</b>	0.560
		25 ... 100	with busbar <b>3RB21 43-4ED0</b>	0.560
			with pass through CT's <b>3RB21 43-4EX1</b>	0.450
<b>Size S6<sup>2)5)</sup></b>				
 3RB21 53-4FX2	S6	50 ... 200	with busbar <b>3RB21 53-4FF2</b>	1.030
			with pass through CT's <b>3RB21 53-4FX2</b>	0.690
<b>Size S10/S12<sup>2)</sup></b>				
 3RB21 63-4MF2	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	<b>3RB21 63-4GF2</b>	1.820
		160 ... 630	<b>3RB21 63-4MF2</b>	1.820

1) The relays with an Order No. ending with "0" are designed for direct mounting to the contactor. With the matching terminal brackets (see Accessories) the sizes S00 and S0 can also be installed as stand-alone units.

2) The relays with an Order No. ending with "2" are designed for direct mounting and stand-alone installation. For 3TF68/3TF69 contactors, direct mounting is not possible.

3) The relays with an Order No. ending with "1" are designed for stand-alone installation.

4) Observe maximum rated operational current of the devices.

5) The relays with an Order No. with "X" in 11th position are equipped with a straight-through transformer.

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