









3RB20 solid-state overload relays with screw connection on auxiliary current side for direct mounting and stand-alone installation²⁾³⁾, CLASS 10 and 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 Con-tactor ⁴⁾	Set current value of the inverse-time delayed overload trip	Order No.	List Price \$	Weight per PU approx. kg
Size S00¹⁾					
 3RB20 16-1RB0	S00	0.1 ... 0.4	3RB20 16-1RB0	82.00	0.200
		0.32 ... 1.25	3RB20 16-1NB0	82.00	0.200
		1 ... 4	3RB20 16-1PB0	82.00	0.200
		3 ... 12	3RB20 16-1SB0	82.00	0.200
Size S0¹⁾					
 3RB20 26-1QB0	S0	3 ... 12	3RB20 26-1SB0	85.00	0.220
		6 ... 25	3RB20 26-1QB0	85.00	0.220
Size S2¹⁾³⁾⁵⁾					
 3RB20 36-1UB0	S2	6 ... 25	3RB20 36-1QB0	94.00	0.360
			3RB20 36-1QW1	109.00	0.230
		12.5 ... 50	3RB20 36-1UB0	162.00	0.360
			3RB20 36-1UW1	177.00	0.230
Size S3¹⁾³⁾⁵⁾					
 3RB20 46-1EB0	S3	12.5 ... 50	3RB20 46-1UB0	192.00	0.560
			3RB20 46-1EB0	255.00	0.560
		25 ... 100	3RB20 46-1EW1	270.00	0.450
Size S6²⁾⁵⁾					
 3RB20 56-1FW2	S6	50 ... 200	3RB20 56-1FC2	300.00	1.030
			3RB20 56-1FW2	320.00	0.690
Size S10/S12²⁾					
 3RB20 66-1MC2	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	3RB20 66-1GC2	377.00	1.820
		160 ... 630	3RB20 66-1MC2	540.00	1.820

2 Class 20, S00 and S0 add \$ 5.00
S2 and S3 add \$ 10.00
S6 and S12 add \$ 20.00

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.

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 mounting¹⁾²⁾ and stand-alone installation²⁾³⁾, CLASS 10 and 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 Con-tactor ⁴⁾	Set current value of the inverse-time delayed overload trip	Order No.	List Price \$	Weight per PU approx. kg
Size S00¹⁾					
	S00	0.1 ... 0.4	3RB20 16-1 RD0	87.00	0.200
		0.32 ... 1.25	3RB20 16-1 ND0	87.00	0.200
		1 ... 4	3RB20 16-1 PD0	87.00	0.200
		3 ... 12	3RB20 16-1 SD0	87.00	0.200
Size S0¹⁾					
	S0	3 ... 12	3RB20 26-1 SD0	90.00	0.220
		6 ... 25	3RB20 26-1 QD0	90.00	0.220
Size S2¹⁾³⁾⁵⁾					
	S2	6 ... 25	3RB20 36-1 QD0	99.00	0.360
		12.5 ... 50	3RB20 36-1 QX1	114.00	0.230
			3RB20 36-1 UD0	167.00	0.360
			3RB20 36-1 UX1	182.00	0.230
Size S3¹⁾³⁾⁵⁾					
	S3	12.5 ... 50	3RB20 46-1 UD0	197.00	0.560
		25 ... 100	3RB20 46-1 ED0	260.00	0.560
			3RB20 46-1 EX1	275.00	0.450
Size S6²⁾⁵⁾					
	S6	50 ... 200	3RB20 56-1 FF2	305.00	1.030
			3RB20 56-1 FX2	325.00	0.690
Size S10/S12²⁾					
	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	3RB20 66-1 GF2	382.00	1.820
		160 ... 630	3RB20 66-1 MF2	545.00	1.820

2 Class 20, S00 and S0 add \$ **5.00**
S2 and S3 add \$ **10.00**
S6 and S12 add \$ **20.00**

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.



3RB21 solid-state overload relays with screw connection on auxiliary current side for direct mounting¹⁾²⁾ and stand-alone installation²⁾³⁾, 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	Con-factor ⁴⁾	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 \$	
Size S00¹⁾					
	S00	0.1 ... 0.4	3RB21 13-4RB0	134.00	0.200
		0.32 ... 1.25	3RB21 13-4NB0	134.00	0.200
		1 ... 4	3RB21 13-4PB0	134.00	0.200
		3 ... 12	3RB21 13-4SB0	134.00	0.200
Size S0¹⁾					
	S0	3 ... 12	3RB21 23-4SB0	145.00	0.220
		6 ... 25	3RB21 23-4QB0	145.00	0.220
Size S2¹⁾³⁾⁵⁾					
	S2	6 ... 25	3RB21 33-4QB0	160.00	0.360
		12.5 ... 50	3RB21 33-4QW1	175.00	0.230
			3RB21 33-4UB0	214.00	0.360
			3RB21 33-4UW1	230.00	0.230
Size S3¹⁾³⁾⁵⁾					
	S3	12.5 ... 50	3RB21 43-4UB0	270.00	0.560
		25 ... 100	3RB21 43-4EB0	357.00	0.560
			3RB21 43-4EW1	372.00	0.450
Size S6²⁾⁵⁾					
	S6	50 ... 200	3RB21 53-4FC2	490.00	1.030
			3RB21 53-4FW2	510.00	0.690
Size S10/S12²⁾					
	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	3RB21 63-4GC2	528.00	1.820
		160 ... 630	3RB21 63-4MC2	756.00	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.

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 mounting¹⁾²⁾ and stand-alone installation¹⁾³⁾, 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 Con-factor ⁴⁾	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 \$	
Size S00¹⁾				
 3RB21 13-4RD0	S00 0.1 ... 0.4 0.32 ... 1.25 1 ... 4 3 ... 12	3RB21 13-4RD0	144.00	0.200
		3RB21 13-4ND0	144.00	0.200
		3RB21 13-4PD0	144.00	0.200
		3RB21 13-4SD0	144.00	0.200
Size S0¹⁾				
 3RB21 23-4QD0	S0 3 ... 12 6 ... 25	3RB21 23-4SD0	150.00	0.220
		3RB21 23-4QD0	150.00	0.220
Size S2¹⁾³⁾⁵⁾				
 3RB21 33-4UD0	S2 6 ... 25 12.5 ... 50	3RB21 33-4QD0	165.00	0.360
		3RB21 33-4QX1	180.00	0.230
		3RB21 33-4UD0	219.00	0.360
		3RB21 33-4UX1	235.00	0.230
Size S3¹⁾³⁾⁵⁾				
 3RB21 43-4ED0	S3 12.5 ... 50 25 ... 100	3RB21 43-4UD0	275.00	0.560
		3RB21 43-4ED0	362.00	0.560
		3RB21 43-4EX1	377.00	0.450
Size S6²⁾⁵⁾				
 3RB21 53-4FX2	S6 50 ... 200	3RB21 53-4FF2	495.00	1.030
		3RB21 53-4FX2	515.00	0.690
Size S10/S12²⁾				
 3RB21 63-4MF2	S10/S12 and size 14 (3TF68/ 3TF69)	3RB21 63-4GF2	533.00	1.820
		3RB21 63-4MF2	761.00	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.