

SIEMENS MCB SERICES

3RU11



Features:

- Precision Protection.
- Flexible installation.
- Wide pressure adaptation.

Overload relays	Current measurement	Current range	Contactors (type, size, rating in kW)					
			3RT10 1	3RT10 2	3RT10 3	3RT10 4	3RT10 5	3RT10 5
3RU11 thermal overload relays								
3RU11 1	integrated	0.11...12	✓	/	/	/	/	/
3RU11 2	integrated	1.8...25	/	✓	/	/	/	/
3RU11 3	integrated	5.5...50	/	/	✓	/	/	/
3RU11 4	integrated	18...100	/	/	/	✓	/	/

3RB20



Features:

- Accurate protection, intelligent and reliable.
- Flexible installation and efficient debugging.
- Durable and durable, widely adaptable.

Overload relays	Current measurement	Current range	Contactors (type, size, rating in kW)					
			3RT10 1	3RT10 2	3RT10 3	3RT10 4	3RT10 5	3RT10 5
3RB20/3RB21 solid-state overload relays								
3RB2.1	integrated	0.1...22	✓	/	/	/	/	/
3RB20 2	integrated	3...25	/	✓	/	/	/	/
3RB21 2	integrated	1...25	/	✓	/	/	/	/
3RB2.3	integrated	6...50	/	/	✓	/	/	/
3RB2.4	integrated	12.5...100	/	/	/	✓	/	/
3RB2.5	integrated	50...200	/	/	/	/	✓	/
3RB2.6	integrated	55...630	/	/	/	/	/	✓

3RB22

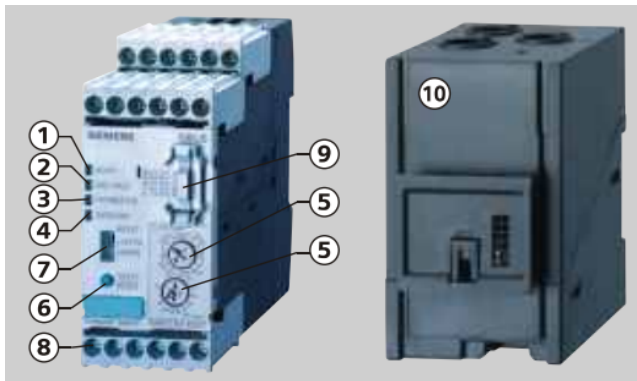


Features:

- Intelligent full protection.
- Modular and easy to integrate.
- Durable, resistant to manufacturing, and long-lasting.

Overload relays	Current measurement	Current range	Contactors (type, size, rating in kW)					
			3RT10 1	3RT10 2	3RT10 3	3RT10 4	3RT10 5	3RT10 5
3RB22/3RB23 solid-state overload relays								
3RB223 RB23 +	3RB29 0	0.3...25	✓	✓	/	/	/	/
	3RB29 0	10...100	/	/	✓	✓	/	/
	3RB29 5	20...200	/	/	/	/	✓	/
	3RB29 6	63...630	/	/	/	/	/	✓
	3RB29 0 + 3KE23	630...820	/	/	/	/	/	/





For high feature requirements (3RB22/23)

Modular design to reduce inventory

Wider setting range of 1:10

Both current & temperature based protection in one device

Site fittable expansion modules

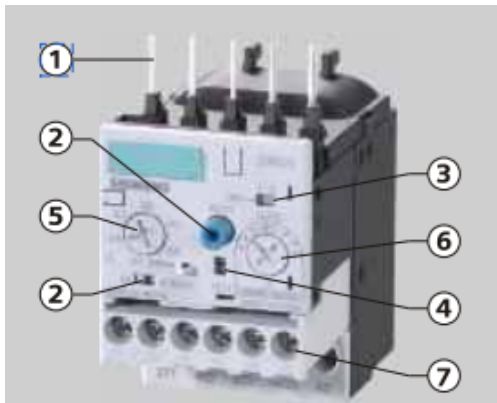
Overload pre-warning to reduce downtime

Transmission of operating data via Analog Output

3RB20.3RB21 for standard applications

- 1 Green "Ready" LED**
Green steady light indicates that the device is functioning perfectly.
- 2 Red "Ground fault" LED**
Red steady light indicates that there is a ground fault.
- 3 Red "thermistor" LED**
Red steady light indicates a thermistor trip.
- 4 Red "overload" LED**
Red steady light indicates an overload trip; red flashing light indicates a warning for overload trip (overload alarm).
- 5 Motor current and tripping class setting**
Using the 2 rotary switches, the device can be simply set to the motor current as well as the required tripping class, which is a function of the prevailing starting conditions.
- 6 TEST/RESET button**
This allows all of the important device components and functions to be tested. The device can also be reset after a trip if the manual RESET function was selected. Alternatively, the device can be reset automatically or remotely.
- 7 Selector switch for manual/automatic RESET**
This switch can be used to simply select either a manual or an automatic RESET.
- 8 Terminals**
Screw terminals permit two conductors with different cross-sections to be connected for the auxiliary, control and sensor circuits.
- 9 Function expansion module**
This allows the functions of the evaluation module to be expanded, e.g. an internal ground fault detection function can be activated and/or analog output with the appropriate signals. (refer page 6 for details).
- 10 Current measuring module**
This module measures the motor current flowing.





For standard application (3RB20 & 3RB21)

1. Unified range up to 630A with integrated CTs
2. Wide setting range of 1:4
3. Self powered (no external control supply)
4. Self monitoring feature to ensure protection reliability
5. Remote RESET (with 3RB21)
6. Low power loss (0.05W)

3RB20.3RB21 for standard applications

- 1 Connecting pins for main circuit:**
Overload relays upto 12A are supplied with connecting pins. A separate individual mounting accessory should be ordered for these ratings. For higher rating relays, main circuit connection is with straight through connection or busbar connection.
- 2 Selector switch for manual/automatic RESET and RESET button:**
This switch is used to select either manual or automatic RESET. In the manual RESET setting, the relay can be locally reset by pressing RESET button. For 3RB21 remote RESET is also possible using 24V supply.
- 3 Switch position indicator and TEST function to check the wiring:**
This indicates that relay has tripped and allows a check to be made whether wiring is incorrect.
- 4 Electronic test Enables a test:**
of all important components and functions.
- 5 Motor current Setting:**
The relay can be simply set to the rated motor current using large knob.
- 6 Tripping class setting/internal ground fault protection (only for 3RB21)**
Using the rotary switch, the required tripping class can be set and internal ground fault protection can be activated.
- 7 Auxiliary Terminal (Screw Connection):**
The auxiliary terminals are generously dimensioned to permit two conductors with different cross-sections to be connected for the auxiliary circuit. The auxiliary terminals are removable for faster termination.

Accessories

Sealable covers



Terminal covers



Box terminal blocks



Push-in lugs



SIEMENS

MCB SERICES

3RB20 16-1RB0



Features:

- Accurate overload protection.
- High integration and space saving.
- Durable and anti-interference.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 ¹⁾								
S00	0.04 ... 0.09	0.1 ... 0.4	A	3RB20 16-1RB0	1	1 unit	101	0.200
	0.12 ... 0.37	0.32 ... 1.25	A	3RB20 16-1NB0	1	1 unit	101	0.200
	0.55 ... 1.5	1 ... 4	A	3RB20 16-1PB0	1	1 unit	101	0.200
	1.1 ... 5.5	3 ... 12	A	3RB20 16-1SB0	1	1 unit	101	0.200

3RB20 26-1QB0



Features:

- Accurate overload protection.
- High integration and space saving.
- Durable and anti-interference.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S0	1.1 ... 5.5	3 ... 12	A	3RB20 26-1SB0	1	1 unit	101	0.220
	3 ... 11	6 ... 25	A	3RB20 26-1QB0	1	1 unit	101	0.220

3RB20 36-1UB0



Features:

- Precision overcurrent protection.
- Wide range adjustable + Strong adaptability.
- Durable, stable, and resistant to interference.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S2 ¹⁾ 3)7)								
S2	3 ... 11	6 ... 25	A	3RB20 36-1QB0	1	1 unit	101	0.360
			A	3RB20 36-1QW1	1	1 unit	101	0.230
	7.5 ... 22	12.5 ... 50	A	3RB20 36-1UB0	1	1 unit	101	0.360
			A	3RB20 36-1UW1	1	1 unit	101	0.230

3RB20 46-1EB0



Features:

- Accurate overload protection.
- High integration and space saving.
- Durable and anti-interference.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S3 ¹⁾ 3)7)								
S3	7.5 ... 22	12.5 ... 50	A	3RB20 46-1UD0	1	1 unit	101	0.560
			A	3RB20 46-1ED0	1	1 unit	101	0.560
	11 ... 45	25 ... 100	A	3RB20 46-1EX1	1	1 unit	101	0.450



SIEMENS MCB SERIES

320 56-1FW2



Features:

- High current wide range adaptation.
- Through installation saves wiring.
- Industrial grade high reliability protection.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S62)7)								
S6 with bar connection	22 ... 90	50 ... 200	A	3RB20 56-1FC2	1	1 unit	101	1.030
S6 with box terminals			A	3RB20 56-1FW2	1	1 unit	101	0.690

3RB20 66-1MC2



Features:

- Ultra high current full coverage.
- Busbar type stable wiring.
- Intelligent electronic precision protection.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S10/S12 2)								
S10/S12 and size 14 (3TF68/ 3TF69)	22...110	55...250	A	3RB20 66-1GC2	1	1 unit	101	1.820
	90...450	160 ...630	A	3RB20 66-1MC2	1	1 unit	101	1.820

3RB20 16-1RD0



Features:

- Ultra high current full coverage.
- Busbar type stable wiring.
- Intelligent electronic precision protection.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 1)								
S00	0.04... 0.09	0.1...0.4	A	3RB20 16-1RD0	1	1 unit	101	0.200
	0.12... 0.37	0.32 ... 1.25	A	3RB20 16-1ND0	1	1 unit	101	0.200
	0.55... 1.5	1...4	A	3RB20 16-1PD0	1	1 unit	101	0.200
	1.1...5.5	3... 12	A	3RB20 16-1SD0	1	1 unit	101	0.200

3RB20 26-1QD0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 1)								
S0	1.1...5.5	3... 12	A	3RB20 26-1SD0	1	1 unit	101	0.220
	3... 11	6... 25	A	3RB20 26-1QD0	1	1 unit	101	0.220



SIEMENS MCB SERIES

3RB20 36-1UD0



Features:

- Ultra high current full coverage.
- Busbar type stable wiring.
- Intelligent electronic precision protection.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 ¹⁾								
S2	3... 11	6...25	A	3RB20 36-1QD0	1	1 unit	101	0.360
			A	3RB20 36-1QX1	1	1 unit	101	0.230
	7.5... 22	12.5... 50	A	3RB20 36-1UD0	1	1 unit	101	0.360
			A	3RB20 36-1UX1	1	1 unit	101	0.230

3RB20 46-1ED0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S3	7.5... 22	12.5...50	A	3RB20 46-1UD0	1	1 unit	101	0.560
	11 ...45	25... 100	A	3RB20 46-1ED0	1	1 unit	101	0.560
			A	3RB20 46-1EX1	1	1 unit	101	0.450

3RB20 56-1FX2



Features:

- Extra-wide current adjustment range.
- Reliable protection under all operating conditions.
- Flexible installation and wiring.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S6 ^{2) 7)}								
S6 withbar connection	22...90	50...200	A	3RB20 56-1FF2	1	1 unit	101	1.030
S6 withbox terminals			A	3RB20 56-1FX2	1	1 unit	101	0.690

3RB20 66-1MF2



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S00	22...110	55...250	A	3RB20 66-1GF2	1	1 unit	101	1.820
	90...450	160...630	A	3RB20 66-1MF2	1	1 unit	101	1.820



SIEMENS MCB SERICES

3RB20 16-2RB0



Features:

- Compact and compact.
- Precision Protection.
- Convenient and easy-to-use.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 ¹⁾								
S00	0.04... 0.09	0.1...0.4	A	3RB20 16-2RB0	1	1 unit	101	0.200
	0.12... 0.37	0.32...1.25	A	3RB20 16-2NB0	1	1 unit	101	0.200
	0.55... 1.5	1...4	A	3RB20 16-2PB0	1	1 unit	101	0.200
	1.1... 5.5	3...12	A	3RB20 16-2SB0	1	1 unit	101	0.200

3RB20 26-2QB0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S0	1.1...5.5	3... 12	A	3RB20 26-2SB0	1	1 unit	101	0.220
	3...11	6... 25	A	3RB20 26-2QB0	1	1 unit	101	0.220

3RB20 36-2UB0



Features:

- Extra-wide current adjustment range.
- Reliable protection under all operating conditions.
- Flexible installation and wiring.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S2 ¹⁾ 3)7)								
S2	3... 11	6... 25	A	3RB20 36-2QB0	1	1 unit	101	0.360
			A	3RB20 36-2QW1	1	1 unit	101	0.230
	7.5... 22	12.5...50	A	3RB20 36-2UB0	1	1 unit	101	0.360
			A	3RB20 36-2UW1	1	1 unit	101	0.230

3RB20 46-2EB0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S3 ¹⁾ 3)7)								
S3	7.5...22	12.5...50	A	3RB20 46-2UB0	1	1 unit	101	0.560
	11 ...45	25...100	A	3RB20 46-2EB0	1	1 unit	101	0.560
			A	3RB20 46-2EW1	1	1 unit	101	0.450



SIEMENS MCB SERIES

3RB20 56-2FW2



Features:

- Wide range precise protection.
- Flexible installation.
- Multi functional and easy-to-use.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S6 2)7)								
S6 with hacton	22...90	50...200	A	3RB20 56-2FC2	1	1 unit	101	1.030
S6 with box terminals			A	3RB20 56-2FW2	1	1 unit	101	0.690

3RB20 66-2MC2



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S10/S12 and size14	22...110	55...250	A	3RB20 66-2GC2	1	1 unit	101	1.820
	90...450	160...630	A	3RB20 66-2MC2	1	1 unit	101	1.820

3RB20 56-2FW2



Features:

- Wide range precise protection.
- Flexible installation.
- Multi functional and easy-to-use.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 ¹⁾								
S0	0.04... 0.09	0.1...0.4	A	3RB20 16-2RD0	1	1 unit	101	0.200
	0.12... 0.37	0.32 ... 1.25	A	3RB20 16-2ND0	1	1 unit	101	0.200
	0.55... 1.5	1...4	A	3RB20 16-2PD0	1	1 unit	101	0.200
	1.1... 5.5	3...12	A	3RB20 16-2SD0	1	1 unit	101	0.200

3RB20 66-2MC2



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S10/S12 and size14	22...110	55...250	A	3RB20 66-2GC2	1	1 unit	101	1.820
	90...450	160...630	A	3RB20 66-2MC2	1	1 unit	101	1.820



SIEMENS MCB SERIES

3RB20 16-2RD0



Features:

- Wide range precise protection.
- Flexible installation.
- Multi functional and easy-to-use.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S00 ¹⁾								
S00	0.04... 0.09	0.1...0.4	A	3RB20 16-2RD0	1	1 unit	101	0.200
	0.12... 0.37	0.32...1.25	A	3RB20 16-2ND0	1	1 unit	101	0.200
	0.55... 1.5	1...4	A	3RB20 16-2PD0	1	1 unit	101	0.200
	1.1... 5.5	3...12	A	3RB20 16-2SD0	1	1 unit	101	0.200

3RB20 26-2RD0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾								
S0	1.1... 5.5	3... 12	A	3RB20 26-2SD0	1	1 unit	101	0.220
	3... 11	6... 25	A	3RB20 26-2QD0	1	1 unit	101	0.220

3RB20 36-2UD0



Features:

- Multiple electrical protections.
- Dual reset mode.
- Strong adaptability.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S2 ¹⁾³⁾⁷⁾								
S2	3... 11	6...25	A	3RB20 36-2QD0	1	1 unit	101	0.360
			A	3RB20 36-2QX1	1	1 unit	101	0.230
	7.5... 22	12.5... 50	A	3RB20 36-2UD0	1	1 unit	101	0.360
			A	3RB20 36-2UX1	1	1 unit	101	0.230

3RB20 46-2ED0



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S0 ¹⁾³⁾⁷⁾								
S3	7.5... 22	12.5...50	A	3RB20 46-2UD0	1	1 unit	101	0.560
	11...45	25...100	A	3RB20 46-2ED0	1	1 unit	101	0.560
			A	3RB20 46-2EX1	1	1 unit	101	0.450



SIEMENS MCB SERIES

3RB20 56-2FX2



Features:

- Wide range precise protection.
- Flexible installation.
- Multi functional and easy-to-use.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S6 2) 7)								
S6 with bar connection	22...90	50...200	A	3RB20 56-2FF2	1	1 unit	101	1.030
S6 with box terminals			A	3RB20 56-2FX2	1	1 unit	101	0.690

3RB20 66-2MF2



Features:

- High precision motor comprehensive protection.
- Convenient current setting.
- Industrial grade anti-interference and durable.

Size of contactor	Rating for induction motor	Current value of inverse time delay	DT	Spring-loaded terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size S10/S12 2)								
S10/S12 and size 14 (3TF68/3TF69)	1.1... 5.5	3... 12	A	3RB20 26-2SD0	1	1 unit	101	1.820
	3... 11	6... 25	A	3RB20 26-2QD0	1	1 unit	101	1.820

