

Motor Protection Circuit Breakers - 3RV



Class 10, without auxiliary switch, standard switching capacity, screw terminals

MPCB Specifications			MPCB with Standard release ¹⁾	MPCB with "relay function" ²⁾	MPCB with "Mag only" Release ³⁾	MPCB for transformer protection	
MPCB Size	MPCB rated current A	MPCB overload range A	Type*	Type*	Type*	Type*	
S00	0.16	0.11...0.16	3RV2011-0AA10	3RV2111-0AA10	3RV2311-0AC10	3RV2411-0AA10	
	0.2	0.14...0.2	3RV2011-0BA10	3RV2111-0BA10	3RV2311-0BC10	3RV2411-0BA10	
	0.25	0.18...0.25	3RV2011-0CA10	3RV2111-0CA10	3RV2311-0CC10	3RV2411-0CA10	
	0.32	0.22...0.32	3RV2011-0DA10	3RV2111-0DA10	3RV2311-0DC10	3RV2411-0DA10	
	0.4	0.28...0.4	3RV2011-0EA10	3RV2111-0EA10	3RV2311-0EC10	3RV2411-0EA10	
	0.5	0.35...0.5	3RV2011-0FA10	3RV2111-0FA10	3RV2311-0FC10	3RV2411-0FA10	
	0.63	0.45...0.63	3RV2011-0GA10	3RV2111-0GA10	3RV2311-0GC10	3RV2411-0GA10	
	0.8	0.55...0.8	3RV2011-0HA10	3RV2111-0HA10	3RV2311-0HC10	3RV2411-0HA10	
	1	0.7...1	3RV2011-0JA10	3RV2111-0JA10	3RV2311-0JC10	3RV2411-0JA10	
	1.25	0.9...1.25	3RV2011-0KA10	3RV2111-0KA10	3RV2311-0KC10	3RV2411-0KA10	
	1.6	1.1...1.6	3RV2011-1AA10	3RV2111-1AA10	3RV2311-1AC10	3RV2411-1AA10	
	2	1.4...2	3RV2011-1BA10	3RV2111-1BA10	3RV2311-1BC10	3RV2411-1BA10	
	2.5	1.8...2.5	3RV2011-1CA10	3RV2111-1CA10	3RV2311-1CC10	3RV2411-1CA10	
	3.2	2.2...3.2	3RV2011-1DA10	3RV2111-1DA10	3RV2311-1DC10	3RV2411-1DA10	
	4	2.8...4	3RV2011-1EA10	3RV2111-1EA10	3RV2311-1EC10	3RV2411-1EA10	
	5	3.5...5	3RV2011-1FA10	3RV2111-1FA10	3RV2311-1FC10	3RV2411-1FA10	
S0	6.3	4.5...6.3	3RV2011-1GA10	3RV2111-1GA10	3RV2311-1GC10	3RV2411-1GA10	
	8	5.5...8	3RV2011-1HA10	3RV2111-1HA10	3RV2311-1HC10	3RV2411-1HA10	
	10	7...10	3RV2011-1JA10	3RV2111-1JA10	3RV2311-1JC10	3RV2411-1JA10	
	12.5	9...12.5	3RV2011-1KA10	3RV2111-1KA10	3RV2311-1KC10	3RV2411-1KA10	
	16	10...16	3RV2011-4AA10	3RV2111-4AA10	3RV2311-4AC10	3RV2411-4AA10	
	16	10 ... 16	3RV2021-4AA10	3RV2121-4AA10	3RV2321-4AC10	3RV2421-4AA10	
	20	13 ... 20	3RV2021-4BA10	3RV2121-4BA10	3RV2321-4BC10	3RV2421-4BA10	
	22	16 ... 22	3RV2021-4CA10	3RV2121-4CA10	3RV2321-4CC10	3RV2421-4CA10	
	25	18 ... 25	3RV2021-4DA10	3RV2121-4DA10	3RV2321-4DC10	3RV2421-4DA10	
	28	23 ... 28	3RV2021-4NA10	3RV2121-4NA10	3RV2321-4NC10	-	
	32	27 ... 32	3RV2021-4EA10	3RV2121-4EA10	3RV2321-4EC10	-	
	36	30 ... 36	3RV2021-4PA10	-	3RV2321-4PC10	-	
	40	34 ... 40	3RV2021-4FA10	-	3RV2321-4FC10	-	
	S2	25	18 ... 25	3RV2031-4DA10	3RV2131-4DA10	3RV2331-4DC10	3RV2431-4DA10
		32	22 ... 32	3RV2031-4EA10	3RV2131-4EA10	3RV2331-4EC10	3RV2431-4EA10
		36	28 ... 36	3RV2031-4PA10	3RV2131-4PA10	3RV2331-4PC10	3RV2431-4PA10
40		32 ... 40	3RV2031-4UA10	3RV2131-4UA10	3RV2331-4UC10	3RV2431-4UA10	
45		35 ... 45	3RV2031-4VA10	3RV2131-4VA10	3RV2331-4VC10	3RV2431-4VA10	
52		42 ... 52	3RV2031-4WA10	3RV2131-4WA10	3RV2331-4WC10	3RV2431-4WA10	
59		49 ... 59	3RV2031-4XA10	3RV2131-4XA10	3RV2331-4XC10	3RV2431-4XA10	
65		54 ... 65	3RV2031-4JA10	3RV2131-4JA10	3RV2331-4JC10	3RV2431-4JA10	
S3	73	62 ... 73	3RV2031-4KA10	3RV2131-4KA10	3RV2331-4KC10	-	
	80	70 ... 80	3RV2031-4RA10	3RV2131-4RA10	3RV2331-4RC10	-	
	50	36 ... 50	3RV2041-4HA10	3RV2142-4HA10	3RV2341-4HC10	-	
	63	45 ... 63	3RV2041-4JA10	3RV2142-4JA10	3RV2341-4JC10	-	
	75	57 ... 75	3RV2041-4KA10	3RV2142-4KA10	3RV2341-4KC10	-	
	84	65 ... 84	3RV2041-4RA10	3RV2142-4RA10	3RV2341-4RC10	-	
S3	93	75 ... 93	3RV2041-4YA10	3RV2142-4YA10	3RV2341-4YC10	-	
	100	80 ... 100	3RV2041-4MA10	3RV2142-4MA10	3RV2341-4MC10	-	

1) MPCB trips on SC and also on OL

2) MPCB trips on SC and opens contactor on OL

3) MPCB trips on SC

* Spring type terminals are not available for relay function MPCB 3RV21

* 3RV20 and 3RV23: For ordering spring type terminal please replace 11th digit from "1" to "2" (available upto 32A in S00 and S0 only)

Standard packing for all above products is 1 no.

Class 10, without auxiliary switch, increased switching capacity (100kA), screw terminals

MPCB Specifications			MPCB with Standard release ¹⁾	MPCB with "relay function" ²⁾	MPCB with "Mag only" Release ³⁾
MPCB Size	MPCB rated current A	MPCB overload range A	Type	Type	Type
S2	25	18 ... 25	3RV2032-4DA10	-	3RV2332-4DC10
	32	22 ... 32	3RV2032-4EA10	-	3RV2332-4EC10
	36	28 ... 36	3RV2032-4PA10	-	3RV2332-4PC10
	40	32 ... 40	3RV2032-4UA10	-	3RV2332-4UC10
	45	35 ... 45	3RV2032-4VA10	-	3RV2332-4VC10
	52	42 ... 52	3RV2032-4WA10	-	3RV2332-4WC10
	59	49 ... 59	3RV2032-4XA10	-	3RV2332-4XC10
	65	54 ... 65	3RV2032-4JA10	-	3RV2332-4JC10
	73	62 ... 73	3RV2032-4KA10	-	3RV2332-4KC10
	80	70 ... 80	3RV2032-4RA10	-	3RV2332-4RC10
S3	40	28 ... 40	3RV2042-4FA10	3RV2142-4FA10	3RV2342-4FC10
	50	36 ... 50	3RV2042-4HA10	3RV2142-4HA10	3RV2342-4HC10
	63	45 ... 63	3RV2042-4JA10	3RV2142-4JA10	3RV2342-4JC10
	75	57 ... 75	3RV2042-4KA10	3RV2142-4KA10	3RV2342-4KC10
	84	65 ... 84	3RV2042-4RA10	3RV2142-4RA10	3RV2342-4RC10
	93	75 ... 93	3RV2042-4YA10	3RV2142-4YA10	3RV2342-4YC10
	100	80 ... 100	3RV2042-4MA10	3RV2142-4MA10	3RV2342-4MC10

Class 20, without auxiliary switch, screw terminals

MPCB Specifications					MPCB with Standard release ¹⁾	Std. pkg. (nos.)
MPCB Size	MPCB rated current A	MPCB overload range A	MPCB Short circuit setting A	Breaking capacity kA	Type ¹⁾	
S2	14	9.5 ... 14	208	65	3RV2031-4SB10	1
	17	12 ... 17	260	65	3RV2031-4TB10	1
	20	14 ... 20	260	65	3RV2031-4BB10	1
	25	18 ... 25	325	65	3RV2031-4DB10	1
	32	22 ... 32	416	65	3RV2031-4EB10	1
	36	28 ... 36	520	65	3RV2031-4PB10	1
	40	32 ... 40	585	65	3RV2031-4UB10	1
	45	35 ... 45	650	65	3RV2031-4VB10	1
	52	42 ... 52	741	65	3RV2031-4WB10	1
	59	49 ... 59	845	65	3RV2031-4XB10	1
S3	65	54 ... 65	845	65	3RV2031-4JB10	1
	40	28 ... 40	520	100	3RV2042-4FB10	1
	50	36 ... 50	650	100	3RV2042-4HB10	1
	63	45 ... 63	819	100	3RV2042-4JB10	1
	75	57 ... 75	975	100	3RV2042-4KB10	1
	84	65 ... 84	1170	100	3RV2042-4RB10	1
	93	75 ... 93	1300	100	3RV2042-4YB10	1
100	80 ... 100	1300	100	3RV2042-4MB10	1	

1) MPCB trips on SC and also on OL

2) MPCB trips on SC and opens contactor on OL

3) MPCB trips on SC

Standard packing for all above products is 1 no.

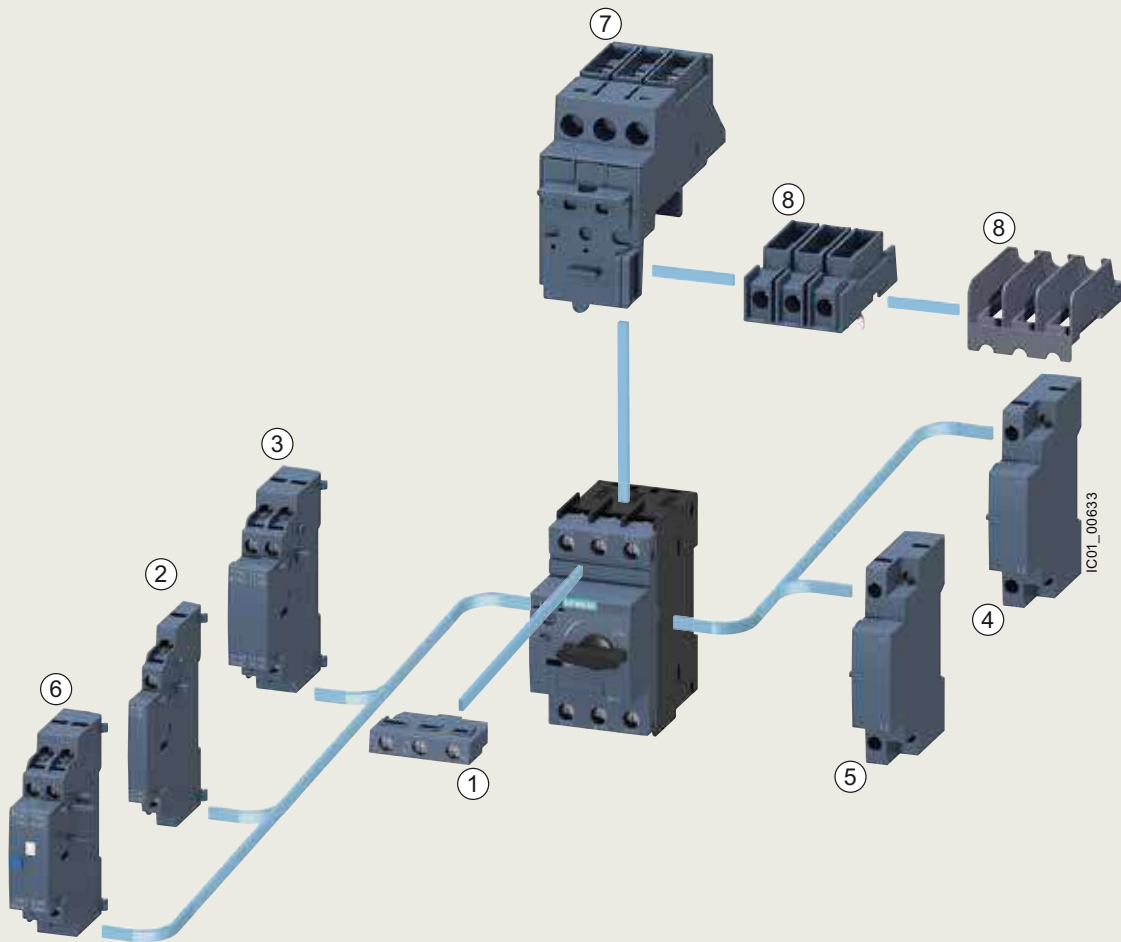
Circuit breaker size S00 for motor protection, Toggle Switch

Rating	Type *	Rating	Type *
0.11...0.16	3RV1011-0AA10	1.1...1.6	3RV1011-1AA10
0.14 ... 0.2	3RV1011-0BA10	1.4 ... 2	3RV1011-1BA10
0.18...0.25	3RV1011-0CA10	1.8...2.5	3RV1011-1CA10
0.22 ... 0.32	3RV1011-0DA10	2.2 ... 3	3RV1011-1DA10
0.28...0.4	3RV1011-0EA10	2.8...4	3RV1011-1EA10
0.35 ... 0.5	3RV1011-0FA10	3.5 ... 5	3RV1011-1FA10
0.45...0.63	3RV1011-0GA10	4.5 ... 6	3RV1011-1GA10
0.55 ... 0.8	3RV1011-0HA10	5.5 ... 8	3RV1011-1HA10
0.7...1	3RV1011-0JA10	7 ... 10	3RV1011-1JA10
0.9 ... 1.25	3RV1011-0KA10	9 ... 12	3RV1011-1KA10



Standard packing for all above products is 1 no.

* Use with accessories for 3RV2.



1C01_00633

Accessories complimenting the application

Mountable accessories

- ① Transverse auxiliary switch
- ② Lateral auxiliary switch with 2 contacts
- ③ Lateral auxiliary switch with 4 contacts
- ④ Shunt release (can not be used with 3RV21 motor starter protectors)
- ⑤ Undervoltage release without/with leading contacts (can not be used with 3RV21 motor starter protectors)
- ⑥ Signaling switch (can not be used with 3RV27 and 3RV28 circuit breakers)
- ⑦ Isolator module (can not be used with 3RV2.4, 3RV27 and 3RV28 circuit breakers)
- ⑧ Terminal block type E or phase barriers

www.siemens.co.in

SIEMENS

Accessories for 3RV2

Mountable accessories

Type of accessory	Version	MPCB size	Type*	Std. pkg. (nos.)
Transverse auxiliary switches With screw terminals, mountable on front	1 CO	S00 ... S3	3RV2901-1D [#]	1
	1 NO + 1 NC	S00 ... S3	3RV2901-1E	1
	2NO	S00 ... S3	3RV2901-1F	1
Transverse auxiliary switches for operation in dusty atmospheres and in solid-state circuits with low operating currents	1 CO	S00 ... S3	3RV2901-1G [#]	1
Covers for transverse auxiliary switches		S00 ... S3	3RV2901-0H [#]	10
Lateral auxiliary switches with screw terminals mountable on the left	1 NO + 1 NC	S00 ... S3	3RV2901-1A	1
	2 NO		3RV2901-1B	1
	2 NC		3RV2901-1C	1
	2 NO + 2 NC		3RV2901-1J [#]	1
Signaling switches (Alarm contacts) Mountable on the left side	Separate tripped and short-circuit alarms, 1 NO + 1 NC each	S00 ... S3	3RV2921-1M	1
Isolator modules (for isolating individual MPCB)	Lockable in disconnected position	S00, S0	3RV2928-1A [#]	1
		S2 (Up to 65A only)	3RV2938-1A [#]	1
Fuse Monitoring MPCB		S00	3RV16110BD10	1

Spring type terminals are not available for this accessory

* For ordering with spring type terminals, please replace 8th digit from '1' to '2'

Type of accessory [@]	Version	MPCB size	Type*	Std. pkg. (nos.)
Undervoltage trip units, Screw terminals	24 V DC	S00 ... S3	3RV2902-1AB4 [#]	1
	110 V AC 50Hz / 120 V AC 60Hz		3RV2902-1AF0 [#]	1
	230 V AC 50Hz / 240 V AC 60Hz		3RV2902-1AP0	1
	400 V AC 50Hz / 440 V AC 60Hz		3RV2902-1AV0	1
Shunt trip units, Screw terminals	20...24V 50/60 Hz (100% ON period)		3RV2902-1DB0	1
	20...70V 50/60Hz, DC (5s ON period)		3RV2902-1DF0	1
	90...110V 50/60 Hz (100% ON period)			
	70...190V 50/60Hz, DC (5s ON period)		3RV2902-1DP0	1
	210...240V 50/60 Hz (100% ON period)			
	190...330V 50/60Hz, DC (5s ON period)			
	350...415V 50/60 Hz (100% ON period)	3RV2902-1DV0 [#]	1	
	330...500V 50/60Hz, DC (5s ON period)			

Spring type terminals are not available for this accessory

* For ordering with spring type terminals, please replace 8th digit from '1' to '2'

@ One auxiliary release can be mounted on the right side. (does not apply to 3RV11 motor starter protectors with overload relay function)

Accessories for 3RV2 / 3RV1

Fixing accessories

Type of accessory	Version	For MPCB size	Type*	Std. pkg. (nos.)
Push-in lugs	For screwing the motor starter protector onto mounting plates. For each motor starter protector, 2 units are required.	For 3RV1: S00,S0	3RB1900-0B	(1pack = 10 pcs)
Push-in lugs		For 3RV2: S00,S0	3RV2928-0B	(1pack = 10 pcs)

Enclosure With EMERGENCY STOP rotary operating mechanism, Lockable in 0 position

Degree of protection	Integrated terminals	Installation width (for switch + lateral auxiliary switch)	For MPCB size	Type*	Std. pkg. (nos.)
IP55	N and PE	54 mm	S00, S0	3RV1923-1FA00	1
		82 mm	S2	3RV1933-1GA00	1

Accessories for 3RV2 / 3RV1

Door-coupling rotary operating mechanism

Description	Size	Type	Std. pkg. (nos.)
Door operating mechanism with door interlock, defeat facility, padlocking facility. Extension shaft 300mm (fixed coupler) Breaker operating kit & front drive for size	S00, S0	3RV19261B-Z®	1
	S2	3RV19361B-Z®	1
	S3\$	3RV19461B-Z®	1
Front drive – fixed coupler (available as spare)	S00, S0, S2, S3	8UC626#	1

@ One set available with breaker operator kit and 8UC front drive together

MRP

\$ To use door-operating mechanism, on 3RV2 - Size S3, the knob attachment on breaker must be disassembled.

Busbar accessories

Type of accessory	Version	Conductor cross-section			For MPCB size	Type	Std. pkg. (nos.)
		Solid or stranded	Finely stranded with end sleeve	AWG cable, solid or stranded			
		mm ²	mm ²	AWG			
3-phase Infeed terminals	Connection from top	2.5...25	2.5...16	10 ... 4	3RV2 S00, S0	3RV2925-5AB	1
		2 x (2.5 ... 50) ²⁾	2 x (2.5 ... 35) ²⁾	2 x (10.. 1/0) ²⁾	3RV2 S2	3RV2935-5A	1
		1 x (2.5 ... 70) ²⁾	1 x (2.5 ... 50) ²⁾	1 x (10 ... 2/0) ²⁾			
	Connection from bottom*	2.5...25	2.5...16	10 ... 4	3RV2 S00, S0	3RV2915-5B	1



* This terminal is connected in place of a switch, please take the space requirement into account.

2) If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.



Accessories for 3RV2 / 3RV1

Busbar accessories

Type of accessory ¹⁾	Modular spacing mm	Number of MPCBs that can be connected			Current rating at 690V A	For MPCB size *	Type	Std. pkg. (nos.)
		Without lateral accessories	With lateral auxiliary switch	Incl. auxiliary release				
3-phase busbar system	45 ³⁾	2	-	-	63	S00, S0	3RV1915-1AB	1
		3	-	-			3RV1915-1BB	1
		4	-	-			3RV1915-1CB	1
		5	-	-			3RV1915-1DB	1
		-	2	-			3RV1915-2AB	1
	55 ⁴⁾	-	3	-	S00, S0	3RV1915-2BB	1	
		-	4	-	S00, S0	3RV1915-2CB	1	
		-	5	-	S00, S0	3RV1915-2DB	1	
		2	-	-	108	S2	3RV1935-1A	1
		3	-	-			3RV1935-1B	1
	4	-	-	3RV1935-1C			1	
	63 ⁵⁾	-	-	2	63	S00, S0	3RV1915-3AB	1
		-	-	4			3RV1915-3CB	1
	75 ⁵⁾	-	2	2	108	S2	3RV1935-3A	1
		-	3	3			3RV1935-3B	1
-		4	4	3RV1935-3C			1	
Covers for connection tags (Touch protection for empty positions)					S00, S0	3RV1915-6AB	10	
					S2	3RV1935-6A	5	



- 1) Not suitable for 3RV21 MPCBs with overload relay function
 - 3) Auxiliary releases and lateral auxiliary switches cannot be used in combination.
 - 4) For 3RV2 MPCB with auxiliary switches 2 NO and 2 NC mounted on the left (9 mm wide).
 - 5) For 3RV2 MPCB with mounted accessories (18 mm wide). Auxiliary switches with 2 NO + 2 NC or signaling switch (mounted on the left) or with auxiliary release (mounted on the right).
- * Approved for motor starter protectors size S0 , up to 32 A.

Mounting accessories

Type of accessory	Version	For MPCB size	Type*	Std. pkg. (nos.)
Scale covers, for covering the set current scale		3RV20, 3RV21,3RV24: S00 ... S2	3RV2908-0P	10
Covers for devices with box terminals	2 units required per device (Main current level)	3RV2 S2	3RT2936-4EA2	1

