

Protection Equipment

Motor Starter Protectors/Circuit Breakers

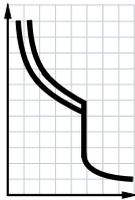
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For motor protection **IE3/IE4 ready**

Selection and ordering data

CLASS 10, without auxiliary switches

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2011-0AA10



3RV2011-0EA20

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	SD	Spring-loaded terminals 	
I_n				I_{cu}		Article No.	Price per PU	Article No.	Price per PU
A	kW	A	A	kA	d				
Size S00									
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV2011-0AA10	▶	3RV2011-0AA20	
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV2011-0BA10	▶	3RV2011-0BA20	
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV2011-0CA10	▶	3RV2011-0CA20	
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV2011-0DA10	▶	3RV2011-0DA20	
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV2011-0EA10	▶	3RV2011-0EA20	
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV2011-0FA10	▶	3RV2011-0FA20	
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV2011-0GA10	▶	3RV2011-0GA20	
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV2011-0HA10	▶	3RV2011-0HA20	
1	0.25	0.7 ... 1	13	100	▶	3RV2011-0JA10	▶	3RV2011-0JA20	
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV2011-0KA10	▶	3RV2011-0KA20	
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV2011-1AA10	▶	3RV2011-1AA20	
2	0.75	1.4 ... 2	26	100	▶	3RV2011-1BA10	▶	3RV2011-1BA20	
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV2011-1CA10	▶	3RV2011-1CA20	
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV2011-1DA10	▶	3RV2011-1DA20	
4	1.5	2.8 ... 4	52	100	▶	3RV2011-1EA10	▶	3RV2011-1EA20	
5	1.5	3.5 ... 5	65	100	▶	3RV2011-1FA10	▶	3RV2011-1FA20	
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV2011-1GA10	▶	3RV2011-1GA20	
8	3	5.5 ... 8	104	100	▶	3RV2011-1HA10	▶	3RV2011-1HA20	
10	4	7 ... 10	130	100	▶	3RV2011-1JA10	▶	3RV2011-1JA20	
12.5	5.5	9 ... 12.5	163	100	▶	3RV2011-1KA10	▶	3RV2011-1KA20	
16	7.5	10 ²⁾ ... 16	208	55	▶	3RV2011-4AA10	▶	3RV2011-4AA20	

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ The setting range of the thermal overload releases has been extended.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

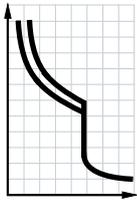
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

IE3/IE4 ready

For motor protection

CLASS 10, without auxiliary switches

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2021-4AA10



3RV2021-4AA20

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	SD	Spring-loaded terminals	
I_n				I_{cu}		Article No.	Price per PU	Article No.	Price per PU
A	kW	A	A	kA	d		d		
Size S0									
0.16	0.04	0.11 ... 0.16	2.1	100	6	3RV2021-0AA10		--	
0.2	0.06	0.14 ... 0.2	2.6	100	6	3RV2021-0BA10		--	
0.25	0.06	0.18 ... 0.25	3.3	100	6	3RV2021-0CA10		--	
0.32	0.09	0.22 ... 0.32	4.2	100	6	3RV2021-0DA10		--	
0.4	0.09	0.28 ... 0.4	5.2	100	6	3RV2021-0EA10		--	
0.5	0.12	0.35 ... 0.5	6.5	100	6	3RV2021-0FA10		--	
0.63	0.18	0.45 ... 0.63	8.2	100	2	3RV2021-0GA10	2	3RV2021-0GA20	
0.8	0.18	0.55 ... 0.8	10	100	2	3RV2021-0HA10	2	3RV2021-0HA20	
1	0.25	0.7 ... 1	13	100	2	3RV2021-0JA10	2	3RV2021-0JA20	
1.25	0.37	0.9 ... 1.25	16	100	2	3RV2021-0KA10	2	3RV2021-0KA20	
1.6	0.55	1.1 ... 1.6	21	100	2	3RV2021-1AA10	2	3RV2021-1AA20	
2	0.75	1.4 ... 2	26	100	2	3RV2021-1BA10	2	3RV2021-1BA20	
2.5	0.75	1.8 ... 2.5	33	100	2	3RV2021-1CA10	2	3RV2021-1CA20	
3.2	1.1	2.2 ... 3.2	42	100	2	3RV2021-1DA10	2	3RV2021-1DA20	
4	1.5	2.8 ... 4	52	100	2	3RV2021-1EA10	2	3RV2021-1EA20	
5	1.5	3.5 ... 5	65	100	2	3RV2021-1FA10	2	3RV2021-1FA20	
6.3	2.2	4.5 ... 6.3	82	100	2	3RV2021-1GA10	2	3RV2021-1GA20	
8	3	5.5 ... 8	104	100	2	3RV2021-1HA10	2	3RV2021-1HA20	
10	4	7 ... 10	130	100	2	3RV2021-1JA10	2	3RV2021-1JA20	
12.5	5.5	9 ... 12.5	163	100	2	3RV2021-1KA10	2	3RV2021-1KA20	
16	7.5	10 ²⁾ ... 16	208	55	▶	3RV2021-4AA10	▶	3RV2021-4AA20	
20	7.5	13 ²⁾ ... 20	260	55	▶	3RV2021-4BA10	▶	3RV2021-4BA20	
22	11	16 ²⁾ ... 22	286	55	▶	3RV2021-4CA10	▶	3RV2021-4CA20	
25	11	18 ²⁾ ... 25	325	55	▶	3RV2021-4DA10	▶	3RV2021-4DA20	
28	15	23 ... 28	364	55	▶	3RV2021-4NA10	▶	3RV2021-4NA20	
32 ³⁾	15	27 ... 32	400	55	▶	3RV2021-4EA10	▶	3RV2021-4EA20	
36 ⁴⁾	18.5	30 ... 36	432	20	▶	3RV2021-4PA10		--	
40 ⁴⁾	18.5	34 ... 40	480	20	▶	3RV2021-4FA10		--	

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ The setting range of the thermal overload releases has been extended.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S2.

⁴⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3/IE4 motors we recommend using 3RV2 motor starter protectors size S2.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

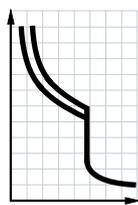
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For motor protection **IE3/IE4 ready**

CLASS 10, without auxiliary switches



3RV2031-4SA10



3RV2032-4RA10



3RV2042-4MA10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S2									
14	5.5	9.5 ... 14	208	65	▶	3RV2031-4SA10		1	1 unit 41E
17	7.5	12 ... 17	260	65	▶	3RV2031-4TA10		1	1 unit 41E
20	7.5	14 ... 20	260	65	▶	3RV2031-4BA10		1	1 unit 41E
25	11	18 ... 25	325	65	▶	3RV2031-4DA10		1	1 unit 41E
32	15	22 ... 32	416	65	▶	3RV2031-4EA10		1	1 unit 41E
36	18.5	28 ... 36	520	65	▶	3RV2031-4PA10		1	1 unit 41E
40	18.5	32 ... 40	585	65	▶	3RV2031-4UA10		1	1 unit 41E
45	22	35 ... 45	650	65	▶	3RV2031-4VA10		1	1 unit 41E
52	22	42 ... 52	741	65	▶	3RV2031-4WA10		1	1 unit 41E
59	30	49 ... 59	845	65	▶	3RV2031-4XA10		1	1 unit 41E
65	30	54 ... 65	845	65	▶	3RV2031-4JA10		1	1 unit 41E
73	37	62 ... 73	949	65	▶	3RV2031-4KA10		1	1 unit 41E
80 ²⁾	37	70 ... 80	1 040	65	▶	3RV2031-4RA10		1	1 unit 41E
Size S2, with increased switching capacity									
14	5.5	9.5 ... 14	208	100	▶	3RV2032-4SA10		1	1 unit 41E
17	7.5	12 ... 17	260	100	▶	3RV2032-4TA10		1	1 unit 41E
20	7.5	14 ... 20	260	100	▶	3RV2032-4BA10		1	1 unit 41E
25	11	18 ... 25	325	100	▶	3RV2032-4DA10		1	1 unit 41E
32	15	22 ... 32	416	100	▶	3RV2032-4EA10		1	1 unit 41E
36	18.5	28 ... 36	520	100	▶	3RV2032-4PA10		1	1 unit 41E
40	18.5	32 ... 40	585	100	▶	3RV2032-4UA10		1	1 unit 41E
45	22	35 ... 45	650	100	▶	3RV2032-4VA10		1	1 unit 41E
52	22	42 ... 52	741	100	▶	3RV2032-4WA10		1	1 unit 41E
59	30	49 ... 59	845	100	▶	3RV2032-4XA10		1	1 unit 41E
65	30	54 ... 65	845	100	▶	3RV2032-4JA10		1	1 unit 41E
73	37	62 ... 73	949	100	▶	3RV2032-4KA10		1	1 unit 41E
80 ²⁾	37	70 ... 80	1 040	100	▶	3RV2032-4RA10		1	1 unit 41E
Size S3									
40	18.5	28 ... 40	520	65	▶	3RV2041-4FA10		1	1 unit 41E
50	22	36 ... 50	650	65	▶	3RV2041-4HA10		1	1 unit 41E
63	30	45 ... 63	819	65	▶	3RV2041-4JA10		1	1 unit 41E
75	37	57 ... 75	975	65	▶	3RV2041-4KA10		1	1 unit 41E
84	45	65 ... 84	1 170	65	▶	3RV2041-4RA10		1	1 unit 41E
93	45	75 ... 93	1 300	65	▶	3RV2041-4YA10		1	1 unit 41E
100 ³⁾	45, 55	80 ... 100	1 300	65	▶	3RV2041-4MA10		1	1 unit 41E
Size S3, with increased switching capacity									
40	18.5	28 ... 40	520	100	▶	3RV2042-4FA10		1	1 unit 41E
50	22	36 ... 50	650	100	▶	3RV2042-4HA10		1	1 unit 41E
63	30	45 ... 63	819	100	▶	3RV2042-4JA10		1	1 unit 41E
75	37	57 ... 75	975	100	▶	3RV2042-4KA10		1	1 unit 41E
84	45	65 ... 84	1 170	100	▶	3RV2042-4RA10		1	1 unit 41E
93	45	75 ... 93	1 300	100	▶	3RV2042-4YA10		1	1 unit 41E
100 ³⁾	45, 55	80 ... 100	1 300	100	▶	3RV2042-4MA10		1	1 unit 41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ Suitable for use with IE3/IE4 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S3.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

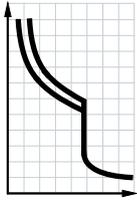
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

IE3/IE4 ready

For motor protection

CLASS 10, with transverse auxiliary switch (1 NO + 1 NC)

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2011-4AA15
with integrated transverse
auxiliary switch



3RV2011-0EA25
with integrated transverse
auxiliary switch



3RV2021-4AA15
with integrated transverse
auxiliary switch



3RV2021-4AA25
with integrated transverse
auxiliary switch

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	SD	Spring-loaded terminals	
I_n			$I >$	I_{cu}	d	Article No.	Price per PU	Article No.	Price per PU
A	kW	A	A	kA	d				
Size S00									
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV2011-0AA15	▶	3RV2011-0AA25	▶
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV2011-0BA15	▶	3RV2011-0BA25	▶
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV2011-0CA15	▶	3RV2011-0CA25	▶
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV2011-0DA15	▶	3RV2011-0DA25	▶
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV2011-0EA15	▶	3RV2011-0EA25	▶
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV2011-0FA15	▶	3RV2011-0FA25	▶
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV2011-0GA15	▶	3RV2011-0GA25	▶
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV2011-0HA15	▶	3RV2011-0HA25	▶
1	0.25	0.7 ... 1	13	100	▶	3RV2011-0JA15	▶	3RV2011-0JA25	▶
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV2011-0KA15	▶	3RV2011-0KA25	▶
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV2011-1AA15	▶	3RV2011-1AA25	▶
2	0.75	1.4 ... 2	26	100	▶	3RV2011-1BA15	▶	3RV2011-1BA25	▶
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV2011-1CA15	▶	3RV2011-1CA25	▶
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV2011-1DA15	▶	3RV2011-1DA25	▶
4	1.5	2.8 ... 4	52	100	▶	3RV2011-1EA15	▶	3RV2011-1EA25	▶
5	1.5	3.5 ... 5	65	100	▶	3RV2011-1FA15	▶	3RV2011-1FA25	▶
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV2011-1GA15	▶	3RV2011-1GA25	▶
8	3	5.5 ... 8	104	100	▶	3RV2011-1HA15	▶	3RV2011-1HA25	▶
10	4	7 ... 10	130	100	▶	3RV2011-1JA15	▶	3RV2011-1JA25	▶
12.5	5.5	9 ... 12.5	163	100	▶	3RV2011-1KA15	▶	3RV2011-1KA25	▶
16	7.5	10 ²⁾ ... 16	208	55	▶	3RV2011-4AA15	▶	3RV2011-4AA25	▶
Size S0									
16	7.5	10 ²⁾ ... 16	208	55	▶	3RV2021-4AA15	▶	3RV2021-4AA25	▶
20	7.5	13 ²⁾ ... 20	260	55	▶	3RV2021-4BA15	▶	3RV2021-4BA25	▶
22	11	16 ²⁾ ... 22	286	55	▶	3RV2021-4CA15	▶	3RV2021-4CA25	▶
25	11	18 ²⁾ ... 25	325	55	▶	3RV2021-4DA15	▶	3RV2021-4DA25	▶
28	15	23 ... 28	364	55	▶	3RV2021-4NA15	▶	3RV2021-4NA25	▶
32 ³⁾	15	27 ... 32	400	55	▶	3RV2021-4EA15	▶	3RV2021-4EA25	▶
36 ⁴⁾	18.5	30 ... 36	432	20	▶	3RV2021-4PA15	▶	---	▶
40 ⁴⁾	18.5	34 ... 40	480	20	▶	3RV2021-4FA15	▶	---	▶

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ The setting range of the thermal overload releases has been extended.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S2.

⁴⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3/IE4 motors we recommend using 3RV2 motor starter protectors size S2.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

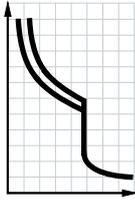
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For motor protection **IE3/IE4 ready**

CLASS 10, with integrated auxiliary switch (1 NO + 1 NC)



3RV2031-4SA15
With integrated
auxiliary switch



3RV2032-4SA15
With integrated
auxiliary switch



3RV2041-4FA15
With integrated
auxiliary switch

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}	d	Article No.	Price per PU		
A	kW	A	A	kA					
Size S2									
14	5.5	9.5 ... 14	208	65	5	3RV2031-4SA15		1	1 unit 41E
17	7.5	12 ... 17	260	65	5	3RV2031-4TA15		1	1 unit 41E
20	7.5	14 ... 20	260	65	5	3RV2031-4BA15		1	1 unit 41E
25	11	18 ... 25	325	65	5	3RV2031-4DA15		1	1 unit 41E
32	15	22 ... 32	416	65	▶	3RV2031-4EA15		1	1 unit 41E
36	18.5	28 ... 36	520	65	▶▶	3RV2031-4PA15		1	1 unit 41E
40	18.5	32 ... 40	585	65	▶▶▶	3RV2031-4UA15		1	1 unit 41E
45	22	35 ... 45	650	65	▶▶▶▶	3RV2031-4VA15		1	1 unit 41E
52	22	42 ... 52	741	65	▶▶▶▶▶	3RV2031-4WA15		1	1 unit 41E
59	30	49 ... 59	845	65	▶▶▶▶▶▶	3RV2031-4XA15		1	1 unit 41E
65	30	54 ... 65	845	65	▶▶▶▶▶▶▶	3RV2031-4JA15		1	1 unit 41E
73	37	62 ... 73	949	65	▶▶▶▶▶▶▶▶	3RV2031-4KA15		1	1 unit 41E
80 ²⁾	37	70 ... 80	1 040	65	▶▶▶▶▶▶▶▶▶	3RV2031-4RA15		1	1 unit 41E
Size S2, with increased switching capacity									
14	5.5	9.5 ... 14	208	10	5	3RV2032-4SA15		1	1 unit 41E
17	7.5	12 ... 17	260	100	5	3RV2032-4TA15		1	1 unit 41E
20	7.5	14 ... 20	260	100	5	3RV2032-4BA15		1	1 unit 41E
25	11	18 ... 25	325	100	5	3RV2032-4DA15		1	1 unit 41E
32	15	22 ... 32	416	100	5	3RV2032-4EA15		1	1 unit 41E
36	18.5	28 ... 36	520	100	5	3RV2032-4PA15		1	1 unit 41E
40	18.5	32 ... 40	585	100	5	3RV2032-4UA15		1	1 unit 41E
45	22	35 ... 45	650	100	5	3RV2032-4VA15		1	1 unit 41E
52	22	42 ... 52	741	100	5	3RV2032-4WA15		1	1 unit 41E
59	30	49 ... 59	845	100	5	3RV2032-4XA15		1	1 unit 41E
65	30	54 ... 65	845	100	5	3RV2032-4JA15		1	1 unit 41E
73	37	62 ... 73	949	100	5	3RV2032-4KA15		1	1 unit 41E
80 ²⁾	37	70 ... 80	1 040	100	5	3RV2032-4RA15		1	1 unit 41E
Size S3									
40	18.5	28 ... 40	520	65	5	3RV2041-4FA15		1	1 unit 41E
50	22	36 ... 50	650	65	5	3RV2041-4HA15		1	1 unit 41E
63	30	45 ... 63	819	65	2	3RV2041-4JA15		1	1 unit 41E
75	37	57 ... 75	975	65	5	3RV2041-4KA15		1	1 unit 41E
84	45	65 ... 84	1 170	65	X	3RV2041-4RA15		1	1 unit 41E
93	45	75 ... 93	1 300	65	2	3RV2041-4YA15		1	1 unit 41E
100 ³⁾	45, 55	80 ... 100	1 300	65	5	3RV2041-4MA15		1	1 unit 41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ Suitable for use with IE3/IE4 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S3.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

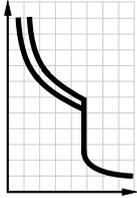
Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

IE3/IE4 ready For motor protection

CLASS 20, without auxiliary switches


3RV2031-4SB10



3RV2031-4WB10



3RV2042-4FB10



3RV2042-4KB10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S2									
14	5.5	9.5 ... 14	208	65	2	3RV2031-4SB10	1	1 unit	41E
17	7.5	12 ... 17	260	65	2	3RV2031-4TB10	1	1 unit	41E
20	7.5	14 ... 20	260	65	▶	3RV2031-4BB10	1	1 unit	41E
25	11	18 ... 25	325	65	▶	3RV2031-4DB10	1	1 unit	41E
32	15	22 ... 32	416	65	▶	3RV2031-4EB10	1	1 unit	41E
36	18.5	28 ... 36	520	65	▶	3RV2031-4PB10	1	1 unit	41E
40	18.5	32 ... 40	585	65	▶	3RV2031-4UB10	1	1 unit	41E
45	22	35 ... 45	650	65	▶	3RV2031-4VB10	1	1 unit	41E
52	22	42 ... 52	741	65	▶	3RV2031-4WB10	1	1 unit	41E
59	30	49 ... 59	845	65	▶	3RV2031-4XB10	1	1 unit	41E
65	30	54 ... 65	845	65	▶	3RV2031-4JB10	1	1 unit	41E
Size S3, with increased switching capacity									
40	18.5	28 ... 40	520	100	2	3RV2042-4FB10	1	1 unit	41E
50	22	36 ... 50	650	100	2	3RV2042-4HB10	1	1 unit	41E
63	30	45 ... 63	819	100	2	3RV2042-4JB10	1	1 unit	41E
75	37	57 ... 75	975	100	2	3RV2042-4KB10	1	1 unit	41E
84	45	65 ... 84	1 170	100	2	3RV2042-4RB10	1	1 unit	41E
93	45	75 ... 93	1 300	100	2	3RV2042-4YB10	1	1 unit	41E
100 ²⁾	45, 55	80 ... 100	1 300	100	2	3RV2042-4MB10	1	1 unit	41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ Suitable for use with IE3/IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

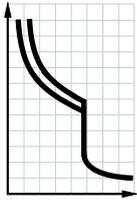
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For motor protection **IE3/IE4 ready**

CLASS 20, with integrated auxiliary switch (1 NO + 1 NC)



3RV2031-4SB15



3RV2031-4WB15

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S2									
14	5.5	9.5 ... 14	208	65	5	3RV2031-4SB15	1	1 unit	41E
17	7.5	12 ... 17	260	65	5	3RV2031-4TB15	1	1 unit	41E
20	7.5	14 ... 20	260	65	5	3RV2031-4BB15	1	1 unit	41E
25	11	18 ... 25	325	65	5	3RV2031-4DB15	1	1 unit	41E
32	15	22 ... 32	416	65	5	3RV2031-4EB15	1	1 unit	41E
36	18.5	28 ... 36	520	65	5	3RV2031-4PB15	1	1 unit	41E
40	18.5	32 ... 40	585	65	5	3RV2031-4UB15	1	1 unit	41E
45	22	35 ... 45	650	65	5	3RV2031-4VB15	1	1 unit	41E
52	22	42 ... 52	741	65	5	3RV2031-4WB15	1	1 unit	41E
59	30	49 ... 59	845	65	5	3RV2031-4XB15	1	1 unit	41E
65	30	54 ... 65	845	65	▶	3RV2031-4JB15	1	1 unit	41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

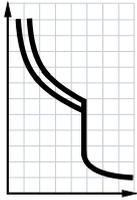
Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

IE3/IE4 ready For motor protection with overload relay function

Selection and ordering data
CLASS 10, with overload relay function (Automatic RESET), without auxiliary switches


3RV2111-4FA10



3RV2111-0BA10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S00²⁾									
0.16	0.04	0.11 ... 0.16	2.1	100	2	3RV2111-0AA10	1	1 unit	41E
0.2	0.06	0.14 ... 0.2	2.6	100	2	3RV2111-0BA10	1	1 unit	41E
0.25	0.06	0.18 ... 0.25	3.3	100	2	3RV2111-0CA10	1	1 unit	41E
0.32	0.09	0.22 ... 0.32	4.2	100	2	3RV2111-0DA10	1	1 unit	41E
0.4	0.09	0.28 ... 0.4	5.2	100	2	3RV2111-0EA10	1	1 unit	41E
0.5	0.12	0.35 ... 0.5	6.5	100	2	3RV2111-0FA10	1	1 unit	41E
0.63	0.18	0.45 ... 0.63	8.2	100	2	3RV2111-0GA10	1	1 unit	41E
0.8	0.18	0.55 ... 0.8	10	100	2	3RV2111-0HA10	1	1 unit	41E
1	0.25	0.7 ... 1	13	100	2	3RV2111-0JA10	1	1 unit	41E
1.25	0.37	0.9 ... 1.25	16	100	2	3RV2111-0KA10	1	1 unit	41E
1.6	0.55	1.1 ... 1.6	21	100	2	3RV2111-1AA10	1	1 unit	41E
2	0.75	1.4 ... 2	26	100	2	3RV2111-1BA10	1	1 unit	41E
2.5	0.75	1.8 ... 2.5	33	100	2	3RV2111-1CA10	1	1 unit	41E
3.2	1.1	2.2 ... 3.2	42	100	2	3RV2111-1DA10	1	1 unit	41E
4	1.5	2.8 ... 4	52	100	2	3RV2111-1EA10	1	1 unit	41E
5	1.5	3.5 ... 5	65	100	2	3RV2111-1FA10	1	1 unit	41E
6.3	2.2	4.5 ... 6.3	82	100	2	3RV2111-1GA10	1	1 unit	41E
8	3	5.5 ... 8	104	100	2	3RV2111-1HA10	1	1 unit	41E
10	4	7 ... 10	130	100	2	3RV2111-1JA10	1	1 unit	41E
12.5	5.5	9 ... 12.5	163	100	2	3RV2111-1KA10	1	1 unit	41E
16	7.5	10 ³⁾ ... 16	208	55	2	3RV2111-4AA10	1	1 unit	41E
Size S0²⁾									
16	7.5	10 ³⁾ ... 16	208	55	2	3RV2121-4AA10	1	1 unit	41E
20	7.5	13 ³⁾ ... 20	260	55	2	3RV2121-4BA10	1	1 unit	41E
22	11	16 ³⁾ ... 22	286	55	2	3RV2121-4CA10	1	1 unit	41E
25	11	18 ³⁾ ... 25	325	55	2	3RV2121-4DA10	1	1 unit	41E
28	15	23 ... 28	364	55	2	3RV2121-4NA10	1	1 unit	41E
32 ⁴⁾	15	27 ... 32	400	55	2	3RV2121-4EA10	1	1 unit	41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ Accessories for mounting on the right and 3RV2915 three-phase busbars cannot be used.

³⁾ The setting range of the thermal overload releases has been extended.

⁴⁾ Suitable for use with IE3/IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S2.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

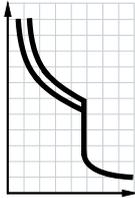
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For motor protection with overload relay function

CLASS 10, with overload relay function (Automatic RESET), without auxiliary switches



3RV2131-4WB10



3RV2142-4FA10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S2²⁾									
14	5.5	9.5 ... 14	208	65	2	3RV2131-4SA10	1	1 unit	41E
17	7.5	12 ... 17	260	65	2	3RV2131-4TA10	1	1 unit	41E
20	7.5	14 ... 20	260	65	2	3RV2131-4BA10	1	1 unit	41E
25	11	18 ... 25	325	65	2	3RV2131-4DA10	1	1 unit	41E
32	15	22 ... 32	416	65	2	3RV2131-4EA10	1	1 unit	41E
36	18.5	28 ... 36	520	65	2	3RV2131-4PA10	1	1 unit	41E
40	18.5	32 ... 40	585	65	2	3RV2131-4UA10	1	1 unit	41E
45	22	35 ... 45	650	65	2	3RV2131-4VA10	1	1 unit	41E
52	32	42 ... 52	741	65	2	3RV2131-4WA10	1	1 unit	41E
59	30	49 ... 59	845	65	2	3RV2131-4XA10	1	1 unit	41E
65	30	54 ... 65	845	65	2	3RV2131-4JA10	1	1 unit	41E
73	37	62 ... 73	949	65	2	3RV2131-4KA10	1	1 unit	41E
80 ³⁾	37	70 ... 80	1 040	65	2	3RV2131-4RA10	1	1 unit	41E
Size S3, with increased switching capacity²⁾									
40	18.5	28 ... 40	520	100	2	3RV2142-4FA10	1	1 unit	41E
50	22	36 ... 50	650	100	2	3RV2142-4HA10	1	1 unit	41E
63	30	45 ... 63	819	100	2	3RV2142-4JA10	1	1 unit	41E
75	37	57 ... 75	975	100	2	3RV2142-4KA10	1	1 unit	41E
84	45	65 ... 84	1 170	100	2	3RV2142-4RA10	1	1 unit	41E
93	45	75 ... 93	1 300	100	2	3RV2142-4YA10	1	1 unit	41E
100 ⁴⁾	45, 55	80 ... 100	1 300	100	2	3RV2142-4MA10	1	1 unit	41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ Accessories for mounting on the right and 3RV2915 three-phase busbars cannot be used.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S3.

⁴⁾ Suitable for use with IE3/IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

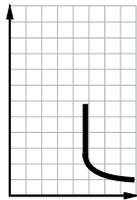
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

IE3/IE4 ready For starter combinations

Selection and ordering data

Without auxiliary switches

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2311-4AC10



3RV2311-0JC20



3RV2321-4AC10



3RV2321-4AC20

Rated current I_n A	Suitable for three-phase motors ¹⁾ with P kW	Thermal overload release ²⁾ A	Instantaneous electronic release $I >$ A	Short-circuit breaking capacity at 400 V AC I_{cu} kA	SD d	Screw terminals		Spring-loaded terminals	
						Article No.	Price per PU	Article No.	Price per PU
Size S00									
0.16	0.04	Without	2.1	100	5	3RV2311-0AC10	5	3RV2311-0AC20	5
0.2	0.06	Without	2.6	100	5	3RV2311-0BC10	5	3RV2311-0BC20	5
0.25	0.06	Without	3.3	100	5	3RV2311-0CC10	5	3RV2311-0CC20	5
0.32	0.09	Without	4.2	100	5	3RV2311-0DC10	5	3RV2311-0DC20	5
0.4	0.09	Without	5.2	100	5	3RV2311-0EC10	5	3RV2311-0EC20	5
0.5	0.12	Without	6.5	100	5	3RV2311-0FC10	5	3RV2311-0FC20	5
0.63	0.18	Without	8.2	100	5	3RV2311-0GC10	5	3RV2311-0GC20	5
0.8	0.18	Without	10	100	5	3RV2311-0HC10	5	3RV2311-0HC20	5
1	0.25	Without	13	100	2	3RV2311-0JC10	5	3RV2311-0JC20	5
1.25	0.37	Without	16	100	2	3RV2311-0KC10	5	3RV2311-0KC20	5
1.6	0.55	Without	21	100	2	3RV2311-1AC10	5	3RV2311-1AC20	5
2	0.75	Without	26	100	2	3RV2311-1BC10	5	3RV2311-1BC20	5
2.5	0.75	Without	33	100	2	3RV2311-1CC10	5	3RV2311-1CC20	5
3.2	1.1	Without	42	100	2	3RV2311-1DC10	5	3RV2311-1DC20	5
4	1.5	Without	52	100	2	3RV2311-1EC10	5	3RV2311-1EC20	5
5	1.5	Without	65	100	2	3RV2311-1FC10	5	3RV2311-1FC20	5
6.3	2.2	Without	82	100	2	3RV2311-1GC10	5	3RV2311-1GC20	5
8	3	Without	104	100	2	3RV2311-1HC10	2	3RV2311-1HC20	2
10	4	Without	130	100	2	3RV2311-1JC10	2	3RV2311-1JC20	2
12.5	5.5	Without	163	100	2	3RV2311-1KC10	2	3RV2311-1KC20	2
16	7.5	Without	208	55	2	3RV2311-4AC10	2	3RV2311-4AC20	2
Size S0									
1.6	0.55	Without	21	100	5	3RV2321-1AC10	5	3RV2321-1AC20	5
2	0.75	Without	26	100	5	3RV2321-1BC10	5	3RV2321-1BC20	5
2.5	0.75	Without	33	100	5	3RV2321-1CC10	5	3RV2321-1CC20	5
3.2	1.1	Without	42	100	5	3RV2321-1DC10	5	3RV2321-1DC20	5
4	1.5	Without	52	100	5	3RV2321-1EC10	5	3RV2321-1EC20	5
5	1.5	Without	65	100	5	3RV2321-1FC10	5	3RV2321-1FC20	5
6.3	2.2	Without	82	100	2	3RV2321-1GC10	5	3RV2321-1GC20	5
8	3	Without	104	100	2	3RV2321-1HC10	5	3RV2321-1HC20	5
10	4	Without	130	100	2	3RV2321-1JC10	5	3RV2321-1JC20	5
12.5	5.5	Without	163	100	2	3RV2321-1KC10	5	3RV2321-1KC20	5
16	7.5	Without	208	55	2	3RV2321-4AC10	2	3RV2321-4AC20	2
20	7.5	Without	260	55	2	3RV2321-4BC10	2	3RV2321-4BC20	2
22	11	Without	286	55	2	3RV2321-4CC10	5	3RV2321-4CC20	5
25	11	Without	325	55	2	3RV2321-4DC10	2	3RV2321-4DC20	2
28	15	Without	364	55	5	3RV2321-4NC10	5	3RV2321-4NC20	5
32 ³⁾	15	Without	400	55	2	3RV2321-4EC10	2	3RV2321-4EC20	2
36 ⁴⁾	18.5	Without	432	20	2	3RV2321-4PC10	--	--	--
40 ⁴⁾	18.5	Without	480	20	2	3RV2321-4FC10	--	--	--

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ For overload protection of the motors, appropriate overload relays must be used.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S2.

⁴⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3/IE4 motors we recommend using 3RV2 motor starter protectors size S2.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

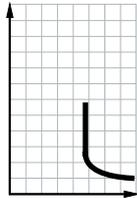
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For starter combinations **IE3/IE4 ready**

Without auxiliary switches



3RV2331-4SC10



3RV2331-4WC10



3RV2332-4SC10



3RV2332-4WC10



3RV2341-4FC10

Rated current	Suitable for three-phase motors ¹⁾ with P	Thermal overload release ²⁾	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}		Article No.	Price per PU		
A	kW	A	A	kA	d				
Size S2									
14	5.5	Without	208	65	2	3RV2331-4SC10		1	1 unit 41E
17	7.5	Without	260	65	2	3RV2331-4TC10		1	1 unit 41E
20	7.5	Without	260	65	2	3RV2331-4BC10		1	1 unit 41E
25	11	Without	325	65	2	3RV2331-4DC10		1	1 unit 41E
32	15	Without	416	65	▶	3RV2331-4EC10		1	1 unit 41E
36	18.5	Without	520	65	▶	3RV2331-4PC10		1	1 unit 41E
40	18.5	Without	585	65	▶	3RV2331-4UC10		1	1 unit 41E
45	22	Without	650	65	▶	3RV2331-4VC10		1	1 unit 41E
52	22	Without	741	65	▶	3RV2331-4WC10		1	1 unit 41E
59	30	Without	845	65	2	3RV2331-4XC10		1	1 unit 41E
65	30	Without	845	65	▶	3RV2331-4JC10		1	1 unit 41E
73	37	Without	949	65	2	3RV2331-4KC10		1	1 unit 41E
80 ³⁾	37	Without	1 040	65	2	3RV2331-4RC10		1	1 unit 41E
Size S2, with increased switching capacity									
14	5.5	Without	208	100	2	3RV2332-4SC10		1	1 unit 41E
17	7.5	Without	260	100	2	3RV2332-4TC10		1	1 unit 41E
20	7.5	Without	260	100	2	3RV2332-4BC10		1	1 unit 41E
25	11	Without	325	100	2	3RV2332-4DC10		1	1 unit 41E
32	15	Without	416	100	2	3RV2332-4EC10		1	1 unit 41E
36	18.5	Without	520	100	2	3RV2332-4PC10		1	1 unit 41E
40	18.5	Without	585	100	2	3RV2332-4UC10		1	1 unit 41E
45	22	Without	650	100	2	3RV2332-4VC10		1	1 unit 41E
52	22	Without	741	100	2	3RV2332-4WC10		1	1 unit 41E
59	30	Without	845	100	2	3RV2332-4XC10		1	1 unit 41E
65	30	Without	845	100	2	3RV2332-4JC10		1	1 unit 41E
73	37	Without	949	100	2	3RV2332-4KC10		1	1 unit 41E
80 ³⁾	37	Without	1 040	100	2	3RV2332-4RC10		1	1 unit 41E
Size S3									
40	18.5	Without	520	65	2	3RV2341-4FC10		1	1 unit 41E
50	22	Without	650	65	2	3RV2341-4HC10		1	1 unit 41E
63	30	Without	819	65	2	3RV2341-4JC10		1	1 unit 41E
75	37	Without	975	65	2	3RV2341-4KC10		1	1 unit 41E
84	45	Without	1 170	65	2	3RV2341-4RC10		1	1 unit 41E
93	45	Without	1 300	65	2	3RV2341-4YC10		1	1 unit 41E
100 ⁴⁾	45, 55	Without	1 300	65	2	3RV2341-4MC10		1	1 unit 41E
Size S3, with increased switching capacity									
40	18.5	Without	520	100	2	3RV2342-4FC10		1	1 unit 41E
50	22	Without	650	100	2	3RV2342-4HC10		1	1 unit 41E
63	30	Without	819	100	2	3RV2342-4JC10		1	1 unit 41E
75	37	Without	975	100	2	3RV2342-4KC10		1	1 unit 41E
84	45	Without	1 170	100	2	3RV2342-4RC10		1	1 unit 41E
93	45	Without	1 300	100	2	3RV2342-4YC10		1	1 unit 41E
100 ⁴⁾	45, 55	Without	1 300	100	2	3RV2342-4MC10		1	1 unit 41E

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ For overload protection of the motors, appropriate overload relays must be used.

³⁾ Suitable for use with IE3/IE4 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S3.

⁴⁾ Suitable for use with IE3/IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

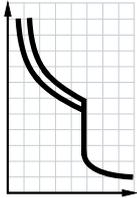
For transformer protection

Selection and ordering data

CLASS 10, without auxiliary switches

Motor starter protectors for the protection of transformers with high inrush current

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2411-0AA10



3RV2411-0AA20



3RV2421-4AA10



3RV2421-4AA20

Rated current	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	SD	Spring-loaded terminals
I_n		$I >$	I_{cu}	d	Article No.	Price per PU	Article No.
A	A	A	kA	d			Price per PU
Size S00							
0.16	0.11 ... 0.16	3.3	100	▶	3RV2411-0AA10	2	3RV2411-0AA20
0.2	0.14 ... 0.2	4.2	100	▶	3RV2411-0BA10	2	3RV2411-0BA20
0.25	0.18 ... 0.25	5.2	100	▶	3RV2411-0CA10	2	3RV2411-0CA20
0.32	0.22 ... 0.32	6.5	100	▶	3RV2411-0DA10	2	3RV2411-0DA20
0.4	0.28 ... 0.4	8.2	100	▶	3RV2411-0EA10	2	3RV2411-0EA20
0.5	0.35 ... 0.5	10	100	▶	3RV2411-0FA10	2	3RV2411-0FA20
0.63	0.45 ... 0.63	13	100	▶	3RV2411-0GA10	2	3RV2411-0GA20
0.8	0.55 ... 0.8	16	100	▶	3RV2411-0HA10	2	3RV2411-0HA20
1	0.7 ... 1	21	100	▶	3RV2411-0JA10	2	3RV2411-0JA20
1.25	0.9 ... 1.25	26	100	▶	3RV2411-0KA10	2	3RV2411-0KA20
1.6	1.1 ... 1.6	33	100	▶	3RV2411-1AA10	2	3RV2411-1AA20
2	1.4 ... 2	42	100	▶	3RV2411-1BA10	2	3RV2411-1BA20
2.5	1.8 ... 2.5	52	100	▶	3RV2411-1CA10	2	3RV2411-1CA20
3.2	2.2 ... 3.2	65	100	▶	3RV2411-1DA10	2	3RV2411-1DA20
4	2.8 ... 4	82	100	▶	3RV2411-1EA10	2	3RV2411-1EA20
5	3.5 ... 5	104	100	▶	3RV2411-1FA10	2	3RV2411-1FA20
6.3	4.5 ... 6.3	130	100	▶	3RV2411-1GA10	2	3RV2411-1GA20
8	5.5 ... 8	163	100	▶	3RV2411-1HA10	2	3RV2411-1HA20
10	7 ... 10	208	100	▶	3RV2411-1JA10	2	3RV2411-1JA20
12.5	9 ... 12.5	260	100	▶	3RV2411-1KA10	2	3RV2411-1KA20
16	10 ¹⁾ ... 16	286	55	▶	3RV2411-4AA10	2	3RV2411-4AA20
Size S0							
0.16	0.11 ... 0.16	3.3	100	6	3RV2421-0AA10		---
0.2	0.14 ... 0.2	4.2	100	6	3RV2421-0BA10		---
0.25	0.18 ... 0.25	5.2	100	6	3RV2421-0CA10		---
0.32	0.22 ... 0.32	6.5	100	6	3RV2421-0DA10		---
0.4	0.28 ... 0.4	8.2	100	6	3RV2421-0EA10		---
0.5	0.35 ... 0.5	10	100	6	3RV2421-0FA10		---
0.63	0.45 ... 0.63	13	100	6	3RV2421-0GA10		---
0.8	0.55 ... 0.8	16	100	6	3RV2421-0HA10		---
1	0.7 ... 1	21	100	6	3RV2421-0JA10		---
1.25	0.9 ... 1.25	26	100	6	3RV2421-0KA10		---
1.6	1.1 ... 1.6	33	100	6	3RV2421-1AA10		---
2	1.4 ... 2	42	100	6	3RV2421-1BA10		---
2.5	1.8 ... 2.5	52	100	6	3RV2421-1CA10		---
3.2	2.2 ... 3.2	65	100	6	3RV2421-1DA10		---
4	2.8 ... 4	82	100	6	3RV2421-1EA10		---
5	3.5 ... 5	104	100	6	3RV2421-1FA10		---
6.3	4.5 ... 6.3	130	100	6	3RV2421-1GA10		---
8	5.5 ... 8	163	100	6	3RV2421-1HA10		---
10	7 ... 10	208	100	6	3RV2421-1JA10		---
12.5	9 ... 12.5	260	100	6	3RV2421-1KA10		---
16	10 ¹⁾ ... 16	286	55	▶	3RV2421-4AA10	2	3RV2421-4AA20
20	13 ¹⁾ ... 20	325	55	▶	3RV2421-4BA10	▶	3RV2421-4BA20
22	16 ¹⁾ ... 22	364	55	▶	3RV2421-4CA10	▶	3RV2421-4CA20
25	18 ¹⁾ ... 25	400	55	▶	3RV2421-4DA10	2	3RV2421-4DA20

¹⁾ The setting range of the thermal overload releases has been extended.

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

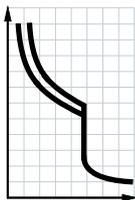
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For transformer protection

CLASS 10, without auxiliary switches

Motor starter protectors for the protection of transformers with high inrush current

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2431-4WA10

Rated current	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	SD	Spring-loaded terminals	
I_n			I_{cu}		Article No.	Price per PU	Article No.	Price per PU
A	A	A	kA	d		d		
Size S2								
14	9.5 ... 14	328	65	2	3RV2431-4SA10		---	
17	12 ... 17	410	65	2	3RV2431-4TA10		---	
20	14 ... 20	410	65	2	3RV2431-4BA10		---	
25	18 ... 25	512	65	2	3RV2431-4DA10		---	
32	22 ... 32	656	65	▶ 2	3RV2431-4EA10		---	
36	28 ... 36	820	65	2	3RV2431-4PA10		---	
40	32 ... 40	820	65	2	3RV2431-4UA10		---	
45	35 ... 45	922	65	2	3RV2431-4VA10		---	
52	42 ... 52	1 025	65	2	3RV2431-4WA10		---	
59	49 ... 59	1 040	65	2	3RV2431-4XA10		---	
65	54 ... 65	1 040	65	2	3RV2431-4JA10		---	

Auxiliary switches and other accessories can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

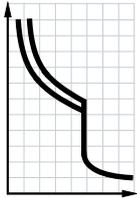
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For system protection according to UL 489/CSA C22.2 No. 5

Selection and ordering data

Without auxiliary switches

Circuit breakers for system protection and non-motor loads according to UL/CSA



3RV2711-0AD10



3RV2742-5FD10

Rated current ¹⁾	Thermal overload release (non-adjustable)	Instantaneous electronic release	Short-circuit breaking capacity at 480 Y/277 V AC ²⁾	480 V AC	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n ¹⁾			I_{bc}		d	Article No.	Price per PU		
A	A	A	kA						
Size S00									
0.16	0.16	2.1	65	--	5	3RV2711-0AD10	1	1 unit	41E
0.2	0.2	2.6	65	--	5	3RV2711-0BD10	1	1 unit	41E
0.25	0.25	3.3	65	--	5	3RV2711-0CD10	1	1 unit	41E
0.32	0.32	4.2	65	--	5	3RV2711-0DD10	1	1 unit	41E
0.4	0.4	5.2	65	--	5	3RV2711-0ED10	1	1 unit	41E
0.5	0.5	6.5	65	--	5	3RV2711-0FD10	1	1 unit	41E
0.63	0.63	8.2	65	--	5	3RV2711-0GD10	1	1 unit	41E
0.8	0.8	10	65	--	5	3RV2711-0HD10	1	1 unit	41E
1	1	13	65	--	2	3RV2711-0JD10	1	1 unit	41E
1.25	1.25	16	65	--	5	3RV2711-0KD10	1	1 unit	41E
1.6	1.6	21	65	--	2	3RV2711-1AD10	1	1 unit	41E
2	2	26	65	--	2	3RV2711-1BD10	1	1 unit	41E
2.5	2.5	33	65	--	2	3RV2711-1CD10	1	1 unit	41E
3.2	3.2	42	65	--	2	3RV2711-1DD10	1	1 unit	41E
4	4	52	65	--	2	3RV2711-1ED10	1	1 unit	41E
5	5	65	65	--	2	3RV2711-1FD10	1	1 unit	41E
6.3	6.3	82	65	--	2	3RV2711-1GD10	1	1 unit	41E
8	8	104	65	--	2	3RV2711-1HD10	1	1 unit	41E
10	10	130	65	--	2	3RV2711-1JD10	1	1 unit	41E
12.5	12.5	163	65	--	2	3RV2711-1KD10	1	1 unit	41E
15	15	208	65	--	2	3RV2711-4AD10	1	1 unit	41E
Size S0									
20	20	260	50	--	2	3RV2721-4BD10	1	1 unit	41E
22	22	286	50	--	2	3RV2721-4CD10	1	1 unit	41E
Size S3³⁾									
10	10	150	65	65	5	3RV2742-5AD10	1	1 unit	41E
15	15	225	65	65	5	3RV2742-5BD10	1	1 unit	41E
20	20	260	65	65	5	3RV2742-5CD10	1	1 unit	41E
25	25	325	65	65	5	3RV2742-5DD10	1	1 unit	41E
30	30	390	65	65	5	3RV2742-5ED10	1	1 unit	41E
35	35	455	65	--	5	3RV2742-5FD10	1	1 unit	41E
40	40	520	65	--	5	3RV2742-5GD10	1	1 unit	41E
45	45	585	65	--	5	3RV2742-5HD10	1	1 unit	41E
50	50	650	65	--	5	3RV2742-5JD10	1	1 unit	41E
60	60	780	65	--	5	3RV2742-5LD10	1	1 unit	41E
70	70	910	65	--	5	3RV2742-5QD10	1	1 unit	41E

¹⁾ Rated value 100% according to UL 489 and IEC 60947-2 ("100% rated breaker").

²⁾ Values for 600 Y/347 V AC, see page 7/18.

³⁾ Transverse auxiliary switches cannot be used for 3RV2742.

Lateral and transverse auxiliary switches can be ordered separately (see "Accessories" page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

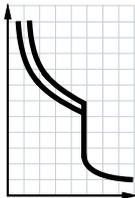
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

For transformer protection according to UL 489/CSA C22.2 No.5

Selection and ordering data

Without auxiliary switches

Circuit breakers for system and transformer protection according to UL/CSA, specially designed for transformers with high inrush current



3RV2811-0AD10

Rated current ¹⁾	Thermal overload release (non-adjustable)	Instantaneous electronic release	Short-circuit breaking capacity at 480 Y/277 V AC ²⁾	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n ¹⁾		$I >$	I_{bc}		Article No.	Price per PU		
A	A	A	kA	d				
Size S00								
0.16	0.16	3.3	65	5	3RV2811-0AD10		1	1 unit 41E
0.2	0.2	4.2	65	5	3RV2811-0BD10		1	1 unit 41E
0.25	0.25	5.2	65	5	3RV2811-0CD10		1	1 unit 41E
0.32	0.32	6.5	65	5	3RV2811-0DD10		1	1 unit 41E
0.4	0.4	8.2	65	5	3RV2811-0ED10		1	1 unit 41E
0.5	0.5	10	65	5	3RV2811-0FD10		1	1 unit 41E
0.63	0.63	13	65	5	3RV2811-0GD10		1	1 unit 41E
0.8	0.8	16	65	5	3RV2811-0HD10		1	1 unit 41E
1	1	21	65	2	3RV2811-0JD10		1	1 unit 41E
1.25	1.25	26	65	2	3RV2811-0KD10		1	1 unit 41E
1.6	1.6	33	65	2	3RV2811-1AD10		1	1 unit 41E
2	2	42	65	2	3RV2811-1BD10		1	1 unit 41E
2.5	2.5	52	65	2	3RV2811-1CD10		1	1 unit 41E
3.2	3.2	65	65	2	3RV2811-1DD10		1	1 unit 41E
4	4	82	65	2	3RV2811-1ED10		1	1 unit 41E
5	5	104	65	2	3RV2811-1FD10		1	1 unit 41E
6.3	6.3	130	65	2	3RV2811-1GD10		1	1 unit 41E
8	8	163	65	2	3RV2811-1HD10		1	1 unit 41E
10	10	208	65	2	3RV2811-1JD10		1	1 unit 41E
12.5	12.5	260	65	2	3RV2811-1KD10		1	1 unit 41E
15	15	286	65	2	3RV2811-4AD10		1	1 unit 41E
Size S0								
20	20	325	50	2	3RV2821-4BD10		1	1 unit 41E
22	22	364	50	5	3RV2821-4CD10		1	1 unit 41E

¹⁾ Rated value 100% according to UL 489 and IEC 60947-2 ("100% rated breaker").

²⁾ Values for 600 Y/347 V AC, see page 7/18.

Lateral and transverse auxiliary switches can be ordered separately (see "Accessories", page 7/44 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mountable accessories

Overview

Mounting location and function

The 3RV2 motor starter protectors/circuit breakers have three main contact elements. In order to achieve maximum flexibility, auxiliary switches, signaling switches, auxiliary releases and isolator modules can be supplied separately.

These components are easily fitted to the switches without the use of any tools according to requirements.

Overview graphic, [see page 7/7](#).

<p>Front side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> A maximum of four auxiliary contacts with auxiliary switches can be mounted on each motor starter protector/circuit breaker Transverse auxiliary switches cannot be used for circuit breaker 3RV2742 (size S3). 	<p>Transverse auxiliary switches, solid-state compatible transverse auxiliary switches</p> <p>1 NO + 1 NC or 2 NO or 1 CO</p>	<p>An auxiliary switch can be inserted transversely on the front. The overall width of the motor starter protectors/circuit breakers remains unchanged.</p>
<p>Left-hand side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> A maximum of four auxiliary contacts with auxiliary switches can be mounted on each motor starter protector/circuit breaker Lateral auxiliary switches (two contacts) and signaling switches can be mounted separately or together Signaling switches cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers Only lateral auxiliary switches can be used for 3RV2742 (size S3) 	<p>Lateral auxiliary switches (2 contacts)</p> <p>1 NO + 1 NC or 2 NO or 2 NC</p> <p>Lateral auxiliary switches (4 contacts)</p> <p>2 NO + 2 NC</p> <p>Signaling switches</p> <p>Tripping 1 NO + 1 NC Short circuit 1 NO + 1 NC</p>	<p>One of the three lateral auxiliary switches can be mounted on the left side per motor starter protector/circuit breaker. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector/circuit breaker.</p> <p>The width of the lateral auxiliary switch with two contacts is 9 mm.</p> <p>One lateral auxiliary switch with four contacts can be mounted on the left side per motor starter protector/circuit breaker. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector/circuit breaker.</p> <p>The width of the lateral auxiliary switch with four contacts is 18 mm.</p>
<p>Right-hand side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> One auxiliary release can be mounted per motor starter protector/circuit breaker Accessories cannot be mounted on the right-hand side of the 3RV21 motor starter protectors for motor protection with overload relay function 	<p>Auxiliary releases</p> <p>Shunt releases</p> <p>or</p> <p>Undervoltage releases</p> <p>or</p> <p>Undervoltage releases with leading auxiliary contacts 2 NO</p> <p>Own version for 3RV1011</p>	<p>One signaling switch can be mounted on the left side of each motor starter protector.</p> <p>The signaling switch has two contact systems.</p> <p>One contact system always signals <u>tripping</u> irrespective of whether this was caused by a short circuit, an overload or an auxiliary release. The other contact system only switches in the event of a short circuit. There is no signaling as a result of <u>switching off</u> with the actuator.</p> <p>In order to be able to switch on the motor starter protector again after a short circuit, the signaling switch must be reset manually after the error cause has been eliminated.</p> <p>The width of the signaling switch is 18 mm.</p>
<p>Top</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> Isolator modules cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers Isolator module for size S2: <ul style="list-style-type: none"> only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A not with the transverse auxiliary switch Terminal screws of the transverse auxiliary switch are covered by the isolator module; Recommendation: Lateral auxiliary switches should be used in combination with the isolator module, or the isolator module should not be mounted until the auxiliary switch has been wired up 	<p>Isolator modules</p>	<p>For remote-controlled tripping of the motor starter protector/circuit breaker. The release coil should only be energized for short periods (see circuit diagrams).</p> <p>Trips the motor starter protector/circuit breaker when the voltage is interrupted and prevents the motor from being restarted accidentally when the voltage is restored. Used for remote-controlled tripping of the motor starter protector/circuit breaker.</p> <p>Particularly suitable for EMERGENCY STOP disconnection by way of corresponding EMERGENCY STOP pushbuttons according to EN 60204-1.</p> <p>Function and use as for the undervoltage release without leading auxiliary contacts, but with the following additional function: the auxiliary contacts will open in switch position OFF to deenergize the coil of the undervoltage release, thus interrupting energy consumption. In the "tripped" position, these auxiliary contacts are not guaranteed to open. The leading contacts permit the motor starter protector/circuit breaker to reclose.</p> <p>The width of the auxiliary release is 18 mm.</p>
<p>Isolator modules</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> Isolator modules cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers Isolator module for size S2: <ul style="list-style-type: none"> only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A not with the transverse auxiliary switch Terminal screws of the transverse auxiliary switch are covered by the isolator module; Recommendation: Lateral auxiliary switches should be used in combination with the isolator module, or the isolator module should not be mounted until the auxiliary switch has been wired up 		<p>Isolator modules can be mounted to the upper connection side of the motor starter protectors.</p> <p>The supply cable is connected to the motor starter protector through the isolator module.</p> <p>The plug can only be unplugged when the motor starter protector is open and isolates all 3 poles of the motor starter protector from the network. The shock-protected isolation point is clearly visible and secured with a padlock to prevent reinsertion of the plug.</p>

For a complete overview of which accessories can be used for the various motor starter protectors/circuit breakers, [see page 7/2](#).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mountable accessories

Selection and ordering data

PU (UNIT, SET, M) = 1
 PS* = 1 unit (unless otherwise specified)
 PG = 41E

Version	For motor starter protectors/circuit breakers	SD	Screw terminals 	SD	Spring-loaded terminals 	
	Size	d	Article No.	Price per PU	Article No.	Price per PU
Auxiliary switches¹⁾						
	Transverse auxiliary switches For front mounting	S00 ... S3	▶	3RV2901-1D 3RV2901-1E 3RV2901-1F	▶	-- 3RV2901-2E 3RV2901-2F
	Solid-state compatible transverse auxiliary switches For mounting on the front, for operation in dusty atmosphere and in solid-state circuits with low operating currents	S00 ... S3	▶		▶	
	1 CO	S00 ... S3	2	3RV2901-1G		--
	Covers for transverse auxiliary switches (PS* = 10 units)	S00 ... S3	2	3RV2901-0H		--
	Lateral auxiliary switches For mounting on the left	S00 ... S3	▶	3RV2901-1A 3RV2901-1B 3RV2901-1C 3RV2901-1J	▶	3RV2901-2A 3RV2901-2B 3RV2901-2C --
	1 NO + 1 NC 2 NO 2 NC 2 NO + 2 NC	S00 ... S3	2			
	Signaling switches One signaling switch can be mounted on the left per motor starter protector. Separate tripped and short-circuit alarms, 1 NO + 1 NC each	S00 ⁴⁾ ... S3	▶	3RV2921-1M	▶	3RV2921-2M
						
	Isolator modules Visible isolating distance for isolating individual motor starter protectors from the network, lockable in disconnected position	S00 ⁴⁾ , S0 S2 ³⁾	▶	3RV2928-1A 3RV2938-1A		-- --
						

¹⁾ Each motor starter protector/circuit breaker can be fitted with one transverse and one lateral auxiliary switch. The lateral auxiliary switch with 2 NO + 2 NC is used without a transverse auxiliary switch.

²⁾ This accessory cannot be used for the 3RV27 and 3RV28 circuit breakers (sizes S00, S0, S3).

³⁾ The isolator module for size S2 can be used only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A. Similarly, it cannot be used with the transverse auxiliary switch.

⁴⁾ Not for 3RV1011 motor starter protectors.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mountable accessories

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2902-1AV0



3RV2902-2AV0



3RV2922-1CP0



3RV2902-2DB0

Rated control supply voltage U_s						For motor starter protectors/circuit breakers	SD	Screw terminals		SD	Spring-loaded terminals	
AC 50 Hz	AC 60 Hz	AC 50/60 Hz	AC/DC 50/60 Hz, DC	DC	Article No.			Price per PU	Article No.		Price per PU	
V	V	V	V	V	Size	d						
Auxiliary releases³⁾												
Undervoltage releases												
--	--	--	--	--	24	S00 ... S3	2	3RV2902-1AB4	--			
24	24	--	--	--	--	S00 ... S3	2	3RV2902-1AB0	--			
110	120	--	--	--	--	S00 ... S3	2	3RV2902-1AF0	--			
--	208	--	--	--	--	S00 ... S3	2	3RV2902-1AM1	--			
230	240	--	--	--	--	S00 ... S3	▶	3RV2902-1AP0	▶		3RV2902-2AP0	
400	440	--	--	--	--	S00 ... S3	▶	3RV2902-1AV0	▶		3RV2902-2AV0	
415	480	--	--	--	--	S00 ... S3	2	3RV2902-1AV1	--			
500	600	--	--	--	--	S00 ... S3	2	3RV2902-1AS0	--			
Undervoltage releases with leading auxiliary contacts 2 NO												
24	24	--	--	--	--	S00 ⁴⁾ ... S3	5	3RV2922-1CB0	--			
230	240	--	--	--	--	S00 ⁴⁾ ... S3	2	3RV2922-1CP0	2		3RV2922-2CP0	
400	440	--	--	--	--	S00 ⁴⁾ ... S3	2	3RV2922-1CV0	2		3RV2922-2CV0	
415	480	--	--	--	--	S00 ⁴⁾ ... S3	2	3RV2922-1CV1	2		3RV2922-2CV1	
Shunt releases												
--	--	20 ... 24	20 ... 70	--	--	S00 ... S3	▶	3RV2902-1DB0	▶		3RV2902-2DB0	
--	--	90 ... 110	70 ... 190	--	--	S00 ... S3	2	3RV2902-1DF0	2		3RV2902-2DF0	
--	--	210 ... 240	190 ... 330	--	--	S00 ... S3	▶	3RV2902-1DP0	▶		3RV2902-2DP0	
--	--	350 ... 415	330 ... 500	--	--	S00 ... S3	2	3RV2902-1DV0	--			
--	--	500	500	--	--	S00 ... S3	2	3RV2902-1DS0	--			

¹⁾ The voltage range is valid for 100% (infinite) ON period. The response voltage lies at 0.9 of the lower limit of the voltage range.

²⁾ The voltage range is valid for 5 s ON period at AC 50/60 Hz and DC. The response voltage lies at 0.85 of the lower limit of the voltage range.

³⁾ One auxiliary release can be mounted on the right per motor starter protector/circuit breaker (does not apply to 3RV21 motor starter protectors with overload relay function).

⁴⁾ Not for 3RV1011 motor starter protectors.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Busbar accessories

Overview

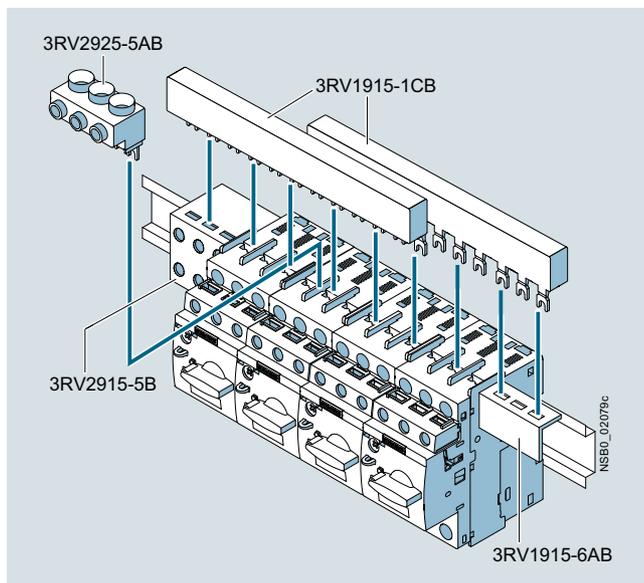
Insulated three-phase busbar system

Three-phase busbar systems provide an easy, time-saving and clearly arranged means of feeding 3RV2 motor starter protectors/circuit breakers with screw terminals. Different versions are available for sizes S00 to S2 and can be used for the various different types of motor starter protectors/circuit breakers (size S0 up to 32 A).

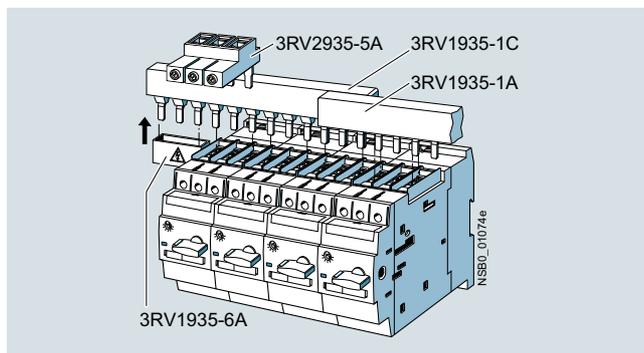
The 3RV1915 and 3RV1935 three-phase busbar systems are generally unsuitable for the 3RV21 motor starter protectors for motor protection with overload relay function.

The busbars are suitable for between two and five motor starter protectors/circuit breakers. However, any kind of extension is possible by clamping the tags of an additional busbar (rotated by 180°) underneath the terminals of the respective last motor starter protector/circuit breaker.

A combination of motor starter protectors/circuit breakers of size S00 and S0 is possible. The motor starter protectors/circuit breakers are supplied by appropriate infeed terminals.



SIRIUS three-phase busbar system size S00/S0



SIRIUS three-phase busbar system size S2

The three-phase busbar systems are finger-safe. They are designed for any short-circuit stress which can occur at the output side of connected motor starter protectors/circuit breakers.

The three-phase busbar systems can also be used to construct "Type E Starters" according to UL/CSA and for 3RV27 and 3RV28 circuit breakers according to UL 489. Special infeed terminals must be used for this purpose, however (S00/S0: 3RV2925-5EB; S2: 3RV2935-5E) (see "Selection and ordering data", page 7/48).

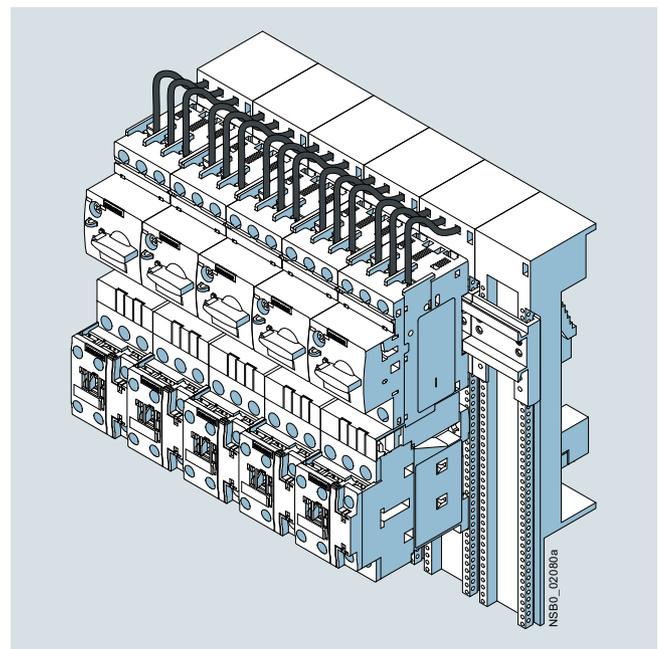
BUS busbar adapters for 60 mm systems

The motor starter protectors/circuit breakers are mounted directly with the aid of busbar adapters on busbar systems with 60 mm center-to-center clearance in order to save space and to reduce infeed times and costs.

Busbar adapters for busbar systems with 60 mm center-to-center clearance are suitable for copper busbars with a width of 12 mm to 30 mm. The busbars can be 5 mm or 10 mm thick.

The motor starter protectors/circuit breakers are snapped onto the adapter and connected on the line side. This prepared unit is then plugged directly onto the busbar system, and is thus connected both mechanically and electrically at the same time.

For further busbar adapters for snap-mounting direct-on-line starters and reversing starters as well as additional accessories such as line terminals and outgoing terminals, flat copper profile, etc., see Catalog LV 10.



SIRIUS load feeders with busbar adapters snapped onto busbars

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Busbar accessories

Selection and ordering data

	Modular spacing mm	Number of motor starter protectors that can be connected			Rated current I_n at 690 V A	For motor starter protectors/circuit breakers Size	SD d	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		Without lateral accessories	With lateral auxiliary switch	Incl. auxiliary release								
Three-phase busbars¹⁾												
 3RV1915-1AB	45 ³⁾	2	--	--	63	S00, S0 ²⁾	▶	3RV1915-1AB		1	1 unit	41E
		3	--	--	63	S00, S0 ²⁾	▶	3RV1915-1BB		1	1 unit	41E
		4	--	--	63	S00, S0 ²⁾	▶	3RV1915-1CB		1	1 unit	41E
		5	--	--	63	S00, S0 ²⁾	▶	3RV1915-1DB		1	1 unit	41E
		3RV1915-1BB	55 ⁴⁾	--	2	--	63	S00, S0 ²⁾	▶	3RV1915-2AB		1
 3RV1915-1BB	55 ⁴⁾	--	3	--	63	S00, S0 ²⁾	▶	3RV1915-2BB		1	1 unit	41E
		--	4	--	63	S00, S0 ²⁾	▶	3RV1915-2CB		1	1 unit	41E
		--	5	--	63	S00, S0 ²⁾	▶	3RV1915-2DB		1	1 unit	41E
 3RV1915-1CB	63 ⁵⁾	2	--	--	108	S2	▶	3RV1935-1A		1	1 unit	41E
		3	--	--	108	S2	▶	3RV1935-1B		1	1 unit	41E
		4	--	--	108	S2	▶	3RV1935-1C		1	1 unit	41E
 3RV1915-1DB	75 ⁵⁾	--	--	2	63	S00, S0 ²⁾	▶	3RV1915-3AB		1	1 unit	41E
		--	--	4	63	S00, S0 ²⁾	▶	3RV1915-3CB		1	1 unit	41E
		--	2	2	108	S2	▶	3RV1935-3A		1	1 unit	41E
		--	3	3	108	S2	▶	3RV1935-3B		1	1 unit	41E
		--	4	4	108	S2	▶	3RV1935-3C		1	1 unit	41E

1) Not suitable for 3RV21 motor starter protectors with overload relay function.

2) Approved for motor starter protectors size S0 with $I_n \leq 32$ A.

3) For 3RV2 motor starter protectors without accessories mounted on the side.

4) For 3RV2 motor starter protectors with auxiliary switches with 1 NO + 1 NC, 2 NO and 2 NC mounted on the left (9 mm wide).

5) For 3RV2 motor starter protectors 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).

Version	Modular spacing mm	For motor starter protectors/circuit breakers Size	SD d	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	45	S00, S0	▶	3RV1915-5DB		1	1 unit	41E

Connecting pieces for three-phase busbars

 3RV1915-5DB	For connecting three-phase busbars for 3RV2 motor starter protectors of size S00/S0 (left) to the 3RV1011 motor starter protector (right)	45	S00, S0	▶	3RV1915-5DB		1	1 unit	41E
--	---	----	---------	---	--------------------	--	---	--------	-----

Conductor cross-section			Tightening torque Nm	For motor starter protectors/circuit breakers Size	SD d	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Solid or stranded mm ²	Finely stranded with end sleeve mm ²	AWG cables, solid or stranded AWG								
2.5 ... 25	4 ... 16	10 ... 4	4	S00 ²⁾ , S0	▶	3RV1915-5A		1	1 unit	41E
2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00, S0	▶	3RV2925-5AB		1	1 unit	41E
2 x (2.5 ... 50) ¹⁾ , 1 x (2.5 ... 70) ¹⁾	2 x (2.5 ... 35) ¹⁾ , 1 x (2.5 ... 50) ¹⁾	2 x (10 ... 1/0) ¹⁾ , 1 x (10 ... 2/0) ¹⁾	4 ... 6	S2	▶	3RV2935-5A		1	1 unit	41E

Three-phase infeed terminals

 3RV2925-5AB	Connection from top										
	2.5 ... 25	4 ... 16	10 ... 4	4	S00 ²⁾ , S0	▶	3RV1915-5A		1	1 unit	41E
	2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00, S0	▶	3RV2925-5AB		1	1 unit	41E
 3RV2935-5A	2 x (2.5 ... 50) ¹⁾ , (2.5 ... 70) ¹⁾	2 x (2.5 ... 35) ¹⁾ , (2.5 ... 50) ¹⁾	2 x (10 ... 1/0) ¹⁾ , (10 ... 2/0) ¹⁾	4 ... 6	S2	▶	3RV2935-5A		1	1 unit	41E
	Connection from below										
 3RV2915-5B	Terminal is connected in place of a switch, take space requirement into account										
	2.5 ... 25	2.5 ... 16	10 ... 4	Input: 4, output: 2 ... 2.5	S00, S0	▶	3RV2915-5B		1	1 unit	41E

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

2) Especially suitable for 3RV1011 motor starter protectors. If the 3RV2 motor starter protector is used, the terminal block extends beyond the device width.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Busbar accessories

Conductor cross-section		AWG cables, solid or stranded	Tightening torque	For motor starter protectors/ circuit breakers	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Solid or stranded	Finely stranded with end sleeve									
mm ²	mm ²	AWG	Nm	Size	d					
Three-phase infeed terminals for constructing "Type E Starters"										
Connection from top										
	2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00, S0	2	3RV2925-5EB	1	1 unit	41E
3RV2925-5EB	2 x (2.5 ... 50) ¹⁾	2 x (2.5 ... 35) ¹⁾	2 x (10 ... 1/0) ¹⁾	4 ... 6	S2	▶	3RV2935-5E	1	1 unit	41E
	1 x (2.5 ... 70) ¹⁾	1 x (2.5 ... 50) ¹⁾	1 x (10 ... 2/0) ¹⁾							
3RV2935-5E										

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.

Version	For motor starter protectors/circuit breakers	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	Size	d					
Covers for connection tags							
	Touch protection for empty positions	S00, S0	▶	3RV1915-6AB	1	10 units	41E
3RV1915-6AB		S2	▶	3RV1935-6A	1	5 units	41E

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Busbar accessories

Busbar adapters

8US1251-5DS10



8US1251-5DT11



8US1211-4TR00



8US1250-5AS10



8US1250-5AT10

For motor starter protectors/circuit breakers	Rated current	Connecting cable	Adapter length	Adapter width	Rated voltage	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size	A	AWG	mm	mm	V	d					

Busbar adapters for 60 mm systems

For copper busbars according to DIN 46433
Width: 12 mm and 30 mm
Thickness: 5 mm and 10 mm
and for T and double-T special profiles

- For motor starter protectors/circuit breakers with screw terminals

S00 ⁴⁾ , S0 ²⁾	25	12	200	45	690	2	8US1251-5DS10		1	1 unit	140
S00 ⁴⁾ , S0	25	12	260	45	690	2	8US1251-5DT10		1	1 unit	140
S0	32	10	200	45	690	3	8US1251-5NS10		1	1 unit	140
S0 ²⁾	32	10	260	45	690	2	8US1251-5NT10		1	1 unit	140
S2	80	4	200	55	690	5	8US1261-5MS13		1	1 unit	140
S2	80	4	260	55	690	5	8US1261-6MT10		1	1 unit	140
S2 ¹⁾	80	4	260	118	690	5	8US1211-6MT10		1	1 unit	140
S3	100/70 ³⁾	4	215	72	690/600 ³⁾	2	8US1211-4TR00		1	1 unit	140

- For motor starter protectors/circuit breakers with spring-loaded terminals

S00 ⁴⁾ , S0 ²⁾	25	12	200	45	690	2	8US1251-5DS11		1	1 unit	140
S00 ⁴⁾ , S0 ²⁾	25	12	260	45	690	2	8US1251-5DT11		1	1 unit	140
S0	32	10	200	45	690	5	8US1251-5NS11		1	1 unit	140
S0 ²⁾	32	10	260	45	690	2	8US1251-5NT11		1	1 unit	140

Accessories

Device holders	--	--	200	45	--	2	8US1250-5AS10		1	1 unit	140
For lateral mounting to busbar adapters	--	--	260	45	--	2	8US1250-5AT10		1	1 unit	140
Side modules	--	--	200	9	--	2	8US1998-2BJ10		1	10 units	140
For widening of busbar adapters											
Vibration and shock kits											
For high vibration and shock loads											
S2	--	--	--	--	--	5	8US1998-1DA10		1	1 unit	140

¹⁾ For the assembly of feeders for reversing starters comprising a motor starter protector and two contactors.

²⁾ Also approved for 3RV27, 3RV28 motor starter protectors according to UL.

³⁾ Values according to UL/CSA:
- Rated current: 70 A at 600 V AC
- Short-circuit breaking capacity:
480 V AC: 65 kA, up to $I_n = 30$ A,
480 Y/277 V AC: 65 kA
600 Y/347 V AC: 20 kA.

⁴⁾ Not for 3RV1011 motor starter protectors.

For additional busbar adapters and accessories, see [Catalog LV 10](#).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

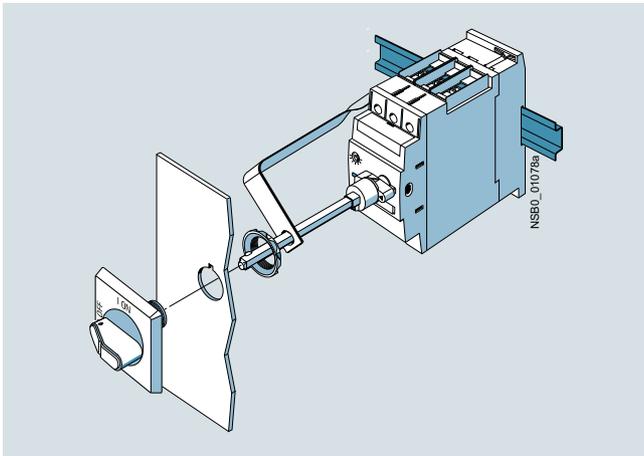
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Rotary operating mechanisms

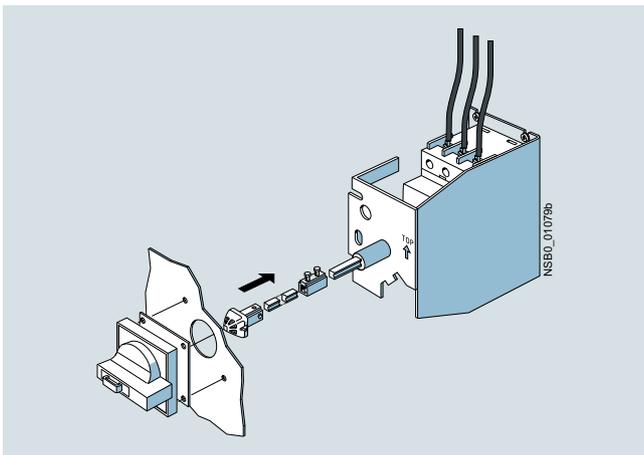
Overview

Door-coupling rotary operating mechanisms

Motor starter protectors/circuit breakers with a rotary operating mechanism can be mounted in a control cabinet and operated externally by means of a door-coupling rotary operating mechanism. When the cabinet door with motor starter protector/circuit breaker is closed, the operating mechanism is coupled. When the motor starter protector/circuit breaker closes, the coupling is locked which prevents the door from being opened unintentionally. This interlock can be defeated by the maintenance personnel. In the OPEN position, the rotary operating mechanism can be secured against reclosing with up to three padlocks. Inadvertent opening of the door is not possible in this case either.



SIRIUS 3RV2926-0K door-coupling rotary operating mechanism



SIRIUS 3RV2926-2B door-coupling rotary operating mechanism for arduous conditions

Remote motorized operating mechanism

3RV motor starter protectors are manually operated switching devices. They automatically trip in case of an overload or short circuit. Intentional remote-controlled tripping is possible by means of a shunt release or an undervoltage release. Reclosing is only possible directly at the motor starter protector/circuit breaker.

The remote motorized operating mechanism allows the motor starter protectors/circuit breakers to be opened and closed by electrical commands. This enables a load or an installation to be isolated from the network or reconnected to it from an operator panel.

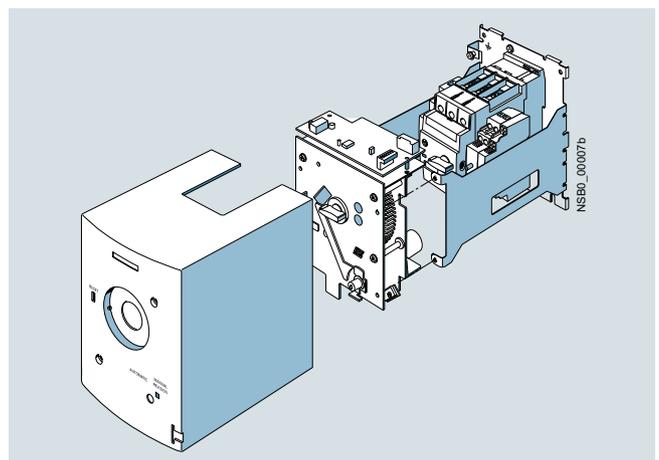
If the motor starter protector/circuit breaker is tripped as a result of overload or short circuit, it will be in the tripped position. For reclosing, the remote motorized operating mechanism must first be set manually or electrically to the 0 position (electrically by means of the Open command). Then it can be reclosed.

The remote motorized operating mechanism is available for motor starter protectors/circuit breakers in size S3 for the control voltages of 230 V AC. The motor starter protector/circuit breaker is fitted into the remote motorized operating mechanism as shown in the drawing.

In the "MANUAL" position, the motor starter protector/circuit breaker in the remote motorized operating mechanism can continue to be switched manually on site. In the "AUTOMATIC" position, the motor starter protector/circuit breaker is switched by means of electrical commands. The switching command must be applied for a minimum of 100 ms. The remote motorized operating mechanism closes the motor starter protector after a maximum of 1 s. On voltage failure during the switching operation it is ensured that the motor starter protector/circuit breaker remains in the "OPEN" or "CLOSED" position. In the "MANUAL" and "OFF" position, the remote motorized operating mechanism can be locked with a padlock.

RESET function

The RESET button on the motorized operating mechanism serves to reset any 3RV2921-1M signaling switch that might be installed.



SIRIUS 3RV1946-3AP0 remote motorized operating mechanism

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Rotary operating mechanisms

Technical specifications

Remote motorized operating mechanisms		
Type	3RV1946-3AP0	
Max. power consumption • At $U_s = 230$ V AC	VA	170
Operating range	0.85 ... 1.1 x U_s	
Minimum command duration at U_s	s	0.1
Max. command duration	Unlimited (uninterrupted operation)	
Max. total make/break time , remote-controlled	s	2
Ready to reclose after approx.	s	2.5
Switching frequency	1/h	25
Internal back-up fuse • 230 V AC	A	0.8
Connection type of control cables	Plug-in connectors with screw terminals	
Shock resistance acc. to IEC 60068-2-27	g/ms	25/11 (square and sine pulse)

Selection and ordering data

Version	Color of actuator	Version of extension shaft mm	For motor starter protectors/ circuit breakers Size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
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Door-coupling rotary operating mechanisms



3RV2926-0B

Door-coupling rotary operating mechanisms consisting of an actuator, a coupling driver and a 130/330 mm long extension shaft (6 mm x 6 mm)

Designed for degree of protection IP64; the door locking device prevents accidental opening of the control cabinet door when the switch is set to ON. The OFF position can be locked with up to three padlocks.

Door-coupling rotary operating mechanisms	Black	130 330	S00 ¹⁾ ... S3 S00 ¹⁾ ... S3	▶	3RV2926-0B 3RV2926-0K		1 1	1 unit 1 unit	41E 41E
EMERGENCY STOP door-coupling rotary operating mechanisms	Red/yellow	130 330	S00 ¹⁾ ... S3 S00 ¹⁾ ... S3	▶	3RV2926-0C 3RV2926-0L		1 1	1 unit 1 unit	41E 41E

Door-coupling rotary operating mechanisms for arduous conditions



3RV2926-2B

The door-coupling rotary operating mechanisms consist of an actuator, a coupling driver, an extension shaft of 300 mm in length (8 mm x 8 mm), a spacer and two metal brackets into which the motor starter protector/circuit breaker is inserted.

The door-coupling rotary operating mechanisms are designed to degree of protection IP65. The door interlocking reliably prevents opening of the control cabinet door in the ON position of the motor starter protector/circuit breaker. The OFF position can be locked with up to three padlocks.

Laterally mountable auxiliary releases and 2-pole auxiliary switches can be used.

The door-coupling rotary operating mechanisms thus meet the requirements for isolating functions according to IEC 60947-2.

Door-coupling rotary operating mechanisms	Gray	300	S00 ¹⁾ , S0 S2 S3	▶	3RV2926-2B 3RV2936-2B 3RV2946-2B		1 1 1	1 unit 1 unit 1 unit	41E 41E 41E
EMERGENCY STOP door-coupling rotary operating mechanisms	Red/yellow	300	S00 ¹⁾ , S0 S2 S3	▶	3RV2926-2C 3RV2936-2C 3RV2946-2C		1 1 1	1 unit 1 unit 1 unit	41E 41E 41E

3RV2936-2C

¹⁾ Not for 3RV1011.

Version	Rated control supply voltage U_s	For motor starter protectors/ circuit breakers Size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
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Remote motorized operating mechanisms



3RV1946-3AP0

Remote motorized operating mechanisms	50/60 Hz, 230 V AC	S3	X	3RV1946-3AP0		1	1 unit	41E
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Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

Overview

More information

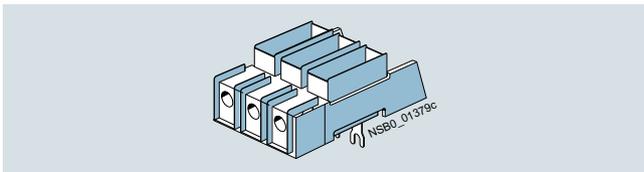
System Manual "SIRIUS – System Overview", see <https://support.industry.siemens.com/cs/ww/en/view/60311318>

Equipment Manual, see <https://support.industry.siemens.com/cs/ww/en/view/60279172>

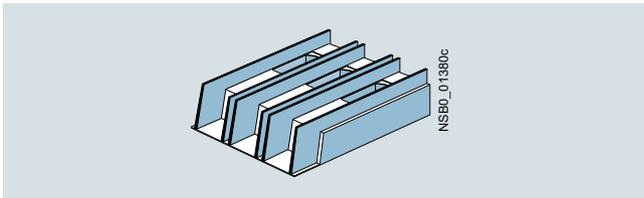
Accessories for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1

The 3RV20 motor starter protectors with screw terminals are approved according to UL 508/UL 60947-4-1 as "Self-Protected Combination Motor Controllers (Type E)". The 3RV1011 motor starter protectors do not have this UL approval.

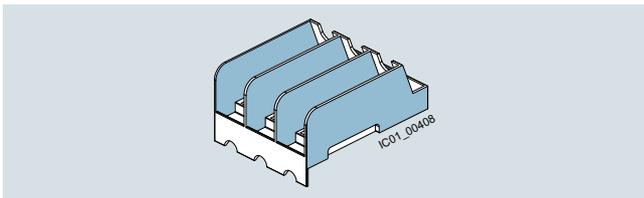
This requires increased clearance and creepage distance (1 inch and 2 inches respectively) at the input side of the device, which are achieved by mounting a terminal block or a phase barrier.



SIRIUS 3RV2928-1H terminal block



SIRIUS 3RT2946-4GA07 terminal block (type E)



SIRIUS 3RV2928-1K phase barrier

Motor starter protectors/ circuit breakers	Size	Essential accessories for "Self-Protected Combination Motor Controllers (Type E)" acc. to UL 508/UL 60947-4-1
3RV201., 3RV202.	S00/S0	3RV2928-1H terminal block or 3RV2928-1K phase barrier
3RV2031-4B.1., 3RV2031-4D.1., 3RV2031-4E.1., 3RV2031-4P.1., 3RV2031-4S.1., 3RV2031-4T.1., 3RV2031-4U.1., 3RV2031-4V.1.	S2	--
3RV2031-4J.1., 3RV2031-4K.1., 3RV2031-4R.1., 3RV2031-4W.1., 3RV2031-4X.1., 3RV2032	S2	3RV2938-1K phase barrier
3RV204.	S3	3RT2946-4GA07 terminal block

-- No accessories needed

Special three-phase infeed terminals are required for constructing "Type E Starters" with an insulated three-phase busbar system (see "Busbar accessories", page 7/48).

The 3RV29 infeed system also enables the assembly of "Type E Starters", see page 7/62 onwards.

Note:

According to CSA, these terminal blocks and the phase barriers can be omitted when the device is used as a "Self-Protected Combination Motor Controller (Type E)".

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

Link modules

Feeders can be easily assembled from single devices with the help of the link modules. The following table shows the different combination options for devices with screw or spring-loaded terminals.

Combination devices	3RV2 motor starter protectors/ circuit breakers Size	3RT2 contactors; 3RW30, 3RW40 soft starters; 3RF34 solid-state contactors Size	Link modules	
			Screw terminals	Spring-loaded terminals
Link modules for connecting switching devices to 3RV2 motor starter protectors/circuit breakers¹⁾				
3RT2 contactors with AC or DC coil	S00	S00	3RA1921-1DA00	3RA2911-2AA00
	S0	S00		--
	S2	S2	3RA2931-1AA00	--
	S3 ²⁾	S3 ²⁾	3RA1941-1AA00	--
3RT2 contactors with AC coil	S00	S0	3RA2921-1AA00	--
	S0	S0		3RA2921-2AA00 ³⁾
3RT2 contactor with DC or AC/DC coil	S00	S0	3RA2921-1BA00	--
	S0	S0		3RA2921-2AA00
3RW30 soft starters	S00	S00	3RA2921-1BA00	3RA2911-2GA00
	S0	S00		--
3RW30/3RW40 soft starters	S00	S0	3RA2921-1BA00	--
	S0	S0		3RA2921-2GA00
	S2 ⁴⁾	S2 ⁴⁾	3RA2931-1AA00	--
	S3 ⁵⁾	S3 ⁵⁾	3RA1941-1AA00	--
3RF34 solid-state contactors	S00/S0	S00	3RA2921-1BA00	--
Hybrid link modules for connecting contactors with spring-loaded terminals to 3RV2 motor starter protectors/circuit breakers with screw terminals⁶⁾				
3RT2 contactors with AC or DC coil	S00	S00	3RA2911-2FA00	--
	S0	S0	3RA2921-2FA00	--

-- Version not possible

- 1) The link modules cannot be used for 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.32-4K.1., 3RV2.32-4R.1., 3RV27, 3RV28 and 3RV1011 motor starter protectors/circuit breakers.
- 2) To assemble the feeder between a motor starter protector and a contactor in size S3, the 3RA2942-1AA00 standard mounting rail adapter must be used.
- 3) A spacer for height compensation on AC contactors, size S0, is optionally available, see page 7/56.
- 4) To assemble the feeder between a motor starter protector and a soft starter in size S2, the 3RA2932-1CA00 standard mounting rail adapter must be used.
- 5) It is only permissible to assemble the feeder between the motor starter protector and the soft starter in size S3 on a mounting plate.
- 6) The hybrid link modules for motor starter protector to contactor cannot be used for 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV27 and 3RV28 motor starter protectors/circuit breakers. They are suitable only for constructing direct-on-line starters.

Notes:

- Link modules can be used in
 - Size S00: up to max. 16 A
 - Size S0: up to max. 32 A
 - Size S2: up to max. 65 A
- Hybrid link modules can be used in
 - Size S00: up to max. 16 A
 - Size S0: up to max. 32 A

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

Selection and ordering data

Accessories

Version	For motor starter protectors/ circuit breakers	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Covers							
	Terminal covers For cable lug and busbar connection for maintaining the required voltage clearances and as touch protection if box terminal is removed (2 units can be mounted per motor starter protector/circuit breaker)	S3	5	3RT1946-4EA1	1	1 unit	41B
3RV2 (size S3) with 3RT1946-4EA1 (left)							
	Scale covers Sealable, for covering the set current scale	3RV20, 3RV21, 3RV24: S00 ... S3	▶	3RV2908-0P	100	10 units	41E
3RV2908-0P							
	Covers for devices with screw terminals (box terminals) Additional touch protection to be fitted at the box terminals (two units required per device) • Main current level	S2 S3	▶ ▶	Screw terminals 			
3RT2936-4EA2					1	1 unit	41B
					1	1 unit	41B
Fixing accessories							
	Push-in lugs For screwing the motor starter protector/circuit breaker onto mounting plates Two units are required for each motor starter protector.	S00, S0	2	3RV2928-0B	100	10 units	41E
3RV2928-0B							
Tools for opening spring-loaded terminals							
	Screwdrivers For all SIRIUS devices with spring-loaded terminals Length approx. 200 mm, 3.0 mm x 0.5 mm, titanium gray/black, partially insulated	S00 ... S3	2	Spring-loaded terminals 			
3RA2908-1A					1	1 unit	41B
Terminal covers for box terminals on 3RV2742 and Type E terminal block 3RT2946-4GA07							
	Additional touch protection to be fitted at the box terminals 3RV2742 (two units required per device) and at Type E terminal block 3RT2946-4GA07 • Main current level	S3	X	3RV2948-1LA00	1	1 unit	41B
3RV2948-1LA00							

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

Version	For motor starter protectors/ circuit breakers	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
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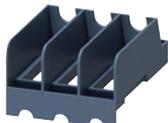
Terminal blocks and phase barriers for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1



3RV2928-1H



3RT2946-4GA07



3RV2928-1K



3RV2938-1K

Note:

UL 508/UL 60947-4-1 approval demands 1-inch clearance and 2-inch creepage distance for "Self-Protected Combination Motor Controllers (Type E)". The following terminal blocks or phase barriers must be used for the 3RV20 motor starter protectors with screw terminals. 3RV20 motor starter protectors with spring-loaded terminals must be assembled with the 3RV29 infeed system for approval as "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1. The 3RV1011 motor starter protectors do not have UL approval as Type E starters.

The terminal block or phase barriers cannot be used in combination with the 3RV19.5 three-phase busbars.

For construction with three-phase busbars, see "Busbar accessories", page 7/46 onwards.

Terminal blocks Type E

For increased clearances and creepage distances (1 and 2 inch)

S00¹⁾, S0

▶

3RV2928-1H

1

1 unit

41E

S3

5

3RT2946-4GA07

1

1 unit

41B

Phase barriers

For increased clearances and creepage distances (1 and 2 inch)

S00¹⁾, S0

▶

3RV2928-1K

1

1 unit

41E

S2

▶

3RV2938-1K

1

1 unit

41E

Auxiliary terminals, 3-pole



3RT2946-4F

For connection of auxiliary and control cables to the main conductor connections (for one side)

S3

5

3RT2946-4F

1

1 unit

41B

¹⁾ Not for 3RV1011 motor starter protectors.

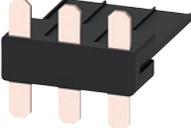
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

Link modules

	For 3RV2 motor starter protectors/circuit breakers	For 3RT2 contactors	Actuating voltage of contactor	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
	Size	Size		d						
Link modules for motor starter protector to contactor¹⁾										
 3RA2921-1AA00	For connection between motor starter protector and contactor with screw terminals				Screw terminals 					
	Single-unit packaging									
	S00/S0	S00	AC, DC	▶	3RA1921-1DA00		1	1 unit	41B	
	S00/S0	S0	AC	▶	3RA2921-1AA00		1	1 unit	41B	
	S00/S0	S0	DC, AC/DC	▶	3RA2921-1BA00		1	1 unit	41B	
	S2	S2	AC, DC, AC/DC	▶	3RA2931-1AA00		1	1 unit	41B	
	S3	S3	AC, DC, AC/DC	▶	3RA1941-1AA00		1	1 unit	41B	
	Multi-unit packaging									
	S00/S0	S00	AC, DC	▶	3RA1921-1D		1	10 units	41B	
	S00/S0	S0	AC	▶	3RA2921-1A		1	10 units	41B	
S00/S0	S0	DC, AC/DC	▶	3RA2921-1B		1	10 units	41B		
S2	S2	AC, DC, AC/DC	▶	3RA2931-1A		1	5 units	41B		
S3	S3	AC, DC, AC/DC	▶	3RA1941-1A		1	5 units	41B		
 3RA1941-1AA00	For connection between motor starter protector and contactor with spring-loaded terminals				Spring-loaded terminals 					
	Single-unit packaging									
	S00	S00	AC, DC	▶	3RA2911-2AA00		1	1 unit	41B	
	S0	S0	AC ²⁾ , DC, AC/DC	▶	3RA2921-2AA00		1	1 unit	41B	
	Multi-unit packaging									
	S00	S00	AC, DC	▶	3RA2911-2A		1	10 units	41B	
S0	S0	AC ²⁾ , DC, AC/DC	▶	3RA2921-2A		1	10 units	41B		
 3RA2911-1CA00	Spacers²⁾ For height compensation on AC contactors size S0 with spring-loaded terminals									
	S0	S0	Single-unit packaging	2	3RA2911-1CA00		1	1 unit	41B	
	S0	S0	Multi-unit packaging	2	3RA2911-1C		1	5 units	41B	

¹⁾ The link modules for motor starter protector to contactor cannot be used for 3RV1011, 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.32-4K.1., 3RV2.32-4R.1., 3RV27 and 3RV28 motor starter protectors/circuit breakers.

²⁾ A spacer for height compensation on AC contactors size S0 is optionally available.

Note:

Link modules can be used in

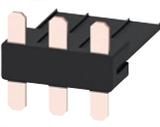
- Size S00: up to max. 16 A
- Size S0: up to max. 32 A
- Size S2: up to max. 65 A

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

For 3RV2 motor starter protectors/circuit breakers Size	For 3RW30, 3RW40 soft starters; 3RF34 solid-state contactors Size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG									
		d														
Link modules for motor starter protector to soft starter¹⁾ and motor starter protector to solid-state contactor¹⁾																
 3RA2921-1BA00  3RA2931-1AA00  3RA1941-1A  3RA2911-2GA00			Connection between motor starter protector and soft starter/solid-state contactor with screw terminals Single-unit packaging S00/S0 S2 ²⁾ S3 ³⁾ S00/S0 S2 ²⁾ S3 ³⁾ Connection between motor starter protector and soft starter with spring-loaded terminals Single-unit packaging S00 S0		Screw terminals  Spring-loaded terminals 		2 ▶ ▶ ▶ 2 ▶ ▶ ▶ 2 2		3RA2921-1BA00 3RA2931-1AA00 3RA1941-1AA00 3RA2921-1B 3RA2931-1A 3RA1941-1A 3RA2911-2GA00 3RA2921-2GA00		1 1 1 1 1 1 1 1 1		1 unit 1 unit 1 unit 10 units 5 units 5 units 1 unit 1 unit		41B 41B 41B 41B 41B 41B 41B 41B	

- ¹⁾ The link modules from motor starter protector to soft starter and motor starter protector to solid-state contactor cannot be used for the 3RV1011, 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.32-4K.1., 3RV2.32-4R.1., 3RV27 and 3RV28 motor starter protectors/circuit breakers.
- ²⁾ To assemble the feeder between a motor starter protector and a soft starter in size S2, the 3RA2932-1CA00 standard mounting rail adapter must be used.
- ³⁾ It is only permissible to assemble the feeder between the motor starter protector and the soft starter in size S3 on a mounting plate.

Note:

Link modules can be used in

- Size S00: up to max. 16 A
- Size S0: up to max. 32 A
- Size S2: up to max. 65 A

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Mounting accessories

For 3RV2 motor starter protectors/circuit breakers	For 3RT2 contactors	Actuating voltage of contactor	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size	Size		d					
Hybrid link modules for motor starter protector to contactor¹⁾								
Mechanical and electrical connection between motor starter protector with screw terminals and contactor with spring-loaded terminals								
Single-unit packaging								
S00	S00	AC, DC	▶	3RA2911-2FA00		1	1 unit	41B
S0	S0	AC ²⁾ , DC, AC/DC	▶	3RA2921-2FA00		1	1 unit	41B
Multi-unit packaging								
S00	S00	AC, DC	▶	3RA2911-2F		1	10 units	41B
S0	S0	AC ²⁾ , DC, AC/DC	▶	3RA2921-2F		1	10 units	41B
Spacers²⁾								
For height compensation on AC contactors size S0 with spring-loaded terminals								
S0	S0	Single-unit packaging	2	3RA2911-1CA00		1	1 unit	41B
S0	S0	Multi-unit packaging	2	3RA2911-1C		1	5 units	41B



3RA2911-2FA00



3RA2921-2FA00



3RA2911-1CA00

1) The hybrid link modules for motor starter protector to contactor cannot be used for 3RV1011, 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV27 and 3RV28 motor starter protectors/circuit breakers. They are suitable only for constructing direct-on-line starters.

2) A spacer for height compensation on AC contactors size S0 is optionally available.

Note:

Link modules can be used in

- Size S00: up to max. 16 A
- Size S0: up to max. 32 A

For motor starter protectors/circuit breakers	Version	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
Type		d	Article No.	Price per PU		
Connection module (adapter and plug) for motor starter protectors/circuit breakers with screw terminals						
The connection module comprises an adapter and a motor feeder connector.						
3RV2.2	Adapter Ambient temperature $T_{u \max.} = 60 \text{ °C}$ Size S0, rated operational current I_{θ} at AC-3/400 V: 25 A	5	3RT1926-4RD01		1	1 unit 41B
3RV2.2	Motor feeder connector Size S0	5	3RT1900-4RE01		1	1 unit 41B



3RT1926-4RD01



3RT1900-4RE01

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Enclosures and front plates

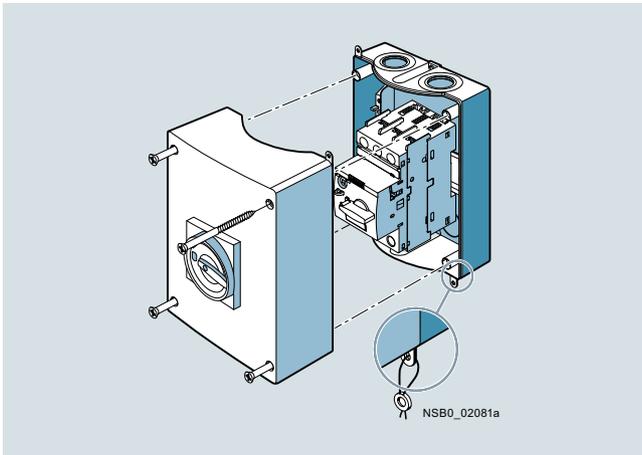
Overview

Enclosures

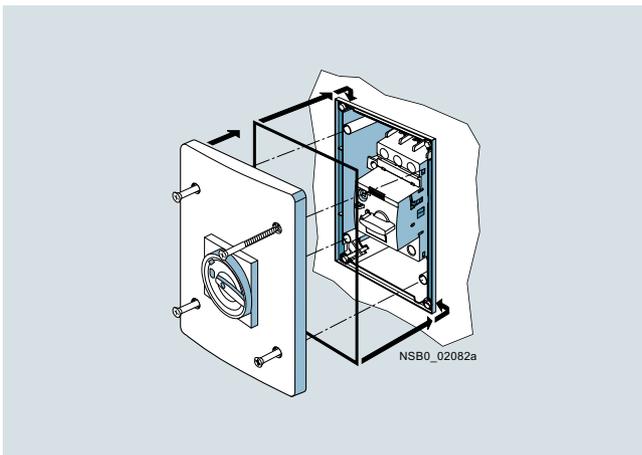
For stand-alone installation of 3RV20 to 3RV24 motor starter protectors size S00 ($I_{n\max} = 16\text{ A}$), S0 ($I_{n\max} = 32\text{ A}$) and S2 ($I_{n\max} = 65\text{ A}$), molded-plastic and cast aluminum enclosures for surface mounting and molded-plastic enclosures for flush mounting are available in various dimensions.

When installed in a molded-plastic enclosure, the motor starter protectors have a rated operational voltage U_e of 500 V.

The enclosures for surface mounting have the degree of protection IP55; the enclosures for flush mounting also comply with the degree of protection IP55 at the front (the flush-mounted section complies with IP20).



Enclosures for surface mounting



Enclosures for flush mounting (only for sizes S00 and S0)

All enclosures are equipped with N and PE terminals. There are two knock-out cable entries for cable glands at the top and two at the bottom; also on the rear corresponding cable entries are scored. There is a knockout on the top of the enclosure for indicator lights that are available as accessories.

The narrow enclosure can accommodate a motor starter protector without accessories, with transverse auxiliary switch and with lateral auxiliary switch. There is no provision for installing a motor starter protector with a signaling switch.

With size S00 to S2 circuit breakers the molded-plastic enclosures are equipped with a rotary operating mechanism.

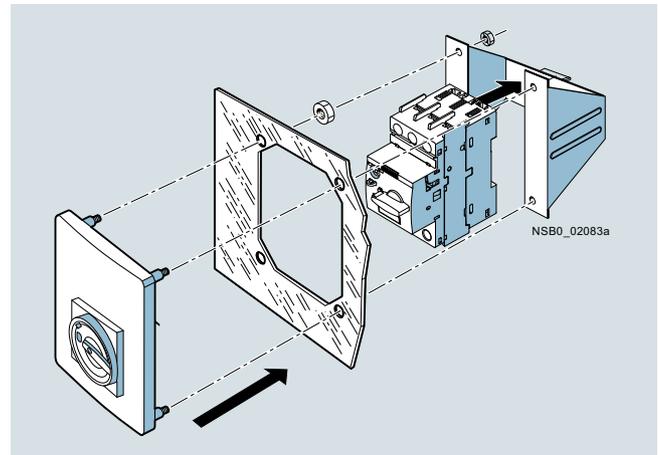
The enclosures can be supplied with either a black rotary operating mechanism or with an EMERGENCY STOP rotary operating mechanism with a red/yellow knob.

In the OFF setting, all rotary operating mechanisms can be locked with up to three padlocks. The enclosures are not suitable for 3RV1011 motor starter protectors.

Front plates

Motor starter protectors are frequently required to be actuated in any enclosure. Front plates equipped with a rotary operating mechanism for 3RV20 to 3RV24 motor starter protectors sizes S00 to S3 are available for this purpose.

A holder for the motor starter protectors sizes S00 and S0, into which the motor starter protectors can be snapped, is available for the front plates. It is not possible to use a signaling switch or 4-pole auxiliary switch. The front plates are not suitable for 3RV1011 motor starter protectors.



Front plate (including holder) for sizes S00 and S0

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Enclosures and front plates

Selection and ordering data

Version	Degree of protection	Integrated terminals	Width mm	For 3RV20 to 3RV24 motor starter protectors Size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Molded-plastic enclosures for surface mounting¹⁾											
 3RV1933-1DA00	With rotary operating mechanism, lockable in 0 position	IP55	N and PE	54	S00 ⁵⁾ , S0	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch)							
				72	S00 ⁵⁾ , S0						
				82	S2	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
 3RV1923-1FA00, 3RV1933-1GA00	With EMERGENCY STOP rotary operating mechanism, lockable in 0 position	IP55	N and PE	54	S00 ⁵⁾ , S0	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch)							
				72	S00 ⁵⁾ , S0	▶		1	1 unit	41E	
				82	S2	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
Cast aluminum enclosures for surface mounting¹⁾											
 3RV1923-1DA01	With rotary operating mechanism, lockable in 0 position	IP65	PE ³⁾	72	S00 ⁵⁾ , S0	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
	With EMERGENCY STOP rotary operating mechanism, lockable in 0 position			72	S00 ⁵⁾ , S0	▶		1	1 unit	41E	
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
Molded-plastic enclosures for flush mounting⁴⁾											
 3RV1923-2DA00	With rotary operating mechanism, lockable in 0 position	IP55 (front side)	N and PE	72	S00 ⁵⁾ , S0	2	▶		1	1 unit	41E
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
	With EMERGENCY STOP rotary operating mechanism, lockable in 0 position			72	S00 ⁵⁾ , S0	2	▶		1	1 unit	41E
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
 3RV1923-2DA00	With actuator diaphragm	IP55 (front side)	N and PE	72	S00 ⁶⁾	2	▶		1	1 unit	41E
				(for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)							
Molded-plastic enclosures for surface mounting											
 3RV1913-1CA00	With actuator diaphragm	IP55	N and PE	85	S00 ⁶⁾	▶		1	1 unit	41E	
				105	S00 ⁶⁾	▶		1	1 unit	41E	

¹⁾ The rear cable glands cannot be used on 3RV2.11-...2. and 3RV2.21-...2. devices with spring-loaded terminals.

²⁾ Only valid for lateral auxiliary switches with two auxiliary contacts.

³⁾ If required, an additional N terminal can be mounted (e.g. 8WA1011-1BG11).

⁴⁾ Not suitable for 3RV2.11-...2. and 3RV2.21-...2. devices with spring-loaded terminals.

⁵⁾ Not for 3RV1011 motor starter protectors.

⁶⁾ Only for 3RV1011 motor starter protectors.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > Enclosures and front plates

Version	Degree of protection	For 3RV20 to 3RV24 motor starter protectors	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		Size	d					
Front plates¹⁾								
 <p>3RV1923-4B + 3RV1923-4G</p>	Molded-plastic front plates with rotary operating mechanism, lockable in 0 position For actuation of 3RV2 motor starter protectors in any enclosure	IP55 (front side)	S00 ¹⁾ , up to S3	▶	3RV1923-4B	1	1 unit	41E
	Molded-plastic front plates with EMERGENCY STOP rotary operating mechanism, red/yellow, lockable in 0 position EMERGENCY STOP actuation of 3RV2 motor starter protectors in any enclosure	IP55 (front side)	S00 ¹⁾ , up to S3	▶	3RV1923-4E	1	1 unit	41E
	Holders for front plates Holder is mounted on front plate, motor starter protector with and without accessories is snapped in.	--	S00 ¹⁾ , S0	▶	3RV1923-4G	1	1 unit	41E

¹⁾ Not for 3RV1011 motor starter protectors.

²⁾ It is not possible to use a signaling switch or 4-pole auxiliary switch with front plates.

Version	Rated control supply voltage U_s	For 3RV20 to 3RV24 motor starter protectors	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	V	Size	d					
Indicator lights								
 <p>3RV1903-5B</p>	Indicator lights For all enclosures and front plates	110 ... 120	S00 to S3	5	3RV1903-5B	1	1 unit	41E
		220 ... 240		2	3RV1903-5C	1	1 unit	41E
	<ul style="list-style-type: none"> With LED lamp for versions 110 ... 120 V, with glow lamp for versions 220 ... 500 V 	380 ... 415		2	3RV1903-5E	1	1 unit	41E
		480 ... 500		5	3RV1903-5G	1	1 unit	41E
	<ul style="list-style-type: none"> With colored lenses red, green, yellow-orange and clear 							

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > 3RV29 infeed system

Overview

The 3RV29 infeed system is a convenient means of energy supply and distribution for a group of several motor starter protectors or complete load feeders with screw or spring-loaded terminals in sizes S00 and S0. Motor starter protectors or load feeders with a rated current of maximum 32 A each can be used. 3RV21 motor starter protectors/circuit breakers cannot be used in this system.

The system is based on a basic module complete with a lateral incoming unit (three-phase busbar with infeed). This infeed with spring-loaded terminals is mounted on the right or left, depending on the version, and can be supplied with a maximum conductor cross-section of 25 mm² (with end sleeve). A basic module has two sockets onto each of which a motor starter protector can be snapped.

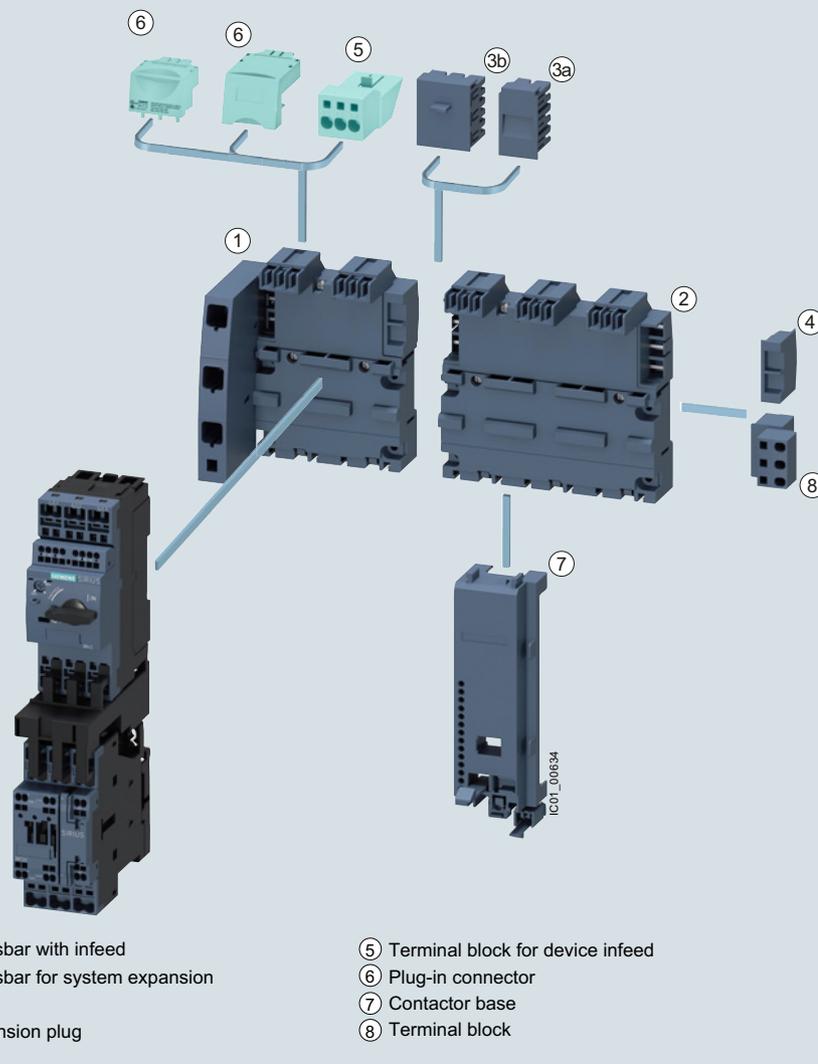
Expansion modules (three-phase busbars for system expansion) are available for extending the system. The individual modules are connected through an expansion plug.

The electrical connection between the three-phase busbars and the motor starter protectors is implemented through plug-in connectors. The complete system can be mounted on a TH 35

standard mounting rail to IEC 60715, and can be expanded as required up to a maximum current carrying capacity of 63 A.

The system is mounted extremely quickly and easily thanks to the simple plug-in terminals. Thanks to the lateral infeed, the system also saves space in the control cabinet. The additional height required for the infeed unit is only 30 mm. The alternative infeed possibilities on each side offer a high degree of flexibility for configuring the control cabinet: Infeed on left-hand or right-hand side as well as infeed on one side and outfeed on the other side to supply further loads are all possible. A terminal block with spring-loaded terminals in combination with a standard mounting rail enables the integration of not only SIRIUS motor starter protectors but also single-phase, two-phase and three-phase components such as 5SY miniature circuit breakers or SIRIUS relay components.

The 3RV29 infeed system is approved in accordance with IEC to 500 V. It is also UL-approved and authorized for "Self-Protected Combination Motor Controllers" (Type E starter) as well as for Type F starter (Type E starter + contactor).



SIRIUS 3RV29 infeed system

① **Three-phase busbars with infeed**

A three-phase busbar with infeed unit is required for connecting the incoming supply. These modules comprise one infeed module and two sockets which each accept one motor starter protector. A choice of two versions with infeed on the left or right is available. The infeed is connected to spring-loaded terminals. They permit an infeed with conductor cross-sections of up to 25 mm² with end sleeve. An end cover is supplied with each module.

② **Three-phase busbars for system expansion**

The three-phase busbars for system expansion support expansion of the system. There is a choice of modules with two or three sockets. The system can be expanded as required up to a maximum current carrying capacity of 63 A. An expansion plug is supplied with each module.

③a **Expansion plug**

The expansion plug is used for electrical connection of adjacent three-phase busbars. The current carrying capacity of this plug equals 63 A. One expansion plug is supplied with each three-phase busbar for system expansion. Additional expansion plugs are therefore only required as spare parts.

③b **Extra-wide expansion plug**

The wide expansion plug makes the electrical connection between two three-phase busbars, thus performing the same function as the 3RV2917-5BA00 expansion plug; the electrical characteristics (e.g. a current carrying capacity of 63 A) are identical.

The 3RV2917-5E expansion plug is 10 mm wider than the 3RV2917-5BA00 expansion plug, hence in the plugged state there is a distance of 10 mm between the connected three-phase busbars. This distance can be used to lay the auxiliary current and control current wiring ("wiring duct"). The motor starter protector and contactor can be wired from underneath, which means that the complete cable duct above the system can be omitted.

④ **End cover**

The end cover is used to cover the three-phase busbar at the open end of the system. This cover is therefore only required once for each system. An end cover is supplied with each three-phase busbar system with infeed. Further end covers are therefore only required as spare parts.

⑤ **Terminal block for device infeed**

A new addition to the system is a connector for outfeeding to a device slot within a module. This offers the option not only of connecting three-phase loads to the system, but also of integrating single-phase loads into the infeed system.

⑥ **Plug-in connector**

The plug-in connector is used for the electrical connection between the three-phase busbar and the 3RV2 or 3RV1011 motor starter protector. These plug-in connectors are available for screw or spring-loaded terminals.

⑦ **Contactor base**

Load feeders can be assembled in the system using the S00 and S0 contactor base. The contactor bases are suitable for contactors sizes S00 and S0 with spring-loaded and screw terminals and are simply snapped onto the three-phase busbars. Direct-on-line starters and reversing starters are possible. One contactor base is required for direct-on-line starters and two are required for reversing starters.

To assemble load feeders for reversing starters, the contactor bases can be arranged alongside each other (90 mm overall width). In this case the mechanical interlocking of the contactors is possible. The S0 contactor bases are also suitable for soft starters size S00 and S0 with screw terminal.

The infeed system is designed for mounting onto a TH 35 standard mounting rail with 7.5 mm overall depth. This standard mounting rail gives the contactor base a stable mounting surface to sit on. If standard mounting rails with a depth of 15 mm are used, the spacer connected to the bottom of the contactor base must be knocked out and plugged into the standard mounting rail mating piece, which is also located on the underside. Then the contactor base also has a stable mounting surface. When standard mounting rails with a depth of 7.5 mm are used, the spacer has no function and can be removed.

The link modules are used for direct start load feeders, in which case the use of a contactor base is not absolutely necessary. Motor starter protector and contactor assemblies can then be directly snapped onto the sockets of the three-phase busbars. For feeders of sizes S00 and S0, the corresponding 3RA1921-1...., 3RA2911-2...., 3RA2921-1.... or 3RA2921-2.... link modules should generally be used.

⑧ **Terminal block**

The 3RV2917-5D terminal block enables the integration of not only SIRIUS motor starter protectors but also single-phase, two-phase and three-phase components. The three phases can be fed out of the system using the terminal block; which means that single-phase loads can also be integrated in the system. The terminal block is plugged into the slot of the expansion plug and thus enables outfeeding from the middle or end of the infeed system. The terminal block can be rotated through 180° and be locked to the support modules of the infeed system. In addition, the 45 mm wide TH 35 3RV1917-7B standard mounting rail option for screwing onto the support plate facilitates plugging the single-phase, two-phase and three-phase components onto the infeed system.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > 3RV29 infeed system

Technical specifications

More information

Equipment Manual, see
<https://support.industry.siemens.com/cs/ww/en/view/60279172>

General data

Type					3RV29.7
Size					S00, S0
Standards					
• IEC 60947-2					✓
• IEC 60947-4-1					✓
• UL 508/UL 60947-4-1					✓
Rated current I_n	A				63
Permissible rated current at inside temperature of control cabinet					
Motor starter protectors	Size	Rated current	Inside temperature of control cabinet		
• 3RV2.11/3RV1011	S00	... 14 A	60 °C	%	100
		> 14 ... 16 A	40 °C	%	100
			60 °C	%	87
• 3RV2.21	S0	... 16 A	60 °C	%	100
		> 16 ... 25 A	40 °C	%	100
			60 °C	%	87
		> 25 ... 32 A	40 °C	%	87
Permissible ambient temperature					
• Storage/transport	°C				-50 ... +80
• Operation	°C				-20 ... +60
Rated operational voltage U_e					
• Acc. to IEC	10% overvoltage		V AC	500	
	5% overvoltage		V AC	525	
• Acc. to UL/CSA			V AC	600	
Rated frequency	Hz				50/60
Rated impulse withstand voltage U_{imp}	kV				6
Short-circuit strength	corresponds to the mounted motor starter protector or load feeder				
Degree of protection acc. to IEC 60529	IP20 (In the terminal compartment of the infeed without connected IP00 conductor)				
Touch protection acc. to IEC 60529	Finger-safe				

✓ Has this function

-- Does not have this function

Conductor cross-sections

Type		Three-phase busbar with infeed 3RV2917-1A, 3RV2917-1E	Terminal block 3RV2917-5D	Terminal block for device infeed 3RV2917-5FA00
Conductor cross-sections (min./max.)				
• Solid or stranded	mm ²	4 ... 25	1.5 ... 6	1 ... 10
• Finely stranded with end sleeve	mm ²	4 ... 25	1.5 ... 4	1 ... 6
• Finely stranded without end sleeve	mm ²	6 ... 25	1.5 ... 6	--
• AWG cables	AWG	10 ... 3	15 ... 10	18 ... 8
-- No				

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > 3RV29 infeed system

Selection and ordering data

Type	Version	For 3RV20, 3RV23, 3RV24, 3RV27, 3RV28, 3RV1011 motor starter protectors	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
------	---------	---	----	-------------	--------------	-------------------	-----	----

Three-phase busbars with infeed



3RV2917-1A

Three-phase busbars with infeed
Incl. 3RV2917-6A end cover

For 2 motor starter protectors with screw or spring-loaded terminals

- With infeed on the left
- With infeed on the right

S00, S0	2
S00, S0	2

3RV2917-1A
3RV2917-1E

1	1 unit	41E
1	1 unit	41E

Three-phase busbars for system expansion



3RV2917-4A

Three-phase busbars
Incl. 3RV2917-5BA00 expansion plug

For motor starter protectors with screw or spring-loaded terminals

- For 2 motor starter protectors
- For 3 motor starter protectors

S00, S0	2
S00, S0	2

3RV2917-4A
3RV2917-4B

1	1 unit	41E
1	1 unit	41E

Plug-in connectors



3RV2917-5AA00

Plug-in connectors
To make contact with the 3RV2 motor starter protectors

- For spring-loaded terminals

- Single-unit packaging	S00 ¹⁾	2
	S0 ²⁾	2
- Multi-unit packaging	S00 ¹⁾	2
	S0 ²⁾	2

Spring-loaded terminals



1	1 unit	41E
1	1 unit	41E
1	10 units	41E
1	10 units	41E



3RV2917-5CA00

- For screw terminals

- Single-unit packaging	S00 ¹⁾	2
	S0 ²⁾	▶
- Multi-unit packaging	S00 ¹⁾	2
	S0 ²⁾	▶

Screw terminals



1	1 unit	41E
1	1 unit	41E
1	10 units	41E
1	10 units	41E

Plug-in connectors
To make contact with the 3RV1011 motor starter protectors

- For screw terminals

- Single-unit packaging	S00	5
- Multi-unit packaging	S00	5

3RV1917-5CA00
3RV1917-5C

1	1 unit	41E
1	10 units	41E

¹⁾ $I > 14$ A, please note derating.

²⁾ $I > 16$ A, please note derating.

Type	Version	For contactors	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
------	---------	----------------	----	-------------	--------------	-------------------	-----	----

Contactor bases



3RV2927-7AA00

Contactor bases
For mounting direct-on-line or reversing starters

Single-unit packaging	S00 ¹⁾	2
	S00 ¹⁾ , S0	2

3RV2917-7AA00
3RV2927-7AA00

1	1 unit	41E
1	1 unit	41E

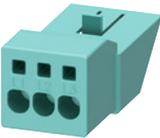
¹⁾ Not for 3RV1011 motor starter protectors.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories > 3RV29 infeed system

Type	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Terminal blocks							
	Terminal blocks For integration of single-phase, two-phase and three-phase components	Single-unit packaging	2	3RV2917-5D	1	1 unit	41E
TH 35 standard mounting rails, width 45 mm							
	TH 35 standard mounting rails Acc. to IEC 60715, width 45 mm For mounting onto three-phase busbars	Single-unit packaging	2	3RV1917-7B	1	1 unit	41E
Extra-wide expansion plugs							
	Extra-wide expansion plugs As accessory	Single-unit packaging	2	3RV2917-5E	1	1 unit	41E
Expansion plugs							
	Expansion plugs ¹⁾ As spare part	Single-unit packaging	2	3RV2917-5BA00	1	1 unit	41E
End covers							
	End covers ²⁾ As spare part	Multi-unit packaging	2	3RV2917-6A	100	10 units	41E
Terminal blocks for device infeed							
	Terminal blocks for device infeed	Single-unit packaging	2	3RV2917-5FA00	1	1 unit	41E

¹⁾ The expansion plug is included in the scope of supply of the 3RV2917-4, three-phase busbars for system expansion.

²⁾ The end cover is included in the scope of supply of the 3RV2917-1, three-phase busbars with infeed system.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Motor Starter Protectors/Circuit Breakers

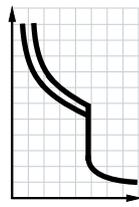
For fuse monitoring

Technical specifications

See pages 7/10, 7/12, 7/15, 7/20, 7/21 and 7/24

Selection and ordering data

Without auxiliary switches



Rated current	Thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n		$I >$	I_{cu}	d	Article No.	Price per PU		
A	A	A	kA					

Size S00



3RV1611-0BD10

0.2	0.2	1.2	100	▶	3RV1611-0BD10		1	1 unit	41E
-----	-----	-----	-----	---	----------------------	--	---	--------	-----

Note:

The auxiliary switch required for signaling must be ordered separately.

Accessories

Version	Contacts	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
		d	Article No.	Price per PU		

Mountable auxiliary switches (essential accessories)



3RV2901-1E

Transverse auxiliary switches With screw terminals, mountable on the front	1 NO + 1 NC	▶	3RV2901-1E		1	1 unit	41E
--	-------------	---	-------------------	--	---	--------	-----



3RV2901-1A

Lateral auxiliary switches With screw terminals, mountable on the left	1 NO + 1 NC	▶	3RV2901-1A		1	1 unit	41E
--	-------------	---	-------------------	--	---	--------	-----

Additional auxiliary switches and other accessories, see "Accessories", page 7/43 onwards.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Motor Starter Protectors/Circuit Breakers

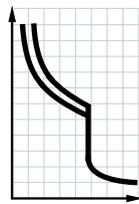
For distance protection

Technical specifications

See page 7/25

Selection and ordering data

Voltage transformer circuit breakers with transverse auxiliary switches (1 CO)



Rated current	Thermal overload release	Instantaneous electronic release	Auxiliary switch integrated in the motor starter protector, transverse	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n		$I >$		I_{cu}	d	Article No.	Price per PU		
A	A	A		kA					

Size S00



3RV1611-1.G14

1.4	1.4	6	1 CO	50	5	3RV1611-1AG14	1	1 unit	41E
2.5	2.5	10.5	1 CO	50	▶	3RV1611-1CG14	1	1 unit	41E
3	3	20	1 CO	50	▶	3RV1611-1DG14	1	1 unit	41E

Accessories

Version	Contacts	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
		d	Article No.	Price per PU		

Mountable auxiliary switches for other signaling purposes



3RV2901-1A

Lateral auxiliary switches With screw terminals, mountable on the left	1 NO + 1 NC	▶	3RV2901-1A	1	1 unit	41E
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Additional auxiliary switches and other accessories, see "Accessories", page 7/43 onwards.

Protection Equipment

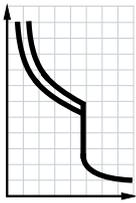
Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Motor Starter Protectors/Circuit Breakers

For motor protection

Selection and ordering data

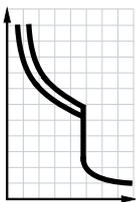
CLASS 10, without auxiliary switches

	Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
	I_n				I_{cu}		Article No.			
	A	kW	A		kA	d				
Size S00										
 3RV1011-OJA10	0.16	0.04	0.11 ... 0.16	2.1	100	5	3RV1011-0AA10	1	1 unit	41E
	0.2	0.06	0.14 ... 0.2	2.6	100	5	3RV1011-0BA10	1	1 unit	41E
	0.25	0.06	0.18 ... 0.25	3.3	100	5	3RV1011-0CA10	1	1 unit	41E
	0.32	0.09	0.22 ... 0.32	4.2	100	5	3RV1011-0DA10	1	1 unit	41E
	0.4	0.09	0.28 ... 0.4	5.2	100	5	3RV1011-0EA10	1	1 unit	41E
	0.5	0.12	0.35 ... 0.5	6.5	100	5	3RV1011-0FA10	1	1 unit	41E
	0.63	0.18	0.45 ... 0.63	8.2	100	5	3RV1011-0GA10	1	1 unit	41E
	0.8	0.18	0.55 ... 0.8	10	100	5	3RV1011-0HA10	1	1 unit	41E
	1	0.25	0.7 ... 1	13	100	5	3RV1011-0JA10	1	1 unit	41E
	1.25	0.37	0.9 ... 1.25	16	100	5	3RV1011-0KA10	1	1 unit	41E
	1.6	0.55	1.1 ... 1.6	21	100	5	3RV1011-1AA10	1	1 unit	41E
	2	0.75	1.4 ... 2	26	100	5	3RV1011-1BA10	1	1 unit	41E
	2.5	0.75	1.8 ... 2.5	33	100	5	3RV1011-1CA10	1	1 unit	41E
	3.2	1.1	2.2 ... 3.2	42	100	5	3RV1011-1DA10	1	1 unit	41E
	4	1.5	2.8 ... 4	52	100	5	3RV1011-1EA10	1	1 unit	41E
	5	1.5	3.5 ... 5	65	100	5	3RV1011-1FA10	1	1 unit	41E
6.3	2.2	4.5 ... 6.3	82	100	5	3RV1011-1GA10	1	1 unit	41E	
8	3	5.5 ... 8	104	50	5	3RV1011-1HA10	1	1 unit	41E	
10	4	7 ... 10	130	50	5	3RV1011-1JA10	1	1 unit	41E	
12	5.5	9 ... 12	156	50	5	3RV1011-1KA10	1	1 unit	41E	

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

The accessories of 3RV2 motor starter protectors/circuit breakers can be used with exceptions, [see page 7/43 onwards](#).

CLASS 10, with transverse auxiliary switch (1 NO + 1 NC)

	Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
	I_n				I_{cu}		Article No.			
	A	kW	A		kA	d				
Size S00										
 3RV1011-0KA15 with integrated transverse auxiliary switch	0.16	0.04	0.11 ... 0.16	2.1	100	5	3RV1011-0AA15	1	1 unit	41E
	0.2	0.06	0.14 ... 0.2	2.6	100	5	3RV1011-0BA15	1	1 unit	41E
	0.25	0.06	0.18 ... 0.25	3.3	100	5	3RV1011-0CA15	1	1 unit	41E
	0.32	0.09	0.22 ... 0.32	4.2	100	5	3RV1011-0DA15	1	1 unit	41E
	0.4	0.09	0.28 ... 0.4	5.2	100	5	3RV1011-0EA15	1	1 unit	41E
	0.5	0.12	0.35 ... 0.5	6.5	100	5	3RV1011-0FA15	1	1 unit	41E
	0.63	0.18	0.45 ... 0.63	8.2	100	5	3RV1011-0GA15	1	1 unit	41E
	0.8	0.18	0.55 ... 0.8	10	100	5	3RV1011-0HA15	1	1 unit	41E
	1	0.25	0.7 ... 1	13	100	5	3RV1011-0JA15	1	1 unit	41E
	1.25	0.37	0.9 ... 1.25	16	100	5	3RV1011-0KA15	1	1 unit	41E
	1.6	0.55	1.1 ... 1.6	21	100	5	3RV1011-1AA15	1	1 unit	41E
	2	0.75	1.4 ... 2	26	100	5	3RV1011-1BA15	1	1 unit	41E
	2.5	0.75	1.8 ... 2.5	33	100	5	3RV1011-1CA15	1	1 unit	41E
	3.2	1.1	2.2 ... 3.2	42	100	5	3RV1011-1DA15	1	1 unit	41E
	4	1.5	2.8 ... 4	52	100	5	3RV1011-1EA15	1	1 unit	41E
	5	1.5	3.5 ... 5	65	100	5	3RV1011-1FA15	1	1 unit	41E
6.3	2.2	4.5 ... 6.3	82	100	5	3RV1011-1GA15	1	1 unit	41E	
8	3	5.5 ... 8	104	50	5	3RV1011-1HA15	1	1 unit	41E	
10	4	7 ... 10	130	50	5	3RV1011-1JA15	1	1 unit	41E	
12	5.5	9 ... 12	156	50	5	3RV1011-1KA15	1	1 unit	41E	

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

The accessories of 3RV2 motor starter protectors/circuit breakers can be used with exceptions, [see page 7/43 onwards](#).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

General data

Overview

More information

Homepage, see www.siemens.com/sirius-circuit-breaker



SIRIUS 3RV1063-7AL10 molded case motor starter protector

The 3RV10 and 3RV13 molded case motor starter protectors for up to 800 A are compact, current-limiting motor starter protectors which can be used above all in motor feeders for special voltages of 440 V, 480 V and 690 V. They are used for switching and protecting three-phase motors and other loads with rated currents up to 800 A.

Note:

For motor feeders above 100 A and at 400 V and 500 V, the 3VL molded case motor starter protectors must be used, see [Catalog LV 10](#).

Type of construction

The molded case motor starter protectors are available in three widths:

- 3RV1.6. – width 105 mm, max. rated current 250 A, at 690 V AC suitable for three-phase motors up to 160 kW
- 3RV1.7. – width 140 mm, max. rated current 630 A, at 690 V AC suitable for three-phase motors up to 315 kW
- 3RV1.83 – width 210 mm, max. rated current 800 A, at 690 V AC suitable for three-phase motors up to 500 kW

The 3RV1 molded case motor starter protectors for up to 800 A can be mounted in horizontal, vertical or lying arrangement directly on a mounting plate or mounting rail. Their rated data are not adversely affected as a result.

The phase barriers for better insulation between the phases are included in the scope of supply, and it is essential to use them.

The motor starter protectors can be supplied through top and bottom terminals without impairing their function, enabling them to be installed in any type of switchgear without any further steps.

Connection methods

The 3RV1 molded case motor starter protectors up to 800 A are suitable solely for screw terminals.



Screw terminals

The terminals are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Article No. scheme

Product versions	Article number
Molded case motor starter protectors	3RV1 □ □ □ - □ □ □ □ - □ □ □ □
Type of motor starter protector/circuit breaker	□
Rated current	□
Breaking capacity	□
Setting range for overload release	□ □
Trip class (CLASS)	□
Connection methods	□
With or without auxiliary switch	□
Special versions	□ □ □ □
Example	3RV1 0 6 3 - 7 A L 1 0

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

General data

Benefits

- High short-circuit breaking capacity in the feeder
- Optimum usability in motor feeders for the special voltages 440 V, 480 V and 690 V
- Compact design
- The releases are available in electronic versions (100 A to 800 A).
- Available for motor or starter protection (short-circuit protection alone)

Application

Operating conditions

The 3RV1 molded case motor starter protectors for up to 800 A can be operated at ambient temperatures between -25 °C and +70 °C. They can be used according to IEC 60721-2-1 in the most difficult environmental conditions with a hot and damp climate.

Since operational currents, starting currents and current peaks are different even for motors with identical power ratings due to the inrush current, the motor ratings in the selection tables are only guide values. The specific rated and start up data of the motor to be protected is always paramount to the choice of the most suitable molded case motor starter protectors.

The 3RV1 molded case motor starter protectors up to 800 A have not been tested for use with frequency converters. The possibility of premature tripping in such applications cannot therefore be ruled out.

Possible uses

The 3RV1 molded case motor starter protectors for up to 800 A are suitable as switching and protection devices for motors. The following versions are available:

- For motor protection; the overload and short-circuit releases are designed for optimized protection and direct-on-line starting of three-phase AC squirrel-cage motors. The motor starter protectors have an electronic release which not only provides short-circuit and overload protection but is also sensitive to phase failure and phase asymmetry and offers protection in the event of rotor blockage.
- For starter combinations; these molded case motor starter protectors are used for short-circuit protection in combinations of circuit breaker, motor contactor and overload relay. They are equipped with an electronic release (100 A to 800 A).

Standards and specifications

The electronic releases for motor protection comply with IEC 60947-4-1. Isolating features are also compliant with IEC 60947-2.

The 3RV1 molded case motor starter protectors comply in addition with IEC 60068-2-6 (shock and vibration strength) and are certified for the specifications of the major marine classification societies:

- RINA
- Det Norske Veritas
- Bureau Veritas
- Lloyds Register of Shipping
- Germanischer Lloyd
- American Bureau of Shipping

Use of SIRIUS protection devices in conjunction with IE3/IE4 motors

Note:

For the use of 3RV1 motor starter protectors/circuit breakers in conjunction with highly energy-efficient IE3/IE4 motors, please observe the information on dimensioning and configuring, [see Application Manual](#).

For more information, [see page 1/7](#).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

General data

Technical specifications

More information

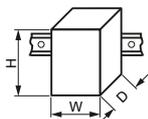
Reference Manual "Protection Equipment – Circuit Breakers · Molded Case Circuit Breakers", see <https://support.industry.siemens.com/cs/ww/en/view/35681461>

General data

Type

Dimensions

- W
- H
- D



		3RV1063	3RV1073	3RV1083	3RV1363	3RV1364	3RV1373	3RV1374	3RV1383	
Standard		IEC/EN 60947-2								
Motor protection		✓			--					
Starter combinations		--			✓					
Rated current I_n	A	160	400	630	250		400, 630		630, 800	
Number of poles		3								
Rated operational voltage U_e 50 ... 60 Hz AC	V	690								
Rated impulse withstand voltage U_{imp}	V	8								
Rated insulation voltage U_i	V	1 000			1 000					
Test voltage at industrial frequency for 1 min	V	3 500			3 500					
Rated ultimate short-circuit breaking capacity I_{cu}										
• At 220/230 V AC, 50 ... 60 Hz	kA	200			200					
• At 380/415 V AC, 50 ... 60 Hz	kA	120		100	120	200	120	200	100	
• At 440 V AC, 50 ... 60 Hz	kA	100		80	100	180	100	180	80	
• At 500 V AC, 50 ... 60 Hz	kA	85		65	85	150	85	150	65	
• At 690 V AC, 50 ... 60 Hz	kA	70		30	70	80	70	80	30	
Rated service short-circuit breaking capacity I_{cs} (% of I_{cu})										
• At 220/230 V AC, 50 ... 60 Hz	%	100		75	100				75	
• At 380/415 V AC, 50 ... 60 Hz	%	100		75	100				75	
• At 440 V AC, 50 ... 60 Hz	%	100		75	100				75	
• At 500 V AC, 50 ... 60 Hz	%	100		75	100		100 ^{1)/75²⁾}	100	75	
• At 690 V DC, 50 ... 60 Hz	%	100		75	100		100 ^{1)/50²⁾}	100	75	
Rated short-circuit making capacity (415 V)	kA	264		220	264	440	264	440	220	
Break time (415 V at I_{cu})	ms	5	6	7	5		6		7	
Category (IEC 60947-2)	A		B (400 A), A (630 A)	B	A		B (400 A), A (630 A)		B	
Isolating features		✓								
Trip class CLASS		10A, 10, 20, 30			--					
Releases										
• Electronic (motor protection)		✓			... ³⁾					
• Electronic (starter combinations)		--			✓					
Permissible ambient temperature										
• Operation	°C	-25 ... +70 ⁴⁾								
• Storage	°C	-40 ... +70								
Mechanical endurance										
• Operating cycles		20 000			20 000					
• Operating cycles per hour		240	120		240		120			
Electrical endurance										
• Operating cycles		8 000	7 000	5 000	8 000		7 000		5 000	
• Operating cycles per hour (415 V AC)		120	60		120		60			

✓ Has this function

-- Does not have this function

¹⁾ Value applies for 3RV1373-7GN10 molded case motor starter protectors.

²⁾ Value applies for 3RV1373-7JN10 molded case motor starter protectors.

³⁾ For overload protection of the motors, appropriate overload relays must be used.

⁴⁾ From 50 °C, derating applies in some cases.

Protection Equipment

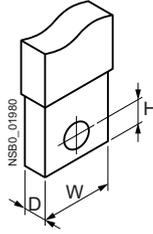
Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

General data

Main circuit terminals

Type	3RV1.6.	3RV1.7.	3RV1083-7JL10, 3RV1383-7JN10	3RV1383-7KN10
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Terminal dimensions**Front-accessible standard terminals****Busbars/cable lug**

Number	Unit(s)	11		2	
Dimensions					
• W	mm	25	35	40	50
• D	mm	8	10	5	
• H	mm	9.5	11	12	
• Lock hasp diameter	mm	8.5	10.5	7	

Front-extended terminals**Busbars**

Number	Unit(s)	1	2		
Dimensions					
• W	mm	20	30	40	50
• D	mm	10	7	5	5
• Lock hasp diameter	mm	10	11		14

Cable lug

Number	Unit(s)	1	2		
Dimensions					
• W	mm	20	30	40	50
• Lock hasp diameter	mm	10	11		14

Front-extended cable terminals for copper cable**Busbars, flexible**

Number	Unit(s)	1		--	
Dimensions W x D x N					
• W	mm	15.5	24	--	
• D	mm	0.8	1	--	
• N (= number of laminations)	mm	10		--	

Cable lug, flexible

Number	Unit(s)	1 or 2		--	
Dimensions					
• For 1 unit	mm ²	2.5 ... 120	16 ... 240	--	
• For 2 units	mm ²	2.5 ... 95	16 ... 150	--	

Cable lug, rigid

Number	Unit(s)	1	1 or 2	--	
Dimensions					
• For 1 unit	mm ²	2.5 ... 185	16 ... 300	--	
• For 2 units (for outside mounting)	mm ²	--	120 ... 240	--	

Rear terminals**Busbars**

Number	Unit(s)	1	2		
Dimensions					
• W	mm	20	30	40	50
• D	mm	10	7	5	
• Lock hasp diameter	mm	8.5	11	14	

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

General data

Auxiliary switches

Type	3RV1991-1.A0	
Rated operational current I_e		
• At 250 V AC/DC		
- At AC-14 (utilization category according to IEC 60947-5-1)		
Control supply voltage 125 V	A	6
Control supply voltage 250 V	A	5
- At DC-13 (utilization category according to IEC 60947-5-1)		
Control supply voltage 125 V	A	0.3
Control supply voltage 250 V	A	0.15
• At 24 V DC		
- Supply voltage 24 V	mA	≥ 0.75
- Supply voltage 5 V	mA	≥ 1

Auxiliary releases

Molded case motor starter protectors	Power consumption during pick-up	
	3RV1.6., 3RV1.7., 3RV1.83	
Version	AC	DC
Undervoltage releases	3RV1982-1A.0	
• 24 ... 30 V AC/DC	6 VA	3 W
• 110 ... 127 V AC/110 ... 125 V DC	6 VA	3 W
• 220 ... 240 V AC/220 ... 250 V DC	6 VA	3 W
Opening times	ms ≤ 25	≤ 15
Shunt releases	3RV1982-1E.0	
• 24 ... 30 V AC/DC	150 VA	150 W
• 110 ... 127 V AC/110 ... 125 V DC	150 VA	150 W
• 220 ... 240 V AC/220 ... 250 V DC	150 VA	150 W
Opening times	ms 15	15

Protection Equipment

Motor Starter Protectors/Circuit Breakers

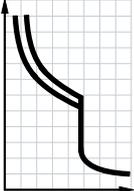
SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

IE3/IE4 ready

For motor protection

Selection and ordering data

CLASS 10A, 10, 20, 30; without auxiliary switch

	Rated current	Current setting of the inverse-time delayed overload release "L" I_R	Operating current of the instantaneous short-circuit release "I" I_i	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
	I_n			I_{cu}		Article No.	Price per PU		
	A	A	A	kA	d				

With electronic releases



3RV10.3-7.L10

TU = trip unit (release)

Further accessories can be ordered separately (see "Accessories", page 7/77 onwards).

Standard switching capacity, adjustable short-circuit and overload release, TU 4

100	40 ... 100	600 ... 1 300	120	20	3RV1063-7AL10	1	1 unit	41E
160	64 ... 160	960 ... 2 080	120	20	3RV1063-7CL10	1	1 unit	41E
200	80 ... 200	1 200 ... 2 600	120	20	3RV1063-7DL10	1	1 unit	41E
400	160 ... 400	2 400 ... 5 200	120	20	3RV1073-7GL10	1	1 unit	41E
630	252 ... 630	3 780 ... 8 190	100	20	3RV1083-7JL10	1	1 unit	41E

Protection Equipment

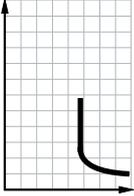
Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

For starter combinations **IE3/IE4 ready**

Selection and ordering data

Without auxiliary switches

	Rated current	Current setting of the inverse-time delayed overload release "L" I_R	Operating current of the instantaneous short-circuit release "I" I_I	Short-circuit breaking capacity at 400 V AC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
	I_n			I_{cu}		Article No.	Price per PU		
	A	A	A	kA	d				

With electronic releases



3RV13...-7.N10

Standard switching capacity, adjustable short-circuit release, TU 3

100	Without	100 ... 1 000	120	20	3RV1363-7AN10	1	1 unit	41E
160	Without	160 ... 1 600	120	20	3RV1363-7CN10	1	1 unit	41E
250	Without	250 ... 2 500	120	20	3RV1363-7EN10	1	1 unit	41E
400	Without	400 ... 4 000	120	20	3RV1373-7GN10	1	1 unit	41E
630	Without	630 ... 6 300	120	20	3RV1373-7JN10	1	1 unit	41E
630	Without	630 ... 6 300	100	20	3RV1383-7JN10	1	1 unit	41E
800	Without	800 ... 8 000	100	20	3RV1383-7KN10	1	1 unit	41E

Increased switching capacity, adjustable short-circuit release, TU 3

100	Without	100 ... 1 000	200	20	3RV1364-7AN10	1	1 unit	41E
160	Without	160 ... 1 600	200	20	3RV1364-7CN10	1	1 unit	41E
250	Without	250 ... 2 500	200	20	3RV1364-7EN10	1	1 unit	41E
400	Without	400 ... 4 000	200	20	3RV1374-7GN10	1	1 unit	41E

TU = trip unit (release)

Further accessories can be ordered separately (see "Accessories", page 7/77 onwards).

Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

Accessories > Mountable accessories

Selection and ordering data

Type	Version	For molded case motor starter protectors	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

Auxiliary switches



3RV1991-1AA0

Auxiliary switches For front mounting	1 signaling switch Off-On + 1 tripped signal (250 V AC/DC)	3RV1.6. ... 3RV1.83	20	3RV1991-1AA0	1	1 unit	41E
	3 signaling switches Off-On + 1 tripped signal (250 V AC/DC)		20	3RV1991-1BA0	1	1 unit	41E
	3 signaling switches Off-On + 1 tripped signal (24 V DC)		20	3RV1991-1CA0	1	1 unit	41E
	Connection cables for auxiliary switches	Length 2 m, 6-pole	3RV1.6. ... 3RV1.83	20	3RV1991-1FA0	1	1 unit

Type	Rated control supply voltage U_s		For molded case motor starter protectors	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
		AC	DC					
		50/60 Hz						
		V	V					
				d	Article No.	Price per PU		

Auxiliary releases



3RV1982-1AA0

Undervoltage releases For front mounting	24 ... 30	24 ... 30	3RV1.6. ...	20	3RV1982-1AA0	1	1 unit	41E
	110 ... 127	110 ... 125	...	20	3RV1982-1AD0	1	1 unit	41E
	220 ... 240	220 ... 250	3RV1.83	20	3RV1982-1AF0	1	1 unit	41E



3RV1982-1EA0

Shunt releases For front mounting	24 ... 30	24 ... 30	3RV1.6. ...	20	3RV1982-1EA0	1	1 unit	41E
	110 ... 127	110 ... 125	...	20	3RV1982-1ED0	1	1 unit	41E
	220 ... 240	220 ... 250	3RV1.83	20	3RV1982-1EF0	1	1 unit	41E

Connection cables for undervoltage and shunt releases	Length 2 m, 6-pole		3RV1.6. ... 3RV1.83	20	3RV1992-1FA0	1	1 unit	41E
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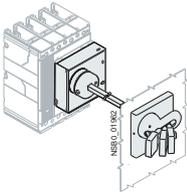
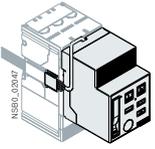
Protection Equipment

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Molded Case Motor Starter Protectors up to 800 A

Accessories > Rotary operating mechanisms, mounting accessories

Selection and ordering data

Version	For molded case motor starter protectors	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
			Article No.	Price per PU		
Rotary operating mechanisms						
	Lever-type rotary operating mechanisms	With adjustable distance, with lock/door interlocking (padlocks are not included in scope of supply)	3RV1.6., 3RV1.7.	20	3RV1976-0BA0	1 1 unit 41E
			3RV1.83	20	3RV1986-0BA0	1 1 unit 41E
3RV19.6-0BA0						
	Motorized operating mechanisms	With stored energy mechanism, 220 ... 250 V AC/DC	3RV1.6., 3RV1.7.	20	3RV1976-3AP3	1 1 unit 41E
			3RV1.83	20	3RV1986-3AP3	1 1 unit 41E
3RV19.6-3AP3						
Connections						
	Connections	Front-extended (1 set = 6 units)	3RV1.6.	20	3RV1965-1BA0	1 1 unit 41E
			3RV1.7.	20	3RV1975-1CA0	1 1 unit 41E
			3RV1.83-7J.10	20	3RV1985-1DA0	1 1 unit 41E
			3RV1.83-7KN10	20	3RV1985-1EA0	1 1 unit 41E
3RV1975-1CA0						
		Rear (1 set = 3 units)	3RV1.6.	20	3RV1965-3AA0	1 1 unit 41E
			3RV1.7.	20	3RV1975-3AA0	1 1 unit 41E
			3RV1.83	20	3RV1985-3AA0	1 1 unit 41E
3RV1965-3AA0						
	Cable terminals	Front-extended (1 set = 6 units)	3RV1.6.	20	3RV1965-2BA0	1 1 unit 41E
			3RV1.7.-7G.10	20	3RV1975-2CA0	1 1 unit 41E
			3RV1.73-7JN10	20	3RV1975-2DA0	1 1 unit 41E
3RV1975-2CA0						