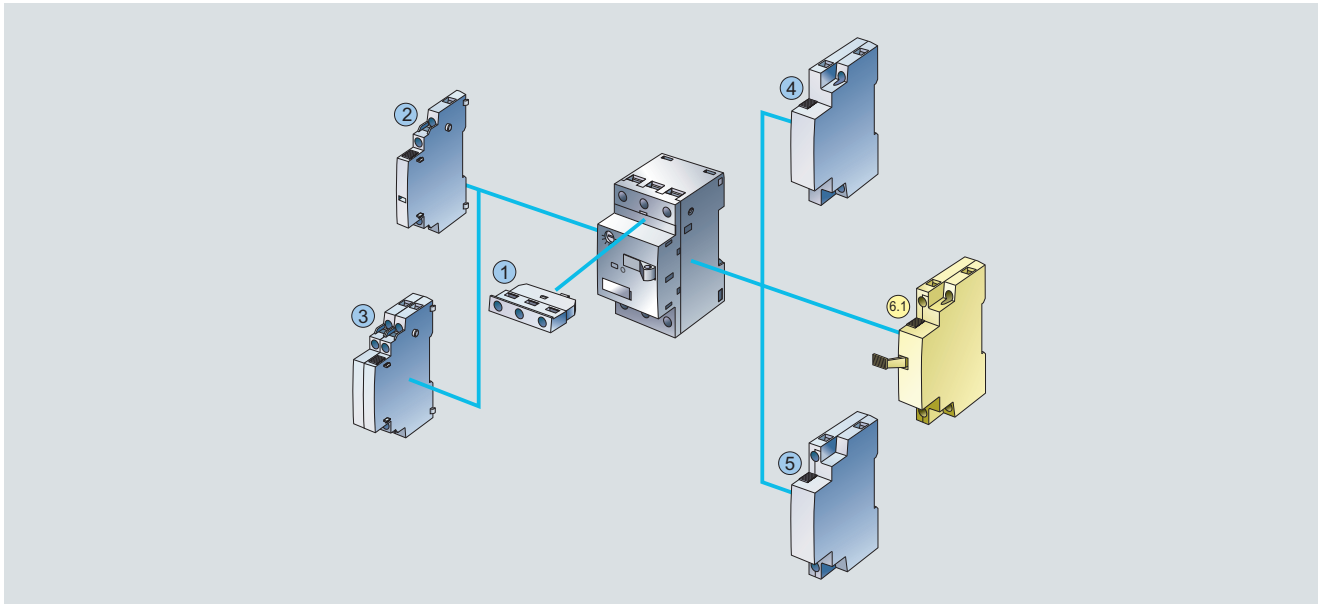


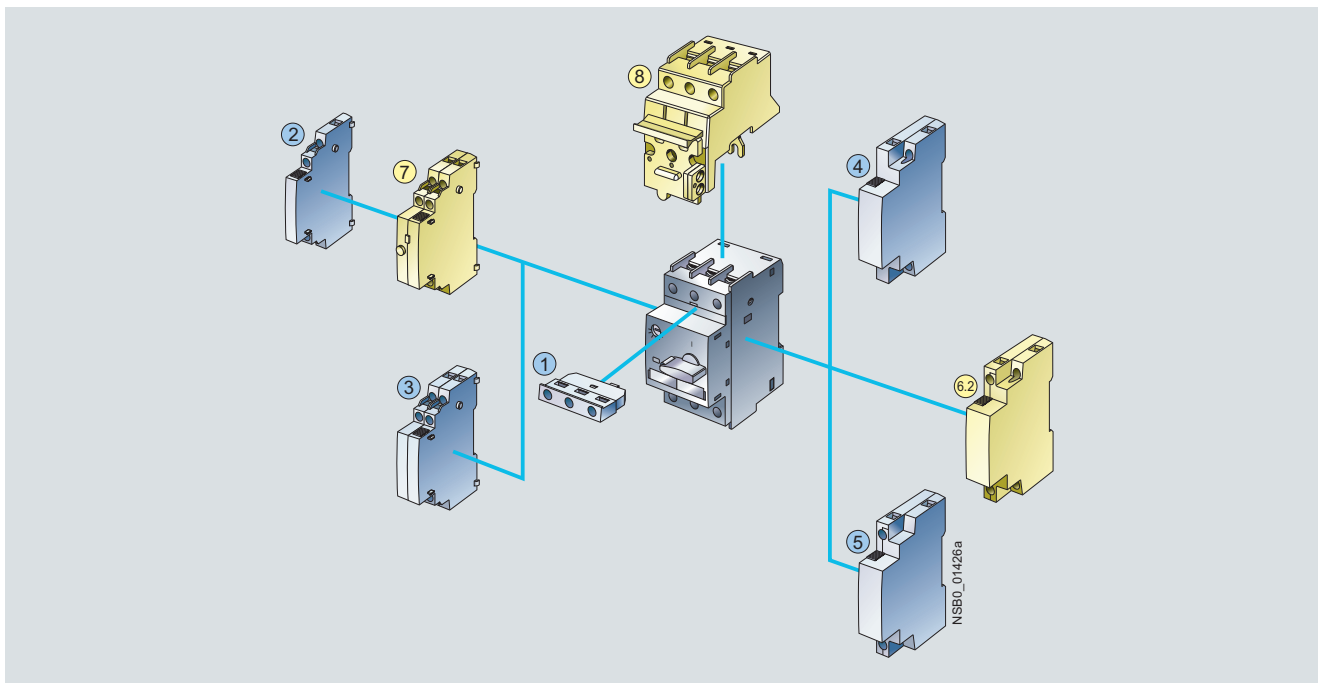
## Overview

The following illustrations show our 3RV1 motor starter protectors/circuit breakers with the accessories which can be mounted for the various sizes, [see also "Introduction" --> "Overview"](#).

Motor starter protectors/circuit breakers, size S00, with mountable accessories



Motor starter protectors/circuit breakers, sizes S0, S2 or S3, with mountable accessories



Mountable accessories for all sizes S00 ... S3

- ① Transverse auxiliary switch (can not be used with 3RV17 and 3RV18 circuit breakers)
- ② Lateral auxiliary switch with 2 contacts
- ③ Lateral auxiliary switch with 4 contacts
- ④ Shunt release
- ⑤ Undervoltage release

Mountable accessories

- ⑥.1 Undervoltage release with leading auxiliary contacts
- ⑥.2 Undervoltage release with leading auxiliary contacts
- ⑦ Alarm switch
- ⑧ Isolator module

For sizes

- S00
- S0 ... S3
- S0 ... S3
- S0 and S2

For accessories see page 5/17 onwards.

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## General data



Size S0 motor starter protector

3RV1 motor starter protectors are compact, current limiting motor starter protectors which are optimized for load feeders. The motor starter protectors are used for switching and protecting induction motors of up to 45 kW at 400 V AC and for other loads with rated currents of up to 100 A.

### Type of construction

The motor starter protectors are available in four sizes:

- Size S00 - width 45 mm, max. rated current 12 A, at 400 V AC suitable for induction motors up to 5.5 kW.
- Size S0 - width 45 mm, max. rated current 25 A, at 400 V AC suitable for induction motors up to 11 kW.
- Size S2 - width 55 mm, max. rated current 50 A, at 400 V AC suitable for induction motors up to 22 kW.
- Size S3 - width 70 mm, max. rated current 100 A, at 400 V AC suitable for induction motors up to 45 kW.

### Note



Screw terminals



Cage Clamp terminals

The terminals are indicated in the selection and ordering data by orange backgrounds.

### "Increased safety" type of protection EEx e according to ATEX directive 94/9/EC

The 3RV10 motor starter protectors are suitable for the overload protection of explosion-proof motors with "increased safety" type of protection EEx e; see Chapter 20 "Appendix" --> "Standards and approvals" --> "Type overview of approved devices for explosion-protected areas (ATEX Explosion Protection)".

## Application

### Operating conditions

3RV1 motor starter protectors are suitable for use in any climate. They are intended for use in enclosed rooms in which no severe operating conditions (such as dust, caustic vapors, hazardous gases) prevail. When installed in dusty and damp areas, suitable enclosures must be provided.

3RV1 motor starter protectors can optionally be fed from the top or from below.

The permissible ambient temperatures, the maximum switching capacities, the tripping currents and other boundary conditions can be found in the technical specifications and tripping characteristics, [see note on Technical Information on page 5/1](#).

3RV1 motor starter protectors are suitable for operation in IT systems (IT networks). In this case, the different short-circuit breaking capacity in the IT system must be taken into account.

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 motor starter protector. This also applies to motor starter protectors for transformer protection.

### Possible uses

The 3RV1 motor starter protectors can be used:

- For short-circuit protection
- For motor protection (also with overload relay function)
- For system protection
- For short-circuit protection for starter combinations
- For transformer protection
- As main control and EMERGENCY-STOP switches
- For fuse monitoring
- For use in IT systems (IT networks)
- For switching of DC currents
- As voltage transformer circuit breakers
- In areas subject to explosion hazard (ATEX)

More information can be found in "Configuration", [see note on Technical Information on page 5/1](#).

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

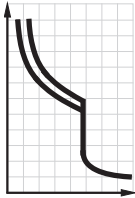
## Motor Starter Protectors

For motor protection

### Selection and ordering data

CLASS 10, without auxiliary switches

PU (UNIT, SET, M)=1  
 PS\* =1 unit  
 PG =101



3RV10 11-0JA10



3RV10 21-0JA10



3RV10 11-1EA20

Rated current	Suitable for induction motors <sup>1)</sup> with P	Setting range for thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
$I_n$				$I_{cu}$		Order No.	Price per PU		Order No.	Price per PU
A	kW	A	A	kA			kg			kg
<b>Size S00</b>										
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV10 11-0AA10	0.230	▶	3RV10 11-0AA20	0.233
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV10 11-0BA10	0.231	▶	3RV10 11-0BA20	0.234
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV10 11-0CA10	0.233	▶	3RV10 11-0CA20	0.234
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV10 11-0DA10	0.233	▶	3RV10 11-0DA20	0.234
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV10 11-0EA10	0.235	▶	3RV10 11-0EA20	0.236
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV10 11-0FA10	0.232	▶	3RV10 11-0FA20	0.232
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV10 11-0GA10	0.233	▶	3RV10 11-0GA20	0.234
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV10 11-0HA10	0.235	▶	3RV10 11-0HA20	0.237
1	0.25	0.7 ... 1	13	100	▶	3RV10 11-0JA10	0.233	▶	3RV10 11-0JA20	0.235
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV10 11-0KA10	0.279	▶	3RV10 11-0KA20	0.281
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV10 11-1AA10	0.281	▶	3RV10 11-1AA20	0.283
2	0.75	1.4 ... 2	26	100	▶	3RV10 11-1BA10	0.280	▶	3RV10 11-1BA20	0.282
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV10 11-1CA10	0.281	▶	3RV10 11-1CA20	0.284
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV10 11-1DA10	0.283	▶	3RV10 11-1DA20	0.285
4	1.5	2.8 ... 4	52	100	▶	3RV10 11-1EA10	0.281	▶	3RV10 11-1EA20	0.284
5	1.5	3.5 ... 5	65	100	▶	3RV10 11-1FA10	0.285	▶	3RV10 11-1FA20	0.286
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV10 11-1GA10	0.288	▶	3RV10 11-1GA20	0.288
8	3	5.5 ... 8	104	50	▶	3RV10 11-1HA10	0.289	▶	3RV10 11-1HA20	0.290
10	4	7 ... 10	130	50	▶	3RV10 11-1JA10	0.284	▶	3RV10 11-1JA20	0.286
12	5.5	9 ... 12	156	50	▶	3RV10 11-1KA10	0.280	▶	3RV10 11-1KA20	0.282
<b>Size S0</b>										
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV10 21-0AA10	0.286	--		
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV10 21-0BA10	0.288	--		
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV10 21-0CA10	0.287	--		
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV10 21-0DA10	0.286	--		
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV10 21-0EA10	0.288	--		
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV10 21-0FA10	0.287	--		
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV10 21-0GA10	0.289	--		
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV10 21-0HA10	0.287	--		
1	0.25	0.7 ... 1	13	100	▶	3RV10 21-0JA10	0.350	--		
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV10 21-0KA10	0.353	--		
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV10 21-1AA10	0.357	--		
2	0.75	1.4 ... 2	26	100	▶	3RV10 21-1BA10	0.356	--		
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV10 21-1CA10	0.357	--		
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV10 21-1DA10	0.356	--		
4	1.5	2.8 ... 4	52	100	▶	3RV10 21-1EA10	0.354	--		
5	1.5	3.5 ... 5	65	100	▶	3RV10 21-1FA10	0.358	--		
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV10 21-1GA10	0.357	--		
8	3	5.5 ... 8	104	100	▶	3RV10 21-1HA10	0.356	--		
10	4	7 ... 10	130	100	▶	3RV10 21-1JA10	0.361	--		
12.5	5.5	9 ... 12.5	163	100	▶	3RV10 21-1KA10	0.358	--		
16	7.5	11 ... 16	208	50	▶	3RV10 21-4AA10	0.366	--		
20	7.5	14 ... 20	260	50	▶	3RV10 21-4BA10	0.363	--		
22	11	17 ... 22	286	50	▶	3RV10 21-4CA10	0.361	--		
25	11	20 ... 25	325	50	▶	3RV10 21-4DA10	0.364	--		

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

Auxiliary switches can be ordered separately (see "Mountable accessories").

For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" --> "Ordering notes".

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

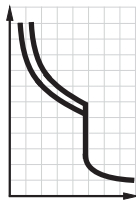
### For motor protection

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

PU (UNIT, SET, M)=1

PS\* =1 unit

PG =101



3RV10 11-0KA15  
with integrated transverse auxiliary switch



3RV10 21-1GA15  
with integrated transverse auxiliary switch



3RV10 11-0GA25  
with integrated transverse auxiliary switch

Rated current	Suitable for induction motors <sup>1)</sup> with P	Setting range for thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
$I_n$				$I_{cu}$		Order No.	Price per PU		Order No.	Price per PU
A	kW	A	A	kA			kg			kg
<b>Size S00</b>										
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV10 11-0AA15	0.245 B		3RV10 11-0AA25	0.245
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV10 11-0BA15	0.246 B		3RV10 11-0BA25	0.245
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV10 11-0CA15	0.246 B		3RV10 11-0CA25	0.246
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV10 11-0DA15	0.247 B		3RV10 11-0DA25	0.246
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV10 11-0EA15	0.250 B		3RV10 11-0EA25	0.250
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV10 11-0FA15	0.247 B		3RV10 11-0FA25	0.247
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV10 11-0GA15	0.249 B		3RV10 11-0GA25	0.252
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV10 11-0HA15	0.250 B		3RV10 11-0HA25	0.250
1	0.25	0.7 ... 1	13	100	▶	3RV10 11-0JA15	0.249 B		3RV10 11-0JA25	0.249
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV10 11-0KA15	0.297 B		3RV10 11-0KA25	0.297
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV10 11-1AA15	0.298 B		3RV10 11-1AA25	0.298
2	0.75	1.4 ... 2	26	100	▶	3RV10 11-1BA15	0.297 B		3RV10 11-1BA25	0.297
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV10 11-1CA15	0.298 B		3RV10 11-1CA25	0.298
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV10 11-1DA15	0.299 B		3RV10 11-1DA25	0.300
4	1.5	2.8 ... 4	52	100	▶	3RV10 11-1EA15	0.296 B		3RV10 11-1EA25	0.298
5	1.5	3.5 ... 5	65	100	▶	3RV10 11-1FA15	0.301 B		3RV10 11-1FA25	0.303
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV10 11-1GA15	0.303 B		3RV10 11-1GA25	0.303
8	3	5.5 ... 8	104	50	▶	3RV10 11-1HA15	0.304 B		3RV10 11-1HA25	0.304
10	4	7 ... 10	130	50	▶	3RV10 11-1JA15	0.300 B		3RV10 11-1JA25	0.300
12	5.5	9 ... 12	156	50	▶	3RV10 11-1KA15	0.297 B		3RV10 11-1KA25	0.298
<b>Size S0</b>										
0.16	0.04	0.11 ... 0.16	2.1	100	▶	3RV10 21-0AA15	0.300	--		
0.2	0.06	0.14 ... 0.2	2.6	100	▶	3RV10 21-0BA15	0.304	--		
0.25	0.06	0.18 ... 0.25	3.3	100	▶	3RV10 21-0CA15	0.302	--		
0.32	0.09	0.22 ... 0.32	4.2	100	▶	3RV10 21-0DA15	0.303	--		
0.4	0.09	0.28 ... 0.4	5.2	100	▶	3RV10 21-0EA15	0.303	--		
0.5	0.12	0.35 ... 0.5	6.5	100	▶	3RV10 21-0FA15	0.304	--		
0.63	0.18	0.45 ... 0.63	8.2	100	▶	3RV10 21-0GA15	0.305	--		
0.8	0.18	0.55 ... 0.8	10	100	▶	3RV10 21-0HA15	0.370	--		
1	0.25	0.7 ... 1	13	100	▶	3RV10 21-0JA15	0.368	--		
1.25	0.37	0.9 ... 1.25	16	100	▶	3RV10 21-0KA15	0.369	--		
1.6	0.55	1.1 ... 1.6	21	100	▶	3RV10 21-1AA15	0.371	--		
2	0.75	1.4 ... 2	26	100	▶	3RV10 21-1BA15	0.371	--		
2.5	0.75	1.8 ... 2.5	33	100	▶	3RV10 21-1CA15	0.372	--		
3.2	1.1	2.2 ... 3.2	42	100	▶	3RV10 21-1DA15	0.375	--		
4	1.5	2.8 ... 4	52	100	▶	3RV10 21-1EA15	0.370	--		
5	1.5	3.5 ... 5	65	100	▶	3RV10 21-1FA15	0.376	--		
6.3	2.2	4.5 ... 6.3	82	100	▶	3RV10 21-1GA15	0.374	--		
8	3	5.5 ... 8	104	100	▶	3RV10 21-1HA15	0.374	--		
10	4	7 ... 10	130	100	▶	3RV10 21-1JA15	0.375	--		
12.5	5.5	9 ... 12.5	163	100	▶	3RV10 21-1KA15	0.374	--		
16	7.5	11 ... 16	208	50	▶	3RV10 21-4AA15	0.382	--		
20	7.5	14 ... 20	260	50	▶	3RV10 21-4BA15	0.376	--		
22	11	17 ... 22	286	50	▶	3RV10 21-4CA15	0.378	--		
25	11	20 ... 25	325	50	▶	3RV10 21-4DA15	0.382	--		

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

Auxiliary switches can be ordered separately (see "Mountable accessories").

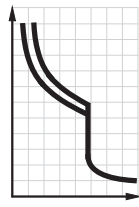
For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" --> "Ordering notes".

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

For motor protection

## CLASS 10, without auxiliary switches



Rated current	Suitable for induction motors <sup>1)</sup> with P	Setting range for thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
$I_n$				$I_{cu}$		Order No.	Price per PU			kg
A	kW	A	A	kA						

## Size S2



3RV10 31-4HA10

16	7.5	11 ... 16	208	50	▶	3RV10 31-4AA10	1	1 unit	101	1.046
20	7.5	14 ... 20	260	50	▶	3RV10 31-4BA10	1	1 unit	101	1.043
25	11	18 ... 25	325	50	▶	3RV10 31-4DA10	1	1 unit	101	1.031
32	15	22 ... 32	416	50	▶	3RV10 31-4EA10	1	1 unit	101	1.028
40	18.5	28 ... 40	520	50	▶	3RV10 31-4FA10	1	1 unit	101	1.047
45	22	36 ... 45	585	50	▶	3RV10 31-4GA10	1	1 unit	101	1.039
50	22	40 ... 50	650	50	▶	3RV10 31-4HA10	1	1 unit	101	1.027

## Size S3



3RV10 41-4LA10

40	18.5	28 ... 40	520	50	▶	3RV10 41-4FA10	1	1 unit	101	2.219
50	22	36 ... 50	650	50	▶	3RV10 41-4HA10	1	1 unit	101	2.240
63	30	45 ... 63	819	50	▶	3RV10 41-4JA10	1	1 unit	101	2.247
75	37	57 ... 75	975	50	▶	3RV10 41-4KA10	1	1 unit	101	2.253
90	45	70 ... 90	1170	50	▶	3RV10 41-4LA10	1	1 unit	101	2.280
100	45	80 ... 100	1235	50	▶	3RV10 41-4MA10	1	1 unit	101	2.295

## Size S3, with increased switching capacity



3RV10 42-4JA10

16	7.5	11 ... 16	208	100	▶	3RV10 42-4AA10	1	1 unit	101	2.174
20	7.5	14 ... 20	260	100	▶	3RV10 42-4BA10	1	1 unit	101	2.185
25	11	18 ... 25	325	100	▶	3RV10 42-4DA10	1	1 unit	101	2.211
32	15	22 ... 32	416	100	▶	3RV10 42-4EA10	1	1 unit	101	2.222
40	18.5	28 ... 40	520	100	▶	3RV10 42-4FA10	1	1 unit	101	2.203
50	22	36 ... 50	650	100	▶	3RV10 42-4HA10	1	1 unit	101	2.230
63	30	45 ... 63	819	100	▶	3RV10 42-4JA10	1	1 unit	101	2.255
75	37	57 ... 75	975	100	▶	3RV10 42-4KA10	1	1 unit	101	2.266
90	45	70 ... 90	1170	100	▶	3RV10 42-4LA10	1	1 unit	101	2.268
100	45	80 ... 100	1235	100	▶	3RV10 42-4MA10	1	1 unit	101	2.275

## CLASS 20, without auxiliary switches

## Size S2



3RV10 31-4AB10

16	7.5	11 ... 16	208	50	A	3RV10 31-4AB10	1	1 unit	101	1.067
20	7.5	14 ... 20	260	50	A	3RV10 31-4BB10	1	1 unit	101	1.071
25	11	18 ... 25	325	50	A	3RV10 31-4DB10	1	1 unit	101	1.054
32	15	22 ... 32	416	50	A	3RV10 31-4EB10	1	1 unit	101	1.067
40	18.5	28 ... 40	520	50	A	3RV10 31-4FB10	1	1 unit	101	1.076
45	22	36 ... 45	585	50	A	3RV10 31-4GB10	1	1 unit	101	1.073
50	22	40 ... 50	650	50	A	3RV10 31-4HB10	1	1 unit	101	1.071

## Size S3, with increased switching capacity



3RV10 42-4KB10

40	18.5	28 ... 40	520	100	A	3RV10 42-4FB10	1	1 unit	101	2.222
50	22	36 ... 50	650	100	A	3RV10 42-4HB10	1	1 unit	101	2.265
63	30	45 ... 63	819	100	A	3RV10 42-4JB10	1	1 unit	101	2.278
75	37	57 ... 75	975	100	A	3RV10 42-4KB10	1	1 unit	101	2.268
90	45	70 ... 90	1170	100	A	3RV10 42-4LB10	1	1 unit	101	2.313
100	45	80 ... 100	1235	100	A	3RV10 42-4MB10	1	1 unit	101	2.322

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

Auxiliary switches can be ordered separately (see "Mountable accessories").

For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" -> "Ordering notes".

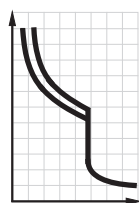
# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

For motor protection with overload relay function

### Selection and ordering data

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



Rated current	Suitable for induction motors <sup>1)</sup> with P	Setting range for thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
$I_n$				$I_{cu}$		Order No.	Price per PU			kg
A	kW	A	A	kA						

#### Size S0<sup>2)</sup>



0.16	0.04	0.11 ... 0.16	2.1	100	A	3RV11 21-0AA10	1	1 unit	101	0.354
0.2	0.06	0.14 ... 0.2	2.6	100	A	3RV11 21-0BA10	1	1 unit	101	0.358
0.25	0.06	0.18 ... 0.25	3.3	100	A	3RV11 21-0CA10	1	1 unit	101	0.352
0.32	0.09	0.22 ... 0.32	4.2	100	A	3RV11 21-0DA10	1	1 unit	101	0.352
0.4	0.09	0.28 ... 0.4	5.2	100	A	3RV11 21-0EA10	1	1 unit	101	0.355
0.5	0.12	0.35 ... 0.5	6.5	100	A	3RV11 21-0FA10	1	1 unit	101	0.356
0.63	0.18	0.45 ... 0.63	8.2	100	A	3RV11 21-0GA10	1	1 unit	101	0.358
0.8	0.18	0.55 ... 0.8	10	100	A	3RV11 21-0HA10	1	1 unit	101	0.421
1	0.25	0.7 ... 1	13	100	A	3RV11 21-0JA10	1	1 unit	101	0.416
1.25	0.37	0.9 ... 1.25	16	100	A	3RV11 21-0KA10	1	1 unit	101	0.426
1.6	0.55	1.1 ... 1.6	21	100	A	3RV11 21-1AA10	1	1 unit	101	0.422
2	0.75	1.4 ... 2	26	100	A	3RV11 21-1BA10	1	1 unit	101	0.427
2.5	0.75	1.8 ... 2.5	33	100	A	3RV11 21-1CA10	1	1 unit	101	0.422
3.2	1.1	2.2 ... 3.2	42	100	A	3RV11 21-1DA10	1	1 unit	101	0.428
4	1.5	2.8 ... 4	52	100	A	3RV11 21-1EA10	1	1 unit	101	0.420
5	1.5	3.5 ... 5	65	100	A	3RV11 21-1FA10	1	1 unit	101	0.429
6.3	2.2	4.5 ... 6.3	82	100	A	3RV11 21-1GA10	1	1 unit	101	0.426
8	3	5.5 ... 8	104	100	A	3RV11 21-1HA10	1	1 unit	101	0.425
10	4	7 ... 10	130	100	A	3RV11 21-1JA10	1	1 unit	101	0.428
12.5	5.5	9 ... 12.5	163	100	A	3RV11 21-1KA10	1	1 unit	101	0.426
16	7.5	11 ... 16	208	50	A	3RV11 21-4AA10	1	1 unit	101	0.436
20	7.5	14 ... 20	260	50	A	3RV11 21-4BA10	1	1 unit	101	0.430
22	11	17 ... 22	286	50	A	3RV11 21-4CA10	1	1 unit	101	0.427
25	11	20 ... 25	325	50	A	3RV11 21-4DA10	1	1 unit	101	0.432

#### Size S2<sup>2)</sup>



16	7.5	11 ... 16	208	50	A	3RV11 31-4AA10	1	1 unit	101	1.123
20	7.5	14 ... 20	260	50	A	3RV11 31-4BA10	1	1 unit	101	1.109
25	11	18 ... 25	325	50	A	3RV11 31-4DA10	1	1 unit	101	1.114
32	15	22 ... 32	416	50	A	3RV11 31-4EA10	1	1 unit	101	1.111
40	18.5	28 ... 40	520	50	A	3RV11 31-4FA10	1	1 unit	101	1.123
45	22	36 ... 45	585	50	A	3RV11 31-4GA10	1	1 unit	101	1.101
50	22	40 ... 50	650	50	A	3RV11 31-4HA10	1	1 unit	101	1.106

3RV11 31-4EA10

#### Size S3, with increased switching capacity<sup>2)</sup>



16	7.5	11 ... 16	208	100	A	3RV11 42-4AA10	1	1 unit	101	2.247
20	7.5	14 ... 20	260	100	A	3RV11 42-4BA10	1	1 unit	101	2.255
25	11	18 ... 25	325	100	A	3RV11 42-4DA10	1	1 unit	101	2.284
32	15	22 ... 32	416	100	A	3RV11 42-4EA10	1	1 unit	101	2.295
40	18.5	28 ... 40	520	100	A	3RV11 42-4FA10	1	1 unit	101	2.288
50	22	36 ... 50	650	100	A	3RV11 42-4HA10	1	1 unit	101	2.320
63	30	45 ... 63	819	100	A	3RV11 42-4JA10	1	1 unit	101	2.333
75	37	57 ... 75	975	100	A	3RV11 42-4KA10	1	1 unit	101	2.368
90	45	70 ... 90	1170	100	A	3RV11 42-4LA10	1	1 unit	101	2.353
100	45	80 ... 100	1235	100	A	3RV11 42-4MA10	1	1 unit	101	2.346

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

<sup>2)</sup> Accessories for mounting on the right (for sizes S0 to S3) and 3RV19 15 three-phase busbars (for size S0) cannot be used.

Auxiliary switches can be ordered separately (see "Mountable accessories").



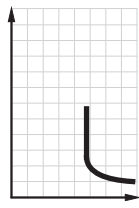


# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

For starter combinations

## Selection and ordering data

## Without auxiliary switches

	Rated current	Suitable for induction motors <sup>1)</sup> with P	Thermal overload releases <sup>2)</sup>	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	$I_n$			$I >$	$I_{cu}$		Order No.		Price per PU			kg
	A	kW	A	A	kA							

## Size S0



3RV13 21-0AC10

0.16	0.04	Without	2.1	100	A	3RV13 21-0AC10	1	1 unit	101	0.282
0.2	0.06	Without	2.6	100	A	3RV13 21-0BC10	1	1 unit	101	0.284
0.25	0.06	Without	3.3	100	A	3RV13 21-0CC10	1	1 unit	101	0.285
0.32	0.09	Without	4.2	100	A	3RV13 21-0DC10	1	1 unit	101	0.282
0.4	0.09	Without	5.2	100	A	3RV13 21-0EC10	1	1 unit	101	0.286
0.5	0.12	Without	6.5	100	A	3RV13 21-0FC10	1	1 unit	101	0.283
0.63	0.18	Without	8.2	100	A	3RV13 21-0GC10	1	1 unit	101	0.348
0.8	0.18	Without	10	100	A	3RV13 21-0HC10	1	1 unit	101	0.283
1	0.25	Without	13	100	A	3RV13 21-0JC10	1	1 unit	101	0.345
1.25	0.37	Without	16	100	A	3RV13 21-0KC10	1	1 unit	101	0.351
1.6	0.55	Without	21	100	A	3RV13 21-1AC10	1	1 unit	101	0.352
2	0.75	Without	26	100	A	3RV13 21-1BC10	1	1 unit	101	0.352
2.5	0.75	Without	33	100	A	3RV13 21-1CC10	1	1 unit	101	0.352
3.2	1.1	Without	42	100	A	3RV13 21-1DC10	1	1 unit	101	0.353
4	1.5	Without	52	100	A	3RV13 21-1EC10	1	1 unit	101	0.349
5	1.5	Without	65	100	A	3RV13 21-1FC10	1	1 unit	101	0.354
6.3	2.2	Without	82	100	A	3RV13 21-1GC10	1	1 unit	101	0.355
8	3	Without	104	100	A	3RV13 21-1HC10	1	1 unit	101	0.354
10	4	Without	130	100	A	3RV13 21-1JC10	1	1 unit	101	0.357
12.5	5.5	Without	163	100	A	3RV13 21-1KC10	1	1 unit	101	0.354
16	7.5	Without	208	50	A	3RV13 21-4AC10	1	1 unit	101	0.362
20	7.5	Without	260	50	A	3RV13 21-4BC10	1	1 unit	101	0.357
22	11	Without	286	50	A	3RV13 21-4CC10	1	1 unit	101	0.358
25	11	Without	325	50	A	3RV13 21-4DC10	1	1 unit	101	0.359

## Size S2



3RV13 31-4AC10

16	7.5	Without	208	50	A	3RV13 31-4AC10	1	1 unit	101	1.038
20	7.5	Without	260	50	A	3RV13 31-4BC10	1	1 unit	101	1.037
25	11	Without	325	50	A	3RV13 31-4DC10	1	1 unit	101	1.014
32	15	Without	416	50	A	3RV13 31-4EC10	1	1 unit	101	1.018
40	18.5	Without	520	50	A	3RV13 31-4FC10	1	1 unit	101	1.033
45	22	Without	585	50	A	3RV13 31-4GC10	1	1 unit	101	1.040
50	22	Without	650	50	A	3RV13 31-4HC10	1	1 unit	101	1.019

## Size S3



3RV13 41-4JC10

40	18.5	Without	520	50	A	3RV13 41-4FC10	1	1 unit	101	2.197
50	22	Without	650	50	A	3RV13 41-4HC10	1	1 unit	101	2.227
63	30	Without	819	50	A	3RV13 41-4JC10	1	1 unit	101	2.244
75	37	Without	975	50	A	3RV13 41-4KC10	1	1 unit	101	2.247
90	45	Without	1170	50	A	3RV13 41-4LC10	1	1 unit	101	2.269
100	45	Without	1235	50	A	3RV13 41-4MC10	1	1 unit	101	2.292

## Size S3, with increased switching capacity



3RV13 42-4JC10

16	7.5	Without	208	100	A	3RV13 42-4AC10	1	1 unit	101	2.175
20	7.5	Without	260	100	A	3RV13 42-4BC10	1	1 unit	101	2.188
25	11	Without	325	100	A	3RV13 42-4DC10	1	1 unit	101	2.219
32	15	Without	416	100	A	3RV13 42-4EC10	1	1 unit	101	2.208
40	18.5	Without	520	100	A	3RV13 42-4FC10	1	1 unit	101	2.218
50	22	Without	650	100	A	3RV13 42-4HC10	1	1 unit	101	2.218
63	30	Without	819	100	A	3RV13 42-4JC10	1	1 unit	101	2.248
75	37	Without	975	100	A	3RV13 42-4KC10	1	1 unit	101	2.278
90	45	Without	1170	100	A	3RV13 42-4LC10	1	1 unit	101	2.266
100	45	Without	1235	100	A	3RV13 42-4MC10	1	1 unit	101	2.293

<sup>1)</sup> 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.

<sup>2)</sup> For overload protection of the motors, appropriate overload relays must be used.

Auxiliary switches can be ordered separately (see "Mountable accessories").

For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" --> "Ordering notes".

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A






## Motor Starter Protectors

For transformer protection

### Selection and ordering data

#### CLASS 10, without auxiliary switches

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

	Rated current	Setting range for thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	$I_n$			$I_{cu}$		Order No.	Price per PU			kg
A	A	A	kA							
<b>Size S0</b>										
 3RV14 21-0KA10	0.16	0.11 ... 0.16	3.3	100	▶	3RV14 21-0AA10	1	1 unit	101	0.286
	0.2	0.14 ... 0.2	4.2	100	▶	3RV14 21-0BA10	1	1 unit	101	0.287
	0.25	0.18 ... 0.25	5.2	100	▶	3RV14 21-0CA10	1	1 unit	101	0.286
	0.32	0.22 ... 0.32	6.5	100	▶	3RV14 21-0DA10	1	1 unit	101	0.288
	0.4	0.28 ... 0.4	8.2	100	▶	3RV14 21-0EA10	1	1 unit	101	0.287
	0.5	0.35 ... 0.5	10	100	▶	3RV14 21-0FA10	1	1 unit	101	0.286
	0.63	0.45 ... 0.63	13	100	▶	3RV14 21-0GA10	1	1 unit	101	0.290
	0.8	0.55 ... 0.8	16	100	▶	3RV14 21-0HA10	1	1 unit	101	0.290
	1	0.7 ... 1	21	100	▶	3RV14 21-0JA10	1	1 unit	101	0.353
	1.25	0.9 ... 1.25	26	100	▶	3RV14 21-0KA10	1	1 unit	101	0.354
	1.6	1.1 ... 1.6	33	100	▶	3RV14 21-1AA10	1	1 unit	101	0.353
	2	1.4 ... 2	42	100	▶	3RV14 21-1BA10	1	1 unit	101	0.358
	2.5	1.8 ... 2.5	52	100	▶	3RV14 21-1CA10	1	1 unit	101	0.354
	3.2	2.2 ... 3.2	65	100	▶	3RV14 21-1DA10	1	1 unit	101	0.358
	4	2.8 ... 4	82	100	▶	3RV14 21-1EA10	1	1 unit	101	0.354
	5	3.5 ... 5	104	100	▶	3RV14 21-1FA10	1	1 unit	101	0.357
 3RV14 21-1GA10	6.3	4.5 ... 6.3	130	100	▶	3RV14 21-1GA10	1	1 unit	101	0.356
	8	5.5 ... 8	163	100	▶	3RV14 21-1HA10	1	1 unit	101	0.358
	10	7 ... 10	208	100	▶	3RV14 21-1JA10	1	1 unit	101	0.362
	12.5	9 ... 12.5	260	100	▶	3RV14 21-1KA10	1	1 unit	101	0.360
	16	11 ... 16	286	50	▶	3RV14 21-4AA10	1	1 unit	101	0.365
	20	14 ... 20	325	50	▶	3RV14 21-4BA10	1	1 unit	101	0.365
 3RV14 31-4DA10	16	11 ... 16	325	50	▶	3RV14 31-4AA10	1	1 unit	101	1.029
	20	14 ... 20	416	50	▶	3RV14 31-4BA10	1	1 unit	101	1.034
	25	18 ... 25	520	50	▶	3RV14 31-4DA10	1	1 unit	101	1.038
	32	22 ... 32	660	50	▶	3RV14 31-4EA10	1	1 unit	101	1.029
	40	28 ... 40	836	50	▶	3RV14 31-4FA10	1	1 unit	101	1.039

Auxiliary switches can be ordered separately (see "Mountable accessories").

For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" --> "Ordering notes".



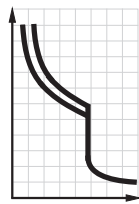
# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

For fuse monitoring

### Selection and ordering data

#### Without auxiliary switches



Rated current	Thermal overload releases	Instantaneous over-current releases	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
$I_n$			$I_{cu}$		Order No.	Price per PU			
A	A	A	kA						kg

#### Size S00



3RV16 11-0BD10

0.2	0.2	1.2	100	▶	<b>3RV16 11-0BD10</b>	1	1 unit	101	0.289
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Note:  
The auxiliary switch required for signaling must be ordered separately.

For multi-unit packing and reusable packaging, see Chapter 20 "Appendix" --> "Ordering notes".

### Accessories

Version	Contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
			Order No.	Price per PU			kg

#### Mountable auxiliary switches (essential accessories)



3RV19 01-1E

**Transverse auxiliary switches**  
With screw terminals,  
mountable on front

1 NO + 1 NC ▶

**3RV19 01-1E**

1

1 unit

101

0.018



3RV19 01-1A

**Lateral auxiliary switches**  
With screw terminals,  
mountable on the left

1 NO + 1 NC ▶

**3RV19 01-1A**

1

1 unit

101

0.045

Additional auxiliary switches and other accessories  
see "Mountable accessories".

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

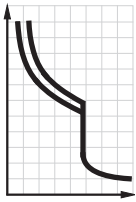




## Circuit Breakers

For system protection  
according to UL 489/CSA C22.2 No. 5-02

### Selection and ordering data

#### Without auxiliary switches

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

	Rated current 1)	Thermal overload releases (non- adjustable)	Instanta- neous over- current releases	Short-circuit breaking capacity at AC 480 Y/277 V <sup>2)</sup>	480 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	$I_n$ 1)			$I_{bc}$	$I_{bc}$		Order No.	Price per PU			kg
<b>Size S0</b>											
 3RV17 21-0AD10	0.16	0.16	2.1	50	--	C	3RV17 21-0AD10	1	1 unit	101	0.460
	0.2	0.2	2.6	50	--	C	3RV17 21-0BD10	1	1 unit	101	0.460
	0.25	0.25	3.3	50	--	C	3RV17 21-0CD10	1	1 unit	101	0.460
	0.32	0.32	4.2	50	--	C	3RV17 21-0DD10	1	1 unit	101	0.460
	0.4	0.4	5.2	50	--	C	3RV17 21-0ED10	1	1 unit	101	0.460
	0.5	0.5	6.5	50	--	C	3RV17 21-0FD10	1	1 unit	101	0.460
	0.63	0.63	8.2	50	--	C	3RV17 21-0GD10	1	1 unit	101	0.460
	0.8	0.8	10	50	--	C	3RV17 21-0HD10	1	1 unit	101	0.530
	1	1	13	50	--	C	3RV17 21-0JD10	1	1 unit	101	0.530
	1.25	1.25	16	50	--	C	3RV17 21-0KD10	1	1 unit	101	0.530
	1.6	1.6	21	50	--	C	3RV17 21-1AD10	1	1 unit	101	0.530
	2	2	26	50	--	C	3RV17 21-1BD10	1	1 unit	101	0.530
	2.5	2.5	33	50	--	C	3RV17 21-1CD10	1	1 unit	101	0.530
	3.2	3.2	42	50	--	C	3RV17 21-1DD10	1	1 unit	101	0.530
	4	4	52	50	--	C	3RV17 21-1ED10	1	1 unit	101	0.530
	5	5	65	50	--	C	3RV17 21-1FD10	1	1 unit	101	0.530
	6.3	6.3	82	50	--	C	3RV17 21-1GD10	1	1 unit	101	0.530
	8	8	104	50	--	C	3RV17 21-1HD10	1	1 unit	101	0.530
	10	10	130	50	--	C	3RV17 21-1JD10	1	1 unit	101	0.530
	12.5	12.5	163	50	--	C	3RV17 21-1KD10	1	1 unit	101	0.530
 3RV17 42-5FD10	15	15	208	50	--	C	3RV17 21-4AD10	1	1 unit	101	0.530
	20	20	260	50	--	C	3RV17 21-4BD10	1	1 unit	101	0.530
	22	22	286	50	--	C	3RV17 21-4CD10	1	1 unit	101	0.530
	10	10	150	65	65	B	3RV17 42-5AD10	1	1 unit	101	0.460
	15	15	225	65	65	B	3RV17 42-5BD10	1	1 unit	101	0.460
	20	20	260	65	65	B	3RV17 42-5CD10	1	1 unit	101	0.460
	25	25	325	65	65	B	3RV17 42-5DD10	1	1 unit	101	0.460
	30	30	390	65	65	B	3RV17 42-5ED10	1	1 unit	101	0.460
	35	35	455	65	--	B	3RV17 42-5FD10	1	1 unit	101	0.460
	40	40	520	65	--	B	3RV17 42-5GD10	1	1 unit	101	0.460
	45	45	585	65	--	B	3RV17 42-5HD10	1	1 unit	101	0.460
	50	50	650	65	--	B	3RV17 42-5JD10	1	1 unit	101	0.460
	60	60	780	65	--	B	3RV17 42-5LD10	1	1 unit	101	0.460
	70	70	910	65	--	B	3RV17 42-5QD10	1	1 unit	101	0.460

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

2) For values for AC 600 Y/347 V "Technical specifications" --> "Permissible rated data of devices approved for North America (UL/CSA)" --> "3RV17 and 3RV18 motor starter protectors as circuit breakers" see note on Technical Information on page 5/1.

Transverse auxiliary switches must not be mounted,  
lateral auxiliary switches can be ordered separately  
(see "Mountable accessories").

# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

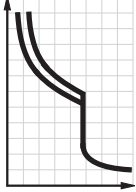



## Circuit Breakers

For transformer protection  
according to UL 489/CSA C22.2 No. 5-02

### 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

	Rated current <sup>1)</sup>	Thermal overload releases (non-adjustable)	Instantaneous overcurrent releases	Short-circuit breaking capacity at AC 480 Y/277 V <sup>2)</sup>	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	$I_n^{1)}$		$I >$	$I_{bc}$		Order No.	Price per PU			kg
<b>Size S0</b>										
 3RV18 21-0AD10	0.16	0.16	3.3	50	C	3RV18 21-0AD10	1	1 unit	101	0.450
	0.2	0.2	4.2	50	C	3RV18 21-0BD10	1	1 unit	101	0.450
	0.25	0.25	5.2	50	C	3RV18 21-0CD10	1	1 unit	101	0.450
	0.32	0.32	6.5	50	C	3RV18 21-0DD10	1	1 unit	101	0.450
	0.4	0.4	8.2	50	C	3RV18 21-0ED10	1	1 unit	101	0.450
	0.5	0.5	10	50	C	3RV18 21-0FD10	1	1 unit	101	0.450
	0.63	0.63	13	50	C	3RV18 21-0GD10	1	1 unit	101	0.450
	0.8	0.8	16	50	C	3RV18 21-0HD10	1	1 unit	101	0.450
	1	1	21	50	C	3RV18 21-0JD10	1	1 unit	101	0.520
	1.25	1.25	26	50	C	3RV18 21-0KD10	1	1 unit	101	0.520
	1.6	1.6	33	50	C	3RV18 21-1AD10	1	1 unit	101	0.520
	2	2	42	50	C	3RV18 21-1BD10	1	1 unit	101	0.520
	2.5	2.5	52	50	C	3RV18 21-1CD10	1	1 unit	101	0.520
	3.2	3.2	65	50	C	3RV18 21-1DD10	1	1 unit	101	0.520
	4	4	82	50	C	3RV18 21-1ED10	1	1 unit	101	0.520
	5	5	104	50	C	3RV18 21-1FD10	1	1 unit	101	0.520
	6.3	6.3	130	50	C	3RV18 21-1GD10	1	1 unit	101	0.520
	8	8	163	50	C	3RV18 21-1HD10	1	1 unit	101	0.520
	10	10	208	50	C	3RV18 21-1JD10	1	1 unit	101	0.520
	12.5	12.5	260	50	C	3RV18 21-1KD10	1	1 unit	101	0.520
	15	15	286	50	C	3RV18 21-4AD10	1	1 unit	101	0.520
	20	20	325	50	C	3RV18 21-4BD10	1	1 unit	101	0.520

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

<sup>2)</sup> For values for AC 600 Y/347 V "Technical specifications" --> "Permissible rated data of devices approved for North America (UL/CSA)" --> "3RV17 and 3RV18 motor starter protectors as circuit breakers" see note on Technical Information on page 5/1.

Transverse auxiliary switches must not be mounted, lateral auxiliary switches can be ordered separately (see "Mountable accessories").

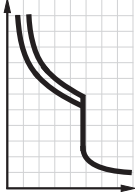


# SIRIUS 3RV Motor Starter Protectors/Circuit Breakers up to 100 A

## Motor Starter Protectors

For distance protection

### Selection and ordering data

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

	Rated current	Thermal overload releases	Instantaneous overcurrent releases	Auxiliary switch integrated in the MSP, transverse	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	$I_n$				$I_{cu}$						
	A	A	A		kA		Order No.	Price per PU			kg

#### Size S00



3RV16 11-1.G14

1.4	1.4	6	1 CO	50	B	<b>3RV16 11-1AG14</b>	1	1 unit	101	0.314
2.5	2.5	10.5	1 CO	50	▶	<b>3RV16 11-1CG14</b>	1	1 unit	101	0.318
3	3	20	1 CO	50	▶	<b>3RV16 11-1DG14</b>	1	1 unit	101	0.315

### Accessories

Version	Contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
			Order No.	Price per PU			kg

#### Mountable auxiliary switches for other signaling purposes



3RV19 01-1A

<b>Lateral auxiliary switches</b> With screw terminals, mountable on the left	1 NO + 1 NC	▶	<b>3RV19 01-1A</b>	1	1 unit	101	0.045
----------------------------------------------------------------------------------	-------------	---	--------------------	---	--------	-----	-------

Additional auxiliary switches and other accessories see "Mountable accessories".

### More information

#### Conversion of 3VU13 to 3RV1 voltage transformer circuit breakers

The 3VU13 voltage transformer circuit breakers previously available have been discontinued. The 3RV1 voltage transformer circuit breakers are offered as replacement types.

Previous type	Replacement type
3VU13 11-6HR00	3RV16 11-1CG14
3VU13 21-6HR00	3RV16 11-1CG14 + 3RV19 01-1A
3VU13 11-6JR00	3RV16 11-1DG14

## Overview

## Mounting location and function

The 3RV1 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 can be fitted as required on the motor starter protectors without using tools.

For overview graphic see "General Data" --> "Overview".

<b>Front side</b>	<b>Transverse auxiliary switches</b>	An auxiliary switch block can be inserted transversely on the front. The overall width of the motor starter protectors remains unchanged.
<u>Notes:</u>	1 NO + 1 NC or 2 NO or 1 CO contact	
<ul style="list-style-type: none"> <li>A maximum of 4 auxiliary contacts with auxiliary switches can be attached to each motor starter protector.</li> <li>Transverse auxiliary switches must not be used for the 3RV17 and 3RV18 circuit breakers.</li> </ul>		
<b>Left-hand side</b>	<b>Lateral auxiliary switches (2 contacts)</b>	One of the three auxiliary switches can be mounted laterally at the left side for each motor starter protector. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector.  The overall width of the lateral auxiliary switch with 2 contacts is 9 mm.
<u>Notes:</u>	1 NO + 1 NC or 2 NO or 2 NC	
<ul style="list-style-type: none"> <li>A maximum of 4 auxiliary contacts with auxiliary switches can be attached to each motor starter protector/circuit breaker.</li> <li>Auxiliary switches (2 contacts) and signal switches can be mounted separately or together.</li> <li>The signaling switch cannot be used for the 3RV17 and 3RV18 circuit breakers.</li> </ul>		
	<b>Lateral auxiliary switches (4 contacts)</b>	One auxiliary switch with 4 contacts can be mounted at left side laterally for each 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.  The overall width of the lateral auxiliary switch with 4 contacts is 18 mm.
	<b>Signaling switches for sizes S0, S2 and S3</b> Tripping 1 NO + 1 NC Short-circuit 1 NO + 1 NC	One signaling switch can be mounted at the left side of each motor starter protector/circuit breaker with a rotary operating mechanism.  The signaling switch has two contact systems.  One contact system always signals tripping 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 switching off with the handle.  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.  The overall width of the signaling switch is 18 mm.
<b>Right-hand side</b>	<b>Auxiliary releases</b>	
<u>Notes:</u>	Shunt releases	For remote-controlled tripping of the motor starter protector/circuit breaker. The release coil should only be energized for short periods (see schematics).
<ul style="list-style-type: none"> <li>One auxiliary release can be mounted per motor starter protector/circuit breaker.</li> <li>Accessories cannot be mounted at the right-hand side of the 3RV11 motor starter protectors for motor protection with overload relay function.</li> </ul>	or	
	Undervoltage releases	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.  Particularly suitable for EMERGENCY-STOP disconnection by way of the corresponding EMERGENCY-STOP pushbutton according to EN 60204-1 (VDE 0113).
	or	
	Undervoltage releases with leading auxiliary contacts (2 NO)	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 to reclose.  The overall width of the auxiliary release is 18 mm.
<b>Top</b>	<b>Isolator modules for sizes S0 and S2</b>	Isolator modules can be mounted to the upper terminal end of motor starter protectors of sizes S0 and S2.  The supply cable is connected to the motor starter protector through the isolator module.  The plug can only be unplugged when the motor starter protector/circuit breaker 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.
<u>Notes:</u>		
<ul style="list-style-type: none"> <li>The isolator module cannot be used for the 3RV17 and 3RV18 circuit breakers.</li> <li>The isolator module covers the terminal screws of the transverse auxiliary switch. If the isolator module is used, we therefore recommend that either the lateral auxiliary switches be fitted or that the isolator module not be mounted until the auxiliary switch has been wired.</li> </ul>		







For a complete overview of which accessories can be used for the various motor starter protectors see "Introduction" --> "Overview" --> "Motor starter protectors".

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Mountable accessories

#### Selection and ordering data



Version	Contacts	For motor starter protectors/ circuit breakers Size	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Order No.	Price per PU				
				kg					
Auxiliary switches <sup>1)</sup>									
	<b>Transverse auxiliary switches</b> With screw terminals, mountable on front	1 CO 1 NO + 1 NC 2 NO	S00, S0, S2, S3	▶ ▶ ▶	<b>3RV19 01-1D</b> <b>3RV19 01-1E</b> <b>3RV19 01-1F</b>	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.015 0.018 0.018
	<b>Solid-state compatible transverse auxiliary switches</b> With screw terminals, front mountable, for operation in dusty atmosphere and in solid-state circuits with low operating currents	1 CO	S00, S0, S2, S3	A	<b>3RV19 01-1G</b>	1	1 unit	101	0.016
	<b>Covers for transverse auxiliary switches</b>	--	S00, S0, S2, S3	▶	<b>3RV19 01-0H</b>	1	10 units	101	0.006
	<b>Lateral auxiliary switches</b> With screw terminals, mountable on the left	1 NO + 1 NC 2 NO 2 NC 2 NO + 2 NC	S00, S0, S2, S3	▶ ▶ ▶ A	<b>3RV19 01-1A</b> <b>3RV19 01-1B</b> <b>3RV19 01-1C</b> <b>3RV19 01-1J</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	101 101 101 101	0.045 0.045 0.045 0.083
									



## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories




## Mountable accessories

Version	For motor starter protectors/ circuit breakers Size	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
			Order No.	Price per PU					
kg									
Signaling switches <sup>1)</sup>									
	<b>Signaling switches</b>  One signaling switch can be mounted on the left per motor starter protector.	Separate tripped and short-circuit alarms, 1 NO + 1 NC each	S0, S2, S3	▶	<b>3RV19 21-1M</b>	1	1 unit	101	0.094
Isolator modules <sup>1)</sup>									
	<b>Isolator modules</b>  Visible isolating distance for isolating individual motor starter protectors from the network, lockable in disconnected position.	S0  S2	▶  ▶	<b>3RV19 28-1A</b>  <b>3RV19 38-1A</b>	1  1	1 unit  1 unit	101  101	0.157  0.324	
3RV19 21-1M									
3RV19 38-1A with padlock									

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Mountable accessories

Rated control supply voltage $U_s$					For motor starter protectors/ circuit breakers Size	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50 Hz	AC 60 Hz	AC 50/60 Hz  100 % ON period <sup>1)</sup>	AC/DC 50/60 Hz, DC 5 s ON period <sup>2)</sup>	DC								
V	V	V	V	V			Order No.	Price per PU				kg
Auxiliary releases <sup>3)</sup>												
	Undervoltage releases											
	--	--	--	--	24	S00, S0, S2, S3	A	3RV19 02-1AB4	1	1 unit	101	0.138
	24	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AB0	1	1 unit	101	0.134
	110	120	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AF0	1	1 unit	101	0.134
	--	208	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AM1	1	1 unit	101	0.128
	230	240	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1AP0	1	1 unit	101	0.131
	400	440	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1AV0	1	1 unit	101	0.127
	415	480	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AV1	1	1 unit	101	0.129
500	600	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AS0	1	1 unit	101	0.127	
	Undervoltage releases with leading auxiliary contacts 2 NO											
	230	240	--	--	--	S00	A	3RV19 12-1CP0	1	1 unit	101	0.140
	400	440	--	--	--	S00	A	3RV19 12-1CV0	1	1 unit	101	0.137
	415	480	--	--	--	S00	A	3RV19 12-1CV1	1	1 unit	101	0.139
	230	240	--	--	--	S0, S2, S3	A	3RV19 22-1CP0	1	1 unit	101	0.139
	400	440	--	--	--	S0, S2, S3	A	3RV19 22-1CV0	1	1 unit	101	0.136
	415	480	--	--	--	S0, S2, S3	A	3RV19 22-1CV1	1	1 unit	101	0.138
	Shunt releases											
--	--	20 ... 24	20 ... 70	--	S00, S0, S2, S3	▶	3RV19 02-1DB0	1	1 unit	101	0.133	
--	--	90 ... 110	70 ... 190	--	S00, S0, S2, S3	A	3RV19 02-1DF0	1	1 unit	101	0.135	
--	--	210 ... 240	190 ... 330	--	S00, S0, S2, S3	▶	3RV19 02-1DP0	1	1 unit	101	0.130	
--	--	350 ... 415	330 ... 500	--	S00, S0, S2, S3	A	3RV19 02-1DV0	1	1 unit	101	0.129	
--	--	500	500	--	S00, S0, S2, S3	A	3RV19 02-1DS0	1	1 unit	101	0.126	

<sup>1)</sup> 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.

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

<sup>3)</sup> One auxiliary release can be mounted on the right per motor starter protector (does not apply to 3RV11 motor starter protectors with overload relay function).

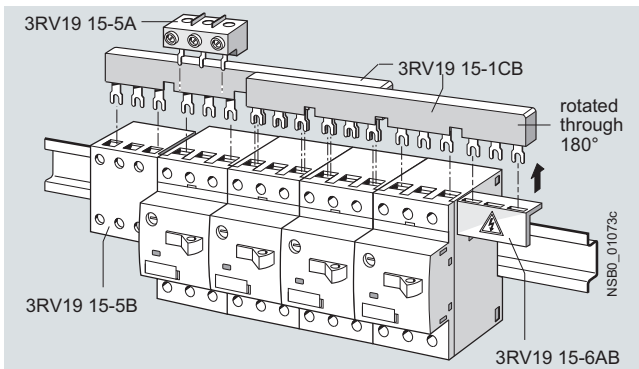
## Overview

### Insulated three-phase busbar systems

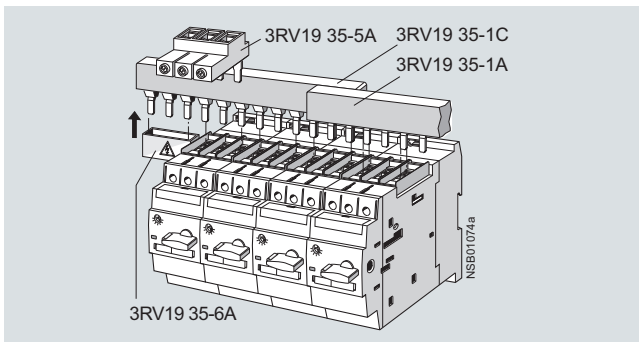
Three-phase busbar systems provide an easy, time-saving and clearly arranged means of feeding 3RV1 motor starter protectors with screw terminals. Different versions are available for sizes S00, S0 and S2 and can be used for the various different types of motor starter protectors. The 3RV19 15 three-phase busbar systems are not suitable for 3RV11 motor starter protectors with overload relay function. The three-phase busbars must not be used for 3RV17 and 3RV18 circuit breakers.

The busbars are suitable for between 2 and 5 circuit breakers/motor starter protectors. 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.

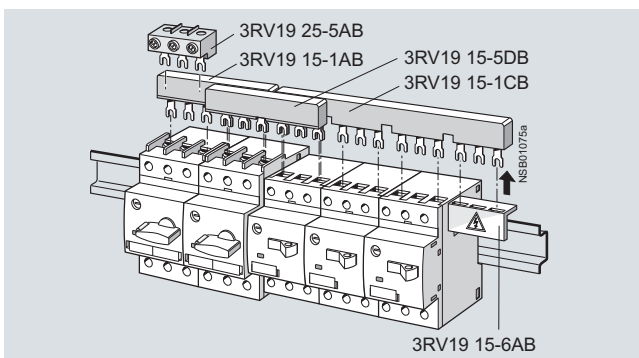
A combination of motor starter protectors of different sizes is possible only with sizes S00 and S0. Connecting pieces are available for this purpose. The motor starter protectors are supplied by appropriate feeder terminals.



Three-phase busbar system, size S00



Three-phase busbar system, size S2



Three-phase busbar system, with example for combining sizes S00 and S0

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.

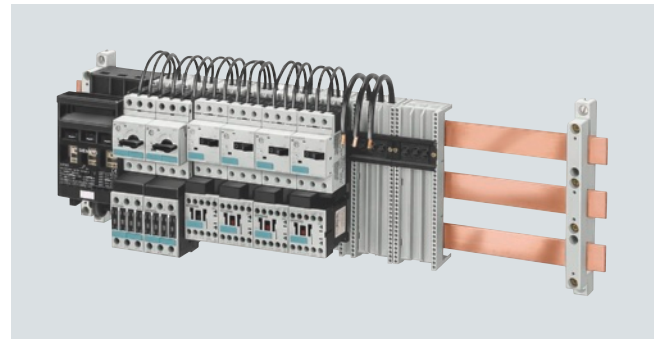
The three-phase busbar systems can also be used to construct "Type E Starters" of size S0 or S2 according to UL/CSA. **Special feeder terminals must be used for this purpose, however (see "Selection and ordering data").**

### Busbar adapters for 40 mm and 60 mm systems

The motor starter protectors are mounted directly with the aid of busbar adapters on busbar systems with 40 mm and 60 mm center-to-center clearance in order to save space and to reduce infeed times and costs. Busbar adapters for busbar systems with 40 mm center-to-center clearance are suitable for copper busbars with a width of 12 mm to 15 mm, while those 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 4 mm to 5 mm or 10 mm thick.

The motor starter protectors 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.

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., can be found in Chapter 17 "SENTRON Switching and Protection Devices, Switch Disconnectors, 8US Busbar Systems" --> "SENTRON 8US Busbar Systems".







SIRIUS motor starter protectors and load feeders with busbar adapters snapped onto busbars

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Busbar accessories

#### Selection and ordering data

Modular spacing	Number of motor starter protectors that can be connected			Rated current $I_n$ at 690 V	For motor starter protector Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
mm	Without lateral accessories	Incl. lateral auxiliary switch	Incl. auxiliary trip unit									kg	
Three-phase busbar systems													
For feeding several motor starter protectors with screw terminals, mounted side by side on standard mounting rails, insulated, with touch protection.													
	3RV19 15-1AB	45	2	--	--	63	S00, S0 <sup>1)2)</sup>	▶	3RV19 15-1AB	1	1 unit	101	0.044
			3				S00, S0 <sup>1)2)</sup>	▶	3RV19 15-1BB	1	1 unit	101	0.071
			4				S00, S0 <sup>1)2)</sup>	▶	3RV19 15-1CB	1	1 unit	101	0.099
			5				S00, S0 <sup>1)2)</sup>	▶	3RV19 15-1DB	1	1 unit	101	0.124
	3RV19 15-1BB	55	--	2	--	63	S00, S0 <sup>1)2)</sup>	▶	3RV19 15-2AB	1	1 unit	101	0.048
				3			S00, S0 <sup>1)2)</sup>	▶	3RV19 15-2BB	1	1 unit	101	0.079
				4			S00, S0 <sup>1)2)</sup>	▶	3RV19 15-2CB	1	1 unit	101	0.111
				5			S00, S0 <sup>1)2)</sup>	▶	3RV19 15-2DB	1	1 unit	101	0.140
	3RV19 15-1CB	63	--	--	2	63	S00, S0 <sup>1)2)</sup>	▶	3RV19 15-3AB	1	1 unit	101	0.052
					4		S00, S0 <sup>1)2)</sup>	▶	3RV19 15-3CB	1	1 unit	101	0.120
	3RV19 15-1DB	55	2	--	--	108	S2	▶	3RV19 35-1A	1	1 unit	101	0.150
			3				S2	▶	3RV19 35-1B	1	1 unit	101	0.214
			4				S2	▶	3RV19 35-1C	1	1 unit	101	0.295
		75	--	2	2	108	S2 <sup>3)</sup>	A	3RV19 35-3A	1	1 unit	101	0.161
				3	3		S2 <sup>3)</sup>	A	3RV19 35-3B	1	1 unit	101	0.262
				4	4		S2 <sup>3)</sup>	A	3RV19 35-3C	1	1 unit	101	0.369

<sup>1)</sup> Not suitable for 3RV11 motor starter protectors for motor protection with overload relay function. Common clamping of S00 and S0 motor starter protectors is not possible, due to the different modular spacings and terminal heights. The 3RV19 15-DB connecting piece is available for connecting busbars from size S0 to size S00.

<sup>2)</sup> Not suitable for 3RV17 and 3RV18 circuit breakers according to UL 489 / CSA C22.2 No.5-02.

<sup>3)</sup> Auxiliary releases and lateral auxiliary switches cannot be used in combination.



Version	Modular spacing	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm								kg

#### Connecting piece for three-phase busbars

 3RV19 15-5DB	45	S00, S0	▶	<b>3RV19 15-5DB</b>		1	1 unit	101	0.042
For connecting three-phase busbars for motor starter protectors of size S0 (left) to size S00 (right)									

Conductor cross-section	Tightening torque	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Solid or stranded	Finely stranded with end sleeve	AWG cables, solid or stranded							kg
mm <sup>2</sup>	mm <sup>2</sup>	AWG	Nm						

#### Three-phase feeder terminals

	<b>Connection from top</b>										
	2.5 ... 25	4 ... 16	10-4	4	S00	▶	<b>3RV19 15-5A</b>	1	1 unit	101	0.040
					S0	▶	<b>3RV19 25-5AB</b>	1	1 unit	101	0.041
	<b>Connection from below<sup>1)</sup></b>										
	2.5 ... 25	4 ... 16	10-4	Input: 4, S00, S0 Output: 2 ... 2.5		▶	<b>3RV19 15-5B</b>	1	1 unit	101	0.110
	<b>Connection from top</b>										
	2.5 ... 50	1.5 ... 35	14-0	4	S2	▶	<b>3RV19 35-5A</b>	1	1 unit	101	0.110

#### Three-phase feeder terminals for constructing "Type E Starters"

Connection from top												
2.5 ... 25	4 ... 16	10-4	2-4	S0	C	3RV19 25-5EB	1	1 unit	101	0.055		
10 ... 50	--	8-0	4.5-6	S2	A	3RV19 35-5E	1	1 unit	101	0.100		

<sup>1)</sup> This terminal is connected in place of a switch, please take the space requirement into account.

## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

## Busbar accessories

Version	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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## Covers for connection tags



3RV19 15-6AB

Touch protection for empty positions

S00, S0  
S2

▶ **3RV19 15-6AB**

1 10 units

101

0.003

▶ **3RV19 35-6A**

1 5 units

101

0.006

## Busbar adapters



8US10 61-5DJ07



8US12 51-5MD07

For motor starter protectors Size	Rated current A	Connecting cable AWG	Adapter length mm	Adapter width mm	Rated voltage V	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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## Busbar adapters for 40 mm systems

For flat copper profiles according to DIN 46433  
Width: 12 and 15 mm  
Thickness: 5 and 10 mm

S00, S0	25	12	121	45	690	▶	<b>8US10 51-5DJ07</b>		1	1 unit	143	0.106
S00, S0 + lateral auxiliary switch	25	12	121	55	690	▶	<b>8US10 61-5DJ07</b>		1	1 unit	143	0.119
S2	56	8	139	55	690	▶	<b>8US10 61-5FK08</b>		1	1 unit	143	0.231
S3	100	4	182	70	400 <sup>1)</sup>	▶	<b>8US11 11-4SM00</b>		1	1 unit	143	0.541
S3	100	4	182	72	415 ... 690 <sup>2)</sup>	▶	<b>8US10 11-4TM00</b>		1	1 unit	143	0.478

## Busbar adapters for 60 mm systems

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

S00, S0	25	12	182	45	690	▶	<b>8US12 51-5DM07</b>		1	1 unit	143	0.183
S2	56	8		55	690	▶	<b>8US12 61-5FM08</b>		1	1 unit	143	0.263
S3	100	4		70	400 <sup>1)</sup>	▶	<b>8US11 11-4SM00</b>		1	1 unit	143	0.541
S3	100	4		72	415 ... 690 <sup>2)</sup>	A	<b>8US12 11-4TM00</b>		1	1 unit	143	0.498
S3 <sup>3)</sup>	70 <sup>4)</sup>	4	215	72	600 <sup>4)</sup>	A	<b>8US12 11-4TR00</b>		1	1 unit	143	0.470

<sup>1)</sup> At rated voltage  
≤ 400 V: short-circuit breaking capacity 50 kA,  
> 400 to 460 V: short-circuit breaking capacity 25 kA.

<sup>2)</sup> Short-circuit breaking capacity 415/500/525 V AC:  
- up to  $I_n = 25$  A: max. 30 kA  
- up to  $I_n = 90$  A: max. 16 kA  
- up to  $I_n = 100$  A: max. 6 kA;  
Short-circuit breaking capacity 690 V AC:  
- max. 12 kA.

<sup>3)</sup> This busbar adapter is approved specially for 3RV17 42 circuit breakers for applications according to UL/CSA.

<sup>4)</sup> 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;  
AC 480 Y/277 V: 65 kA;  
AC 600 Y/347 V: 20 kA.

For additional busbar adapters see Chapter 17  
"SENTRON Switching and Protection Devices, Switch Disconnectors, 8US Busbar Systems" --> "SENTRON 8US Busbar Systems".

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### 3RV19 infeed system

#### Overview

The 3RV19 infeed system is a convenient means of energy supply and distribution for a group of several motor starter protectors or complete load feeders with a screw or spring-type connection up to size S0 (exception: this system cannot be used for the 3RV11, 3RV16 to 3RV18 motor starter protectors/circuit breakers).

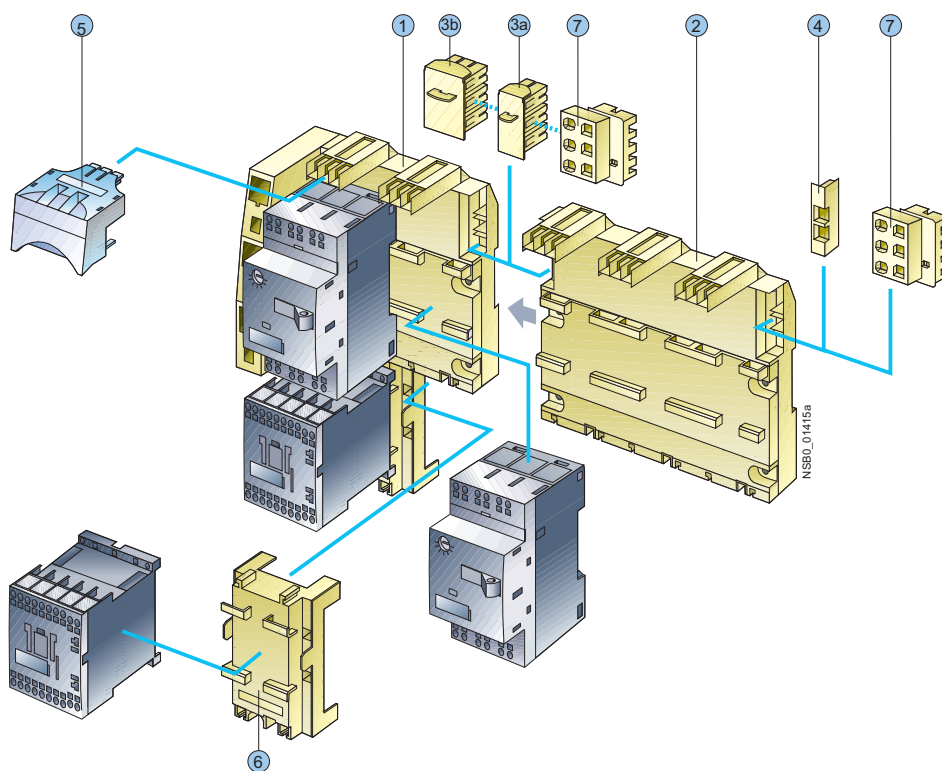
The devices with spring-type connections are available in the SIRIUS modular system up to 5.5 kW at 400 V AC. The motor starter protectors and load feeders with screw terminals for sizes S00 and S0 can also be integrated in the system at the same time.

The system is based on a basic module complete with a lateral incoming unit (three-phase busbar with infeed). This infeed with spring-type terminals is mounted on the right or left depending on the version and can be supplied with a maximum conductor cross-section of 25 mm<sup>2</sup> (with end sleeve). A basic module has two sockets into each of which a motor starter protector can be snapped.

Expansion modules are available for extending the system (three-phase busbars for system expansion). 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 EN 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 technique. Thanks to the lateral infeed, the system also saves space in the control cabinet. The additional overall 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, ring infeed or infeed on one side and outfeed on the other side to supply further loads are all possible. A terminal block with spring-type connections 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.



- ① 3-phase busbar with infeed
- ② 3-phase busbar for system expansion
- ③a Expansion plug
- ③b Extra-wide expansion plug
- ④ End cover
- ⑤ Plug-in connector
- ⑥ Contactor base
- ⑦ Terminal block



**① Three-phase busbars with infeed**

A three-phase busbar with infeed unit is required for connecting the incoming supply. This module comprises one infeed module and 2 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 using spring-type terminals. The Cage Clamp springs permit conductor cross-sections of up to 25 mm<sup>2</sup> with end sleeves. 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 2 or 3 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 extra-wide expansion plug makes the electrical connection between two three-phase busbars, thus performing the same function as the 3RV19 17-5BA00 expansion plug; the electrical characteristics (e. g. a current carrying capacity of 63 A) are identical.

The 3RV19 17-5E expansion plug is 10 mm wider than the 3RV19 17-5BA00 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 Plug-in connector**

The plug-in connector is used for the electrical connection between the three-phase busbar and the motor starter protector. These plug-in connectors are available in versions with screw terminals for sizes S00, S0 or with spring-type terminals for size S00.

**⑥ Contactor base**

Load feeders can be assembled in the system using the contactor base. The contactor bases are suitable for contactors of size S00 with spring-type 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 either below each other (45 mm overall width) or alongside each other (90 mm overall width). It is important to note that mechanical interlocking of the contactors is only possible when they are arranged vertically.

The infeed system is designed for mounting on a 35 mm 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 mating piece that is also 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.

As an alternative to using a contactor base, the 3RA19 11-2E electrical link modules can also be used for direct start load feeders of size S00. Motor starter protector and contactor assemblies can then be directly snapped onto the sockets of the three-phase busbars. For feeders of size S00 and S0, the corresponding 3RA19 11-1.... or 3RA19 21-1... link modules should generally be used. For size S0, it is only possible to integrate direct start load feeders and they must be integrated in the system as complete assemblies.

**⑦ Terminal block**





The 3RV19 17-5D terminal block enables the integration of not only SIRIUS motor starter protectors but also single-phase, two-phase and three-phase components in addition. Using the terminal block the 3 phases can be fed out of the system; single-phase loads can also be integrated in the system as the result. 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. The 3RV19 17-7B 45 mm standard mounting rail for screwing onto the support plate is available in addition in order to be able to plug the single-phase, two-phase and three-phase components onto the infeed system.

# SIRIUS 3RV Motor Starter Protectors up to 100 A


## Accessories

### 3RV19 infeed system

#### Selection and ordering data

Type	Version	For motor starter protectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Three-phase busbars with infeed									
	Three-phase busbars with infeed incl. 3RV19 17-6A end cover	For 2 motor starter protectors with infeed from the left	S00 (Cage Clamp) <sup>1)</sup> , S00, S0 (screw)	A	3RV19 17-1A	1	1 unit	101	0.438
		For 2 motor starter protectors with infeed from the right	S00 (Cage Clamp) <sup>1)</sup> , S00, S0 (screw)	A	3RV19 17-1E	1	1 unit	101	0.438
Three-phase busbars for system expansion									
	Three-phase busbars incl. 3RV19 17-5BA00 expansion plug	For 2 motor starter protectors	S00 (Cage Clamp) <sup>1)</sup> , S00, S0 (screw)	A	3RV19 17-4A	1	1 unit	101	0.261
		For 3 motor starter protectors	S00 (Cage Clamp) <sup>1)</sup> , S00, S0 (screw)	A	3RV19 17-4B	1	1 unit	101	0.364
Plug-in connectors									
	Plug-in connectors to make contact with the motor starter protectors	Single-unit packaging	S00 (Cage Clamp) <sup>1)</sup>	A	3RV19 17-5AA00	1	1 unit	101	0.053
		Multi-unit packaging	S00 (Cage Clamp) <sup>1)</sup>	A	3RV19 17-5A	1	10 units	101	0.048
		Single-unit packaging	S00 (screw)	A	3RV19 17-5CA00	1	1 unit	101	0.040
			S0 (screw)	A	3RV19 27-5AA00	1	1 unit	101	0.040
		Multi-unit packaging	S00 (screw)	A	3RV19 17-5C	1	10 units	101	0.036
			S0 (screw)	A	3RV19 27-5A	1	10 units	101	0.036

<sup>1)</sup> Compatible with the following motor starter protectors: 3RV10 11-...2.  
(size S00, Cage Clamp) product version E03 and upwards.

Type	Version	For contactors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Contactor bases</b>									
	<b>Contactor bases</b> for mounting direct-on-line or reversing starters	Single-unit packaging	S00	A	<b>3RV19 17-7AA00</b>	1	1 unit	101	0.042
		Multi-unit packaging	S00	A	<b>3RV19 17-7A</b>	1	10 units	101	0.048

\* You can order this quantity or a multiple thereof.

## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

## 3RV19 infeed system

Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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## Terminal blocks



3RV19 17-5D

**Terminal blocks**  
For integration of single-phase, two-phase and three-phase components

Single-unit packaging

A

3RV19 17-5D

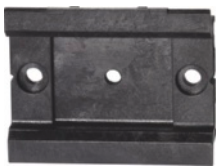
1

1 unit

101

0.050

## 45 mm standard mounting rails



3RV19 17-7B

**45 mm standard mounting rails**  
for mounting onto three-phase busbar

Single-unit packaging

A

3RV19 17-7B

1

1 unit

101

0.261

## Extra-wide expansion plugs



3RV19 17-5E

**Extra-wide expansion plugs**  
As accessory

Single-unit packaging

A

3RV19 17-5E

1

1 unit

101

0.050

## Expansion plug



3RV19 17-5BA00

**Expansion plugs<sup>1)</sup>**  
as spare part

Single-unit packaging

A

3RV19 17-5BA00

1

1 unit

101

0.035

## End cover



3RV19 17-6A

**End covers<sup>2)</sup>**  
as spare part

Multi-unit packaging

A

3RV19 17-6A

100

10 units

101

0.500

<sup>1)</sup> The expansion plug is included in the scope of supply of the 3RV19 17-4 three-phase busbars for system expansion.

<sup>2)</sup> The end cover is included in the scope of supply of the 3RV19 17-1 three-phase busbars with infeed system.

# SIRIUS 3RV Motor Starter Protectors up to 100 A

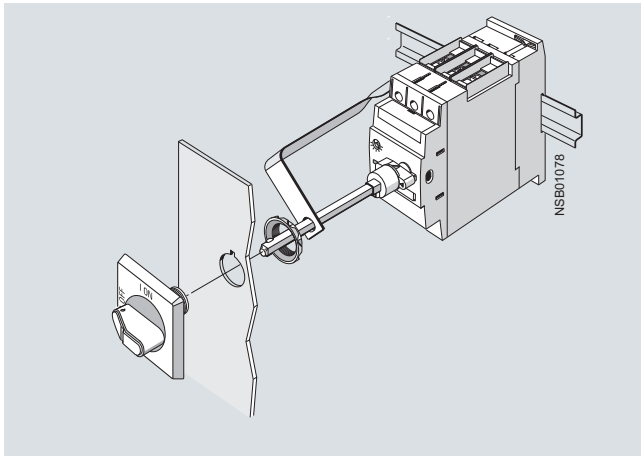
## Accessories

### Rotary operating mechanisms

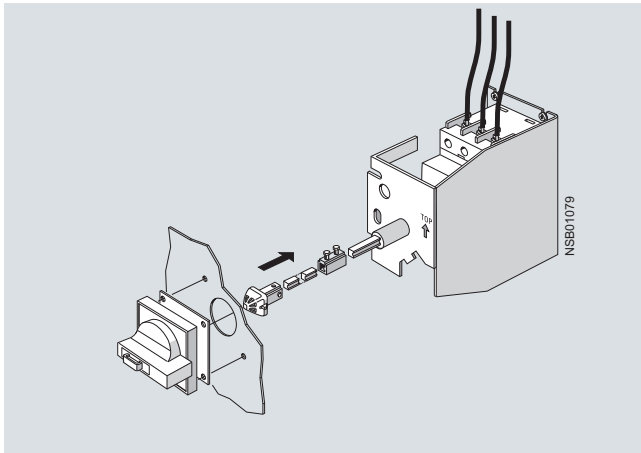
#### Overview

##### Door-coupling rotary operating mechanisms

Motor starter protectors 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 is closed, the operating mechanism is coupled. When the motor starter protector 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 3 padlocks. Inadvertent opening of the door is not possible in this case either.



3RV19 26-0K door-coupling rotary operating mechanism



3RV29 26-2B door-coupling rotary operating mechanism for arduous conditions

##### Remote motorized operating mechanisms

3RV1 motor starter protectors are manually operated controls. 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.

The remote motorized operating mechanism allows the motor starter protectors 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.

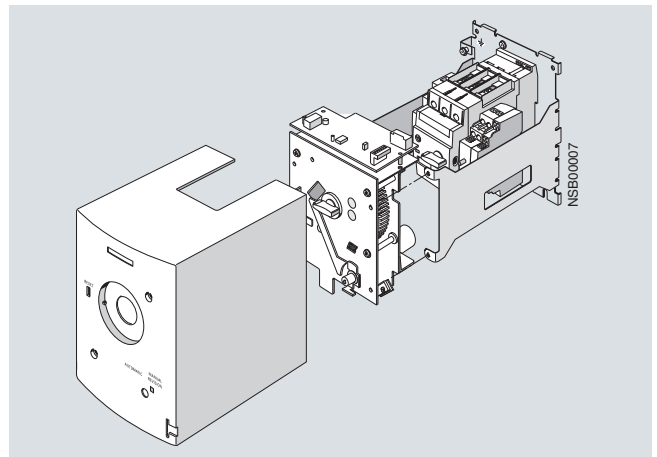
If the motor starter protector is tripped as a result of overload or short-circuit, it will be in tripped position. For reclosing, the remote motorized operating mechanism must first be set manually or electrically to the 0 position (electrically by means of the Open command). Then it can be reclosed.

The remote motorized operating mechanism is available for motor starter protectors of size S2 ( $I_{n\max} = 50\text{ A}$ ) and S3 ( $I_{n\max} = 100\text{ A}$ ) that are designed for control voltages of 230 V AC and 24 V DC. The motor starter protector is fitted into the remote motorized operating mechanism as shown in the drawing.

In the "MANUAL" position, the motor starter protector in the remote motorized operating mechanism can continue to be switched manually on site. In the "AUTOMATIC" position, the motor starter protector 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 second. On voltage failure during the switching operation it is ensured that the motor starter protector 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 3RV19 21-1M signaling switch that might be installed.



3RV19 .6-3A.. remote motorized operating mechanism

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Rotary operating mechanisms

#### Selection and ordering data

Version	Color of handle	Version of extension shaft	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		mm								kg

#### Door-coupling rotary operating mechanisms



3RV29 26-0B

The door-coupling rotary operating mechanisms consist of a knob, a coupling driver and an extension shaft of 130/330 mm in length (6 mm x 6 mm).

The door-coupling rotary operating mechanisms are designed to degree of protection IP65. The door locking device prevents accidental opening of the control cabinet door in the ON position of the motor starter protector. The OFF position can be locked with up to 3 padlocks.

##### Door-coupling rotary operating mechanisms

Black	130	S0, S2, S3	▶	<b>3RV29 26-0B</b>	1	1 unit	101	0.111
	330	S0, S2, S3	▶	<b>3RV29 26-0K</b>	1	1 unit	101	0.324

##### EMERGENCY-STOP door-coupling rotary operating mechanisms

Red/yel-low	130	S0, S2, S3	▶	<b>3RV29 26-0C</b>	1	1 unit	101	0.110
	330	S0, S2, S3	▶	<b>3RV29 26-0L</b>	1	1 unit	101	0.316

#### Door-coupling rotary operating mechanisms for arduous conditions



3RV29 36-2B

The door-coupling rotary operating mechanisms consist of a knob, 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 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. The OFF position can be locked with up to 3 padlocks.

Laterally mountable auxiliary releases and two-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	S0	▶	<b>3RV29 26-2B</b>	1	1 unit	101	1.180
		S2	▶	<b>3RV29 36-2B</b>	1	1 unit	101	1.570
		S3	▶	<b>3RV29 46-2B</b>	1	1 unit	101	1.722

##### EMERGENCY-STOP door-coupling rotary operating mechanisms

Red/yel-low	300	S0	▶	<b>3RV29 26-2C</b>	1	1 unit	101	1.188
		S2	▶	<b>3RV29 36-2C</b>	1	1 unit	101	1.486
		S3	▶	<b>3RV29 46-2C</b>	1	1 unit	101	1.732

Version	Rated control supply voltage $U_s$	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
									kg

#### Remote motorized operating mechanisms



3RV19 .6-3A..

##### Remote motorized operating mechanisms

50/60 Hz, 230 V AC	S2	B	<b>3RV19 36-3AP0</b>	1	1 unit	101	3.520
24 V DC	S2	B	<b>3RV19 36-3AB4</b>	1	1 unit	101	3.420
50/60 Hz, 230 V AC	S3	B	<b>3RV19 46-3AP0</b>	1	1 unit	101	3.441
24 V DC	S3	B	<b>3RV19 46-3AB4</b>	1	1 unit	101	3.357

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

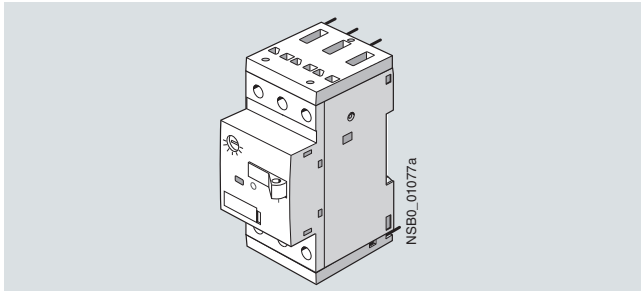
### Mounting accessories

#### Overview

##### Solder pin connections

Solder pin connections are available for the main contacts and transverse auxiliary switches of size S00 motor starter protectors.

The prepared terminal parts are clamped to the upper and lower screw terminals of the motor starter protectors which allows them to be soldered into printed circuit boards.



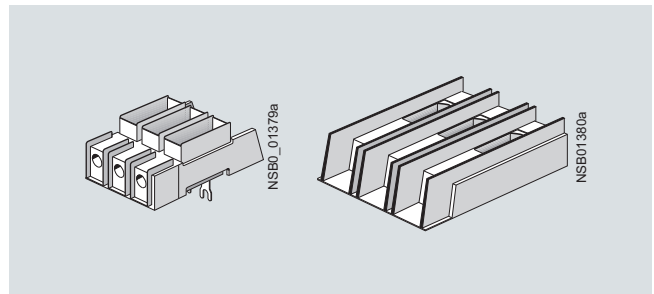
3RV19 18-5A

##### Terminals for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508

The 3RV10 motor starter protectors size S0 and higher are approved according to UL 508 as "Self-Protected Combination Motor Controllers (Type E)".

This requires increased clearance and creepage distances (1 inch and 2 inches respectively) at the input side of the device, which are achieved by mounting terminal blocks.

- Size S0: The 3RV19 28-1H terminal block is simply screwed onto the basic unit.
- Size S2: The basic unit is already compliant with the new clearance and creepage distance requirements.
- Size S3: The standard box terminal must be replaced by the 3RT19 46-4GA07 terminal block.



3RV19 28-1H (left), 3RT19 46-4GA07 (right)

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

Three-phase feeder terminals are required for constructing "Type E Starters" with an insulated busbar system (see [Busbar Accessories](#)).

#### Selection and ordering data

Version	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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#### Covers



3RV1 (size S3) with 3RT19 46-4EA1 (left) 3RV19 08-0P (right)

<b>Terminal covers for box terminals</b> Additional touch protection to be fitted at the box terminals (2 units mountable per device)	S2	▶	<b>3RT19 36-4EA2</b>	1	1 unit	101	0.020
	S3	▶	<b>3RT19 46-4EA2</b>	1	1 unit	101	0.025
<b>Terminal covers</b> For cable lug and busbar connection for maintaining the required voltage clearance and as touch protection if box terminal is removed (2 units can be mounted per motor starter protector)	S3	▶	<b>3RT19 46-4EA1</b>	1	1 unit	101	0.040
<b>Scale covers</b> Sealable, for covering the set current scale	S00, S0, S2, S3	▶	<b>3RV19 08-0P</b>	100	10 units	101	0.100



## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

## Mounting accessories

Version	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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## Fixing accessories



3RB19 00-0B

**Push-in lugs**

For screwing the motor starter protector onto mounting plates.

For each motor starter protector, 2 units are required.

S00, S0

A

**3RB19 00-0B**

100

10 units

101

0.100

## Solder pin connections



3RV19 18-5A with motor starter protector

**For main contacts**

For soldering the main conductor connections of a motor starter protector to a printed circuit board

(1 set = 2 units per motor starter protector)

S00

B

**3RV19 18-5A**

1

4 units

101

0.030

**For main and auxiliary contacts**

For soldering the main conductor connections and the auxiliary conductor connections of the transverse auxiliary switch 1 NO + 1 NC of a motor starter protector to a printed circuit board

(1 set = 3 units per motor starter protector)

S00

B

**3RV19 18-5B**

1

4 units

101

0.044

Version	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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## Terminals for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508



3RV19 28-1H

Note: UL 508 demands for "Combination Motor Controller Type E" 1-inch clearance and 2-inch creepage distance at line side. The following terminal blocks must be used in 3RV10 motor starter protectors of sizes S0 and S3.

The 3RV10 motor starter protector in size S2 conforms with the required clearance and creepage distances without a terminal block. Terminal blocks are not required for use according to CSA.



3RT19 46-4GA07

With size S0, these terminal blocks cannot be used in combination with 3RV19 .5 three-phase busbars and with size S3, they cannot be used with a transverse auxiliary switch.

For construction with three-phase busbars, see "Busbar accessories".

**Terminal blocks type E**

For extended clearance and creepage distances (1 and 2 inch)

S0

S3

▶

A

**3RV19 28-1H****3RT19 46-4GA07**

1

1 unit

101

0.083

1

1 unit

101

0.155

Version	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
---------	-----------------------------------	----	-----------	--------------	-------------------	-----	----	--------------------------

## Auxiliary terminals, 3-pole



3RT19 46-4F

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

S3

B

**3RT19 46-4F**

1

1 unit


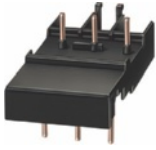
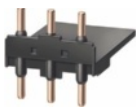


101

0.035

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Mounting accessories

Version	Method of operation	Size	Contactor	Circuit breakers	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
						Order No.	Price per PU				kg
Link modules, single-unit packaging											
	AC/DC	S00	S00	▶	3RA19 11-1AA00	1	1 unit	101	0.027		
		S00	S0	▶	3RA19 21-1DA00	1	1 unit	101	0.028		
	AC	S0	S0	▶	3RA19 21-1AA00	1	1 unit	101	0.037		
		S2	S2	▶	3RA19 31-1AA00	1	1 unit	101	0.042		
		S3	S3	▶	3RA19 41-1AA00	1	1 unit	101	0.090		
	DC	S0	S0	▶	3RA19 21-1BA00	1	1 unit	101	0.039		
		S2	S2	▶	3RA19 31-1BA00	1	1 unit	101	0.043		
		S3	S3	▶	3RA19 41-1BA00	1	1 unit	101	0.089		
Link modules, multi-unit packaging											
	AC/DC	S00	S00	▶	3RA19 11-1A	1	10 units	101	0.019		
		S00	S0	▶	3RA19 21-1D	1	10 units	101	0.021		
	AC	S0	S0	▶	3RA19 21-1A	1	10 units	101	0.028		
		S2	S2	▶	3RA19 31-1A	1	5 units	101	0.033		
		S3	S3	▶	3RA19 41-1A	1	5 units	101	0.072		
	DC	S0	S0	▶	3RA19 21-1B	1	10 units	101	0.030		
		S2	S2	▶	3RA19 31-1B	1	5 units	101	0.034		
		S3	S3	▶	3RA19 41-1B	1	5 units	101	0.073		
Version	Method of operation	Size	Contactor	Circuit breakers	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
											kg
Hybrid link modules, single-unit packaging											
	AC/DC	S00	S00	▶	3RA19 11-2FA00	1	1 unit	101	0.038		
		S00	S0	▶	3RA19 21-2FA00	1	1 unit	101	0.028		
Hybrid link modules, multi-unit packaging											
	AC/DC	S00	S00	▶	3RA19 11-2F	1	10 units	101	0.031		
		S00	S0	▶	3RA19 21-2F	1	10 units	101	0.030		

\* You can order this quantity or a multiple thereof.

## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

## Mounting accessories

Version	Size	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Order No.	Price per PU						kg

## Adapters and link modules for Cage Clamp terminals

3RA19 11-2A +  
8US10 51-5CM47

3RA19 11-2E

<b>Link modules, Cage Clamp</b> Electrical connection between motor starter protector and contactor (busbar adapter not included in scope of supply)	S00	▶	<b>3RA19 11-2A</b>	1	10 units	101	0.016
<b>Link modules, Cage Clamp with mechanical connections</b> Mechanical and electrical connection between motor starter protector and contactor	S00	▶	<b>3RA19 11-2E</b>	1	10 units	101	0.028
<b>Standard mounting rail adapters</b> With 2 standard mounting rails 45 mm wide, one movable	S00	▶	<b>3RA19 22-1L</b>	1	5 units	101	0.413
<b>Busbar adapters</b> 45 mm wide, 182 mm long, adapted for Cage Clamp motor starter protectors. An additional standard mounting rail must be mounted for an additional contactor.	40 mm busbar system	▶	<b>8US10 51-5CM47</b>	1	1 unit	143	0.193
	60 mm busbar system	▶	<b>8US12 51-5CM47</b>	1	1 unit	143	0.190
<b>35 mm standard mounting rails</b> Plastic, including fixing screws	--	A	<b>8US19 98-7CA15</b>	1	10 units	143	0.009

Version	Size	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Order No.	Price per PU						kg

## Tools for opening Cage Clamp terminals



8WA2 803

<b>Screwdrivers</b> For all SIRIUS devices with Cage Clamp terminals up to max. 2.5 mm² conductor cross-section, length approx. 175 mm	Green, partially insulated	C	<b>8WA2 880</b>	1	1 unit	041	0.034
	Green	C	<b>8WA2 803</b>	1	1 unit	041	0.024

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Enclosures and front plates

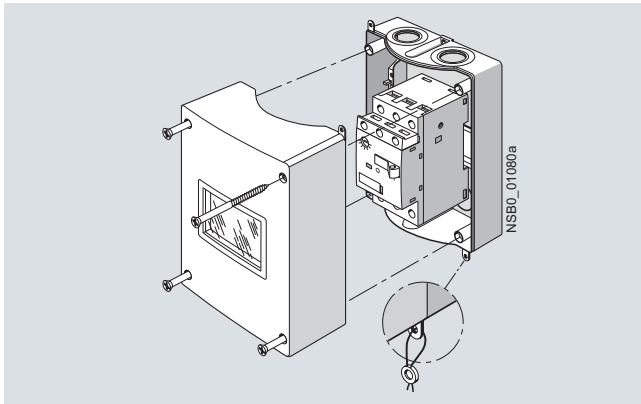
#### Overview

##### Enclosures

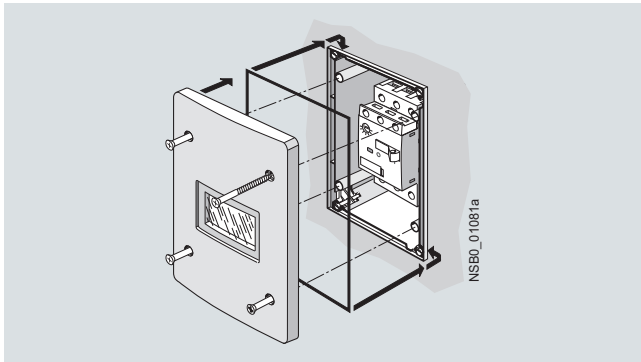
For stand-alone installation of motor starter protectors of sizes S00 ( $I_{n\max} = 12\text{ A}$ ), S0 ( $I_{n\max} = 25\text{ A}$ ) and S2 ( $I_{n\max} = 50\text{ A}$ ), molded-plastic and cast-aluminum enclosures for surface mounting and molded-plastic enclosures for flush mounting are available in 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

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 and lateral auxiliary switch, whereas wide enclosures and enclosures for S2 motor starter protectors also provide space for a laterally mounted auxiliary release. There is no provision for installing a motor starter protector with a signaling switch.

With S00 motor starter protectors, the switch rocker is operated by means of the actuator diaphragm of the enclosure. A locking device, capable of holding up to three padlocks, can be fitted onto the actuator diaphragm to prevent the motor starter protector from closing during maintenance work, for example.

A mushroom-shaped EMERGENCY-STOP knob can be fitted in place of the locking device. If it is actuated abruptly, the motor starter protector opens and the mushroom-shaped knob latches. The knob can be unlatched again either by turning it or by using a special key. The motor starter protector can subsequently be switched on again.

The molded-plastic enclosures of the size S0 and S2 motor starter protectors are fitted with a rotary operating mechanism.

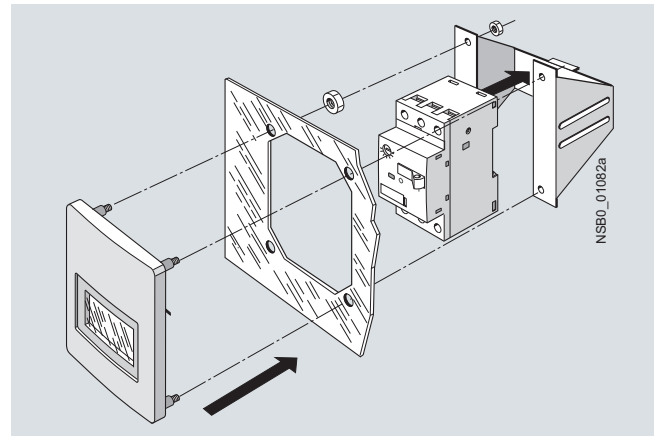
The enclosures can be supplied with either a black rotary operating mechanism or with an EMERGENCY-STOP rotary operating mechanism with a red/yellow knob.

All rotary operating mechanisms can be locked in the open position with up to 3 padlocks.

##### Front plates

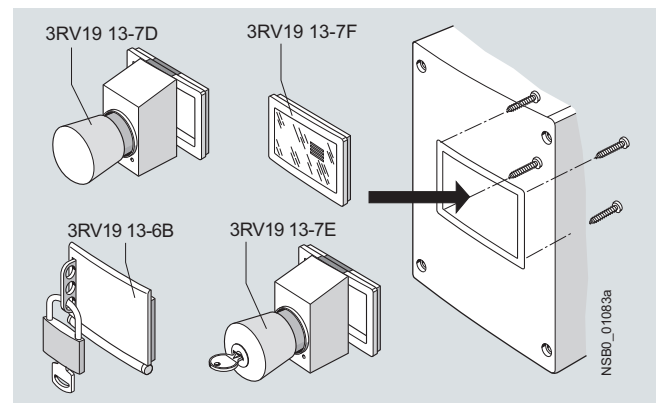
Motor starter protectors are frequently required to be actuated in any enclosure. Front plates equipped with an actuator diaphragm for size S00 motor starter protectors, or rotary operating mechanism for S0 to S3 motor starter protectors are available for this purpose.

The front plates for size S00 have a holder into which the motor starter protectors can be snapped. A holder for size S0 motor starter protectors is available for front plate sizes S0 to S3.



Front plate for size S00

##### Accessories for enclosures and front plates





Accessories for size S00

## SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

## Enclosures and front plates

## Selection and ordering data





	Version	Degree of protection	Integrated terminals	Overall width	For 3RV10 to 3RV16 motor starter protectors, size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
												kg
Molded-plastic enclosures for surface mounting												
	With actuator diaphragm	IP55	N and PE	54 mm (for switch + lateral auxiliary switch)	S00	▶	3RV19 13-1CA00		1	1 unit	101	0.296
				72 mm (for switch + lateral auxiliary switch + auxiliary release)	S00	▶	3RV19 13-1DA00		1	1 unit	101	0.342
3RV19 13-1DA00	With rotary operating mechanism, lockable in 0 position	IP55	N and PE	54 mm (for switch + lateral auxiliary switch)	S0	▶	3RV19 23-1CA00		1	1 unit	101	0.332
				72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	▶	3RV19 23-1DA00		1	1 unit	101	0.381
				82 mm (for switch + lateral auxiliary switch + auxiliary release)	S2	A	3RV19 33-1DA00		1	1 unit	101	1.134
	With EMERGENCY-STOP rotary operating mechanism, lockable in 0 position	IP55	N and PE	54 mm (for switch + lateral auxiliary switch)	S0	▶	3RV19 23-1FA00		1	1 unit	101	0.329
				72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	▶	3RV19 23-1GA00		1	1 unit	101	0.372
				82 mm (for switch + lateral auxiliary switch + auxiliary release)	S2	A	3RV19 33-1GA00		1	1 unit	101	1.136
Cast aluminum enclosures for surface mounting												
	With rotary operating mechanism, lockable in 0 position	IP65	PE <sup>1)</sup>	72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	▶	3RV19 23-1DA01		1	1 unit	101	1.015
3RV19 23-1DA01	With EMERGENCY-STOP rotary operating mechanism, lockable in 0 position	IP65	PE <sup>1)</sup>	72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	A	3RV19 23-1GA01		1	1 unit	101	1.008
Molded-plastic enclosure for flush mounting												
	With actuator diaphragm	IP55 (front side)	N and PE	72 mm (for switch + lateral auxiliary switch + auxiliary release)	S00	A	3RV19 13-2DA00		1	1 unit	101	0.416
3RV19 13-2DA00	With rotary operating mechanism, lockable in 0 position	IP55 (front side)	N and PE	72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	A	3RV19 23-2DA00		1	1 unit	101	0.426
	With EMERGENCY-STOP rotary operating mechanism, lockable in 0 position	IP55 (front side)	N and PE	72 mm (for switch + lateral auxiliary switch + auxiliary release)	S0	A	3RV19 23-2GA00		1	1 unit	101	0.417
3RV19 23-2DA00												

<sup>1)</sup> If required, an additional N terminal can be mounted (e. g. 8WA1 011-1BG11).

# SIRIUS 3RV Motor Starter Protectors up to 100 A

## Accessories

### Enclosures and front plates

Version	Degree of protection	For 3RV10 to 3RV16 motor starter protectors, size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Front plates</b>									
 3RV19 13-4C	<b>Molded-plastic front plates with actuator diaphragm</b> For actuating 3RV1 motor starter protectors in any enclosures, includes holder for motor starter protector.	IP55 (front side)	S00	A	<b>3RV19 13-4C</b>	1	1 unit	101	0.216
 3RV19 23-4B + 3RV19 23-4G	<b>Molded-plastic front plates with rotary operating mechanism, lockable in 0 position</b> For actuation of 3RV1 motor starter protectors in any enclosure.	IP55 (front side)	S0, S2, S3	▶	<b>3RV19 23-4B</b>	1	1 unit	101	0.124
	<b>Molded-plastic front plates with EMERGENCY-STOP rotary operating mechanism, red/yellow, lockable in 0 position</b> EMERGENCY-STOP actuation of 3RV1 motor starter protectors in any enclosure.	IP55 (front side)	S0, S2, S3	A	<b>3RV19 23-4E</b>	1	1 unit	101	0.124
	<b>Holders for front plates</b> Holder is mounted on front plate, motor starter protector with and without accessories is snapped in.	--	S0	▶	<b>3RV19 23-4G</b>	1	1 unit	101	0.188
<b>Accessories for enclosures</b>									
 Molded-plastic enclosure for surface mounting with 3RV19 13-7D	<b>EMERGENCY-STOP mushroom buttons, red/yellow</b> For 3RV19 13-... enclosures and front panels Latching mushroom buttons, unlatch by turning Cannot be used in combination with locking device	IP55	S00	▶	<b>3RV19 13-7D</b>	1	1 unit	101	0.108
	<b>EMERGENCY-STOP mushroom buttons, red/yellow with lock</b> For 3RV19 13-... enclosures and front panels RONIS lock, lock No. SB 30, supplied with 2 keys Latching mushroom button, unlatch with key Cannot be used in combination with locking device	IP55	S00	A	<b>3RV19 13-7E</b>	1	1 unit	101	0.144
	<b>Locking devices</b> For 3RV19 13-... enclosures and front plates For 3 padlocks with max. 8 mm shackle diameter. Cannot be used in combination with EMERGENCY-STOP mushroom button	IP55	S00	▶	<b>3RV19 13-6B</b>	1	1 unit	101	0.074
	<b>Spare actuator diaphragms</b> Holders and screws are included in scope of supply	IP55	S00	A	<b>3RV19 13-7F</b>	1	1 unit	101	0.023
Version	Rated control supply voltage $U_s$	For motor starter protectors Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Indicator lights</b>									
 3RV19 03-5B	<b>Indicator lights</b> For all enclosures and front plates With glow lamp and colored lenses red, green, yellow, orange and clear	110 ... 120 220 ... 240 380 ... 415 480 ... 500	S00, S0, S2	C C C C	<b>3RV19 03-5B</b> <b>3RV19 03-5C</b> <b>3RV19 03-5E</b> <b>3RV19 03-5G</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	101 101 101 101	0.027 0.026 0.026 0.027

\* You can order this quantity or a multiple thereof.