

Industrial Controls

SIRIUS 3R_1* in sizes S00/S0 to S12

Catalog Add-On IC 10 AO · 2012



SIRIUS

Answers for industry.

SIEMENS

Protection Equipment



Price Groups

PG 41B, 41E, 41F, 41G, 41H, 41J, 143

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Introduction

Overview



Type	3RV10	3RV11	3RV13	3RV14	3RV16	3RV16	3RV17	3RV18
SIRIUS 3RV1 motor starter protectors up to 100 A								
Applications								
System protection	✓ ¹⁾	✓ ¹⁾	--	--	--	--	✓	✓
Motor protection	✓	--	--	--	--	--	--	--
Motor protection with overload relay function	--	✓	--	--	--	--	--	--
Starter combinations	--	--	✓	--	--	--	--	--
Transformer protection	--	--	--	✓	--	--	✓	✓
Fuse monitoring	--	--	--	--	✓	--	--	--
Voltage transformer circuit breaker for distance protection	--	--	--	--	--	✓	--	--
Size	S00, S0, S2, S3	S0, S2, S3	S0, S2, S3	S0, S2	S00	S00	S0, S3	S0
Rated current I_n								
• Size S00	A Up to 12	--	--	--	0,2	Up to 3	--	--
• Size S0	A Up to 25	Up to 25	Up to 25	Up to 20	--	--	Up to 22	Up to 20
• Size S2	A Up to 50	Up to 50	Up to 50	Up to 40	--	--	--	--
• Size S3	A Up to 100	Up to 100	Up to 100	--	--	--	Up to 70	--
Rated operational voltage U_e according to IEC	V 690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	400 AC	690 AC	690 AC
Rated frequency	Hz 50/60	50/60	50/60	50/60	50/60	16 ² /3 ... 60	50/60	50/60
Trip class	CLASS 10, 20	CLASS 10	--	CLASS 10	--	--	--	--
Thermal overload release	A 0,11 ... 0,16 up to 80 ... 100	0,11 ... 0,16 up to 80 ... 100	None ³⁾	0,11 ... 0,16 up to 28 ... 40	0,2	1,4 ... 3	0,16 ... 70 non-adjustable	0,16 ... 20 non-adjustable
Electronic release A multiple of the rated current	13 times	13 times	13 times	20 times	6 times	4 ... 7 times	13 times	20 times
Short-circuit breaking capacity I_{cu} at 400 V AC	kA 50/100	50/100	50/100	50/100	100	50	4)	4)
Pages	7/8	7/11	7/12	7/13	7/14	7/17	7/15	7/16

Accessories								
For sizes	S00 S0 S2 S3	S0 S2 S3	S0 S2 S3	S0 S2	S00	S00	S0, S3	S0
Auxiliary switches	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	✓ ⁵⁾	✓ ⁵⁾
Signaling switches	-- ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	--	--	--	--
Undervoltage releases	✓ ✓ ✓ ✓	-- -- --	✓ ✓ ✓	✓ ✓	✓	✓	✓	✓
Shunt releases	✓ ✓ ✓ ✓	-- -- --	✓ ✓ ✓	✓ ✓	✓	✓	✓	✓
Isolator modules	-- ✓ ✓ --	✓ ✓ --	✓ ✓ --	✓ ✓	--	--	--	--
Three-phase busbar system	✓ ✓ ✓ --	-- ✓ --	✓ ✓ --	✓ ✓	✓	✓	--	--
Busbar adapters	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Rotary operating mechanisms	-- ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	--	--	✓	✓
Remote motorized operating mechanisms	-- -- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓	--	--	--	--
Link modules	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Enclosures for surface mounting	✓ ✓ ✓ --	✓ ✓ --	✓ ✓ --	✓ ✓	✓	✓	--	--
Enclosures for flush mounting	✓ ✓ -- --	✓ -- --	✓ -- --	✓ --	✓	✓	--	--
Front plates	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Infeed system	✓ ✓ -- --	-- -- --	✓ -- --	✓ --	--	--	--	--
Pages	7/18 ... 7/36							

✓ Has this function or can use this accessory
 -- Does not have this function or cannot use this accessory

1) For symmetrical loading of the three phases.

2) With molded-plastic enclosure 500 V AC. DC applications see "Technical Specifications" → "DC Short-Circuit Breaking Capacity" in Catalog IC 10 · 2012.

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

4) According to UL 489
 - at 480 Y/277 V AC: For size S0 50 kA, for size S3 65 kA;
 - at 480 V AC: for size S3 (10 to 30 A) 65 kA.

5) Only lateral auxiliary switches can be fitted.



Type	3RV10			3RV13					
SIRIUS 3RV1 molded case motor starter protectors up to 800 A¹⁾									
Applications									
Motor protection	✓			--					
Starter combinations	--			✓					
Switching capacity	Standard switching capacity			Standard switching capacity			Increased switching capacity		
Size	3RV10 63	3RV10 73	3RV10 83	3RV13 53	3RV13 63	3RV13 73	3RV13 83	3RV13 64	3RV13 74
Rated current I_n	A 100 ... 200	400	630	1 ... 32	100 ... 250	400, 630	630, 800	100 ... 250	400
Rated operational voltage U_e according to IEC	690 AC			690 AC					
Rated frequency	Hz 50/60			50/60					
Trip class	CLASS 10A, 10, 20, 30			-- ¹⁾					
Thermal overload release	A 40 ... 100 up to A 252 ... 630			None ¹⁾					
Electronic release A multiple of the rated current	Adjustable, 6 ... 13 times			Non-adjustable 1 ... 12.5 A: 13 times Adjustable 20 A, 32 A: 6 ... 12 times		1 ... 10 times			
Short-circuit breaking capacity I_{cu} at 400 V AC	kA 120	120	100	85	120	120	100	200	200
Trip unit	TU 4			TU 1: 1 ... 12.5 A TU 2: 20 A, 32 A		TU 3			

Accessories¹⁾									
For molded case motor starter protectors	3RV10 63	3RV10 73	3RV10 83	3RV13 53	3RV13 63	3RV13 73	3RV13 83	3RV13 64	3RV13 74
Auxiliary switches	✓	✓	✓	✓	✓	✓	✓	✓	✓
Undervoltage releases	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shunt releases	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rotary operating mechanisms	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connection methods									
• Front-extended terminals	✓	✓	--	✓	✓	✓	--	✓	✓
• Front-accessible cable terminals	✓	✓	✓	✓	✓	✓	✓	✓	✓
• Rear terminals	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = Has this function or can use this accessory

-- = Does not have this function or cannot use this accessory

¹⁾ More information see [Catalog IC 10 · 2012](#).

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



Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

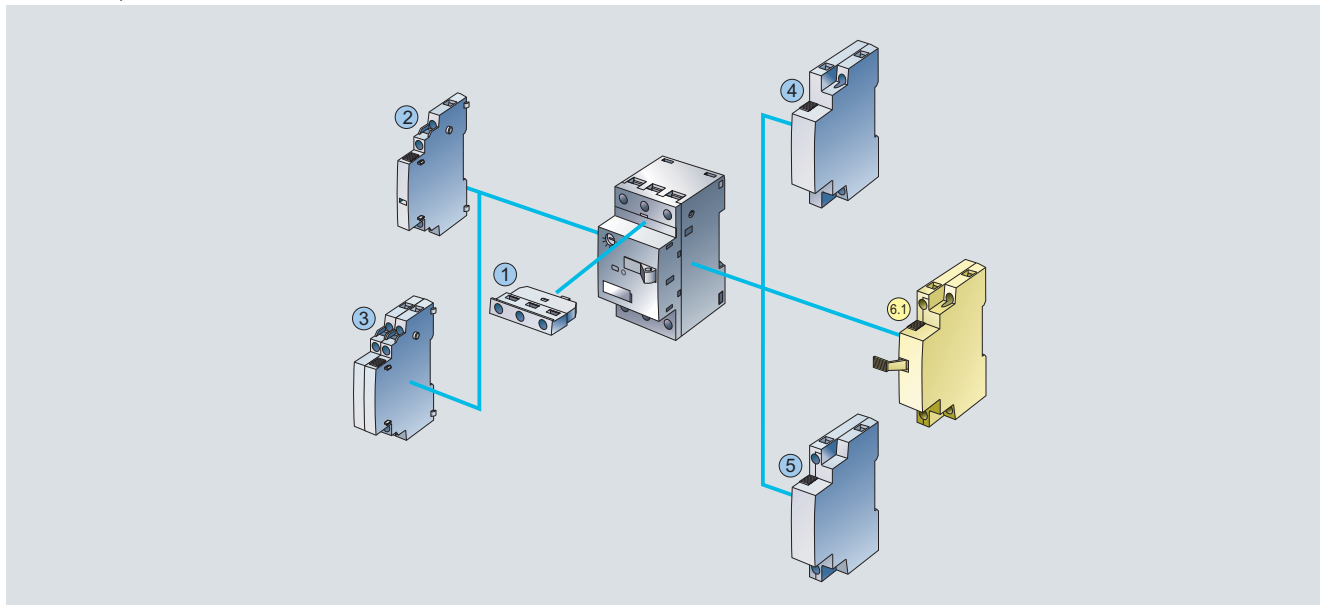
General data

Overview

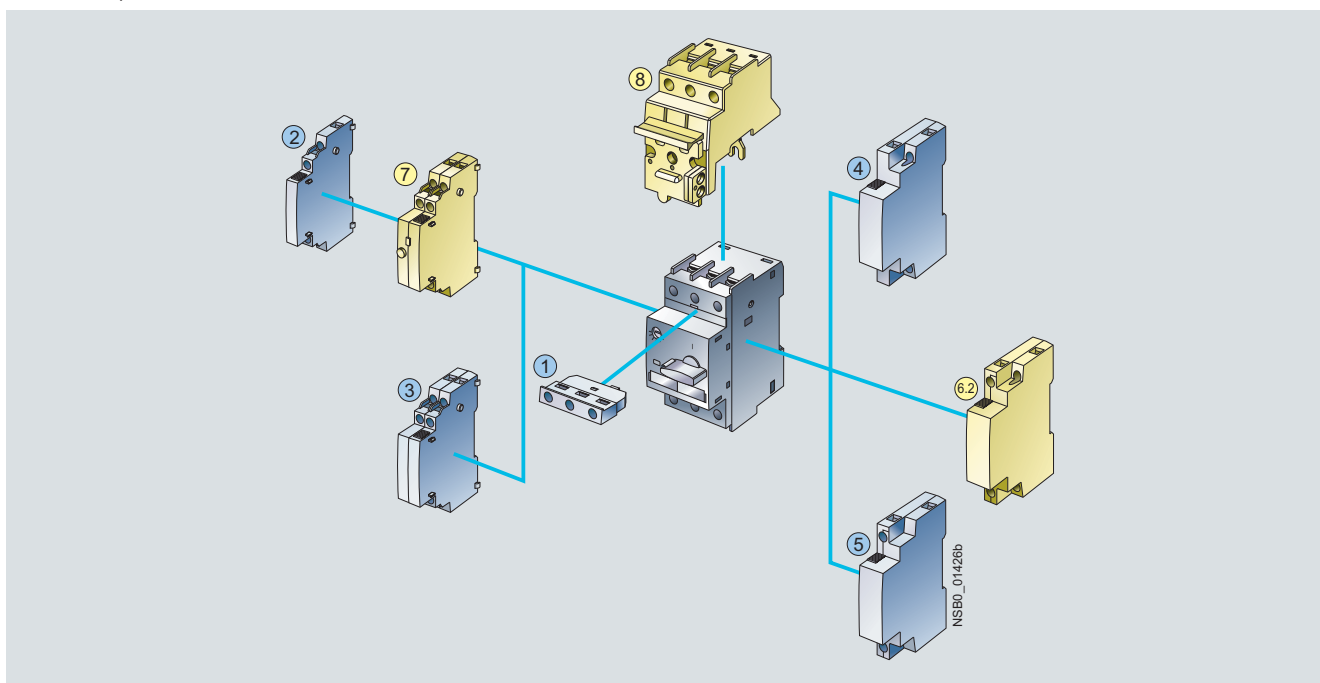
The following illustration shows our 3RV1 motor starter protectors with the accessories which can be mounted for the various sizes, see also "Introduction" → "Overview" on page 7/2.

"Accessories" see page 7/18 onwards.

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, S2

Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors 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 in accordance with IEC 60947 for switching and protecting three-phase induction motors of up to 45 kW at 400 V AC and for other loads with rated currents of up to 100 A.

The 3RV1 motor starter protectors are generally approved according to IEC and UL/CSA.

According to UL 508 the 3RV1 motor starter protectors in sizes S00 to S3 are approved as

- "Manual motor controllers"
- "Manual Motor Controllers" for "Group Installations"
- "Manual Motor Controllers Suitable for Tab Conductor Protection in Group Installations"
- "Self-Protected Combination Motor Controller (Type E)"
This approval does not apply to size S00. Furthermore, the 3RV10 motor starter protectors in sizes S0 and S3 must be equipped with additional feeder terminals.

3RV2 motor starter protectors in sizes S00 and S0 up to 40 A [see Catalog IC 10 · 2012](#).

The 3RV17 and 3RV18 are approved as circuit breakers according to UL 489; they are a special variant of the 3RV1 motor starter protectors.

Type of construction

The 3RV1 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

3RV2 motor starter protectors in sizes S00 and S0 up to 40 A [see Catalog IC 10 · 2012](#).

Circuit breakers acc. to UL 489

The 3RV17 and 3RV18 circuit breakers are available two sizes:

- Size S0 - width 45 mm
3RV17 21: max. rated current 22 A at 480 Y/277 V AC
3RV18 21: max. rated current 20 A at 480 Y/277 V AC
- Size S3 - width 70 mm
3RV17 42: max. rated current 70 A at 480 Y/277 V AC, max. rated current 10 A to 30 A at 480 V AC.

3RV27 and 3RV28 circuit breakers in size S00 up to 15 A [see Catalog IC 10 · 2012](#).

Connection methods

The SIRIUS 3RV1 motor starter protectors can be supplied with screw terminals or spring-type terminals.



Screw terminals



Spring-type terminals

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

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

3RV10 motor starter protectors are suitable for overload protection of explosion-protected motors with "increased safety" type of protection EEx e;

[see www.siemens.com/sirius/atex](http://www.siemens.com/sirius/atex).

Order No. scheme

Digit of the Order No.	1. - 3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	
	□ □ □	□	□	□	□	-	□	□	□	□	-	□	□	□	
Motor starter protectors	3 R V														
SIRIUS 1st generation	1														
Type of motor starter protector	□														
Size	□														
Switching capacity	□														
Setting range for overload release	□ □														
Trip class (CLASS)	□														
Connection methods	□														
With or without auxiliary switch	□														
Special versions	□ □ □ □														
Example	3	R	V	1	0	3	1	-	4	A	A	1	0		

Note:

The Order No. scheme is presented here merely for information purposes and for better understanding of the logic behind the order numbers.

For your orders, please use the order numbers quote in the catalog in the Selection and ordering data.

Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

General data

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 "Reference Manual for Protection Equipment – Motor Starter Protectors · 3RV1 Molded Case Motor Starter Protectors"](#).

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 and EMERGENCY-STOP switches
- For fuse monitoring
- For operation in IT systems (IT networks)
- For switching of DC currents
- As voltage transformer circuit breakers
- In areas subject to explosion hazard (ATEX)
- As circuit breakers according to UL 489 (3RV17 and 3RV18)

More details [see "Reference Manual for Protection Equipment – Motor Starter Protectors · 3RV1 Molded Case Motor Starter Protectors"](#).

Motor Starter Protectors

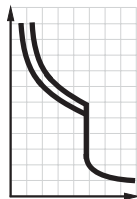
SIRIUS 3RV1 motor starter protectors up to 100 A

For motor protection

Selection and ordering data

CLASS 10, without auxiliary switches

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



3RV10 11-0JA10



3RV10 21-0JA10



3RV10 11-1EA20

Rated current	Suitable for three-phase induction motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous over-current release	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	DT	Spring-type terminals	
I_n				I_{cu}		Order No.	Price € per PU	Order No.	Price € per PU
A	kW	A	A	kA					
Size S00									
0,16	0,04	0,11 ... 0,16	2,1	100	▶	3RV10 11-0AA10	▶	3RV10 11-0AA20	▶
0,2	0,06	0,14 ... 0,2	2,6	100	▶	3RV10 11-0BA10	▶	3RV10 11-0BA20	▶
0,25	0,06	0,18 ... 0,25	3,3	100	▶	3RV10 11-0CA10	▶	3RV10 11-0CA20	▶
0,32	0,09	0,22 ... 0,32	4,2	100	▶	3RV10 11-0DA10	▶	3RV10 11-0DA20	▶
0,4	0,09	0,28 ... 0,4	5,2	100	▶	3RV10 11-0EA10	▶	3RV10 11-0EA20	▶
0,5	0,12	0,35 ... 0,5	6,5	100	▶	3RV10 11-0FA10	▶	3RV10 11-0FA20	▶
0,63	0,18	0,45 ... 0,63	8,2	100	▶	3RV10 11-0GA10	▶	3RV10 11-0GA20	▶
0,8	0,18	0,55 ... 0,8	10	100	▶	3RV10 11-0HA10	▶	3RV10 11-0HA20	▶
1	0,25	0,7 ... 1	13	100	▶	3RV10 11-0JA10	▶	3RV10 11-0JA20	▶
1,25	0,37	0,9 ... 1,25	16	100	▶	3RV10 11-0KA10	▶	3RV10 11-0KA20	▶
1,6	0,55	1,1 ... 1,6	21	100	▶	3RV10 11-1AA10	▶	3RV10 11-1AA20	▶
2	0,75	1,4 ... 2	26	100	▶	3RV10 11-1BA10	▶	3RV10 11-1BA20	▶
2,5	0,75	1,8 ... 2,5	33	100	▶	3RV10 11-1CA10	▶	3RV10 11-1CA20	▶
3,2	1,1	2,2 ... 3,2	42	100	▶	3RV10 11-1DA10	▶	3RV10 11-1DA20	▶
4	1,5	2,8 ... 4	52	100	▶	3RV10 11-1EA10	▶	3RV10 11-1EA20	▶
5	1,5	3,5 ... 5	65	100	▶	3RV10 11-1FA10	▶	3RV10 11-1FA20	▶
6,3	2,2	4,5 ... 6,3	82	100	▶	3RV10 11-1GA10	▶	3RV10 11-1GA20	▶
8	3	5,5 ... 8	104	50	▶	3RV10 11-1HA10	▶	3RV10 11-1HA20	▶
10	4	7 ... 10	130	50	▶	3RV10 11-1JA10	▶	3RV10 11-1JA20	▶
12	5,5	9 ... 12	156	50	▶	3RV10 11-1KA10	▶	3RV10 11-1KA20	▶
Size S0									
0,16	0,04	0,11 ... 0,16	2,1	100	▶	3RV10 21-0AA10		--	
0,2	0,06	0,14 ... 0,2	2,6	100	▶	3RV10 21-0BA10		--	
0,25	0,06	0,18 ... 0,25	3,3	100	▶	3RV10 21-0CA10		--	
0,32	0,09	0,22 ... 0,32	4,2	100	▶	3RV10 21-0DA10		--	
0,4	0,09	0,28 ... 0,4	5,2	100	▶	3RV10 21-0EA10		--	
0,5	0,12	0,35 ... 0,5	6,5	100	▶	3RV10 21-0FA10		--	
0,63	0,18	0,45 ... 0,63	8,2	100	▶	3RV10 21-0GA10		--	
0,8	0,18	0,55 ... 0,8	10	100	▶	3RV10 21-0HA10		--	
1	0,25	0,7 ... 1	13	100	▶	3RV10 21-0JA10		--	
1,25	0,37	0,9 ... 1,25	16	100	▶	3RV10 21-0KA10		--	
1,6	0,55	1,1 ... 1,6	21	100	▶	3RV10 21-1AA10		--	
2	0,75	1,4 ... 2	26	100	▶	3RV10 21-1BA10		--	
2,5	0,75	1,8 ... 2,5	33	100	▶	3RV10 21-1CA10		--	
3,2	1,1	2,2 ... 3,2	42	100	▶	3RV10 21-1DA10		--	
4	1,5	2,8 ... 4	52	100	▶	3RV10 21-1EA10		--	
5	1,5	3,5 ... 5	65	100	▶	3RV10 21-1FA10		--	
6,3	2,2	4,5 ... 6,3	82	100	▶	3RV10 21-1GA10		--	
8	3	5,5 ... 8	104	100	▶	3RV10 21-1HA10		--	
10	4	7 ... 10	130	100	▶	3RV10 21-1JA10		--	
12,5	5,5	9 ... 12,5	163	100	▶	3RV10 21-1KA10		--	
16	7,5	11 ... 16	208	50	▶	3RV10 21-4AA10		--	
20	7,5	14 ... 20	260	50	▶	3RV10 21-4BA10		--	
22	11	17 ... 22	286	50	▶	3RV10 21-4CA10		--	
25	11	20 ... 25	325	50	▶	3RV10 21-4DA10		--	

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 "Mountable Accessories" on page 7/18 onwards).

Multi-unit packing and reusable packaging on request.

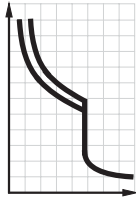
Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For motor protection

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

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



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 three-phase induction motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous over-current release	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	DT	Spring-type terminals	
I_n				I_{cu}					
A	kW	A	A	kA		Order No.	Price € per PU	Order No.	Price € per PU
Size S00									
0,16	0,04	0,11 ... 0,16	2,1	100	▶	3RV10 11-0AA15	B	3RV10 11-0AA25	
0,2	0,06	0,14 ... 0,2	2,6	100	▶	3RV10 11-0BA15	B	3RV10 11-0BA25	
0,25	0,06	0,18 ... 0,25	3,3	100	▶	3RV10 11-0CA15	B	3RV10 11-0CA25	
0,32	0,09	0,22 ... 0,32	4,2	100	▶	3RV10 11-0DA15	B	3RV10 11-0DA25	
0,4	0,09	0,28 ... 0,4	5,2	100	▶	3RV10 11-0EA15	B	3RV10 11-0EA25	
0,5	0,12	0,35 ... 0,5	6,5	100	▶	3RV10 11-0FA15	B	3RV10 11-0FA25	
0,63	0,18	0,45 ... 0,63	8,2	100	▶	3RV10 11-0GA15	B	3RV10 11-0GA25	
0,8	0,18	0,55 ... 0,8	10	100	▶	3RV10 11-0HA15	B	3RV10 11-0HA25	
1	0,25	0,7 ... 1	13	100	▶	3RV10 11-0JA15	B	3RV10 11-0JA25	
1,25	0,37	0,9 ... 1,25	16	100	▶	3RV10 11-0KA15	B	3RV10 11-0KA25	
1,6	0,55	1,1 ... 1,6	21	100	▶	3RV10 11-1AA15	B	3RV10 11-1AA25	
2	0,75	1,4 ... 2	26	100	▶	3RV10 11-1BA15	B	3RV10 11-1BA25	
2,5	0,75	1,8 ... 2,5	33	100	▶	3RV10 11-1CA15	B	3RV10 11-1CA25	
3,2	1,1	2,2 ... 3,2	42	100	▶	3RV10 11-1DA15	B	3RV10 11-1DA25	
4	1,5	2,8 ... 4	52	100	▶	3RV10 11-1EA15	B	3RV10 11-1EA25	
5	1,5	3,5 ... 5	65	100	▶	3RV10 11-1FA15	B	3RV10 11-1FA25	
6,3	2,2	4,5 ... 6,3	82	100	▶	3RV10 11-1GA15	B	3RV10 11-1GA25	
8	3	5,5 ... 8	104	50	▶	3RV10 11-1HA15	B	3RV10 11-1HA25	
10	4	7 ... 10	130	50	▶	3RV10 11-1JA15	B	3RV10 11-1JA25	
12	5,5	9 ... 12	156	50	▶	3RV10 11-1KA15	B	3RV10 11-1KA25	
Size S0									
0,16	0,04	0,11 ... 0,16	2,1	100	▶	3RV10 21-0AA15		--	
0,2	0,06	0,14 ... 0,2	2,6	100	▶	3RV10 21-0BA15		--	
0,25	0,06	0,18 ... 0,25	3,3	100	▶	3RV10 21-0CA15		--	
0,32	0,09	0,22 ... 0,32	4,2	100	▶	3RV10 21-0DA15		--	
0,4	0,09	0,28 ... 0,4	5,2	100	▶	3RV10 21-0EA15		--	
0,5	0,12	0,35 ... 0,5	6,5	100	▶	3RV10 21-0FA15		--	
0,63	0,18	0,45 ... 0,63	8,2	100	▶	3RV10 21-0GA15		--	
0,8	0,18	0,55 ... 0,8	10	100	▶	3RV10 21-0HA15		--	
1	0,25	0,7 ... 1	13	100	▶	3RV10 21-0JA15		--	
1,25	0,37	0,9 ... 1,25	16	100	▶	3RV10 21-0KA15		--	
1,6	0,55	1,1 ... 1,6	21	100	▶	3RV10 21-1AA15		--	
2	0,75	1,4 ... 2	26	100	▶	3RV10 21-1BA15		--	
2,5	0,75	1,8 ... 2,5	33	100	▶	3RV10 21-1CA15		--	
3,2	1,1	2,2 ... 3,2	42	100	▶	3RV10 21-1DA15		--	
4	1,5	2,8 ... 4	52	100	▶	3RV10 21-1EA15		--	
5	1,5	3,5 ... 5	65	100	▶	3RV10 21-1FA15		--	
6,3	2,2	4,5 ... 6,3	82	100	▶	3RV10 21-1GA15		--	
8	3	5,5 ... 8	104	100	▶	3RV10 21-1HA15		--	
10	4	7 ... 10	130	100	▶	3RV10 21-1JA15		--	
12,5	5,5	9 ... 12,5	163	100	▶	3RV10 21-1KA15		--	
16	7,5	11 ... 16	208	50	▶	3RV10 21-4AA15		--	
20	7,5	14 ... 20	260	50	▶	3RV10 21-4BA15		--	
22	11	17 ... 22	286	50	▶	3RV10 21-4CA15		--	
25	11	20 ... 25	325	50	▶	3RV10 21-4DA15		--	

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 "Mountable Accessories" on page 7/18 onwards).

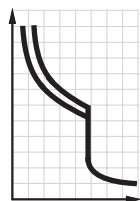
Multi-unit packing and reusable packaging on request.

Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For motor protection

CLASS 10, without auxiliary switches



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

Size S2



16	7,5	11 ... 16	208	50	▶	3RV10 31-4AA10		1	1 unit	41E
20	7,5	14 ... 20	260	50	▶	3RV10 31-4BA10		1	1 unit	41E
25	11	18 ... 25	325	50	▶	3RV10 31-4DA10		1	1 unit	41E
32	15	22 ... 32	416	50	▶	3RV10 31-4EA10		1	1 unit	41E
40	18,5	28 ... 40	520	50	▶	3RV10 31-4FA10		1	1 unit	41E
45	22	36 ... 45	585	50	▶	3RV10 31-4GA10		1	1 unit	41E
50	22	40 ... 50	650	50	▶	3RV10 31-4HA10		1	1 unit	41E

3RV10 31-4HA10

Size S3



40	18,5	28 ... 40	520	50	▶	3RV10 41-4FA10		1	1 unit	41E
50	22	36 ... 50	650	50	▶	3RV10 41-4HA10		1	1 unit	41E
63	30	45 ... 63	819	50	▶	3RV10 41-4JA10		1	1 unit	41E
75	37	57 ... 75	975	50	▶	3RV10 41-4KA10		1	1 unit	41E
90	45	70 ... 90	1 170	50	▶	3RV10 41-4LA10		1	1 unit	41E
100	45	80 ... 100	1 235	50	▶	3RV10 41-4MA10		1	1 unit	41E

3RV10 41-4LA10

Size S3, with increased switching capacity



16	7,5	11 ... 16	208	100	▶	3RV10 42-4AA10		1	1 unit	41E
20	7,5	14 ... 20	260	100	▶	3RV10 42-4BA10		1	1 unit	41E
25	11	18 ... 25	325	100	▶	3RV10 42-4DA10		1	1 unit	41E
32	15	22 ... 32	416	100	▶	3RV10 42-4EA10		1	1 unit	41E
40	18,5	28 ... 40	520	100	▶	3RV10 42-4FA10		1	1 unit	41E
50	22	36 ... 50	650	100	▶	3RV10 42-4HA10		1	1 unit	41E
63	30	45 ... 63	819	100	▶	3RV10 42-4JA10		1	1 unit	41E
75	37	57 ... 75	975	100	▶	3RV10 42-4KA10		1	1 unit	41E
90	45	70 ... 90	1 170	100	▶	3RV10 42-4LA10		1	1 unit	41E
100	45	80 ... 100	1 235	100	▶	3RV10 42-4MA10		1	1 unit	41E

3RV10 42-4JA10

CLASS 20, without auxiliary switches

Size S2



16	7,5	11 ... 16	208	50	A	3RV10 31-4AB10		1	1 unit	41E
20	7,5	14 ... 20	260	50	A	3RV10 31-4BB10		1	1 unit	41E
25	11	18 ... 25	325	50	A	3RV10 31-4DB10		1	1 unit	41E
32	15	22 ... 32	416	50	A	3RV10 31-4EB10		1	1 unit	41E
40	18,5	28 ... 40	520	50	A	3RV10 31-4FB10		1	1 unit	41E
45	22	36 ... 45	585	50	A	3RV10 31-4GB10		1	1 unit	41E
50	22	40 ... 50	650	50	A	3RV10 31-4HB10		1	1 unit	41E

3RV10 31-4AB10

Size S3, with increased switching capacity



40	18,5	28 ... 40	520	100	A	3RV10 42-4FB10		1	1 unit	41E
50	22	36 ... 50	650	100	A	3RV10 42-4HB10		1	1 unit	41E
63	30	45 ... 63	819	100	A	3RV10 42-4JB10		1	1 unit	41E
75	37	57 ... 75	975	100	A	3RV10 42-4KB10		1	1 unit	41E
90	45	70 ... 90	1 170	100	A	3RV10 42-4LB10		1	1 unit	41E
100	45	80 ... 100	1 235	100	A	3RV10 42-4MB10		1	1 unit	41E

3RV10 42-4KB10

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 "Mountable Accessories" on page 7/18 onwards).

Multi-unit packing and reusable packaging
see Catalog IC 10 · 2012.




Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For motor protection with overload relay function

Selection and ordering data

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

	Rated current I_n	Suitable for three-phase induction motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous over-current release $I >$	Short-circuit breaking capacity at 400 V AC I_{cu}	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG
Size S0²⁾											
 3RV11 21-OKA10	0,16	0,04	0,11 ... 0,16	2,1	100	A	3RV11 21-0AA10		1	1 unit	41E
	0,2	0,06	0,14 ... 0,2	2,6	100	A	3RV11 21-0BA10		1	1 unit	41E
	0,25	0,06	0,18 ... 0,25	3,3	100	A	3RV11 21-0CA10		1	1 unit	41E
	0,32	0,09	0,22 ... 0,32	4,2	100	A	3RV11 21-0DA10		1	1 unit	41E
	0,4	0,09	0,28 ... 0,4	5,2	100	A	3RV11 21-0EA10		1	1 unit	41E
	0,5	0,12	0,35 ... 0,5	6,5	100	A	3RV11 21-0FA10		1	1 unit	41E
	0,63	0,18	0,45 ... 0,63	8,2	100	A	3RV11 21-0GA10		1	1 unit	41E
	0,8	0,18	0,55 ... 0,8	10	100	A	3RV11 21-0HA10		1	1 unit	41E
	1	0,25	0,7 ... 1	13	100	A	3RV11 21-0JA10		1	1 unit	41E
	1,25	0,37	0,9 ... 1,25	16	100	A	3RV11 21-0KA10		1	1 unit	41E
	1,6	0,55	1,1 ... 1,6	21	100	A	3RV11 21-1AA10		1	1 unit	41E
	2	0,75	1,4 ... 2	26	100	A	3RV11 21-1BA10		1	1 unit	41E
	2,5	0,75	1,8 ... 2,5	33	100	A	3RV11 21-1CA10		1	1 unit	41E
	3,2	1,1	2,2 ... 3,2	42	100	A	3RV11 21-1DA10		1	1 unit	41E
	4	1,5	2,8 ... 4	52	100	A	3RV11 21-1EA10		1	1 unit	41E
	5	1,5	3,5 ... 5	65	100	A	3RV11 21-1FA10		1	1 unit	41E
6,3	2,2	4,5 ... 6,3	82	100	A	3RV11 21-1GA10		1	1 unit	41E	
8	3	5,5 ... 8	104	100	A	3RV11 21-1HA10		1	1 unit	41E	
10	4	7 ... 10	130	100	A	3RV11 21-1JA10		1	1 unit	41E	
12,5	5,5	9 ... 12,5	163	100	A	3RV11 21-1KA10		1	1 unit	41E	
16	7,5	11 ... 16	208	50	A	3RV11 21-4AA10		1	1 unit	41E	
20	7,5	14 ... 20	260	50	A	3RV11 21-4BA10		1	1 unit	41E	
22	11	17 ... 22	286	50	A	3RV11 21-4CA10		1	1 unit	41E	
25	11	20 ... 25	325	50	A	3RV11 21-4DA10		1	1 unit	41E	
Size S2²⁾											
 3RV11 31-4EA10	16	7,5	11 ... 16	208	50	A	3RV11 31-4AA10		1	1 unit	41E
	20	7,5	14 ... 20	260	50	A	3RV11 31-4BA10		1	1 unit	41E
	25	11	18 ... 25	325	50	A	3RV11 31-4DA10		1	1 unit	41E
	32	15	22 ... 32	416	50	A	3RV11 31-4EA10		1	1 unit	41E
	40	18,5	28 ... 40	520	50	A	3RV11 31-4FA10		1	1 unit	41E
	45	22	36 ... 45	585	50	A	3RV11 31-4GA10		1	1 unit	41E
	50	22	40 ... 50	650	50	A	3RV11 31-4HA10		1	1 unit	41E
Size S3, with increased switching capacity²⁾											
 3RV11 42-4AA10	16	7,5	11 ... 16	208	100	A	3RV11 42-4AA10		1	1 unit	41E
	20	7,5	14 ... 20	260	100	A	3RV11 42-4BA10		1	1 unit	41E
	25	11	18 ... 25	325	100	A	3RV11 42-4DA10		1	1 unit	41E
	32	15	22 ... 32	416	100	A	3RV11 42-4EA10		1	1 unit	41E
	40	18,5	28 ... 40	520	100	A	3RV11 42-4FA10		1	1 unit	41E
	50	22	36 ... 50	650	100	A	3RV11 42-4HA10		1	1 unit	41E
	63	30	45 ... 63	819	100	A	3RV11 42-4JA10		1	1 unit	41E
	75	37	57 ... 75	975	100	A	3RV11 42-4KA10		1	1 unit	41E
	90	45	70 ... 90	1 170	100	A	3RV11 42-4LA10		1	1 unit	41E
	100	45	80 ... 100	1 235	100	A	3RV11 42-4MA10		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 (for sizes S0 to S3) and 3RV19 15 three-phase busbars (for size S0) cannot be used.

Auxiliary switches and other accessories can be ordered separately (see "Mountable Accessories" on page 7/18 onwards).

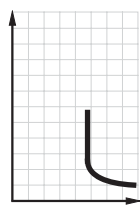
Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For starter combinations

Selection and ordering data

Without auxiliary switches



Rated current	Suitable for three-phase induction motors ¹⁾ with P	Thermal over-load release ²⁾	Instantaneous over-current release	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG	
I_n			$I >$	I_{cu}		Order No.	Price € per PU				
A	kW	A	A	kA							
Size S0											
	0,16	0,04	None	2,1	100	A	3RV13 21-0AC10		1	1 unit	41E
	0,2	0,06	None	2,6	100	A	3RV13 21-0BC10		1	1 unit	41E
	0,25	0,06	None	3,3	100	A	3RV13 21-0CC10		1	1 unit	41E
	0,32	0,09	None	4,2	100	A	3RV13 21-0DC10		1	1 unit	41E
	0,4	0,09	None	5,2	100	A	3RV13 21-0EC10		1	1 unit	41E
	0,5	0,12	None	6,5	100	A	3RV13 21-0FC10		1	1 unit	41E
	0,63	0,18	None	8,2	100	A	3RV13 21-0GC10		1	1 unit	41E
	0,8	0,18	None	10	100	A	3RV13 21-0HC10		1	1 unit	41E
	1	0,25	None	13	100	A	3RV13 21-0JC10		1	1 unit	41E
	1,25	0,37	None	16	100	A	3RV13 21-0KC10		1	1 unit	41E
	1,6	0,55	None	21	100	A	3RV13 21-1AC10		1	1 unit	41E
	2	0,75	None	26	100	A	3RV13 21-1BC10		1	1 unit	41E
	2,5	0,75	None	33	100	A	3RV13 21-1CC10		1	1 unit	41E
	3,2	1,1	None	42	100	A	3RV13 21-1DC10		1	1 unit	41E
	4	1,5	None	52	100	A	3RV13 21-1EC10		1	1 unit	41E
	5	1,5	None	65	100	A	3RV13 21-1FC10		1	1 unit	41E
6,3	2,2	None	82	100	A	3RV13 21-1GC10		1	1 unit	41E	
8	3	None	104	100	A	3RV13 21-1HC10		1	1 unit	41E	
10	4	None	130	100	A	3RV13 21-1JC10		1	1 unit	41E	
12,5	5,5	None	163	100	A	3RV13 21-1KC10		1	1 unit	41E	
16	7,5	None	208	50	A	3RV13 21-4AC10		1	1 unit	41E	
20	7,5	None	260	50	A	3RV13 21-4BC10		1	1 unit	41E	
22	11	None	286	50	A	3RV13 21-4CC10		1	1 unit	41E	
25	11	None	325	50	A	3RV13 21-4DC10		1	1 unit	41E	

Size S2



3RV13 31-4AC10

16	7,5	None	208	50	A	3RV13 31-4AC10		1	1 unit	41E
20	7,5	None	260	50	A	3RV13 31-4BC10		1	1 unit	41E
25	11	None	325	50	A	3RV13 31-4DC10		1	1 unit	41E
32	15	None	416	50	A	3RV13 31-4EC10		1	1 unit	41E
40	18,5	None	520	50	A	3RV13 31-4FC10		1	1 unit	41E
45	22	None	585	50	A	3RV13 31-4GC10		1	1 unit	41E
50	22	None	650	50	A	3RV13 31-4HC10		1	1 unit	41E

Size S3



3RV13 41-4JC10

40	18,5	None	520	50	A	3RV13 41-4FC10		1	1 unit	41E
50	22	None	650	50	A	3RV13 41-4HC10		1	1 unit	41E
63	30	None	819	50	A	3RV13 41-4JC10		1	1 unit	41E
75	37	None	975	50	A	3RV13 41-4KC10		1	1 unit	41E
90	45	None	1 170	50	A	3RV13 41-4LC10		1	1 unit	41E
100	45	None	1 235	50	A	3RV13 41-4MC10		1	1 unit	41E

Size S3, with increased switching capacity



3RV13 42-4JC10

16	7,5	None	208	100	A	3RV13 42-4AC10		1	1 unit	41E
20	7,5	None	260	100	A	3RV13 42-4BC10		1	1 unit	41E
25	11	None	325	100	A	3RV13 42-4DC10		1	1 unit	41E
32	15	None	416	100	A	3RV13 42-4EC10		1	1 unit	41E
40	18,5	None	520	100	A	3RV13 42-4FC10		1	1 unit	41E
50	22	None	650	100	A	3RV13 42-4HC10		1	1 unit	41E
63	30	None	819	100	A	3RV13 42-4JC10		1	1 unit	41E
75	37	None	975	100	A	3RV13 42-4KC10		1	1 unit	41E
90	45	None	1 170	100	A	3RV13 42-4LC10		1	1 unit	41E
100	45	None	1 235	100	A	3RV13 42-4MC10		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.

Auxiliary switches and other accessories can be ordered separately (see "Mountable Accessories" on page 7/18 onwards).

Multi-unit and reusable packagings

- Size S0 on request
- Sizes S2 and S3 see Catalog IC 10 · 2012

Motor Starter Protectors

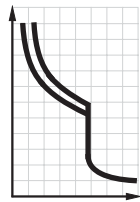
SIRIUS 3RV1 motor starter protectors up to 100 A

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 release	Instantaneous overcurrent release	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG
I_n		$I >$	I_{cu}		Order No.	Price € per PU			
A	A	A	kA						

Size S0



3RV14 21-0KA10

0,16	0,11 ... 0,16	3,3	100	▶	3RV14 21-0AA10		1	1 unit	41E
0,2	0,14 ... 0,2	4,2	100	▶	3RV14 21-0BA10		1	1 unit	41E
0,25	0,18 ... 0,25	5,2	100	▶	3RV14 21-0CA10		1	1 unit	41E
0,32	0,22 ... 0,32	6,5	100	▶	3RV14 21-0DA10		1	1 unit	41E
0,4	0,28 ... 0,4	8,2	100	▶	3RV14 21-0EA10		1	1 unit	41E
0,5	0,35 ... 0,5	10	100	▶	3RV14 21-0FA10		1	1 unit	41E
0,63	0,45 ... 0,63	13	100	▶	3RV14 21-0GA10		1	1 unit	41E
0,8	0,55 ... 0,8	16	100	▶	3RV14 21-0HA10		1	1 unit	41E
1	0,7 ... 1	21	100	▶	3RV14 21-0JA10		1	1 unit	41E
1,25	0,9 ... 1,25	26	100	▶	3RV14 21-0KA10		1	1 unit	41E
1,6	1,1 ... 1,6	33	100	▶	3RV14 21-1AA10		1	1 unit	41E
2	1,4 ... 2	42	100	▶	3RV14 21-1BA10		1	1 unit	41E
2,5	1,8 ... 2,5	52	100	▶	3RV14 21-1CA10		1	1 unit	41E
3,2	2,2 ... 3,2	65	100	▶	3RV14 21-1DA10		1	1 unit	41E
4	2,8 ... 4	82	100	▶	3RV14 21-1EA10		1	1 unit	41E
5	3,5 ... 5	104	100	▶	3RV14 21-1FA10		1	1 unit	41E
6,3	4,5 ... 6,3	130	100	▶	3RV14 21-1GA10		1	1 unit	41E
8	5,5 ... 8	163	100	▶	3RV14 21-1HA10		1	1 unit	41E
10	7 ... 10	208	100	▶	3RV14 21-1JA10		1	1 unit	41E
12,5	9 ... 12,5	260	100	▶	3RV14 21-1KA10		1	1 unit	41E
16	11 ... 16	286	50	▶	3RV14 21-4AA10		1	1 unit	41E
20	14 ... 20	325	50	▶	3RV14 21-4BA10		1	1 unit	41E

Size S2



3RV14 31-4DA10

16	11 ... 16	325	50	▶	3RV14 31-4AA10		1	1 unit	41E
20	14 ... 20	416	50	▶	3RV14 31-4BA10		1	1 unit	41E
25	18 ... 25	520	50	▶	3RV14 31-4DA10		1	1 unit	41E
32	22 ... 32	660	50	▶	3RV14 31-4EA10		1	1 unit	41E
40	28 ... 40	836	50	▶	3RV14 31-4FA10		1	1 unit	41E

Auxiliary switches and other accessories can be ordered separately (see "Mountable Accessories" on page 7/18 onwards).

Multi-unit and reusable packagings

- Size S0 on request
- Size S2 see [Catalog IC 10 · 2012](#)

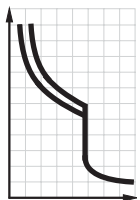


Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For fuse monitoring

Selection and ordering data

Without auxiliary switches

	Rated current	Thermal over-load release	Instantaneous overcurrent release	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG
	I_n			I_{cu}		Order No.	Price € per PU			
	A	A	A	kA						

Size S00



3RV16 11-0BD10

0,2	0,2	1,2	100	▶	3RV16 11-0BD10			1	1 unit	41E
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Note:

The auxiliary switch required for signaling must be ordered separately.

Multi-unit packing and reusable packaging on request.

Accessories

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

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	41E
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3RV19 01-1A

Lateral auxiliary switches With screw terminals, mountable on the left	1 NO + 1 NC	▶	3RV19 01-1A		1	1 unit	41E
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Additional auxiliary switches and other accessories see "Mountable Accessories" on page 7/18 onwards.

Motor Starter Protectors



SIRIUS 3RV1 circuit breakers up to 100 A

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⁾ I_n	Thermal over-load release (non-adjustable)	Instantaneous over-current release $I >$	Short-circuit breaking capacity at 480 Y/277 V AC ²⁾ 480 V AC		DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	
				I_{bc}	I_{bc}						
	A	A	A	kA	kA		Order No.	Price € per PU			
Size S0											
 3RV17 21-0AD10	0,16	0,16	2,1	50	--	C	3RV17 21-0AD10		1	1 unit	41E
	0,2	0,2	2,6	50	--	C	3RV17 21-0BD10		1	1 unit	41E
	0,25	0,25	3,3	50	--	C	3RV17 21-0CD10		1	1 unit	41E
	0,32	0,32	4,2	50	--	C	3RV17 21-0DD10		1	1 unit	41E
	0,4	0,4	5,2	50	--	C	3RV17 21-0ED10		1	1 unit	41E
	0,5	0,5	6,5	50	--	C	3RV17 21-0FD10		1	1 unit	41E
	0,63	0,63	8,2	50	--	C	3RV17 21-0GD10		1	1 unit	41E
	0,8	0,8	10	50	--	C	3RV17 21-0HD10		1	1 unit	41E
	1	1	13	50	--	C	3RV17 21-0JD10		1	1 unit	41E
	1,25	1,25	16	50	--	C	3RV17 21-0KD10		1	1 unit	41E
	1,6	1,6	21	50	--	C	3RV17 21-1AD10		1	1 unit	41E
	2	2	26	50	--	C	3RV17 21-1BD10		1	1 unit	41E
	2,5	2,5	33	50	--	C	3RV17 21-1CD10		1	1 unit	41E
	3,2	3,2	42	50	--	C	3RV17 21-1DD10		1	1 unit	41E
	4	4	52	50	--	C	3RV17 21-1ED10		1	1 unit	41E
	5	5	65	50	--	C	3RV17 21-1FD10		1	1 unit	41E
	6,3	6,3	82	50	--	C	3RV17 21-1GD10		1	1 unit	41E
	8	8	104	50	--	C	3RV17 21-1HD10		1	1 unit	41E
	10	10	130	50	--	C	3RV17 21-1JD10		1	1 unit	41E
12,5	12,5	163	50	--	C	3RV17 21-1KD10		1	1 unit	41E	
15	15	208	50	--	C	3RV17 21-4AD10		1	1 unit	41E	
20	20	260	50	--	C	3RV17 21-4BD10		1	1 unit	41E	
22	22	286	50	--	C	3RV17 21-4CD10		1	1 unit	41E	
Size S3											
 3RV17 42-5FD10	10	10	150	65	65	B	3RV17 42-5AD10		1	1 unit	41E
	15	15	225	65	65	B	3RV17 42-5BD10		1	1 unit	41E
	20	20	260	65	65	B	3RV17 42-5CD10		1	1 unit	41E
	25	25	325	65	65	B	3RV17 42-5DD10		1	1 unit	41E
	30	30	390	65	65	B	3RV17 42-5ED10		1	1 unit	41E
	35	35	455	65	--	B	3RV17 42-5FD10		1	1 unit	41E
	40	40	520	65	--	B	3RV17 42-5GD10		1	1 unit	41E
	45	45	585	65	--	B	3RV17 42-5HD10		1	1 unit	41E
	50	50	650	65	--	B	3RV17 42-5JD10		1	1 unit	41E
	60	60	780	65	--	B	3RV17 42-5LD10		1	1 unit	41E
	70	70	910	65	--	B	3RV17 42-5QD10		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 "Technical Specifications" → "Permissible rated data of devices approved for North America (UL/CSA)" → "3RV17 Motor Starter Protectors as Circuit Breakers" in "Reference Manual for Protection Equipment – Motor Starter Protectors · 3RV1 Molded Case Motor Starter Protectors".

Transverse auxiliary switches must not be mounted, lateral auxiliary switches can be ordered separately (see "Mountable Accessories" on page 7/18 onwards).

Motor Starter Protectors

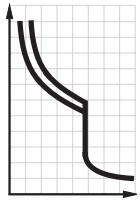
SIRIUS 3RV1 circuit breakers up to 100 A




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 ¹⁾	Thermal overload release (non-adjustable)	Instantaneous over-current release	Short-circuit breaking capacity at 480 Y/277 V AC ²⁾	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	
$I_n^{1)}$			I_{bc}		Order No.	Price € per PU			
A	A	A	kA						
Size S0									
	0,16	0,16	3,3	50	C	3RV18 21-0AD10	1	1 unit	41E
	0,2	0,2	4,2	50	C	3RV18 21-0BD10	1	1 unit	41E
	0,25	0,25	5,2	50	C	3RV18 21-0CD10	1	1 unit	41E
	0,32	0,32	6,5	50	C	3RV18 21-0DD10	1	1 unit	41E
	0,4	0,4	8,2	50	C	3RV18 21-0ED10	1	1 unit	41E
	0,5	0,5	10	50	C	3RV18 21-0FD10	1	1 unit	41E
	0,63	0,63	13	50	C	3RV18 21-0GD10	1	1 unit	41E
	0,8	0,8	16	50	C	3RV18 21-0HD10	1	1 unit	41E
	1	1	21	50	C	3RV18 21-0JD10	1	1 unit	41E
	1,25	1,25	26	50	C	3RV18 21-0KD10	1	1 unit	41E
	1,6	1,6	33	50	C	3RV18 21-1AD10	1	1 unit	41E
	2	2	42	50	C	3RV18 21-1BD10	1	1 unit	41E
	2,5	2,5	52	50	C	3RV18 21-1CD10	1	1 unit	41E
	3,2	3,2	65	50	C	3RV18 21-1DD10	1	1 unit	41E
	4	4	82	50	C	3RV18 21-1ED10	1	1 unit	41E
	5	5	104	50	C	3RV18 21-1FD10	1	1 unit	41E
	6,3	6,3	130	50	C	3RV18 21-1GD10	1	1 unit	41E
	8	8	163	50	C	3RV18 21-1HD10	1	1 unit	41E
	10	10	208	50	C	3RV18 21-1JD10	1	1 unit	41E
	12,5	12,5	260	50	C	3RV18 21-1KD10	1	1 unit	41E
15	15	286	50	C	3RV18 21-4AD10	1	1 unit	41E	
20	20	325	50	C	3RV18 21-4BD10	1	1 unit	41E	

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

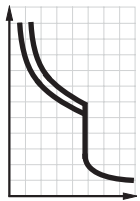


²⁾ Values for 600 Y/347 V AC see "Technical Specifications" → "Permissible rated data of devices approved for North America (UL/CSA)" → "3RV18 Motor Starter Protectors as Circuit Breakers" in "Reference Manual for Protection Equipment – Motor Starter Protectors · 3RV1 Molded Case Motor Starter Protectors".

Transverse auxiliary switches must not be mounted, lateral auxiliary switches can be ordered separately (see "Mountable Accessories" on page 7/18 onwards).

Motor Starter Protectors

SIRIUS 3RV1 motor starter protectors up to 100 A

For distance protection
Selection and ordering data
Voltage transformer circuit breakers with auxiliary switches (1 CO)

	Rated current	Thermal overload release	Instantaneous over-current release	Auxiliary switch integrated in the motor starter protector, transverse	Short-circuit breaking capacity at 400 V AC	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	
	I_n				I_{cu}		Order No.	Price € per PU			
	A	A	A		kA						
Size S00											
	1,4	1,4	6	1 CO	50	B	3RV16 11-1AG14		1	1 unit	41E
	2,5	2,5	10,5	1 CO	50	▶	3RV16 11-1CG14		1	1 unit	41E
	3	3	20	1 CO	50	▶	3RV16 11-1DG14		1	1 unit	41E



3RV16 11-1.G14

Accessories

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

Mountable auxiliary switches for other signaling purposes


3RV19 01-1A

Lateral auxiliary switches With screw terminals, mountable on the left	1 NO + 1 NC	▶	3RV19 01-1A		1	1 unit	41E
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Additional auxiliary switches and other accessories
see "Mountable Accessories" on page 7/18 onwards.

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