

Overview

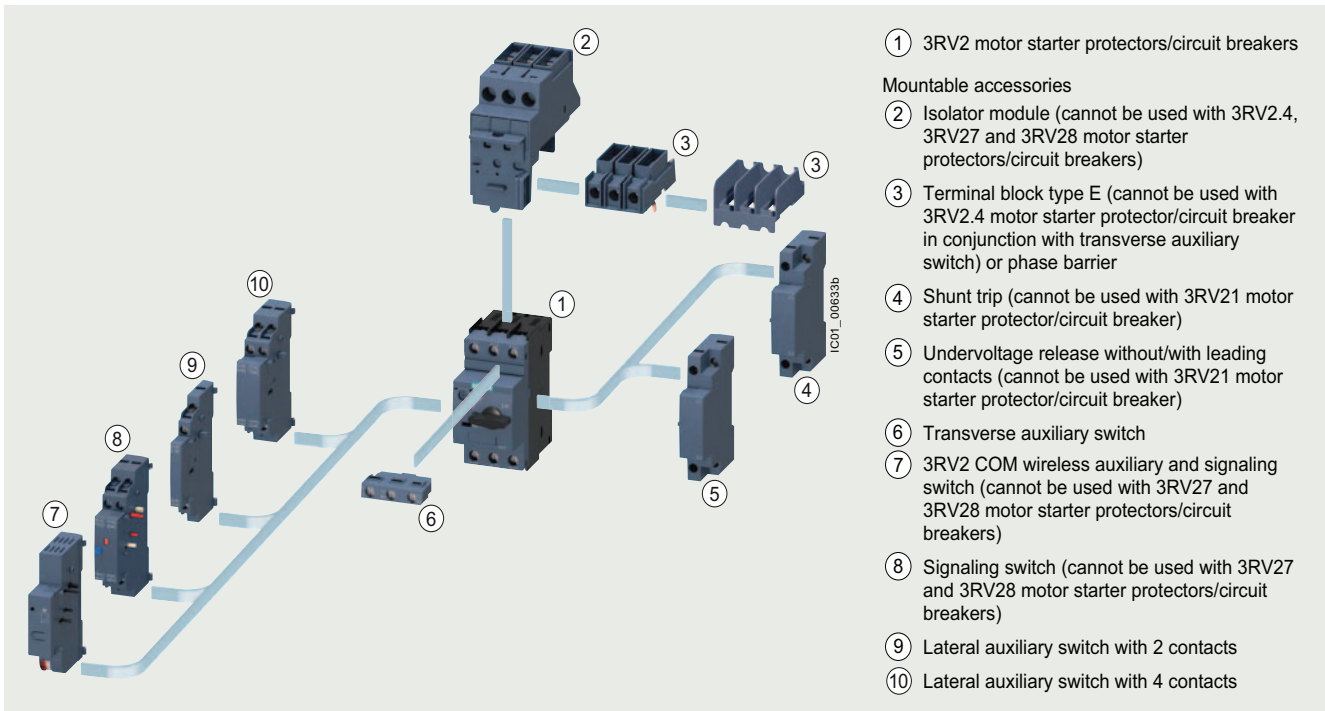
More information

Homepage, see www.siemens.com/sirius-circuit-breakers
 SiePortal, see www.siemens.com/product?3RV2
 TIA Selection Tool Cloud (TST Cloud), see www.siemens.com/tstcloud/?node=MotorStarterProtector
 Conversion tool, see www.siemens.com/conversion-tool

Equipment Manual, see <https://support.industry.siemens.com/cs/ww/en/view/60279172>
 Certificates, see <https://support.industry.siemens.com/cs/ww/en/ps/16245/cert>

The following illustration shows 3RV2 motor starter protectors/circuit breakers with the accessories which can be mounted for the sizes S00 to S3, see also Introduction → Overview, page 7/2.

Accessories, see page 7/46 onwards.



Mountable accessories for SIRIUS 3RV2 motor starter protectors/circuit breakers



Motor starter protector with spring-loaded terminals, size S0 (left) and motor starter protector with screw terminals, size S00 (right)



Video: SIRIUS 3RV2 circuit breakers – Motor protection for machinery and plants (0.11 to 100 A)

The SIRIUS 3RV2 motor starter protectors/circuit breakers are compact, current limiting motor starter protectors/circuit breakers which are optimized for load feeders. The motor starter protectors/circuit breakers are used for switching and protecting three-phase motors of up to 55/45 kW at 400 V AC and for other loads with rated currents of up to 100 A.

3RV2 motor starter protectors/circuit breakers are usually approved according to IEC and UL/CSA. According to UL 508/UL 60947-4-1, the 3RV2 motor starter protectors/circuit breakers 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 Controllers (Type E)"
- Please note that for this approval the 3RV20 motor starter protectors must be equipped with additional infeed terminals or phase barriers. For more information, see page 7/57.

Corresponding short-circuit values, see pages 7/9 to 7/16.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

The 3RV2...-.....-0BA0 motor starter protectors/circuit breakers can be used at low ambient temperatures down to -50 °C.

3RV20...-.....-0DA0 motor starter protectors/circuit breakers for system protection according to IEC, 3RV24...-.....-0DA0 for transformer protection according to IEC and 3RV27 and 3RV28 circuit breakers according to UL 489 can be used for 1-phase, 2-phase and 3-phase loads, as these motor starter protector/circuit breakers do not have asymmetry detection.

The 3RV27 and 3RV28 circuit breakers are approved as circuit breakers according to UL 489; they are a special version of the 3RV2 motor starter protectors.

Thanks to their dimensions, the 3RV1011 motor starter protectors are suitable for installation in enclosures or under cramped installation conditions.

Type of construction

The 3RV2 motor starter protectors/circuit breakers are available in four sizes:

- Size S00 – width 45 mm, max. rated current 16 A, at 400 V AC suitable for three-phase motors up to 7.5 kW
- Size S0 – width 45 mm, max. rated current 40 A, at 400 V AC suitable for three-phase motors up to 18.5 kW
- Size S2 – width 55 mm, max. rated current 80 A, at 400 V AC suitable for three-phase motors up to 37 kW
- Size S3 – width 70 mm, max. rated current 100 A, at 400 V AC suitable for three-phase motors up to 45/55 kW

Circuit breakers according to UL 489

The 3RV27 and 3RV28 circuit breakers are available in two or three sizes:

- Size S00 – width 45 mm, max. rated current 15 A, for 480 Y/277 V AC
- Size S0 – width 45 mm, max. rated current 22 A, for 480 Y/277 V AC
- Size S3 – width 70 mm, max. rated current 70 A, for 480 Y/277 V AC

Connection methods

The 3RV2 motor starter protectors/circuit breakers can be supplied with screw terminals and spring-loaded terminals.



Screw terminals

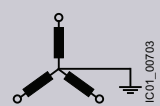
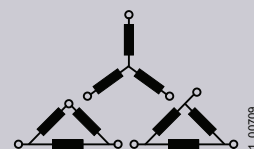


Spring-loaded terminals

The connection method is indicated in the corresponding tables by the symbols shown on orange backgrounds.

Voltage data

The data for 3-phase power systems according to IEC 60947-4-1 are valid for the following line system configurations:

Voltage U_e	Line system configurations	
	Three-phase four-wire systems	Three-phase three-wire systems
		
V	V	V
230	--	230
400	230/400	400
440	260/440	440
500	--	500
690	400/690	690 (only from size S3)
1 000	--	1 000

-- Not specified

Use in hazardous areas

The 3RV20 motor starter protectors for motor protection (without 3RV20...-.....-0BA0 and -0DA0) have certification in accordance with both the European Explosion Protection Directive (ATEX) and the International Explosion Protection Standard (IECEx).

In accordance with the European Directive (ATEX), the 3RV20 (without 3RV20...-.....-0BA0 and -0DA0) are able to switch and protect explosion-proof motors of type of protection "Increased Safety EEx e".

In accordance with the international guideline (IECEx), the 3RV20 (without 3RV20...-.....-0BA0 and -0DA0) are able to switch and protect motors of the types "Increased Safety Ex e" or "Flameproof enclosure Ex d".

Circuit protection devices with measuring and communication capabilities

The SIRIUS wireless auxiliary and signaling switch 3RV2921-5M (3RV2 COM) is available as an accessory for 3RV2 motor starter protectors/circuit breakers (sizes S00 to S3). This switch acquires the switching states of the motor starter protector in addition to the number of disconnections. The motor starter protector states are transmitted wirelessly by means of the integrated communication function. The 3RV2 COM wireless auxiliary and signaling switch is a component of SENTRON digitalization solutions.

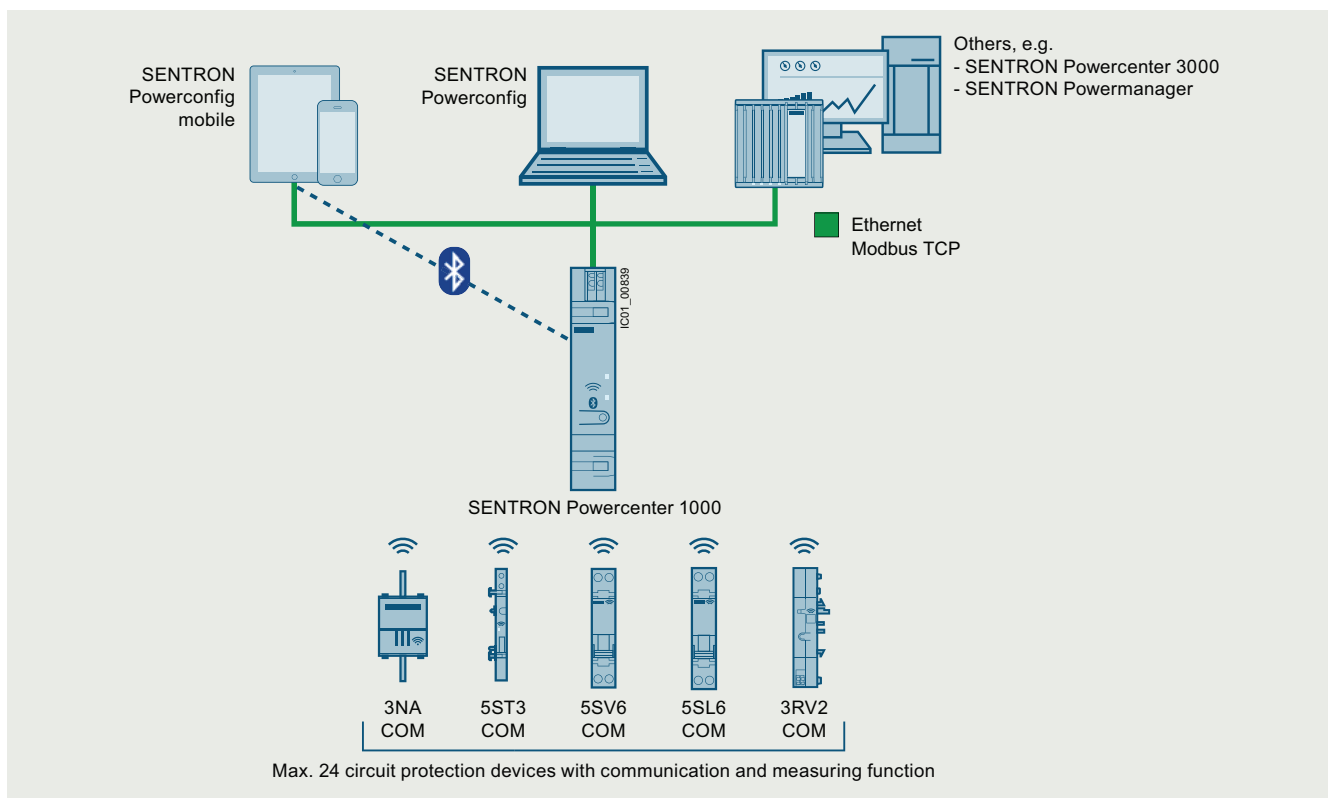
The SENTRON Powercenter 1000 data transceiver is the core element of this system of communication-capable circuit protection devices. It acquires measured values and status messages from the paired devices and transmits them to higher-level systems.

The data from up to 24 communication-capable devices are transmitted wirelessly to a SENTRON Powercenter 1000, which stores selected data for up to 30 days.

Higher-level systems can access the data via the data transceiver interfaces. Either locally via Bluetooth or via Ethernet in the local network. The Modbus TCP protocol used can easily be integrated by other systems.

Commissioning of the system is easy using the SENTRON Powerconfig PC software or the SENTRON Powerconfig app for mobile devices.

For more information, [see the Installation Manual – SENTRON Circuit protection devices with communication and measuring function](#).



The system of circuit protection devices with communication and measuring function increases system availability as it offers greater transparency through to the branch circuit as well as wireless transmission and storage of measured values.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Article number scheme

Product versions		Article number											
Motor starter protector/circuit breaker		3RV2 □ □ □ - □ □ □ □ □ - □ □ □ □											
Type of motor starter protector/circuit breaker	e.g. 0 = for motor protection/system protection	□	□	□	□	□	□	□	□	□	□	□	□
Size	e.g. 1 = 16 A (7.5 kW) for size S00	□	□	□	□	□	□	□	□	□	□	□	□
Breaking capacity	e.g. 1 = standard switching capacity	□	□	□	□	□	□	□	□	□	□	□	□
Setting range for overload release	e.g. 1A = 1.1 ... 1.6 A	□	□	□	□	□	□	□	□	□	□	□	□
Trip class (CLASS)	e.g. A = a (adjustable CLASS 10)/n (13 or 20 x I_n)	□	□	□	□	□	□	□	□	□	□	□	□
Connection methods	e.g. 1 = screw terminals	□	□	□	□	□	□	□	□	□	□	□	□
With or without auxiliary switch	e.g. 0 = without	□	□	□	□	□	□	□	□	□	□	□	□
Special versions		□	□	□	□	□	□	□	□	□	□	□	□
Example		3RV2 0 1 1 - 1 A A 1 0											

Note:

The article number scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

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

Application

Operating conditions

3RV2 motor starter protectors/circuit breakers are suitable for use in any climate. They are intended for use in enclosed rooms in which no harsh operating conditions (such as dust, caustic vapors, hazardous gases) prevail. When installed in dusty and damp areas, suitable enclosures must be provided.

3RV2 motor starter protectors/circuit breakers 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.

3RV2 motor starter protectors/circuit breakers 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, [see page 7/11](#).

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 startup data of the motor to be protected are always paramount to the choice of the most suitable motor starter protector/circuit breaker. This also applies to motor starter protectors for transformer protection.

Possible uses

The 3RV motor starter protectors/circuit breakers 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-OFF switches
- For operation in IT systems (IT networks)
- In hazardous areas (ATEX, IECEx)
- As circuit breakers according to UL 489 (3RV27 and 3RV28)
- For fuse monitoring
- For distance protection

Technical specifications

More information

Digital Configuration Manual for load feeders, see
<https://imp.siemens.com/digital-engineering-manual/dem>

Configuration Manual for load feeders, see
<https://support.industry.siemens.com/cs/ww/en/view/39714188>

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

Technical specifications, see
<https://support.industry.siemens.com/cs/ww/en/ps/16245/td>

For UL reports for the individual devices, see
<https://support.industry.siemens.com/cs/ww/en/ps/16245/cert>

Short-circuit breaking capacity I_{cu} , I_{cs} according to IEC 60947-2

The table shows the rated ultimate short-circuit breaking capacity I_{cu} and the rated service short-circuit breaking capacity I_{cs} of the 3RV motor starter protectors/circuit breakers with different operating voltages dependent on the rated current I_n of the motor starter protectors/circuit breakers.

Power can be supplied to the motor starter protectors/circuit breakers via the terminals at the top or at the bottom without restricting the rated data. If the short-circuit current at the installation location exceeds the motor starter protector/circuit breaker's specified rated short-circuit breaking capacity, you will

need to use a back-up fuse. It is also possible to install an upstream motor starter protector/circuit breaker with a limiter function.

The maximum rated current of this back-up fuse is indicated in the tables. The rated ultimate short-circuit breaking capacity then applies as specified on the fuse.

Fuseless design

Motor starter protector/contactors assemblies for short-circuit currents up to 150 kA can be ordered as 3RA2 fuseless load feeders, see page 8/6 onwards.

Motor starter protectors/circuit breakers	Rated current I_n	Up to 240 V AC ¹⁾			Up to 400 V AC ^{1)/415 V AC²⁾}			Up to 440 V AC ^{1)/460 V AC²⁾}			Up to 500 V AC ^{1)/525 V AC²⁾}			Up to 690 V AC ¹⁾		
		I_{cu}	I_{cs}	Max. fuse (gG)	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾⁴⁾
Type	A	kA	kA	A	kA	kA	A	kA	kA	A	kA	kA	A	kA	kA	A
Size S00																
3RV1011	0.16 ... 1	100	100	--	100	100	--	100	100	--	100	100	--	100	100	--
	1.25, 1.6	100	100	--	100	100	--	100	100	--	100	100	--	2	2	20
	2; 2.5	100	100	--	100	100	--	100	100	--	10	10	35	2	2	35
	3.2; 4	100	100	--	100	100	--	50	12.5	40	3	3	40	2	2	40
	5; 6.3	100	100	--	100	100	--	50	12.5	50	3	3	50	2	2	40
	8	100	100	--	50	12.5	80	50	12.5	63	3	3	63	2	2	50
	10	100	100	--	50	12.5	80	10	10	63	3	3	63	2	2	50
	12	100	100	--	50	12.5	80	10	10	80	3	3	80	2	2	50
3RV2.11	0.16 ... 1.6	100	100	--	100	100	--	100	100	--	100	100	--	100	100	--
	2; 2.5	100	100	--	100	100	--	100	100	--	100	100	--	10	10	25
	3.2	100	100	--	100	100	--	100	100	--	100	100	--	10	10	32
	4; 5	100	100	--	100	100	--	100	100	--	100	100	--	6	4	32
	6.3	100	100	--	100	100	--	100	100	--	100	100	--	6	4	50
	8	100	100	--	100	100	--	50	50	63	42	42	63	6	4	50
	10	100	100	--	100	100	--	50	50	80	42	42	63	6	4	50
3RV1611-0BD10	12.5	100	100	--	100	100	--	50	50	80	42	42	80	6	4	63
	16	100	100	--	55	30	100	50	12.5	80	10	5	80	4	4	63
Size S0																
3RV2.21	0.16 ... 1.6	100	100	--	100	100	--	100	100	--	100	100	--	100	100	--
	2; 2.5	100	100	--	100	100	--	100	100	--	100	100	--	10	10	25
	3.2	100	100	--	100	100	--	100	100	--	100	100	--	10	10	32
	4; 5	100	100	--	100	100	--	100	100	--	100	100	--	6	4	32
	6.3	100	100	--	100	100	--	100	100	--	100	100	--	6	4	50
	8	100	100	--	100	100	--	50	50	63	42	42	63	6	4	50
	10	100	100	--	100	100	--	50	50	80	42	42	63	6	4	50
	12.5	100	100	--	100	100	--	50	50	80	42	42	80	6	4	63
	16	100	100	--	55	25	100	50	12.5	80	10	5	80	4	2	63
	20	100	100	--	55	25	125	50	10	80	10	5	80	4	2	63
	22; 25	100	100	--	55	25	125	50	10	100	10	5	80	4	2	63
	28; 32	100	100	--	55	25	125	30	10	125	10	5	100	4	2	100
	36; 40	100	100	--	20	10	125	12	8	125	6	3	100	3	2	100

-- No back-up fuse required, since short-circuit-proof up to 100 kA

1) 10% overvoltage.

2) 5% overvoltage.

3) Back-up fuse only required if short-circuit current at the installation location is $> I_{cu}$.

4) Alternatively, fuseless limiter combinations for 690 V AC can also be used.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Motor starter protectors/circuit breakers	Rated current I_n	Up to 240 V AC ¹⁾			Up to 400 V AC ^{1)/415 V AC²⁾}			Up to 440 V AC ^{1)/460 V AC²⁾}			Up to 500 V AC ^{1)/525 V AC²⁾}			Up to 690 V AC ¹⁾		
		I_{cu}	I_{cs}	Max. fuse (gG)	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ³⁾	I_{cu}	I_{cs}	Max. fuse (gG) ^{3/4)}
Type	A	kA	kA	A	kA	kA	A	kA	kA	A	kA	kA	A	kA	kA	A
Size S2																
3RV2.31	14; 17	100	100	--	65	30	100	50	25	100	12	6	63	5	3	63
	20	100	100	--	65	30	100	50	25	100	12	6	80	5	3	80
	25	100	100	--	65	30	100	50	15	100	12	6	80	5	3	80
	32; 36	100	100	--	65	30	125	50	15	125	10	5	100	4	2	100
	40; 45	100	100	--	65	30	160	50	15	125	10	5	100	4	2	100
	52	100	100	--	65	30	160	50	15	125	10	5	125	4	2	125
	59; 65	100	100	--	65	30	160	50	15	160	8	4	125	4	2	125
	73; 80	100	100	--	65	30	200	50	15	200	8	4	160	4	2	125
Size S2, with increased switching capacity																
3RV2.32	14; 17	100	100	--	100	50	--	65	30	100	18	10	63	8	5	63
	20; 25	100	100	--	100	50	--	65	30	100	18	10	80	8	5	80
	32 ... 45	100	100	--	100	50	--	65	30	125	15	8	100	6	4	100
	52	100	100	--	100	50	--	65	30	125	15	8	125	6	4	125
	59; 65	100	100	--	100	50	--	50	15	160	10	5	125	6	4	125
	73; 80	100	100	--	100	50	--	50	15	200	10	5	160	6	4	125
Size S3																
3RV2.41	40	100	100	--	65	30	125	65	30	125	12	6	100	6	3	63
	50	100	100	--	65	30	125	65	30	125	12	6	100	6	3	80
	63	100	100	--	65	30	160	65	30	160	12	6	100	6	3	80
	75	100	100	--	65	30	160	65	30	160	8	4	125	5	3	100
	84 ... 100	100	100	--	65	30	160	65	30	160	8	4	125	5	3	125
Size S3, with increased switching capacity																
3RV2.42	40	100	100	--	100	50	--	100	50	--	18	9	160	12	6	80
	50	100	100	--	100	50	--	100	50	--	15	7.5	160	10	5	100
	63	100	100	--	100	50	--	70	50	200	15	7.5	160	7.5	4	100
	75	100	100	--	100	50	--	70	50	200	10	5	160	6	3	125
	84 ... 100	100	100	--	100	50	--	70	50	200	10	5	160	6	3	160
3RV2742	10 ... 70	100	100	--	100	50	--	--	--	--	--	--	--	--	--	--

-- No back-up fuse required, since short-circuit-proof up to 100 kA

1) 10% overvoltage.

2) 5% overvoltage.

3) Back-up fuse only required if short-circuit current at the installation location is $> I_{cu}$.

4) Alternatively, fuseless limiter combinations for 690 V AC can also be used.

Protection equipment

Motor starter protectors/circuit breakers
SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Short-circuit breaking capacity I_{cuIT} in the IT system (IT network) according to IEC 60947-2

3RV motor starter protectors/circuit breakers are suitable for use in IT systems. The values of I_{cu} and I_{cs} apply for the 3-pole short circuit. In the case of a double ground fault in different phases at the input and output side of a motor starter protector/circuit breaker, the special short-circuit breaking capacity I_{cuIT} applies. The specifications in the table below apply to 3RV motor starter protectors/circuit breakers.

If the short-circuit current at the installation location exceeds the motor starter protector/circuit breaker's specified rated short-circuit breaking capacity, you will need to use a back-up fuse. The maximum rated current of this back-up fuse is indicated in the tables. The rated short-circuit breaking capacity then applies as specified on the fuse.

Motor starter protectors/circuit breakers	Rated current I_n	Up to 240 V AC ¹⁾		Up to 400 V AC ^{1)/415 V AC²⁾}		Up to 440 V AC ^{1)/460 V AC²⁾}		Up to 500 V AC ^{1)/525 V AC²⁾}		Up to 690 V AC ¹⁾³⁾	
		I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾⁵⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾
Type	A	kA	A	kA	A	kA	A	kA	A	kA	A
Size S00											
3RV1011	0.16 ... 0.4	100	--	100	--	100	--	100	--	100	--
	0.5	100	--	100	--	100	--	100	--	0.5	4
	0.63	100	--	100	--	6	6	6	6	0.5	6
	0.8	100	--	100	--	5	6	5	6	0.5	6
	1	100	--	4	10	2	10	2	10	0.5	10
	1.25	100	--	2	20	2	16	2	16	0.5	16
	1.6	100	--	2	20	2	20	2	20	1	16
	2	100	--	2	35	2	25	2	25	1	20
	2.5	100	--	2	35	2	25	2	25	1	25
	3.2	100	--	2	40	2	35	2	35	1	25
	4	100	--	2	40	2	35	2	35	1	35
	5	100	--	2	50	2	35	2	35	1	35
	6.3	100	--	2	50	2	40	2	40	1	40
	8	50	80	2	63	2	40	2	40	1	40
	10	50	80	2	63	2	50	2	50	1	50
	12	50	80	2	80	2	50	2	50	1	50
3RV2.11	0.16 ... 0.4	100	--	100	--	100	--	100	--	100	--
	0.5	100	--	100	--	100	--	100	--	0.5	4
	0.63; 0.8	100	--	100	--	100	--	100	--	0.5	6
	1	100	--	100	--	2	10	2	10	1.5	10
	1.25	100	--	100	--	2	16	2	16	1.5	16
	1.6	100	--	100	--	2	20	2	20	1.5	16
	2; 2.5	100	--	8	25	2	25	2	25	1.5	20
	3.2	100	--	8	32	2	32	2	32	1.5	25
	4; 5	100	--	4	32	1.5	32	1.5	32	1.5	25
	6.3; 8	100	--	4	50	1	40	1	40	1	35
	10	100	--	4	50	1	40	1	40	1	40
	12.5	100	--	4	63	1	50	1	50	1	40
	16	55	80	4	63	1	50	1	50	1	40
Size S0											
3RV2.21	0.16 ... 0.4	100	--	100	--	100	--	100	--	100	--
	0.5	100	--	100	--	100	--	100	--	0.5	4
	0.63; 0.8	100	--	100	--	100	--	100	--	0.5	6
	1	100	--	100	--	2	10	2	10	1.5	10
	1.25	100	--	100	--	2	16	2	16	1.5	16
	1.6	100	--	100	--	2	20	2	20	1.5	16
	2; 2.5	100	--	8	25	2	25	2	25	1.5	20
	3.2	100	--	8	32	2	32	2	32	1.5	25
	4; 5	100	--	4	32	1.5	32	1.5	32	1.5	25
	6.3; 8	100	--	4	50	1	40	1	40	1	35
	10	100	--	4	50	1	40	1	40	1	40
	12.5	100	--	4	63	1	50	1	50	1	40
	16	55	80	4	63	1	50	1	50	1	40
	20 ... 25	55	80	4	63	1	50	1	50	1	50
	28; 32	55	80	2	63	1	63	1	63	1	63
	36; 40	20	80	2	63	1	63	1	63	1	63
Size S2											
3RV2031, 3RV2131, 3RV2331	14 ... 25	100	--	8	100	6	80	6	80	4	63
	32 ... 45	100	--	6	125	4	100	4	100	3	80
	52 ... 80	100	--	4	160	3	125	3	125	2	100
Size S2, with increased switching capacity											
3RV2032, 3RV2332	14 ... 25	100	--	8	100	6	80	6	80	4	63
	32 ... 45	100	--	6	125	6	100	6	100	4	80
	52	100	--	6	160	6	125	6	125	4	100
	59 ... 80	100	--	6	160	4	125	4	125	4	100

-- No back-up fuse required, since short-circuit-proof up to 100 kA

1) 5% overvoltage.

2) Without overvoltage.

3) Overvoltage category II applies for applications in IT systems > 600 V.

4) Back-up fuse only required if short-circuit current at the installation location is > I_{cuIT} .

5) Alternatively, fuseless limiter combinations for 690 V AC can also be used.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Motor starter protectors/circuit breakers	Rated current I_n	Up to 240 V AC ¹⁾		Up to 400 V AC ^{1)/415 V AC²⁾}		Up to 440 V AC ^{1)/460 V AC²⁾}		Up to 500 V AC ^{1)/525 V AC²⁾}		Up to 690 V AC ¹⁾³⁾	
		I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾⁵⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾	I_{cuIT}	Max. fuse (gG) ⁴⁾
Type	A	kA	A	kA	A	kA	A	kA	A	kA	A
Size S3											
3RV2.41	40	65	125	10	63	5	50	5	50	5	50
	50	65	125	8	80	3	63	3	63	3	63
	63	65	160	6	80	3	63	3	63	3	63
	75	65	160	5	100	2	80	2	80	2	80
	84 ... 100	65	160	5	125	2	100	2	100	2	100
Size S3, with increased switching capacity											
3RV2.42	40	100	--	12	80	6	63	6	63	6	63
	50	100	--	10	100	4	80	4	80	4	80
	63	100	--	7.5	100	4	80	4	80	4	80
	75	100	--	6	125	3	100	3	100	3	100
	84 ... 100	100	--	6	160	3	125	3	125	3	125
3RV2742	10 ... 25	100	--	12	63	--	--	--	--	--	--
	30	100	--	12	80	--	--	--	--	--	--
	35; 40	100	--	10	100	--	--	--	--	--	--
	45; 50	100	--	7.5	100	--	--	--	--	--	--
	60	100	--	6	125	--	--	--	--	--	--
	70	100	--	6	160	--	--	--	--	--	--

-- No back-up fuse required, since short-circuit-proof up to 100 kA

1) 10% overvoltage.

2) 5% overvoltage.

3) Overvoltage category II applies for applications in IT systems > 600 V.

4) Back-up fuse only required if short-circuit current at the installation location is > I_{cuIT} .

5) Alternatively, fuseless limiter combinations for 690 V AC can also be used.

Limiter function with standard devices for 500 V AC and 690 V AC according to IEC 60947-2

The table shows the rated ultimate short-circuit breaking capacity I_{cu} and the rated service short-circuit breaking capacity I_{cs} with an upstream standard motor starter protector/circuit breaker that fulfills the limiter function at voltages 500 V AC and 690 V AC.

The short-circuit breaking capacity can be increased significantly with an upstream standard motor starter protector/circuit breaker with limiter function. The motor starter protector/circuit breaker which is connected downstream must be set to the rated current of the load.

With motor starter protector/circuit breaker assemblies, note the clearance to grounded parts and between the motor starter protectors/circuit breakers. Short-circuit-proof wiring between the motor starter protectors/circuit breakers must be ensured. The motor starter protectors/circuit breakers can be mounted side by side in a modular arrangement.

Standard motor starter protectors/circuit breakers		Rated current I_n	Up to 500 V AC ^{1)/525 V AC²⁾}		Up to 690 V AC ¹⁾³⁾	
With limiter						
Rated current I_n						
Type	Type	A	I_{cu} kA	I_{cs} kA	I_{cu} kA	I_{cs} kA
Size S00						
Size S0: 3RV2321-4EC10 $I_n = 32$ A	3RV2011	2 ... 6.3	--	--	50	25
		8	100	50	50	25
		10 ... 16	100	50	20 ⁴⁾	10 ⁴⁾
Size S2: 3RV2331-4WC10 $I_n = 52$ A	3RV2011	10 ... 16	Use a size S0 limiter	Use a size S0 limiter	50	25
Size S0						
Size S0: 3RV2321-4EC10 $I_n = 32$ A	3RV2021	12 ... 32	100	50	20 ⁴⁾	10 ⁴⁾
Size S2: 3RV2331-4WC10 $I_n = 52$ A	3RV2021	16 ... 32	Use a size S0 limiter	Use a size S0 limiter	50	20
Size S2, with increased switching capacity						
Size S2: 3RV2332-4RC10 $I_n = 80$ A	3RV2032	14 ... 80	100	50	70	35
Size S3, with increased switching capacity						
Size S3⁵⁾: 3RV2342-4MC10 $I_n = 100$ A	3RV2042	40 ... 100	100	50	50	25

-- No limiter required

1) 10% overvoltage.

2) 5% overvoltage.

3) Use 3RV29.8-1K phase barriers on the infeed side.

4) Infeed to the limiter is always on the side 1L1/3L2/5L3.

5) Infeed to the limiter only on the side 2T1/4T2/6T3. Use 3RV2948-1K phase barriers on the infeed side.

Protection equipment

Motor starter protectors/circuit breakers
SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Permissible rated data of devices approved for North America (UL/CSA)

Motor starter protectors of the 3RV2 series are approved for UL/CSA, and according to UL 508/UL 60947-4-1 and CSA C22.2 No. 14/CSA C22.2 No. 60947-4-1 they can be used on their own or as load feeders in combination with a contactor.

These motor starter protectors/circuit breakers can be used as "Manual Motor Controllers" for "Group Installations", as "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations" and as "Self-Protected Combination Motor Controllers (Type E)".

3RV motor starter protectors as "Manual Motor Controllers"

If used as a "Manual Motor Controller", the motor starter protector is always operated in combination with an upstream short-circuit protection. Approved fuses or circuit breakers according to UL 489/CSA C22.2 No. 5 may be used for this purpose. These devices must be dimensioned according to the National Electrical Code (UL) or Canadian Electrical Code (CSA).

The file numbers for the approval of the 3RV as a manual motor controller are as follows:

- UL File No. 47705, CCN: NLRV
- CSA Master Contract 165071, Product Class: 3211

Motor starter protectors/ circuit breakers		hp rating ¹⁾ for FLA ²⁾ max.		Rated current <i>I_n</i>	240 V AC		480 V AC		600 V AC	
		1-phase	3-phase		UL <i>I_{bc}</i> ³⁾	CSA <i>I_{bc}</i> ³⁾	UL <i>I_{bc}</i> ³⁾	CSA <i>I_{bc}</i> ³⁾	UL <i>I_{bc}</i> ³⁾	CSA <i>I_{bc}</i> ³⁾
Type	V			A	kA	kA	kA	kA	kA	kA
Size S00										
3RV1011					0.16 ... 2	65	65	65	65	10
FLA ²⁾ max. 12 A, 600 V	115	1/2	--	2.5	65	65	65	65	10	10
	200	1 1/2	3	3.2	65	65	65	65	10	10
	230	2	3	4	65	65	65	65	10	10
	460	--	7 1/2	5	65	65	65	65	10	10
	575/600	--	10	6.3	65	65	65	65	10	10
				8	65	65	65	65	10	10
3RV2011, 3RV2111, 3RV2311, 3RV2411					10	65	65	65	10	10
FLA ²⁾ max. 16 A, 480 V 12.5 A, 600 V	115/120	1	2	12	65	65	65	65	10	10
	200/208	2	3	16	65	65	65	65	30	30
	230/240	2	5		65	65	65	65	--	--
	460/480	--	10							
	575/600	--	10							
3RV1611-0BD10					0.2	65	65	65	10	10
Size S0										
3RV2021, 3RV2121, 3RV2321, 3RV2421					0.16 ... 12.5	65	65	65	65	30
FLA ²⁾ max. 40 A, 480 V 12.5 A, 600 V	115/120	3	5	16 ... 25	65	65	65	65	--/(30) ⁴⁾	--/(30) ⁴⁾
	200/208	5	10	28, 32	65	65	50	50	--	--
	230/240	7 1/2	10	36, 40	65	65	12	12	--	--
	460/480	--	30							
	575/600	--	--							
Size S2										
3RV2031, 3RV2131, 3RV2331, 3RV2431					14 ... 36	65	65	65	65	25
FLA ²⁾ max. 80 A, 600 V	115/120	7 1/2	10	40 ... 52	65	65	65	65	22	22
	200/208	15	25	59 ... 65	65	65	65 ⁵⁾	65 ⁵⁾	20 ⁵⁾	20 ⁵⁾
	230/240	15	30	73 ... 80	65	65	65 ⁵⁾	65 ⁵⁾	20 ⁵⁾	20 ⁵⁾
	460/480	--	60							
	575/600	--	75							
Size S2, with increased switching capacity										
3RV2032, 3RV2332					14 ... 36	100	100	100	100	25
FLA ²⁾ max. 80 A, 600 V	115/120	7 1/2	10	40 ... 52	100	100	100	100	22	22
	200/208	15	25	59 ... 65	100	100	100 ⁵⁾	100 ⁵⁾	25 ⁵⁾	25 ⁵⁾
	230/240	15	30	73 ... 80	100	100	100 ⁵⁾	100 ⁵⁾	25 ⁵⁾	25 ⁵⁾
	460/480	--	60							
	575/600	--	75							
Size S3										
3RV2041, 3RV2142, 3RV2341, 3RV2042, 3RV2342					40 ... 75	65	65	65	65	30
FLA ²⁾ max. 100 A, 600 V	115/120	7 1/2	15	84 ... 100	65	65	65	65	10/30 ⁶⁾	10/30 ⁶⁾
	200/208	15	30							
	230/240	20	40							
	460/480	--	75							
	575/600	--	100							

-- No approval

¹⁾ hp rating = Power rating in horse power (maximum motor rating).

²⁾ FLA = Full Load Amps (motor full load current).

³⁾ Corresponds to "short-circuit breaking capacity" according to UL/CSA.

⁴⁾ Values in brackets only apply to 3RV2.23 motor starter protectors.

⁵⁾ With Class J fuse.

⁶⁾ With Class J fuse 300 A.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

3RV20 motor starter protectors (up to 100 A) as "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations"

The application as "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations" is only available for UL. CSA does not recognize this approval! When the motor starter protector is used as a "Manual Motor Controller Suitable for Tap Conductor Protection in Group Installations", it must always be combined with upstream short-circuit protection. Approved fuses or circuit breakers according to UL 489 may be used for this purpose. These devices must be dimensioned according to the National Electrical Code.

The 3RV20 motor starter protectors are approved as "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations" under the following file number:

- UL File No. 47705, CCN: NLRV

Motor starter protectors/circuit breakers		hp rating ¹⁾ for FLA ²⁾ max.		Rated current I_n	240 V AC UL I_{bc} ³⁾ kA	480 Y/277 V AC UL I_{bc} ³⁾ kA	600 Y/347 V AC UL I_{bc} ³⁾ kA
Type	V	1-phase	3-phase	A			
Size S00							
3RV1011							
FLA ²⁾ max. 8 A, 480 V	115	1/3	--	0.16 ... 0.8	65	65	10
	200	3/4	2	1	65	65	10
	230	1	2	1.25	65	65	10
	460	--	5				
	575/600	--	--				
				2	65	65	10
				2.5	65	65	10
				3.2	65	65	10
				4	65	65	10
				5	65	65	10
				6.3	65	65	10
				8	65	65	10
3RV2011							
FLA ²⁾ max. 16 A, 480 V 12.5 A, 600 V	115/120	1	2	0.16 ... 12.5	65	65	30
	200/208	2	3	16	65	65	--
	230/240	2	5				
	460/480	--	10				
	575/600	--	10				
Size S0							
3RV2021							
FLA ²⁾ max. 32 A, 480 V 12.5 A, 600 V	115/120	2	5	0.16 ... 12.5	65	65	30
	200/208	3	10	16 ... 25	65	65	--
	230/240	5	10	28; 32	50	50	--
	460/480	--	20				
	575/600	--	--				
Size S2							
3RV2031							
FLA ²⁾ max. 80 A, 480 V 52 A, 600 V	115/120	7 1/2	10	14 ... 36	65	65	25
	200/208	15	25	40 ... 52	65	65	22
	230/240	15	30	59 ... 65	65	30	--
	460/480	--	60	73	65	20	--
	575/600	--	75	80	65	10	--
Size S2, with increased switching capacity							
3RV2032							
FLA ²⁾ max. 80 A, 480 V 52 A, 600 V	115/120	7 1/2	10	14 ... 36	100	100	25
	200/208	15	25	40 ... 52	100	100	22
	230/240	15	30	59 ... 65	100	42	--
	460/480	--	60	73	100	30	--
	575/600	--	75	80	100	10	--
Size S3							
3RV2041, 3RV2042							
FLA ²⁾ max. 100 A, 480 V 75 A, 600 V	115/120	7 1/2	15	40 ... 75	65	65	30
	200/208	15	30	84 ... 100	65	65	--
	230/240	20	40				
	460/480	--	75				
	575/600	--	75				

-- No approval

¹⁾ hp rating = Power rating in horse power (maximum motor rating).

²⁾ FLA = Full Load Amps (motor full load current).

³⁾ Corresponds to "short-circuit breaking capacity" according to UL.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

3RV20 motor starter protectors (up to 100 A) as "Self-Protected Combination Motor Controllers (Type E)"

UL 508/UL 60947-4-1 approval demands 1-inch clearance and 2-inch creepage distances at line side for "Self-Protected Combination Motor Controllers".

Therefore, 3RV20 motor starter protectors of sizes S00 to S3 are approved according to UL 508/UL 60947-4-1 in combination with the terminal blocks listed below.

CSA does not require these extended clearance and creepage distances. According to CSA, these terminal blocks can be

omitted when the device is used as a "Self-Protected Combination Motor Controller".

The 3RV20 motor starter protectors are approved as "Self-Protected Combination Motor Controllers" under the following file numbers:

- UL File No. E156943, CCN: NKJH
- CSA Master Contract 165071, Product Class: 3211 08

Motor starter protectors/ circuit breakers		hp rating ¹⁾ for FLA ²⁾ max.		Rated current I_n A	Up to 240 V AC		Up to 480 Y/277 V AC		Up to 600 Y/347 V AC	
		1-phase	3-phase		UL I_{bc} ³⁾ kA	CSA I_{bc} ³⁾ kA	UL I_{bc} ³⁾ kA	CSA I_{bc} ³⁾ kA	UL I_{bc} ³⁾ kA	CSA I_{bc} ³⁾ kA
Type	V									
Size S00										
3RV2011 + 3RV2928-1H⁴⁾				0.16 ... 12.5 16	65 65	65 65	65 65	65 65	30 --	30 --
FLA ²⁾ max.	115/120	1	2							
16 A, 480 V	200/208	2	3							
12.5 A, 600 V	230/240	2	5							
	460/480	--	10							
	575/600	--	10							
Size S0										
3RV2021 + 3RV2928-1H⁴⁾				0.16 ... 12.5 16 ... 25 28; 32	65 65 50	65 65 50	65 65 50	65 65 50	30 -- --	30 -- --
FLA ²⁾ max.	115/120	2	5							
32 A, 480 V	200/208	3	10							
12.5 A, 600 V	230/240	5	10							
	460/480	--	20							
	575/600	--	--							
Size S2										
3RV2031+ 3RV2938-1K⁴⁾				14 ... 36 40 ... 52 59 ... 73	65 65 65	65 65 65	65 65 20	65 65 20	25 22 --	25 22 --
FLA ²⁾ max.	115/120	7 1/2	10							
73 A, 480 V	200/208	15	25							
52 A, 600 V	230/240	15	30							
	460/480	--	60							
	575/600	--	75							
Size S2, with increased switching capacity										
3RV2032 + 3RV2938-1K⁴⁾				14 ... 36 40 ... 52 59 ... 73	100 100 100	100 100 100	100 100 30	100 100 30	25 22 --	25 22 --
FLA ²⁾ max.	115/120	7 1/2	10							
73 A, 480 V	200/208	15	25							
52 A, 600 V	230/240	15	30							
	460/480	--	60							
	575/600	--	75							
Size S3										
3RV2041/3RV2042 + 3RT2946-4GA07⁴⁾				40 ... 75 84 ... 100	65 65	65 65	65 65	65 65	30 --	30 --
FLA ²⁾ max.	115/120	7 1/2	15							
100 A, 480 V	200/208	15	30							
75 A, 600 V	230/240	20	40							
	460/480	--	75							
	575/600	--	75							

-- No approval

¹⁾ hp rating = Power rating in horse power (maximum motor rating).

²⁾ FLA = Full Load Amps (motor full load current).

³⁾ Corresponds to "short-circuit breaking capacity" according to UL/CSA.

⁴⁾ Not required for CSA.

⁵⁾ Alternatively 3RV2928-1K phase barrier can be used.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

3RV27 and 3RV28 motor starter protectors as "circuit breakers"

These motor starter protectors are approved as circuit breakers according to UL 489 and CSA C22.2 No. 5. They can be used therefore as upstream short-circuit protective devices for "Manual Motor Controllers" and "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations".

3RV27 and 3RV28 motor starter protectors are approved as "circuit breakers" under the following file numbers:

- UL File No. E235044, CCN: DIVQ
- CSA Master Contract 165071, Product Class: 1432 01

Motor starter protectors/ circuit breakers	Rated current I_n	240 V AC		480 Y/277 V AC		480 V AC		600 Y/347 V AC		600 V AC	
		UL	CSA	UL	CSA	UL	CSA	UL	CSA	UL	CSA
		$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$	$I_{bc}^{1)}$
Type	A	kA	kA	kA	kA	kA	kA	kA	kA	kA	kA
Size S00											
3RV2711	0.16 ... 12.5 15	65 65	65 65	65 65	65 65	-- --	-- --	10 --	10 --	-- --	-- --
3RV2811	0.16 ... 12.5 15	65 65	65 65	65 65	65 65	-- --	-- --	10 --	10 --	-- --	-- --
Size S0											
3RV2721	20; 22	50	50	50	50	--	--	--	--	--	--
3RV2821	20; 22	50	50	50	50	--	--	--	--	--	--
Size S3											
3RV2742	10; 15 20 ... 30 35 ... 60 70	65 65 65 65	65 65 65 65	65 65 65 65	65 65 65 65	65 65 -- --	65 65 -- --	20 20 20 10	20 20 20 10	20 -- -- --	20 -- -- --

-- No approval

¹⁾ Corresponds to "short-circuit breaking capacity" according to UL.

General data							
Type			3RV2.1.	3RV2.2.	3RV2.3.	3RV2.4.	3RV27, 3RV28
Size			S00	S0	S2	S3	S00, S0
Dimensions (W x H x D)							
• Screw terminals							
• Spring-loaded terminals							
Standards							
• IEC 60947-1 (VDE 0660 Part 100)			Yes				
• IEC 60947-2 (VDE 0660 Part 101)			Yes				
• IEC 60947-4-1 (VDE 0660 Part 102)			Yes				
• UL 508/UL 60947-4-1, CSA C22.2 No. 14/CSA C22.2 No. 60947-4-1			Yes (not for 3RV2...-0BA0 and -0DA0 motor starter protectors)				
• UL 489, CSA C22.2 No. 5			--				
Number of poles			3				
Max. rated current $I_{n \max}$ (= max. rated operational current I_e)		A	16	40	80	100	22
Permissible ambient temperature							
• Storage/transport		°C	-50 ... +80				
• Operation		°C	-20 (-50) ¹⁾ ... +70				
	I_n : 0.16 ... 32 A	°C	(current reduction above +60 °C)				
	I_n : 36 ... 40 A	°C	--				
			-20 ... +40				
			(the devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required.)				
	I_n : 14 ... 80 A	°C	-20 (-50) ¹⁾ ... +70				
	I_n : 40 ... 100 A	°C	(current reduction above +60 °C)				
			-20 ... +70				
			(current reduction above +60 °C)				
Permissible rated current at inside temperature of control cabinet							
• +60 °C		%	100				
• +70 °C		%	87				
Permissible rated current at ambient temperature of enclosure (applies to motor starter protector/circuit breaker inside enclosure: S00/S0 ≤ 32 A, S2 ≤ 52 A)							
• +35 °C		%	100				
• +60 °C		%	--				
Rated operational voltage U_e							
• According to IEC		V AC	690 (when a molded-plastic enclosure is used only 500 V)				
• According to UL/CSA		V AC	600				
Rated frequency		Hz	50/60				
Rated insulation voltage U_i		V	690				
Rated impulse withstand voltage U_{imp}		kV	6				
Utilization category							
• IEC 60947-2 (motor starter protector/circuit breaker)			A				
• IEC 60947-4-1 (motor starter)			AC-3 and AC-3e				
Trip class CLASS	According to IEC 60947-4-1		10				
			10/20				
Power loss P_v per motor starter protector	I_n : 0.16 ... 0.63 A	W	5.5				
	I_n : 0.8 ... 6.3 A	W	7.3				
	I_n : 8 ... 16 A	W	9.3				
dependent upon rated current I_n (upper setting range)	I_n : 14 ... 16 A	W	--				
	I_n : 17 ... 25 A	W	9.3				
	I_n : 28 ... 32 A	W	12.5				
	I_n : 36 ... 40 A	W	14.5				
			18				
			20				
	I_n : 45 ... 52 A	W	24.5				
	I_n : 59 ... 65 A	W	26				
	I_n : 73 ... 80 A	W	29.5				
	I_n : 40 ... 50 A	W	27				
	I_n : 63 ... 75 A	W	38				
	I_n : 84 ... 93 A	W	39				
	I_n : 100 A	W	44				
Shock resistance	According to IEC 60068-2-27	g/ms	25/11 (square and sine pulse)				

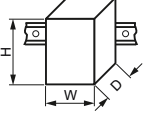
1) Value in brackets applies to the 3RV2...-.....0BA0 motor starter protectors.

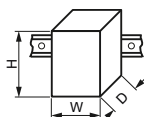
Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

General data (continued)					
Type		3RV2.1.	3RV2.2.	3RV2.3.	3RV2.4.
Size		S00	S0	S2	S3
Dimensions (W x H x D)		45 x 97 x 92	45 x 97 x 92	55 x 140 x 149	70 x 165 x 169
• Screw terminals	mm	45 x 106 x 92	45 x 119 x 92	--	--
• Spring-loaded terminals	mm	--	--	--	--
Degree of protection IP on the front	According to IEC 60529	IP20 (screw terminals and spring-loaded terminals)			
Touch protection on the front	According to IEC 60529	Finger-safe for vertical touching from the front (screw and spring-loaded terminals)			
Temperature compensation	According to IEC 60947-4-1 °C	-20 ... +60			
Phase failure sensitivity	According to IEC 60947-4-1	Yes (not for 3RV23, 3RV2...-.....-0DA0 motor starter protectors)			
Protection of motors in hazardous environments		Yes (not for 3RV20 motor starter protectors, not for 3RV20...-.....-0BA0 and -0DA0)			
• EC type-examination certificate number according to European Directive 2014/34/EU (ATEX)		DMT 02 ATEX F 001 Ex II (2) GD			
• According to international standard IECEx		IECEx BVS14.0102 [Ex]			
Isolating function	According to IEC 60947-2	Yes			
Main and EMERGENCY-OFF switch characteristics	According to IEC 60204-1 (VDE 0113)	Yes			
(with corresponding accessories)					
Protective separation between main and auxiliary circuits required for PELV applications	According to IEC 60947-1				
• Up to 400 V + 10%		Yes			
• Up to 415 V + 5% (higher voltages on request)		Yes			
• Up to 690 V (depends on mounted accessories)		Yes, see certificate			
Permissible mounting position		Any, according to IEC 60447 start command "I" right-hand side or top			
Mechanical endurance (operating cycles)					
• 3RV2		100 000	Up to 52 A: 50 000, up to 80 A: 20 000 250	25 000	100 000
• 3RV2...-.....-0BA0		500	250	--	
Electrical endurance (operating cycles)					
• 3RV2		100 000	Up to 52 A: 50 000, up to 80 A: 20 000 250	25 000	100 000
• 3RV2...-.....-0BA0		500	250	--	
Max. switching frequency per hour (motor starts)	1/h	15			

General data					
Type		3RV2742	3RV1611-0BD10¹⁾	3RV1011	
Size		S3	S00	S00	
Dimensions (W x H x D)		70 x 168 x 169	45 x 90 x 70	45 x 90 x 70	
Standards					
• IEC 60947-1 (VDE 0660 Part 100)		Yes			
• IEC 60947-2 (VDE 0660 Part 101)		Yes			
• IEC 60947-4-1		Yes	Yes		
• UL 508/UL 60947-4-1, CSA C22.2 No.14/CSA 60947-4-1		No	Yes		
• UL 489, CSA C22.2 No.5		Yes	No		
Number of poles		3			
Max. rated current $I_{n \max}$ (= max. rated operational current I_{ϕ})	A	70	0.2	12	
Permissible ambient temperature					
• Storage/transport	°C	-50 ... +80			
• Operation	°C	-20 ... +70 (current reduction above +60 °C)			
Permissible rated current at inside temperature of control cabinet					
• +60 °C	%	100			
• +70 °C	%	87			
Permissible rated current at ambient temperature of enclosure (applies to motor starter protector/circuit breaker inside enclosure)					
• +35 °C	%	--			
• +60 °C	%	--			
Rated operational voltage U_e					
• According to IEC	V AC	400			
• According to UL/CSA	V AC	600			
Rated frequency	Hz	50/60			
Rated insulation voltage U_i	V	1 000			
Rated impulse withstand voltage U_{imp}	kV	8			
Utilization category					
• IEC 60947-2 (motor starter protector/circuit breaker)		A			
• IEC 60947-4-1 (motor starter)		AC-3			

¹⁾ Technical specifications for 3RV1611 voltage transformer circuit breakers, [see page 7/23](#).

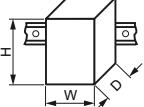
Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

General data (continued)

Type			3RV2742	3RV1611-0BD10 ¹⁾	3RV1011
Size			S3	S00	S00
Dimensions (W x H x D)		mm	70 x 168 x 169	45 x 90 x 70	45 x 90 x 70
Power loss P_V per motor starter protector	I_n : 0.2 A	W	--	5	--
dependent upon	I_n : 10 A	W	10	--	--
rated current I_n	I_n : 15 ... 35 A	W	14	--	--
(upper setting range)	I_n : 40 ... 70 A	W	23.5	--	--
	I_n : ... 1.25 A	W	--	--	5.5
$R_{\text{per conducting path}} = \frac{P}{I^2 \times 3}$	I_n : 1.65 ... 6.3 A	W	--	--	7.3
	I_n : 8 ... 12 A	W	--	--	9.3
Shock resistance	According to IEC 60068-2-27	g/ms	25/11 (square and sine pulse)		
Degree of protection IP on the front	According to IEC 60529		IP20		
Touch protection on the front	According to IEC 60529		Finger-safe for vertical touching from the front		
Temperature compensation	According to IEC 60947-4-1	°C	-20 ... +60		
Phase failure sensitivity	According to IEC 60947-4-1		No	Yes	
Explosion protection – Safe operation of motors with "increased safety" type of protection			No		Yes
EC type-examination certificate number according to Directive 2014/34/EU (ATEX)					
Isolating function	According to IEC 60947-2		Yes		
Main and EMERGENCY-OFF switch characteristics	According to IEC 60204-1 (VDE 0113)		Yes		
(with corresponding accessories)					
Protective separation between main and auxiliary circuits, required for PELV applications	According to IEC 60947-1				
• Up to 400 V + 10%			Yes		
• Up to 415 V + 5% (higher voltages on request)			Yes		
Permissible mounting position			Any, according to IEC 60447 start command "I" right-hand side or top		
Mechanical endurance	Operating cycles		25 000	100 000	
Electrical endurance	Operating cycles		25 000	100 000	
Max. switching frequency per hour (motor starts)	1/h		15		

¹⁾ Technical specifications for 3RV1611 voltage transformer circuit breakers, see page 7/23.

Rated data of the auxiliary switches and signaling switches

		Lateral auxiliary switch with 1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC	Signaling switch	Transverse auxiliary switch with 1 CO	1 NO + 1 NC, 2 NO
Max. rated voltage					
• According to NEMA (UL)	V AC	600		250	
• According to NEMA (CSA)	V AC	600		250	
Uninterrupted current	A	10		5	2.5
Switching capacity		1 NO + 1 NC, 2 NO, 2 NC: A600, Q300; 2 NO + 2 NC: A300, Q300	A600, Q300	B600, R300	C300, R300

Rated data of the 3RV2 COM wireless auxiliary and signaling switch

		3RV2921-5M wireless auxiliary and signaling switch
Radio Equipment Directive		2014/53/EU
Rated control supply voltage	V DC	24
Power loss	W	0.5
Type of connectable conductor cross-sections		
• Solid		2 x (0.2 ... 1.5 mm ²)
• Finely stranded		2 x (0.2 ... 1.5 mm ²)
- Without end sleeve		2 x (0.2 ... 1.5 mm ²)
- With end sleeve		2 x (0.2 ... 1.5 mm ²)
• For AWG cables	AWG	2 x (24 ... 16)

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Front transverse auxiliary switches				Switching capacity for different voltages	
				1 CO	1 NO + 1 NC, 2 NO
Rated operational current I_e					
• At AC-15, alternating voltage	- 24 V	A	4		2
	- 230 V	A	3		0.5
• At AC-12 = I_{th} , alternating voltage	- 24 V	A	10		2.5
	- 230 V	A	10		2.5
• At DC-13, direct voltage L/R 200 ms	- 24 V	A	1		1
	- 48 V	A	--		0.3
	- 60 V	A	--		0.15
	- 110 V	A	0.22		--
	- 220 V	A	0.1		--
Minimum load capacity		V	17		
		mA	1		

Front transverse solid-state-compatible auxiliary switches				Switching capacity for different voltages	
				1 CO	
Rated operational voltage U_e	Alternating voltage	V	125		
Rated operational current $I_e/AC-14$	At $U_e = 125$ V	A	0.1		
Rated operational voltage U_e	Direct voltage L/R 200 ms	V	60		
Rated operational current $I_e/DC-13$	At $U_e = 60$ V	A	0.3		
Minimum load capacity		V	5		
		mA	1		

Lateral auxiliary switches with signaling switch				Switching capacity for different voltages: Lateral auxiliary switch with 1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC, Signaling switch	
Rated operational current I_e					
• At AC-15, alternating voltage	- 24 V	A	6		
	- 230 V	A	4		
	- 400 V	A	3		
	- 690 V	A	1		
• At AC-12 = I_{th} , alternating voltage	- 24 V	A	10		
	- 230 V	A	10		
	- 400 V	A	10		
	- 690 V	A	10		
• At DC-13, direct voltage L/R 200 ms	- 24 V	A	2		
	- 110 V	A	0.5		
	- 220 V	A	0.25		
	- 440 V	A	0.1		
Minimum load capacity		V	17		
		mA	1		

Auxiliary releases				Undervoltage releases	Shunt releases
Power consumption					
• During closing	- AC voltages	VA/W	20.2/13		
	- DC voltages	W	20		13 ... 80
• During uninterrupted duty	- AC voltages	VA/W	7.2/2.4		--
	- DC voltages	W	2.1		--
Response voltage					
• Tripping	V		0.35 ... 0.7 x U_s		0.7 ... 1.1 x U_s
• Closing	V		0.85 ... 1.1 x U_s		--
Opening time maximum		ms	20		

Short-circuit protection for auxiliary and control circuits					
Melting fuses operational class gG		A	10		
Miniature circuit breakers C characteristic		A	6	(prospective short-circuit current < 0.4 kA)	

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Conductor cross-sections of main circuit						
Type		3RV2.11	3RV2.21	3RV2.31-4B.1., 3RV2.31-4D.1., 3RV2.31-4E.1., 3RV2.31-4P.1., 3RV2.31-4S.1., 3RV2.31-4T.1., 3RV2.31-4U.1., 3RV2.31-4V.1.	3RV2.31-4J.1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.31-4W.1., 3RV2.31-4X.1., 3RV2431-4VA1., 3RV2.32	3RV27.1, 3RV28.1
Size		S00	S0	S2		S00, S0
Connection type		 Screw terminals				
Terminal screw		M3, Pozidriv size 2	M4, Pozidriv size 2	M6, Pozidriv size 2		M4, Pozidriv size 2
Operating tools		mm	∅ 5 ... 6	∅ 5 ... 6		∅ 5 ... 6
Prescribed tightening torque		Nm	0.8 ... 1.2	2 ... 2.5	3.0 ... 4.5	2.5 ... 3
Conductor cross-sections (min./max.), one or two conductors can be connected						
• Solid or stranded	mm ²	2 x (0.75 ... 2.5) ¹⁾ , 2 x 4	2 x (1 ... 2.5) ¹⁾ , 2 x (2.5 ... 10) ¹⁾	2 x (1 ... 25) ¹⁾ , 1 x (1 ... 35) ¹⁾	2 x (1 ... 35) ¹⁾ , 1 x (1 ... 50) ¹⁾	2 x (1 ... 10) ¹⁾ , max. 1 x 25
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾	2 x (1 ... 2.5) ¹⁾ , 2 x (2.5 ... 6) ¹⁾ , 1 x 10	2 x (1 ... 16) ¹⁾ , 1 x (1 ... 25) ¹⁾	2 x (1 ... 25) ¹⁾ , 1 x (1 ... 35) ¹⁾	1 x (1 ... 16), max. 6 + 16
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ , 2 x (18 ... 12) ¹⁾	2 x (16 ... 12) ¹⁾ , 2 x (14 ... 8) ¹⁾	2 x (18 ... 3) ¹⁾ , 1 x (18 ... 2) ¹⁾	2 x (18 ... 2) ¹⁾ , 1 x (18 ... 1) ¹⁾	2 x (14 ... 10)
Connection type		 Spring-loaded terminals				
Operating tools		mm	3.0 x 0.5			
Conductor cross-sections (min./max.), one or two conductors can be connected						
• Solid or stranded	mm ²	2 x (0.5 ... 4)	2 x (1 ... 10)	--		
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)	2 x (1 ... 6)	--		
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 2.5)	2 x (1 ... 6)	--		
• AWG cables, solid or stranded	AWG	2 x (20 ... 12)	2 x (18 ... 8)	--		
Max. outer diameter of the conductor insulation		mm	3.6	6.4	--	

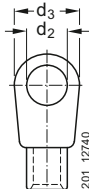
¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.

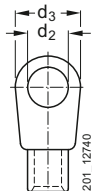
Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

Conductor cross-sections of main circuit (continued)				
Type		3RV2.4.	3RV2742	3RV1611-0BD10 ¹⁾ / 3RV1011
Size		S3		S00
Connection type		 Screw terminals with box terminal		 Screw terminals
Terminal screw		Hexagon socket, A/F 4		Pozidriv size 2
Prescribed tightening torque	Nm	4.5 ... 6	5	0.8 1.2
Conductor cross-sections (min./max.), one or two conductors can be connected				
• Solid or stranded	mm ²	2 x (2.5 ... 16) ²⁾ , 2 x (10 ... 50) ²⁾ , 1 x (10 ... 70) ²⁾		2 x (0.5 ... 1.5) ²⁾ 2 x (0.75 ... 2.5) ²⁾
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (2.5 ... 35) ²⁾ , 1 x (2.5 ... 50) ²⁾		2 x (0.5 ... 1.5) ²⁾ 2 x (0.75 ... 2.5) ²⁾
• AWG cables, solid or stranded	AWG	2 x (10 ... 1/0) ²⁾ , 1 x (10 ... 2/0) ²⁾	I_n = 10 A, 15 A: AWG 14 I_n = 20 A: AWG 12 I_n = 25 A, 30 A: AWG 10 I_n = 35 ... 50 A: AWG 8 I_n = 60 A: AWG 6 I_n = 70 A: AWG 4	2 x (18 ... 14)
Flat ribbon cables (number x width x thickness)		mm	2 x (6 x 9 x 0.8)	--
Removable box terminals³⁾				
• With copper bars ⁴⁾	mm	2 x 12 x 4		--
• With cable lugs ⁵⁾				
- Terminal screw		M6		
- Prescribed tightening torque	Nm	4.5 ... 6		
- Usable ring cable lugs	mm	d_2 = min. 6.3 d_3 = max. 19		
				



¹⁾ Technical specifications for 3RV16 voltage transformer circuit breakers, see page 7/23.

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

³⁾ Cable lug and busbar connection possible after removing the box terminals. This does not apply for 3RV2742.

⁴⁾ If bars larger than 12 mm x 10 mm are connected, a 3RT2946-4EA2 cover is needed to maintain the required phase clearance, see page 7/59.

⁵⁾ If conductors larger than 25 mm² are connected, the 3RT2946-4EA2 cover is needed to maintain the required phase clearance, see page 7/59.

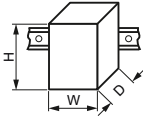
Conductor cross-sections for auxiliary and control circuits ¹⁾							
Type		3RV2.11	3RV1011/ 3RV1611- 0BD10 ²⁾	3RV2.21	3RV2.3	3RV2.4	3RV27, 3RV28
Size		S00		S0	S2	S3	S00, S0, S3
Connection type		 Screw terminals					
Terminal screw		M3, Pozidriv size 2					
Operating tools	mm	Ø 5 ... 6					
Prescribed tightening torque	Nm	0.8 ... 1.2					
Conductor cross-sections (min./max.), one or two conductors can be connected							
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ³⁾ , 2 x (0.75 ... 2.5) ³⁾					
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 1.5) ³⁾ , 2 x (0.75 ... 2.5) ³⁾					
• AWG cables, solid or stranded	AWG	2 x (18 ... 14) ³⁾ , 2 x (20 ... 16) ³⁾					
Connection type		 Spring-loaded terminals					
Operating tools	mm	3.0 x 0.5					
Conductor cross-sections (min./max.), one or two conductors can be connected							
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)					
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)					
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 1.5)					
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)					
Max. outer diameter of the conductor insulation	mm	3.6					

¹⁾ The conductor cross-sections also apply to the 3RV2901 auxiliary switch, 3RV2921 signaling switch and 3RV29.2 auxiliary release. They do not apply to the 3RV2921-5M wireless auxiliary and signaling switch.

²⁾ Technical specifications for 3RV16 voltage transformer circuit breakers, see page 7/23.

³⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.

Voltage transformer circuit breakers

General data				
Type				
Size				
Dimensions (W x H x D)				
	mm	3RV1611-1AG14	3RV1611-1CG14	3RV1611-1DG14
		S00	S00	S00
		45 x 90 x 70	45 x 90 x 70	45 x 90 x 70
Rated current I_n	A	1.4	2.5	3
Ambient temperature				
• During storage/transport	°C	-50 ... +80		
• During operation	°C	-20 ... +60 (up to +70 °C possible with current reduction)		
Rated operational voltage U_e	V	400		
Rated frequency	Hz	16.66 ... 60		
Rated insulation voltage U_i	V	690		
Short-circuit breaking capacity I_{cu} at 400 V AC	kA	50		
Set value of the thermal overload release	A	1.4	2.5	3
Response value of the instantaneous electronic release	A	6 ± 20%	10.5 ± 20%	20 ± 20%
Tripping time of the instantaneous electronic release	ms	Approx. 6 at 12 A	Approx. 6 at 20 A	Approx. 6 at 40 A
Internal resistance				
• In cold state	Ω	> 0.25 ± 6.5%		
• In heated state	Ω	> 0.30 ± 6.5%		
Shock resistance according to IEC 60068-2-27	g/ms	15		
Degree of protection IP on the front according to IEC 60529		IP20		
Touch protection on the front according to IEC 60529		Finger-safe for vertical touching from the front		
Endurance				
• Mechanical	Operating cycles	10 000		
• Electrical	Operating cycles	10 000		
Permissible mounting position		Any		

Conductor cross-sections of main circuit				
Type				3RV1611-1AG143RV1611-1CG143RV1611-1DG14
Connection type	 Screw terminals			
Terminal screw	Pozidriv size 2			
Conductor cross-sections (min./max.), one or two conductors can be connected				
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾ , 2 x (1 ... 4)		
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾		
Auxiliary switches for blocking the distance protection				
With defined lateral assignment for blocking distance protection				1 CO (for use as 1 NO or 1 NC)
Rated operational voltage U_e	Alternating voltage	V	125	
Rated operational current I_e /AC-14	at U_e = 125 V	A	0.1	
Rated operational voltage U_e	Direct voltage L/R 200 ms	V	60	
Rated operational current I_e /DC-13	at U_e = 60 V	A	0.3	
Minimum load capacity		V mA	5 1	
Short-circuit protection for auxiliary circuit				
Melting fuse	A	250 V type FF 2A (prospective short-circuit current < 1.1 kA)		

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

General data

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

Type		3RV2928-1H
Prescribed tightening torque	Nm	2.5 ... 3
Conductor cross-sections		
 • Front clamping point connected	- Solid	mm ² 1 ... 10
	- Finely stranded with end sleeve	mm ² 1 ... 16
	- Stranded	mm ² 2.5 ... 25
	- AWG cables, solid or stranded	AWG 14 ... 3
	- Terminal screw	M4
 • Rear clamping point connected	- Solid	mm ² 1 ... 10
	- Finely stranded with end sleeve	mm ² 1 ... 16
	- Stranded	mm ² 1.5 ... 25
	- AWG cables, solid or stranded	AWG 14 ... 6
	- Terminal screw	M4
 • Both clamping points connected	- Front clamping point:	
	Solid	mm ² 1 ... 10
	Finely stranded with end sleeve	mm ² 1 ... 10 ¹⁾ , 1 ... 6 ¹⁾
	Stranded	mm ² 2.5 ... 10
	AWG cables, solid or stranded	AWG 14 ... 6
	Terminal screw	M4
	- Rear clamping point:	
	Solid	mm ² 1 ... 10
	Finely stranded with end sleeve	mm ² 1 ... 10 ¹⁾ , 1 ... 16 ¹⁾
	Stranded	mm ² 2.5 ... 10
	AWG cables, solid or stranded	AWG 16 ... 3
	Terminal screw	M4

¹⁾ The following connections are possible when both clamping points are connected:

- front 1 to 10 mm² and rear 1 to 10 mm²,
- front 1 to 6 mm² and rear 1 to 16 mm².

Connection module (plug and adapter) for motor starter protectors/circuit breakers with screw terminals		
Type	3RT1900-4RE01 Motor feeder connector S0	3RT1926-4RD01 Adapter S0
General data		
Rated insulation voltage U_i (pollution degree 3)	V	690
Rated impulse withstand voltage U_{imp} (pollution degree 3)	kV	6
Rated operational voltage U_e	V	440
Rated frequency f For AC operation	Hz	50/60
Rated operational current I_e AC-3 and AC-3e at 400 V	A	25
Mechanical endurance	Operating cycles	10 million
Electrical endurance at I_e	Operating cycles	1 million
Protective separation according to IEC 60947-1 (pollution degree 3)	V	400
Permissible ambient temperature	°C	-25 ... +60
• During operation	°C	-50 ... +80
• During storage	°C	-50 ... +80
Conductor cross-sections		
Connection type	 Screw terminals	
• Solid	mm ²	1 x (0.5 ... 6)
• Finely stranded without/with end sleeve	mm ²	1 x (0.5 ... 6)
• Stranded	mm ²	1 x (0.5 ... 6)
• AWG cables, solid or stranded	AWG	1 x (20 ... 10)
• Tightening torque	Nm	0.6 ... 0.8
• Corresponding opening tool		Cross-tip screwdriver PZ2
IEC and UL rated data		
Rated operational voltage U_e	V	480
Rated insulation voltage U_i	V	600
Uninterrupted current, at 40 °C	A	25
Short-circuit protection ¹⁾		
• At 600 V	kA	5
• CLASS RK5 fuse	A	100
• Circuit breakers with overload protection according to UL 489	A	100
Combination motor controllers type E according to UL 508		
at 480 V Type		3RV202
A		22
kA		65
at 600 V Type		3RV202
A		22
kA		10

¹⁾ For more information about short-circuit values, e.g. for protection against high short-circuit currents, see the [UL reports](#).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

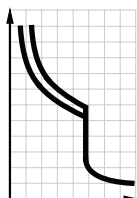


For motor protection **IE3/IE4 ready** **AC-3e**

Selection and ordering data

CLASS 10, without auxiliary switches

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



3RV2011-...A10,
3RV2011-...A10-0BA0



3RV2011-...A20,
3RV2011-...AA20-0BA0

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	Spring-loaded terminals
I_n			$I >$	I_{cu}	Article No.	Article No.
A	kW	A	A	kA	Price per PU	Price per PU
Size S00						
0.16	0.04	0.11 ... 0.16	2.1	100	3RV2011-0AA10	3RV2011-0AA20
0.2	0.06	0.14 ... 0.2	2.6	100	3RV2011-0BA10	3RV2011-0BA20
0.25	0.06	0.18 ... 0.25	3.3	100	3RV2011-0CA10	3RV2011-0CA20
0.32	0.09	0.22 ... 0.32	4.2	100	3RV2011-0DA10	3RV2011-0DA20
0.4	0.09	0.28 ... 0.4	5.2	100	3RV2011-0EA10	3RV2011-0EA20
0.5	0.12	0.35 ... 0.5	6.5	100	3RV2011-0FA10	3RV2011-0FA20
0.63	0.18	0.45 ... 0.63	8.2	100	3RV2011-0GA10	3RV2011-0GA20
0.8	0.18	0.55 ... 0.8	10	100	3RV2011-0HA10	3RV2011-0HA20
1	0.25	0.7 ... 1	13	100	3RV2011-0JA10	3RV2011-0JA20
1.25	0.37	0.9 ... 1.25	16	100	3RV2011-0KA10	3RV2011-0KA20
1.6	0.55	1.1 ... 1.6	21	100	3RV2011-1AA10	3RV2011-1AA20
2	0.75	1.4 ... 2	26	100	3RV2011-1BA10	3RV2011-1BA20
2.5	0.75	1.8 ... 2.5	33	100	3RV2011-1CA10	3RV2011-1CA20
3.2	1.1	2.2 ... 3.2	42	100	3RV2011-1DA10	3RV2011-1DA20
4	1.5	2.8 ... 4	52	100	3RV2011-1EA10	3RV2011-1EA20
5	1.5	3.5 ... 5	65	100	3RV2011-1FA10	3RV2011-1FA20
6.3	2.2	4.5 ... 6.3	82	100	3RV2011-1GA10	3RV2011-1GA20
8	3	5.5 ... 8	104	100	3RV2011-1HA10	3RV2011-1HA20
10	4	7 ... 10	130	100	3RV2011-1JA10	3RV2011-1JA20
12.5	5.5	9 ... 12.5	163	100	3RV2011-1KA10	3RV2011-1KA20
16	7.5	10 ... 16	208	55	3RV2011-4AA10	3RV2011-4AA20
For special operating conditions down to -50 °C²⁾						
1.25	0.37	0.9 ... 1.25	16	100	3RV2011-0KA10-0BA0	--
1.6	0.55	1.1 ... 1.6	21	100	3RV2011-1AA10-0BA0	3RV2011-1AA20-0BA0
2.5	0.75	1.8 ... 2.5	33	100	3RV2011-1CA10-0BA0	--
3.2	1.1	2.2 ... 3.2	42	100	3RV2011-1DA10-0BA0	--
4	1.5	2.8 ... 4	52	100	3RV2011-1EA10-0BA0	--
5	1.5	3.5 ... 5	65	100	3RV2011-1FA10-0BA0	--
6.3	2.2	4.5 ... 6.3	82	100	3RV2011-1GA10-0BA0	--
8	3	5.5 ... 8	104	100	3RV2011-1HA10-0BA0	--
10	4	7 ... 10	130	100	3RV2011-1JA10-0BA0	--
12.5	5.5	9 ... 12.5	163	100	3RV2011-1KA10-0BA0	--
16	7.5	10 ... 16	208	55	3RV2011-4AA10-0BA0	3RV2011-4AA20-0BA0

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

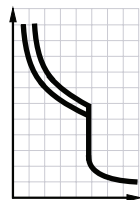
²⁾ The 3RV2011-...-0BA0 motor starter protectors have a mechanical endurance of 500 operating cycles.

³⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

CLASS 10, without auxiliary switches

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



3RV201-1-A10,
3RV201-4-A10-0BA0



3RV201-1-A20,
3RV201-1-A20-0BA0

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	Spring-loaded terminals
I_n				I_{cu}	Article No.	Article No.
A	kW	A	A	kA	Price per PU	Price per PU
Size S0						
0.16	0.04	0.11 ... 0.16	2.1	100	3RV201-0AA10	---
0.2	0.06	0.14 ... 0.2	2.6	100	3RV201-0BA10	---
0.25	0.06	0.18 ... 0.25	3.3	100	3RV201-0CA10	---
0.32	0.09	0.22 ... 0.32	4.2	100	3RV201-0DA10	---
0.4	0.09	0.28 ... 0.4	5.2	100	3RV201-0EA10	---
0.5	0.12	0.35 ... 0.5	6.5	100	3RV201-0FA10	---
0.63	0.18	0.45 ... 0.63	8.2	100	3RV201-0GA10	3RV201-0GA20
0.8	0.18	0.55 ... 0.8	10	100	3RV201-0HA10	3RV201-0HA20
1	0.25	0.7 ... 1	13	100	3RV201-0JA10	3RV201-0JA20
1.25	0.37	0.9 ... 1.25	16	100	3RV201-0KA10	3RV201-0KA20
1.6	0.55	1.1 ... 1.6	21	100	3RV201-1AA10	3RV201-1AA20
2	0.75	1.4 ... 2	26	100	3RV201-1BA10	3RV201-1BA20
2.5	0.75	1.8 ... 2.5	33	100	3RV201-1CA10	3RV201-1CA20
3.2	1.1	2.2 ... 3.2	42	100	3RV201-1DA10	3RV201-1DA20
4	1.5	2.8 ... 4	52	100	3RV201-1EA10	3RV201-1EA20
5	1.5	3.5 ... 5	65	100	3RV201-1FA10	3RV201-1FA20
6.3	2.2	4.5 ... 6.3	82	100	3RV201-1GA10	3RV201-1GA20
8	3	5.5 ... 8	104	100	3RV201-1HA10	3RV201-1HA20
10	4	7 ... 10	130	100	3RV201-1JA10	3RV201-1JA20
12.5	5.5	9 ... 12.5	163	100	3RV201-1KA10	3RV201-1KA20
16	7.5	10 ... 16	208	55	3RV201-4AA10	3RV201-4AA20
20	7.5	13 ... 20	260	55	3RV201-4BA10	3RV201-4BA20
22	11	16 ... 22	286	55	3RV201-4CA10	3RV201-4CA20
25	11	18 ... 25	325	55	3RV201-4DA10	3RV201-4DA20
28	15	23 ... 28	364	55	3RV201-4NA10	3RV201-4NA20
32 ²⁾	15	27 ... 32	400	55	3RV201-4EA10	3RV201-4EA20
36 ³⁾	18.5	30 ... 36	432	20	3RV201-4PA10	---
40 ³⁾	18.5	34 ... 40	480	20	3RV201-4FA10	---

For special operating conditions down to -50 °C⁴⁾⁵⁾

1	0.25	0.7 ... 1	13	100	---	3RV201-0JA20-0BA0
1.6	0.55	1.1 ... 1.6	21	100	---	3RV201-1AA20-0BA0
2	0.75	1.4 ... 2	26	100	---	3RV201-1BA20-0BA0
2.5	0.75	1.8 ... 2.5	33	100	---	3RV201-1CA20-0BA0
4	1.5	2.8 ... 4	52	100	---	3RV201-1EA20-0BA0
6.3	2.2	4.5 ... 6.3	82	100	---	3RV201-1GA20-0BA0
8	3	5.5 ... 8	104	100	---	3RV201-1HA20-0BA0
10	4	7 ... 10	130	100	---	3RV201-1JA20-0BA0
12.5	5.5	9 ... 12.5	163	100	---	3RV201-1KA20-0BA0
16	7.5	10 ... 16	208	55	---	3RV201-4AA20-0BA0
20	7.5	13 ... 20	260	55	3RV201-4BA10-0BA0	---
22	11	16 ... 22	286	55	3RV201-4CA10-0BA0	---
25	11	18 ... 25	325	55	3RV201-4DA10-0BA0	3RV201-4DA20-0BA0
28	15	23 ... 28	364	55	---	3RV201-4NA20-0BA0
32 ²⁾	15	27 ... 32	400	55	3RV201-4EA10-0BA0	3RV201-4EA20-0BA0
40 ³⁾	18.5	34 ... 40	480	20	3RV201-4FA10-0BA0	---

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

²⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers size S2.

³⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3 and IE4 motors we recommend using 3RV2 motor starter protectors/circuit breakers size 2.

⁴⁾ The 3RV201-.....-0BA0 motor starter protectors have a mechanical endurance of 500 operating cycles.

⁵⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

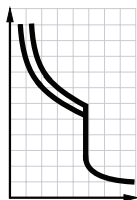
Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



For motor protection **IE3/IE4 ready** **AC-3e**

CLASS 10, without auxiliary switches



3RV2031-4.A10,
3RV2031-4.A10-0BA0



3RV2032-4.A10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}	Article No.	Price per PU		
A	kW	A	A	kA				
Size S2								
14	5.5	9.5 ... 14	208	65	3RV2031-4SA10	1	1 unit	41E
17	7.5	12 ... 17	260	65	3RV2031-4TA10	1	1 unit	41E
20	7.5	14 ... 20	260	65	3RV2031-4BA10	1	1 unit	41E
25	11	18 ... 25	325	65	3RV2031-4DA10	1	1 unit	41E
32	15	22 ... 32	416	65	3RV2031-4EA10	1	1 unit	41E
36	18.5	28 ... 36	520	65	3RV2031-4PA10	1	1 unit	41E
40	18.5	32 ... 40	585	65	3RV2031-4UA10	1	1 unit	41E
45	22	35 ... 45	650	65	3RV2031-4VA10	1	1 unit	41E
52	22	42 ... 52	741	65	3RV2031-4WA10	1	1 unit	41E
59	30	49 ... 59	845	65	3RV2031-4XA10	1	1 unit	41E
65	30	54 ... 65	845	65	3RV2031-4JA10	1	1 unit	41E
73	37	62 ... 73	949	65	3RV2031-4KA10	1	1 unit	41E
80 ²⁾	37	70 ... 80	1 040	65	3RV2031-4RA10	1	1 unit	41E
For special operating conditions down to -50 °C³⁾⁴⁾								
25	11	18 ... 25	325	50	3RV2031-4DA10-0BA0	1	1 unit	41E
32	15	22 ... 32	416	50	3RV2031-4EA10-0BA0	1	1 unit	41E
45	22	34 ... 45	650	50	3RV2031-4VA10-0BA0	1	1 unit	41E
65	30	54 ... 65	845	65	3RV2031-4JA10-0BA0	1	1 unit	41E
Size S2, with increased switching capacity								
14	5.5	9.5 ... 14	208	100	3RV2032-4SA10	1	1 unit	41E
17	7.5	12 ... 17	260	100	3RV2032-4TA10	1	1 unit	41E
20	7.5	14 ... 20	260	100	3RV2032-4BA10	1	1 unit	41E
25	11	18 ... 25	325	100	3RV2032-4DA10	1	1 unit	41E
32	15	22 ... 32	416	100	3RV2032-4EA10	1	1 unit	41E
36	18.5	28 ... 36	520	100	3RV2032-4PA10	1	1 unit	41E
40	18.5	32 ... 40	585	100	3RV2032-4UA10	1	1 unit	41E
45	22	35 ... 45	650	100	3RV2032-4VA10	1	1 unit	41E
52	22	42 ... 52	741	100	3RV2032-4WA10	1	1 unit	41E
59	30	49 ... 59	845	100	3RV2032-4XA10	1	1 unit	41E
65	30	54 ... 65	845	100	3RV2032-4JA10	1	1 unit	41E
73	37	62 ... 73	949	100	3RV2032-4KA10	1	1 unit	41E
80 ²⁾	37	70 ... 80	1 040	100	3RV2032-4RA10	1	1 unit	41E

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

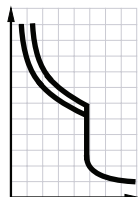
²⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers S3.

³⁾ The 3RV2031-.....-0BA0 motor starter protectors have a mechanical endurance of 250 operating cycles.

⁴⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

CLASS 10, without auxiliary switches



3RV204.-4.A10

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}	Article No.	Price per PU		
A	kW	A	A	kA				
Size S3								
40	18.5	28 ... 40	520	65	3RV2041-4FA10	1	1 unit	41E
50	22	36 ... 50	650	65	3RV2041-4HA10	1	1 unit	41E
63	30	45 ... 63	819	65	3RV2041-4JA10	1	1 unit	41E
75	37	57 ... 75	975	65	3RV2041-4KA10	1	1 unit	41E
84	45	65 ... 84	1 170	65	3RV2041-4RA10	1	1 unit	41E
93	45	75 ... 93	1 300	65	3RV2041-4YA10	1	1 unit	41E
100 ²⁾	45, 55	80 ... 100	1 300	65	3RV2041-4MA10	1	1 unit	41E
Size S3, with increased switching capacity								
40	18.5	28 ... 40	520	100	3RV2042-4FA10	1	1 unit	41E
50	22	36 ... 50	650	100	3RV2042-4HA10	1	1 unit	41E
63	30	45 ... 63	819	100	3RV2042-4JA10	1	1 unit	41E
75	37	57 ... 75	975	100	3RV2042-4KA10	1	1 unit	41E
84	45	65 ... 84	1 170	100	3RV2042-4RA10	1	1 unit	41E
93	45	75 ... 93	1 300	100	3RV2042-4YA10	1	1 unit	41E
100 ²⁾	45, 55	80 ... 100	1 300	100	3RV2042-4MA10	1	1 unit	41E

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

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

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

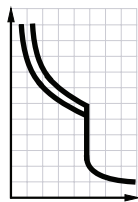
SIRIUS 3RV2 motor starter protectors/circuit breakers



For motor protection **IE3/IE4 ready** **AC-3e**

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

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



3RV2011-1A15



3RV2011-1EA25-0BA0



3RV2011-1FA15, 3RV2011-1EA25-0BA0



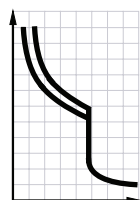
3RV2011-1GA25

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	Spring-loaded terminals
I_n				I_{cu}	Article No.	Article No.
A	kW	A	A	kA	Price per PU	Price per PU
Size S00						
0.16	0.04	0.11 ... 0.16	2.1	100	3RV2011-0AA15	3RV2011-0AA25
0.2	0.06	0.14 ... 0.2	2.6	100	3RV2011-0BA15	3RV2011-0BA25
0.25	0.06	0.18 ... 0.25	3.3	100	3RV2011-0CA15	3RV2011-0CA25
0.32	0.09	0.22 ... 0.32	4.2	100	3RV2011-0DA15	3RV2011-0DA25
0.4	0.09	0.28 ... 0.4	5.2	100	3RV2011-0EA15	3RV2011-0EA25
0.5	0.12	0.35 ... 0.5	6.5	100	3RV2011-0FA15	3RV2011-0FA25
0.63	0.18	0.45 ... 0.63	8.2	100	3RV2011-0GA15	3RV2011-0GA25
0.8	0.18	0.55 ... 0.8	10	100	3RV2011-0HA15	3RV2011-0HA25
1	0.25	0.7 ... 1	13	100	3RV2011-0JA15	3RV2011-0JA25
1.25	0.37	0.9 ... 1.25	16	100	3RV2011-0KA15	3RV2011-0KA25
1.6	0.55	1.1 ... 1.6	21	100	3RV2011-1AA15	3RV2011-1AA25
2	0.75	1.4 ... 2	26	100	3RV2011-1BA15	3RV2011-1BA25
2.5	0.75	1.8 ... 2.5	33	100	3RV2011-1CA15	3RV2011-1CA25
3.2	1.1	2.2 ... 3.2	42	100	3RV2011-1DA15	3RV2011-1DA25
4	1.5	2.8 ... 4	52	100	3RV2011-1EA15	3RV2011-1EA25
5	1.5	3.5 ... 5	65	100	3RV2011-1FA15	3RV2011-1FA25
6.3	2.2	4.5 ... 6.3	82	100	3RV2011-1GA15	3RV2011-1GA25
8	3	5.5 ... 8	104	100	3RV2011-1HA15	3RV2011-1HA25
10	4	7 ... 10	130	100	3RV2011-1JA15	3RV2011-1JA25
12.5	5.5	9 ... 12.5	163	100	3RV2011-1KA15	3RV2011-1KA25
16	7.5	10 ... 16	208	55	3RV2011-4AA15	3RV2011-4AA25
For special operating conditions down to -50 °C²⁾³⁾						
2	0.06	1.4 ... 2	2.6	100	3RV2011-1BA15-0BA0	--
2.5	0.75	1.8 ... 2.5	33	100	3RV2011-1CA15-0BA0	--
4	1.5	2.8 ... 4	52	100	3RV2011-1EA15-0BA0	3RV2011-1EA25-0BA0
5	1.5	3.5 ... 5	65	100	3RV2011-1FA15-0BA0	--
6.3	2.2	4.5 ... 6.3	82	100	3RV2011-1GA15-0BA0	--
8	3	5.5 ... 8	104	100	3RV2011-1HA15-0BA0	--
12.5	5.5	9 ... 12.5	163	100	3RV2011-1KA15-0BA0	--
16	7.5	10 ... 16	208	55	3RV2011-4AA15-0BA0	--
Size S0						
16	7.5	10 ... 16	208	55	3RV2011-4AA15	3RV2011-4AA25
20	7.5	13 ... 20	260	55	3RV2011-4BA15	3RV2011-4BA25
22	11	16 ... 22	286	55	3RV2011-4CA15	3RV2011-4CA25
25	11	18 ... 25	325	55	3RV2011-4DA15	3RV2011-4DA25
28	15	23 ... 28	364	55	3RV2011-4NA15	3RV2011-4NA25
32 ⁴⁾	15	27 ... 32	400	55	3RV2011-4EA15	3RV2011-4EA25
36 ⁵⁾	18.5	30 ... 36	432	20	3RV2011-4PA15	--
40 ⁵⁾	18.5	34 ... 40	480	20	3RV2011-4FA15	--
For special operating conditions down to -50 °C²⁾³⁾						
20	7.5	13 ... 20	260	55	3RV2011-4BA15-0BA0	--
32 ⁴⁾	15	27 ... 32	400	55	3RV2011-4EA15-0BA0	--

- ¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.
- ²⁾ The 3RV20.1-.....-0BA0 motor starter protectors in sizes S00 and S0 have a mechanical endurance of 500 operating cycles.
- ³⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).
- ⁴⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers size S2.

- ⁵⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3 and IE4 motors we recommend using 3RV2 motor starter protectors/circuit breakers size S2.

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

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

 3RV2031-4..15,
3RV2031-4.A15-0BA0


3RV2032-4.A15



3RV2041-4.A15

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}	Article No.	Price per PU		
A	kW	A	A	kA				
Size S2								
14	5.5	9.5 ... 14	208	65	3RV2031-4SA15	1	1 unit	41E
17	7.5	12 ... 17	260	65	3RV2031-4TA15	1	1 unit	41E
20	7.5	14 ... 20	260	65	3RV2031-4BA15	1	1 unit	41E
25	11	18 ... 25	325	65	3RV2031-4DA15	1	1 unit	41E
32	15	22 ... 32	416	65	3RV2031-4EA15	1	1 unit	41E
36	18.5	28 ... 36	520	65	3RV2031-4PA15	1	1 unit	41E
40	18.5	32 ... 40	585	65	3RV2031-4UA15	1	1 unit	41E
45	22	35 ... 45	650	65	3RV2031-4VA15	1	1 unit	41E
52	22	42 ... 52	741	65	3RV2031-4WA15	1	1 unit	41E
59	30	49 ... 59	845	65	3RV2031-4XA15	1	1 unit	41E
65	30	54 ... 65	845	65	3RV2031-4JA15	1	1 unit	41E
73	37	62 ... 73	949	65	3RV2031-4KA15	1	1 unit	41E
80 ²⁾	37	70 ... 80	1 040	65	3RV2031-4RA15	1	1 unit	41E
For special operating conditions down to -50 °C³⁾⁴⁾								
14	5.5	9.5 ... 14	208	65	3RV2031-4SA15-0BA0	1	1 unit	41E
20	7.5	14 ... 20	260	65	3RV2031-4BA15-0BA0	1	1 unit	41E
32	15	22 ... 32	416	65	3RV2031-4EA15-0BA0	1	1 unit	41E
45	22	35 ... 45	650	65	3RV2031-4VA15-0BA0	1	1 unit	41E
Size S2, with increased switching capacity								
14	5.5	9.5 ... 14	208	10	3RV2032-4SA15	1	1 unit	41E
17	7.5	12 ... 17	260	100	3RV2032-4TA15	1	1 unit	41E
20	7.5	14 ... 20	260	100	3RV2032-4BA15	1	1 unit	41E
25	11	18 ... 25	325	100	3RV2032-4DA15	1	1 unit	41E
32	15	22 ... 32	416	100	3RV2032-4EA15	1	1 unit	41E
36	18.5	28 ... 36	520	100	3RV2032-4PA15	1	1 unit	41E
40	18.5	32 ... 40	585	100	3RV2032-4UA15	1	1 unit	41E
45	22	35 ... 45	650	100	3RV2032-4VA15	1	1 unit	41E
52	22	42 ... 52	741	100	3RV2032-4WA15	1	1 unit	41E
59	30	49 ... 59	845	100	3RV2032-4XA15	1	1 unit	41E
65	30	54 ... 65	845	100	3RV2032-4JA15	1	1 unit	41E
73	37	62 ... 73	949	100	3RV2032-4KA15	1	1 unit	41E
80 ²⁾	37	70 ... 80	1 040	100	3RV2032-4RA15	1	1 unit	41E
Size S3								
40	18.5	28 ... 40	520	65	3RV2041-4FA15	1	1 unit	41E
50	22	36 ... 50	650	65	3RV2041-4HA15	1	1 unit	41E
63	30	45 ... 63	819	65	3RV2041-4JA15	1	1 unit	41E
75	37	57 ... 75	975	65	3RV2041-4KA15	1	1 unit	41E
84	45	65 ... 84	1 170	65	3RV2041-4RA15	1	1 unit	41E
93	45	75 ... 93	1 300	65	3RV2041-4YA15	1	1 unit	41E
100 ⁵⁾	45, 55	80 ... 100	1 300	65	3RV2041-4MA15	1	1 unit	41E

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

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

³⁾ The 3RV2031-.....-0BA0 motor starter protectors have a mechanical endurance of 250 operating cycles.

⁴⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

⁵⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 780 A. For higher starting currents we recommend using 3VA circuit breakers (see Catalog LV 10).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

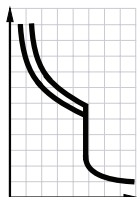
Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



For motor protection **IE3/IE4 ready** **AC-3e**

CLASS 20, without auxiliary switches



3RV2031-4.B10,
14 to 45 A;
3RV2031-4.B10-0BA0,
32 to 40 A



3RV2031-4.B10,
52 to 65 A



3RV2042-4.B10,
40 to 100 A

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n				I_{cu}	Article No.	Price per PU		
A	kW	A	A	kA				
Size S2								
14	5.5	9.5 ... 14	208	65	3RV2031-4SB10	1	1 unit	41E
17	7.5	12 ... 17	260	65	3RV2031-4TB10	1	1 unit	41E
20	7.5	14 ... 20	260	65	3RV2031-4BB10	1	1 unit	41E
25	11	18 ... 25	325	65	3RV2031-4DB10	1	1 unit	41E
32	15	22 ... 32	416	65	3RV2031-4EB10	1	1 unit	41E
36	18.5	28 ... 36	520	65	3RV2031-4PB10	1	1 unit	41E
40	18.5	32 ... 40	585	65	3RV2031-4UB10	1	1 unit	41E
45	22	35 ... 45	650	65	3RV2031-4VB10	1	1 unit	41E
52	22	42 ... 52	741	65	3RV2031-4WB10	1	1 unit	41E
59	30	49 ... 59	845	65	3RV2031-4XB10	1	1 unit	41E
65	30	54 ... 65	845	65	3RV2031-4JB10	1	1 unit	41E
For special operating conditions down to -50 °C²⁾³⁾								
32	15	22 ... 32	416	65	3RV2031-4EB10-0BA0	1	1 unit	41E
36	18.5	28 ... 36	520	65	3RV2031-4PB10-0BA0	1	1 unit	41E
40	18.5	32 ... 40	585	65	3RV2031-4UB10-0BA0	1	1 unit	41E
Size S3, with increased switching capacity								
40	18.5	28 ... 40	520	100	3RV2042-4FB10	1	1 unit	41E
50	22	36 ... 50	650	100	3RV2042-4HB10	1	1 unit	41E
63	30	45 ... 63	819	100	3RV2042-4JB10	1	1 unit	41E
75	37	57 ... 75	975	100	3RV2042-4KB10	1	1 unit	41E
84	45	65 ... 84	1 170	100	3RV2042-4RB10	1	1 unit	41E
93	45	75 ... 93	1 300	100	3RV2042-4YB10	1	1 unit	41E
100 ⁴⁾	45, 55	80 ... 100	1 300	100	3RV2042-4MB10	1	1 unit	41E

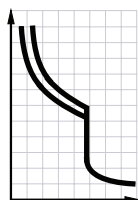
¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

²⁾ The 3RV2031-.....-0BA0 motor starter protectors have a mechanical endurance of 250 operating cycles.

³⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

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

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

CLASS 20, with transverse auxiliary switch (1 NO + 1 NC)3RV2031-4.B15,
14 to 45 A3RV2031-4.B15,
52 to 65 A

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

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

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



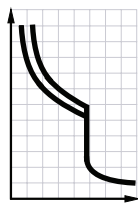
For motor protection with overload relay function

IE3/IE4 ready

AC-3e

Selection and ordering data

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



3RV2111-...A10



3RV2121-4.A10

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

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

²⁾ Accessories for mounting on the right and 3RV1915 3-phase busbars cannot be used.

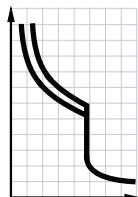
³⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers size S2.

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

AC-3e

IE3/IE4 ready

For motor protection with overload relay function

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

3RV2131-4.A10



3RV2142-4.A10

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

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

²⁾ Accessories for mounting on the right cannot be used.

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

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

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



For starter combinations

IE3/IE4 ready

AC-3e

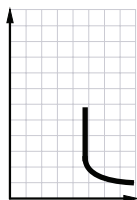
Selection and ordering data

Without auxiliary switches

PU (UNIT, SET, M) = 1

PS* = 1 unit

PG = 41E



3RV2311-..C10



3RV2311-..C20,
3RV2311-4AC20-0BA0

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

For special operating conditions down to -50 °C³⁾⁴⁾

16 7.5 Without 208 55

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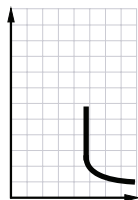
3RV2311-4AC20-0BA0

- ¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.
- ²⁾ For overload protection of the motors, appropriate overload relays must be used.
- ³⁾ The 3RV2311-.....-0BA0 motor starter protectors have a mechanical endurance of 500 operating cycles.
- ⁴⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Without auxiliary switches

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



3RV2321-..C10

3RV2321-..C20,
3RV2321-4AC20-0BA0

Rated current	Suitable for three-phase motors ¹⁾ with P	Thermal overload release ²⁾	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	Spring-loaded terminals
I_n				I_{cu}	Article No.	Article No.
A	kW	A	A	kA	Price per PU	Price per PU
Size S0						
1.6	0.55	Without	21	100	3RV2321-1AC10	3RV2321-1AC20
2	0.75	Without	26	100	3RV2321-1BC10	3RV2321-1BC20
2.5	0.75	Without	33	100	3RV2321-1CC10	3RV2321-1CC20
3.2	1.1	Without	42	100	3RV2321-1DC10	3RV2321-1DC20
4	1.5	Without	52	100	3RV2321-1EC10	3RV2321-1EC20
5	1.5	Without	65	100	3RV2321-1FC10	3RV2321-1FC20
6.3	2.2	Without	82	100	3RV2321-1GC10	3RV2321-1GC20
8	3	Without	104	100	3RV2321-1HC10	3RV2321-1HC20
10	4	Without	130	100	3RV2321-1JC10	3RV2321-1JC20
12.5	5.5	Without	163	100	3RV2321-1KC10	3RV2321-1KC20
16	7.5	Without	208	55	3RV2321-4AC10	3RV2321-4AC20
20	7.5	Without	260	55	3RV2321-4BC10	3RV2321-4BC20
22	11	Without	286	55	3RV2321-4CC10	3RV2321-4CC20
25	11	Without	325	55	3RV2321-4DC10	3RV2321-4DC20
28	15	Without	364	55	3RV2321-4NC10	3RV2321-4NC20
32 ³⁾	15	Without	400	55	3RV2321-4EC10	3RV2321-4EC20
36 ⁴⁾	18.5	Without	432	20	3RV2321-4PC10	--
40 ⁴⁾	18.5	Without	480	20	3RV2321-4FC10	--

For special operating conditions down to -50 °C⁵⁾⁶⁾

16	7.5	Without	208	55	--	3RV2321-4AC20-0BA0
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- ¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.
- ²⁾ For overload protection of the motors, appropriate overload relays must be used.
- ³⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers size S2.
- ⁴⁾ The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3 and IE4 motors we recommend using 3RV2 motor starter protectors/circuit breakers size S2.
- ⁵⁾ The 3RV2321-.....0BA0 motor starter protectors have a mechanical endurance of 500 operating cycles.
- ⁶⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



For starter combinations **IE3/IE4 ready** **AC-3e**

Without auxiliary switches



3RV2331-4.C10,
14 to 45 A

3RV2331-4.C10,
52 to 80 A

3RV2332-4.C10,
14 to 45 A

3RV2332-4.C10,
52 to 80 A

3RV234-.4.C10,
40 to 100 A

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

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

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

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

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

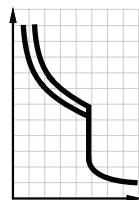
Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Selection and ordering data

CLASS 10, without auxiliary switches

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

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



3RV2411-...A10,
3RV2411-...A10-0BA0



3RV2411-...A20,
3RV2411-...A20-0DA0

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

Without phase asymmetry/failure detection for 1-, 2- and 3-phase loads¹⁾

0.4	0.28 ... 0.4	8.2	100	--	3RV2411-0EA20-0DA0
1.6	1.1 ... 1.6	33	100	--	3RV2411-1AA20-0DA0
2	1.4 ... 2	42	100	--	3RV2411-1BA20-0DA0
2.5	1.8 ... 2.5	52	100	--	3RV2411-1CA20-0DA0
3.2	2.2 ... 3.2	65	100	--	3RV2411-1DA20-0DA0
4	2.8 ... 4	82	100	--	3RV2411-1EA20-0DA0
5	3.5 ... 5	104	100	--	3RV2411-1FA20-0DA0
6.3	4.5 ... 6.3	130	100	--	3RV2411-1GA20-0DA0
8	5.5 ... 8	163	100	--	3RV2411-1HA20-0DA0
10	7 ... 10	208	100	--	3RV2411-1JA20-0DA0

For special operating conditions down to -50 °C²⁾³⁾

2.5	1.8 ... 2.5	52	100	3RV2411-1CA10-0BA0	--
6.3	4.5 ... 6.3	130	100	3RV2411-1GA10-0BA0	--
8	5.5 ... 8	163	100	3RV2411-1HA10-0BA0	--
10	7 ... 10	208	100	3RV2411-1JA10-0BA0	--
16	10 ... 16	286	55	3RV2411-4AA10-0BA0	--

¹⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

²⁾ The motor starter protectors have IEC approval, but not UL/CSA approval.

³⁾ The 3RV2411-...-0BA0 motor starter protectors have a mechanical endurance of 500 operating cycles.

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers



For transformer protection

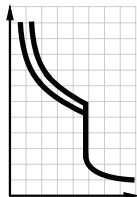
CLASS 10, without auxiliary switches

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

PU (UNIT, SET, M) = 1

PS* = 1 unit

PG = 41E



3RV2421-...A10,
3RV2421-4BA10-0BA0



3RV2421-4.A20,
3RV2421-4.A20-0DA0

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

Without phase asymmetry/failure detection for 1-, 2- and 3-phase loads¹⁾

16	10 ... 16	286	55	--	3RV2421-4AA20-0DA0
20	13 ... 20	325	55	--	3RV2421-4BA20-0DA0

For special operating conditions down to -50 °C²⁾³⁾

20	13 ... 20	325	55	3RV2421-4BA10-0BA0	--
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¹⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

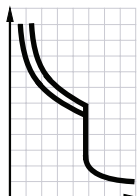
²⁾ The motor starter protectors have IEC approval, but not UL/CSA approval.

³⁾ The 3RV2431-.....0BA0 motor starter protectors have a mechanical endurance of 250 operating cycles.

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

CLASS 10, without auxiliary switches

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

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

 3RV2431-4.A10,
 14 to 40 A;
 3RV2431-4EA10-0BA0,
 32 A

 3RV2431-4.A10,
 45 to 65 A

Rated current	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals 		Spring-loaded terminals 	
I_n			I_{cu}	Article No.	Price per PU	Article No.	Price per PU
A	A	A	kA				
Size S2							
14	9.5 ... 14	328	65	3RV2431-4SA10		--	
17	12 ... 17	410	65	3RV2431-4TA10		--	
20	14 ... 20	410	65	3RV2431-4BA10		--	
25	18 ... 25	512	65	3RV2431-4DA10		--	
32	22 ... 32	656	65	3RV2431-4EA10		--	
36	28 ... 36	820	65	3RV2431-4PA10		--	
40	32 ... 40	820	65	3RV2431-4UA10		--	
45	35 ... 45	922	65	3RV2431-4VA10		--	
52	42 ... 52	1 025	65	3RV2431-4WA10		--	
59	49 ... 59	1 040	65	3RV2431-4XA10		--	
65	54 ... 65	1 040	65	3RV2431-4JA10		--	
For special operating conditions down to -50 °C¹⁾²⁾							
32	22 ... 32	656	65	3RV2431-4EA10-0BA0		--	

¹⁾ The motor starter protectors do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

²⁾ The 3RV2431-.....-0BA0 motor starter protectors have a mechanical endurance of 250 operating cycles.

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

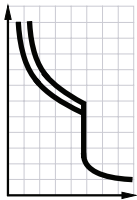
SIRIUS 3RV2 motor starter protectors/circuit breakers



For transformer protection

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

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



3RV2411-..A15



3RV2421-4.A15

Rated current	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
I_n		$I >$	I_{cu}	Article No.	Price per PU		
A	A	A	kA				
Size S00							
0.16	0.11 ... 0.16	3.3	100	3RV2411-0AA15	1	1 unit	41E
0.2	0.14 ... 0.2	4.2	100	3RV2411-0BA15	1	1 unit	41E
0.25	0.18 ... 0.25	5.2	100	3RV2411-0CA15	1	1 unit	41E
0.32	0.22 ... 0.32	6.5	100	3RV2411-0DA15	1	1 unit	41E
0.4	0.28 ... 0.4	8.2	100	3RV2411-0EA15	1	1 unit	41E
0.5	0.35 ... 0.5	10	100	3RV2411-0FA15	1	1 unit	41E
0.63	0.45 ... 0.63	13	100	3RV2411-0GA15	1	1 unit	41E
0.8	0.55 ... 0.8	16	100	3RV2411-0HA15	1	1 unit	41E
1	0.7 ... 1	21	100	3RV2411-0JA15	1	1 unit	41E
1.25	0.9 ... 1.25	26	100	3RV2411-0KA15	1	1 unit	41E
1.6	1.1 ... 1.6	33	100	3RV2411-1AA15	1	1 unit	41E
2	1.4 ... 2	42	100	3RV2411-1BA15	1	1 unit	41E
2.5	1.8 ... 2.5	52	100	3RV2411-1CA15	1	1 unit	41E
3.2	2.2 ... 3.2	65	100	3RV2411-1DA15	1	1 unit	41E
4	2.8 ... 4	82	100	3RV2411-1EA15	1	1 unit	41E
5	3.5 ... 5	104	100	3RV2411-1FA15	1	1 unit	41E
6.3	4.5 ... 6.3	130	100	3RV2411-1GA15	1	1 unit	41E
8	5.5 ... 8	163	100	3RV2411-1HA15	1	1 unit	41E
10	7 ... 10	208	100	3RV2411-1JA15	1	1 unit	41E
12.5	9 ... 12.5	260	100	3RV2411-1KA15	1	1 unit	41E
16	10 ... 16	286	55	3RV2411-4AA15	1	1 unit	41E
Size S0							
16	10 ... 16	286	55	3RV2421-4AA15	1	1 unit	41E
20	13 ... 20	325	55	3RV2421-4BA15	1	1 unit	41E
22	16 ... 22	364	55	3RV2421-4CA15	1	1 unit	41E
25	18 ... 25	400	55	3RV2421-4DA15	1	1 unit	41E

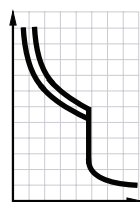
Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Selection and ordering data

CLASS 10, without auxiliary switches

The motor starter protectors are suitable for 1-, 2- and 3-phase loads and do not feature phase asymmetry and phase failure detection. They do not have UL/CSA approval and are not certified either according to the European Explosion Protection Directive ATEX or according to the International Explosion Protection Standard (IECEx).

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



3RV2021-...A10-0DA0



3RV2041-4.A10-0DA0



3RV2021-1EA20-0DA0

Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC		Screw terminals	Spring-loaded terminals
I_n				I_{cu}		Article No.	Article No.
A	kW	A	A	kA		Price per PU	Price per PU
Size S0							
0.16	0.04	0.11 ... 0.16	2.1	100	NEW	3RV2021-0AA10-0DA0	--
0.2	0.06	0.14 ... 0.2	2.6	100	NEW	3RV2021-0BA10-0DA0	--
0.25	0.06	0.18 ... 0.25	3.3	100	NEW	3RV2021-0CA10-0DA0	--
0.32	0.09	0.22 ... 0.32	4.2	100	NEW	3RV2021-0DA10-0DA0	--
0.4	0.9	0.28 ... 0.4	5.2	100	NEW	3RV2021-0EA10-0DA0	3RV2021-1EA20-0DA0
0.5	0.12	0.35 ... 0.5	6.5	100	NEW	3RV2021-0FA10-0DA0	--
0.63	0.18	0.45 ... 0.63	8.2	100	NEW	3RV2021-0GA10-0DA0	--
0.8	0.18	0.55 ... 0.8	10	100	NEW	3RV2021-0HA10-0DA0	--
1	0.25	0.7 ... 1	13	100	NEW	3RV2021-0JA10-0DA0	--
1.25	0.37	0.9 ... 1.25	16	100	NEW	3RV2021-0KA10-0DA0	--
1.6	0.55	1.1 ... 1.6	21	100	NEW	3RV2021-1AA10-0DA0	--
2	0.75	1.4 ... 2	26	100	NEW	3RV2021-1BA10-0DA0	--
2.5	0.75	1.8 ... 2.5	33	100	NEW	3RV2021-1CA10-0DA0	--
3.2	1.1	2.2 ... 3.2	42	100	NEW	3RV2021-1DA10-0DA0	--
4	1.5	2.8 ... 4	52	100		3RV2021-1EA10-0DA0	--
5	1.5	3.5 ... 5	65	100	NEW	3RV2021-1FA10-0DA0	--
6.3	2.2	4.5 ... 6.3	82	100		3RV2021-1GA10-0DA0	--
8	3	5.5 ... 8	104	100		3RV2021-1HA10-0DA0	--
10	4	7 ... 10	130	100		3RV2021-1JA10-0DA0	--
12.5	5.5	9 ... 12.5	163	100		3RV2021-1KA10-0DA0	--
16	7.5	10 ... 16	208	55		3RV2021-4AA10-0DA0	--
20	7.5	13 ... 20	260	55		3RV2021-4BA10-0DA0	--
22	11	16 ... 22	286	55	NEW	3RV2021-4CA10-0DA0	--
25	11	18 ... 25	325	55		3RV2021-4DA10-0DA0	--
28	15	23 ... 28	364	55	NEW	3RV2021-4NA10-0DA0	--
32 ²⁾	15	27 ... 32	400	55		3RV2021-4EA10-0DA0	--
Size S3							
40	18.5	28 ... 40	520	65		3RV2041-4FA10-0DA0	--
50	22	36 ... 50	650	65		3RV2041-4HA10-0DA0	--
63	30	45 ... 63	819	65		3RV2041-4JA10-0DA0	--
75	37	57 ... 75	975	65	NEW	3RV2041-4KA10-0DA0	--
84	45	65 ... 84	1 170	65		3RV2041-4RA10-0DA0	--
93	45	75 ... 93	1 300	65	NEW	3RV2041-4YA10-0DA0	--
100 ³⁾	45, 55	80 ... 100	1 300	65		3RV2041-4MA10-0DA0	--

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

²⁾ Suitable for use with IE3 and IE4 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors/circuit breakers size S2.

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

Auxiliary switches and other accessories can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

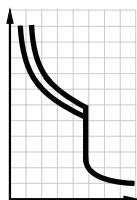


For system protection according to UL 489/CSA C22.2 No. 5

Selection and ordering data

Without auxiliary switches

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



3RV2711-..D10



3RV2721-4.D10



3RV2742-5.D10

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

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

²⁾ Values for 600 Y/347 V AC, see page 7/16.

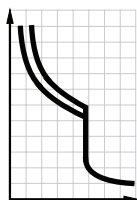
³⁾ Transverse auxiliary switches cannot be used for 3RV2742.

Lateral and transverse auxiliary switches can be ordered separately (see page 7/47 onwards).

Selection and ordering data

Without auxiliary switches

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



3RV2811-...D10



3RV2821-4.D10

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

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

²⁾ Values for 600 Y/347 V AC, see page 7/16.

Lateral and transverse auxiliary switches can be ordered separately (see page 7/47 onwards).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mountable accessories

Overview

Mounting location and function

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

These components are easily fitted to the motor starter protectors/circuit breakers without the use of any tools according to requirements.

Graphic overview, [see page 7/5](#).

Front side Notes: - A maximum of four auxiliary contacts with auxiliary switches can be mounted on each motor starter protector/circuit breaker. - Transverse auxiliary switches cannot be used for 3RV2742 circuit breaker (size S3).	Transverse auxiliary switches, solid-state compatible transverse auxiliary switches 1 NO + 1 NC or 2 NO or 1 CO	An auxiliary switch can be inserted transversely on the front. The overall width of the motor starter protectors/circuit breakers remains unchanged.
Left-hand side Notes: - A maximum of four auxiliary contacts with auxiliary switches can be mounted on each motor starter protector/circuit breaker. - The lateral auxiliary switch (two contacts) and the signaling switch can be mounted separately or together. - It is not possible to mount the lateral auxiliary switch (two contacts) together with the wireless auxiliary and signaling switch. - The signaling switch and the wireless auxiliary and signaling switch cannot be used for 3RV1011, 3RV27 and 3RV28 motor starter protectors/circuit breakers. - Only lateral auxiliary switches can be used for 3RV2742 (size S3).	Lateral auxiliary switch (two contacts) 1 NO + 1 NC or 2 NO or 2 NC Lateral auxiliary switch (four contacts) 2 NO + 2 NC Signaling switch Tripping 1 NO + 1 NC Short circuit 1 NO + 1 NC 3RV2 COM wireless auxiliary and signaling switch	One of the three lateral auxiliary switches can be mounted on the left side per motor starter protector/circuit breaker. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector/circuit breaker. Width: 9 mm One lateral auxiliary switch with four contacts can be mounted on the left side per motor starter protector/circuit breaker. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector/circuit breaker. Width: 18 mm One signaling switch can be mounted on the left side of each motor starter protector/circuit breaker. 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 actuator. In order to be able to switch on the motor starter protector/circuit breaker again after a short circuit, the signaling switch must be reset manually after the error cause has been eliminated. Width: 18 mm One wireless auxiliary and signaling switch can be mounted on the left side of each motor starter protector/circuit breaker. It acquires the switching states of the motor starter protector/circuit breaker in addition to the number of disconnections. In addition to the ON/OFF state, it differentiates whether tripping has been caused by an overload or a short circuit. The motor starter protector/circuit breaker states are transmitted wirelessly by means of the integrated communication function. The wireless auxiliary and signaling switch requires a 24 V DC supply voltage. Width: 18 mm
Right-hand side Notes: - One auxiliary release can be mounted per motor starter protector/circuit breaker. - Accessories cannot be mounted on the right-hand side of the 3RV21 motor starter protectors for motor protection with overload relay function.	Auxiliary releases Shunt release or Undervoltage release or Undervoltage release with leading auxiliary contacts 2 NO Own version for 3RV1011	For remote-controlled tripping of the motor starter protector/circuit breaker. The release coil should only be energized for short periods (circuit diagrams to be observed). Trips the motor starter protector/circuit breaker when the voltage is interrupted and prevents the motor from being restarted accidentally when the voltage is restored. Used for remote-controlled tripping of the motor starter protector/circuit breaker. Particularly suitable for EMERGENCY-OFF disconnection by way of corresponding EMERGENCY-OFF buttons according to IEC 60204-1. Function and use as for the undervoltage release without leading auxiliary contacts, but with the following additional function: the auxiliary contacts will open in switch position OFF to deenergize the coil of the undervoltage release, thus interrupting energy consumption. In the "tripped" position, these auxiliary contacts are not guaranteed to open. The leading contacts permit the motor starter protector/circuit breaker to reclose. Width of auxiliary releases: 18 mm
Top Notes: - The isolator module cannot be used for 3RV1011, 3RV27 and 3RV28 motor starter protectors/circuit breakers. - The isolator module for size S2 can be used only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A. - The isolator module cannot be used with the transverse auxiliary switch.	Isolator module	The isolator modules can be mounted to the upper connection side of the motor starter protectors/circuit breakers. The supply cable is connected to the motor starter protector/circuit breaker 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.

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mountable accessories

Selection and ordering data

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

Version		For motor starter protectors/ circuit breakers	Screw terminals 	Spring-loaded terminals 
Size		Article No.	Price per PU	Article No. Price per PU
Auxiliary switches¹⁾				
 3RV2901-1E  3RV2901-2E  3RV2901-1G  3RV2901-0H  3RV2901-1A  3RV2901-2A	Transverse auxiliary switches²⁾ For mounting on the front	S00 ... S3	3RV2901-1D 3RV2901-1E 3RV2901-1F	-- 3RV2901-2E 3RV2901-2F
	Solid-state-compatible transverse auxiliary switch²⁾ For mounting on the front, for operation in dusty atmosphere and in solid-state circuits with low operating currents	S00 ... S3	3RV2901-1G	--
	Covers for transverse auxiliary switches (PS* = 10 units)	S00 ... S3	3RV2901-0H	--
	Lateral auxiliary switches For mounting on the left	S00 ... S3	3RV2901-1A 3RV2901-1B 3RV2901-1C 3RV2901-1J	3RV2901-2A 3RV2901-2B 3RV2901-2C --
Signaling switches³⁾				
 3RV2921-1M  3RV2921-2M  3RV2921-5M	Signaling switches	S00 ⁴⁾ ... S3	3RV2921-1M	3RV2921-2M
	One signaling switch can be mounted on the left per motor starter protector. Separate tripped and short-circuit alarms, 1 NO + 1 NC each			
	3RV2 COM wireless auxiliary and signaling switch 	S00 ⁴⁾ ... S3	--	3RV2921-5M
	One wireless auxiliary and signaling switch can be mounted on the left per motor starter protector. The motor starter protector status is signaled by radio. 24 V DC supply voltage			
Isolator modules³⁾⁵⁾				
 3RV2928-1A  3RV2938-1A	Isolator modules	S00 ⁴⁾ , S0 S2	3RV2928-1A 3RV2938-1A	-- --
	Visible isolating distance for isolating individual motor starter protectors from the network, lockable in disconnected position			

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

²⁾ Not for 3RV2742 circuit breakers.

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

⁴⁾ Not for 3RV1011 motor starter protectors.

⁵⁾ The isolator module for size S2 can be used only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A. Similarly, it cannot be used with the transverse auxiliary switch

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mountable accessories

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



3RV2902-1AV0



3RV2902-2AV0



3RV2922-1CP0



3RV2902-2DB0

Rated control supply voltage U_s					For motor starter protectors/circuit breakers	Screw terminals		Spring-loaded terminals	
AC 50 Hz	AC 60 Hz	AC 50/60 Hz	AC/DC 50/60 Hz, DC	DC					
		100% ON period ¹⁾	5 s ON period ²⁾			Article No.	Price per PU	Article No.	Price per PU
V	V	V	V	V	Size				
Auxiliary releases³⁾									
Undervoltage releases									
--	--	--	--	24	S00 ... S3	3RV2902-1AB4		--	
24	24	--	--	--	S00 ... S3	3RV2902-1AB0		--	
110	120	--	--	--	S00 ... S3	3RV2902-1AF0		--	
--	208	--	--	--	S00 ... S3	3RV2902-1AM1		--	
230	240	--	--	--	S00 ... S3	3RV2902-1AP0		3RV2902-2AP0	
400	440	--	--	--	S00 ... S3	3RV2902-1AV0		3RV2902-2AV0	
415	480	--	--	--	S00 ... S3	3RV2902-1AV1		--	
500	600	--	--	--	S00 ... S3	3RV2902-1AS0		--	
Undervoltage releases with leading auxiliary contacts 2 NO									
24	24	--	--	--	S00 ⁴⁾ ... S3	3RV2922-1CB0		--	
230	240	--	--	--	S00 ⁴⁾ ... S3	3RV2922-1CP0		3RV2922-2CP0	
400	440	--	--	--	S00 ⁴⁾ ... S3	3RV2922-1CV0		3RV2922-2CV0	
415	480	--	--	--	S00 ⁴⁾ ... S3	3RV2922-1CV1		3RV2922-2CV1	
Shunt releases									
--	--	20 ... 24	20 ... 70	--	S00 ... S3	3RV2902-1DB0		3RV2902-2DB0	
--	--	90 ... 110	70 ... 190	--	S00 ... S3	3RV2902-1DF0		3RV2902-2DF0	
--	--	210 ... 240	190 ... 330	--	S00 ... S3	3RV2902-1DP0		3RV2902-2DP0	
--	--	350 ... 415	330 ... 500	--	S00 ... S3	3RV2902-1DV0		--	
--	--	500	500	--	S00 ... S3	3RV2902-1DS0		--	

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

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

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

⁴⁾ Not for 3RV1011 motor starter protectors.

Overview

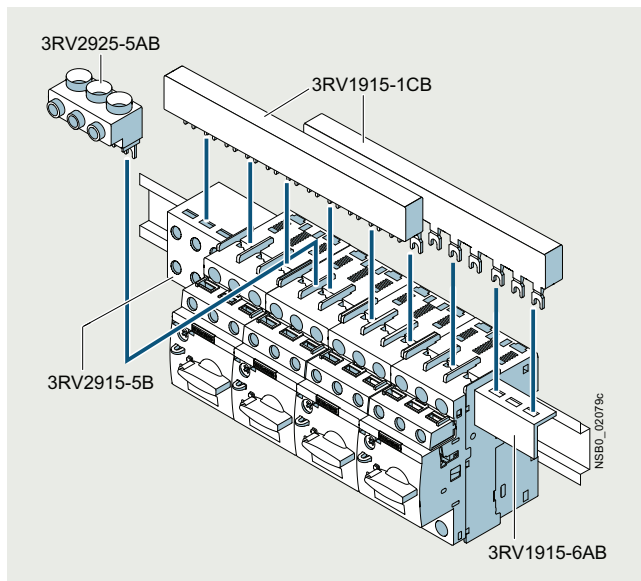
Insulated 3-phase busbar system

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

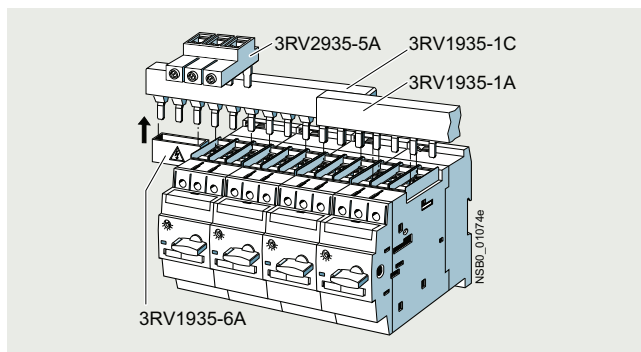
The 3RV1915 3-phase busbar systems are generally unsuitable for the 3RV21 motor starter protectors with sizes S00 and S0 for motor protection with overload relay function.

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

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



SIRIUS 3-phase busbar system size S00/S0



SIRIUS 3-phase busbar system size S2

The 3-phase busbar systems are finger-safe. They are designed for any short-circuit stress which can occur at the output side of connected motor starter protectors/circuit breakers.

The 3-phase busbar systems can also be used to construct "Starters (Type E)" according to UL/CSA and for 3RV27 and 3RV28 circuit breakers according to UL 489. However, special infeed terminals, 3RV2925-5EB for sizes S00/S0 and 3RV2935-5E for size S2, must be used for this purpose, see page 7/51.

8US busbar adapters for 60 mm systems

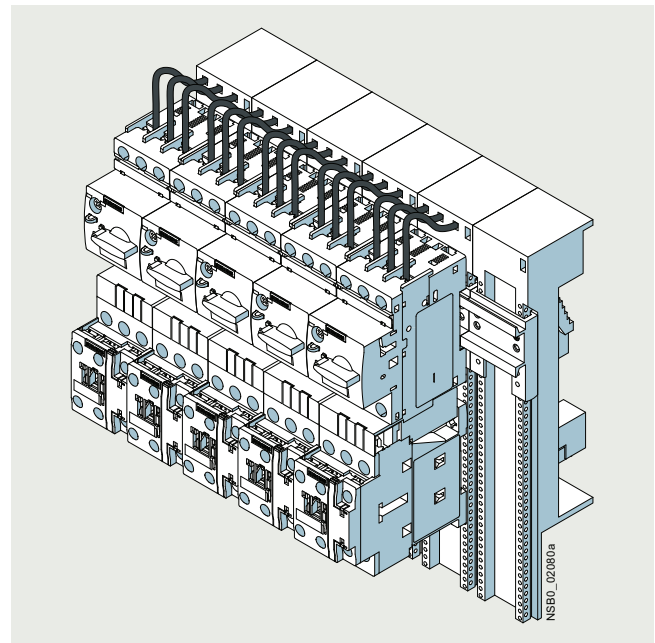
The motor starter protectors/circuit breakers are mounted directly with the aid of busbar adapters on busbar systems with 60 mm center-to-center clearance in order to save space and to reduce infeed times and costs.

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

The motor starter protectors/circuit breakers are snapped onto the adapter and connected on the line side, either with wires or with the plug-in connectors of the SIRIUS infeed system (see page 7/53). This prepared unit is then plugged directly onto the busbar system, and is thus connected both mechanically and electrically at the same time.

For the setup of UL feeders (Type E and F), Type E terminal blocks or phase barriers must be fitted to the infeed module on the motor starter protector (see page 7/57 onwards).

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



SIRIUS load feeders with busbar adapters snapped onto busbars

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Busbar accessories

Selection and ordering data

Modular spacing	Number of motor starter protectors that can be connected			Rated current I_n at 690 V	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	without lateral accessories	including lateral auxiliary switch	including auxiliary release							
mm				A	Size					
3-phase busbars										
For feeding several motor starter protectors with screw terminals, mounted side by side on DIN rails, insulated, with touch protection										
 3RV1915-1AB	45 ¹⁾²⁾	2	--	63	S00, S0 ³⁾	3RV1915-1AB		1	1 unit	41E
		3	--	63	S00, S0 ³⁾	3RV1915-1BB		1	1 unit	41E
		4	--	63	S00, S0 ³⁾	3RV1915-1CB		1	1 unit	41E
		5	--	63	S00, S0 ³⁾	3RV1915-1DB		1	1 unit	41E
 3RV1915-1BB	55 ¹⁾⁴⁾	--	2	63	S00, S0 ³⁾	3RV1915-2AB		1	1 unit	41E
		--	3	63	S00, S0 ³⁾	3RV1915-2BB		1	1 unit	41E
		--	4	63	S00, S0 ³⁾	3RV1915-2CB		1	1 unit	41E
		--	5	63	S00, S0 ³⁾	3RV1915-2DB		1	1 unit	41E
 3RV1915-1CB		2	--	108	S2	3RV1935-1A		1	1 unit	41E
		3	--	108	S2	3RV1935-1B		1	1 unit	41E
		4	--	108	S2	3RV1935-1C		1	1 unit	41E
		--	--	--	--	--		--	--	--
 3RV1915-1DB	63 ¹⁾⁵⁾	--	--	63	S00, S0 ³⁾	3RV1915-3AB		1	1 unit	41E
		--	--	63	S00, S0 ³⁾	3RV1915-3CB		1	1 unit	41E
	65 ⁶⁾	2	--	63	S00, S0 ³⁾	3RV1915-4AB				
	75 ⁵⁾	--	2	108	S2	3RV1935-3A		1	1 unit	41E
		--	3	108	S2	3RV1935-3B		1	1 unit	41E
		--	4	108	S2	3RV1935-3C		1	1 unit	41E

1) Not suitable for 3RV21 motor starter protectors of sizes S00 and S0 with overload relay function.

2) For 3RV2 motor starter protectors/circuit breakers without accessories mounted on the side.

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

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

5) For 3RV20, 3RV23 and 3RV24 motor starter protectors with mounted accessories (18 mm wide): Auxiliary switch with 2 NO + 2 NC or signaling switch (mounted on the left) or wireless auxiliary and signaling switch (mounted on the left) or with auxiliary release (mounted on the right).

6) Suitable for 3RV21 motor starter protectors of sizes S00 and S0 for motor protection with overload relay function.

Version	Modular spacing	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	mm	Size					

Connecting pieces for 3-phase busbars

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

Conductor cross-section			Tightening torque	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
solid or stranded	finely stranded with end sleeve	AWG cables, solid or stranded							
mm ²	mm ²	AWG	Nm	Size					

3-phase infeed terminals

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

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

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Busbar accessories

Conductor cross-section					Tightening torque	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG																														
solid or stranded	finely stranded with end sleeve	AWG cables, solid or stranded																																							
mm²	mm²	AWG	Nm	Size																																					
3-phase infeed terminals for constructing "starters (Type E)"																																									
 3RV2925-5EB  3RV2935-5E Connection from top <table><tr><td>2.5 ... 25</td><td>2.5 ... 16</td><td>10 ... 4</td><td>3 ... 4</td><td>S00, S0</td><td rowspan="5">3RV2925-5EB 3RV2935-5E</td><td rowspan="5"></td><td rowspan="5">1</td><td rowspan="5">1 unit</td><td rowspan="5">41E</td></tr><tr><td>2 x</td><td>2 x</td><td>2 x</td><td>4 ... 6</td><td>S2</td></tr><tr><td>(2.5 ... 50)¹⁾,</td><td>(2.5 ... 35)¹⁾,</td><td>(10 ... 1/0)¹⁾,</td><td></td><td></td></tr><tr><td>1 x</td><td>1 x</td><td>1 x</td><td></td><td></td></tr><tr><td>(2.5 ... 70)¹⁾</td><td>(2.5 ... 50)¹⁾</td><td>(10 ... 2/0)¹⁾</td><td></td><td></td></tr></table> ¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.							2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00, S0	3RV2925-5EB 3RV2935-5E		1	1 unit	41E	2 x	2 x	2 x	4 ... 6	S2	(2.5 ... 50) ¹⁾ ,	(2.5 ... 35) ¹⁾ ,	(10 ... 1/0) ¹⁾ ,			1 x	1 x	1 x			(2.5 ... 70) ¹⁾	(2.5 ... 50) ¹⁾	(10 ... 2/0) ¹⁾							
2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00, S0	3RV2925-5EB 3RV2935-5E		1	1 unit	41E																																
2 x	2 x	2 x	4 ... 6	S2																																					
(2.5 ... 50) ¹⁾ ,	(2.5 ... 35) ¹⁾ ,	(10 ... 1/0) ¹⁾ ,																																							
1 x	1 x	1 x																																							
(2.5 ... 70) ¹⁾	(2.5 ... 50) ¹⁾	(10 ... 2/0) ¹⁾																																							
Version					For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG																															
											Size																														
Covers for connection tags																																									
 3RV1935-6A cover mounted on 3RV1915-1CB busbar Touch protection for empty positions					S00, S0	3RV1915-6AB 3RV1935-6A		1	10 units	41E																															
					S2						1	5 units	41E																												

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Busbar accessories

Busbar adapters



8US1216-5AS80



8US1216-5AT80



8US1251-5DS10



8US1251-5DT11



8US1211-4TR00

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

Busbar adapters for 60 mm systems

For copper busbars according to DIN 46433

Width: 12 mm and 30 mm

Thickness: 5 mm and 10 mm

and for T and double-T special profiles

- For motor starter protectors/circuit breakers with plug-in connectors

S00 ¹⁾ , S0	32	--	200	45	690	8US1216-5AS80		1	1 unit	140
S00 ¹⁾ , S0	32	--	260	45	690	8US1216-5AT80		1	1 unit	140

- For motor starter protectors/circuit breakers with screw terminals²⁾

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

- For motor starter protectors/circuit breakers with spring-loaded terminals⁶⁾

S00 ¹⁾ , S0 ³⁾	25	12	200	45	690	8US1251-5DS11		1	1 unit	140
S00 ¹⁾ , S0 ³⁾	25	12	260	45	690	8US1251-5DT11		1	1 unit	140
S0	32	10	200	45	690	8US1251-5NS11		1	1 unit	140
S0 ³⁾	32	10	260	45	690	8US1251-5NT11		1	1 unit	140

¹⁾ Not for 3RV1011 motor starter protectors.

²⁾ For the setup of UL feeders (Type E and F), Type E terminal blocks or phase barriers (for sizes S00 to S2) must be fitted to the infeed module on the motor starter protector (see page 7/57 onwards).

³⁾ Also approved for 3RV27, 3RV28 circuit breakers according to UL.

⁴⁾ For the assembly of feeders for reversing starters comprising a motor starter protector and two contactors.

⁵⁾ Values according to UL/CSA:
 - Rated current: 80 A at 600 V AC
 - Short-circuit breaking capacity:
 480 V AC: 65 kA, up to $I_n = 30$ A,
 480 Y/277 V AC: 65 kA,
 600 Y/347 V AC: 20 kA.

⁶⁾ It is not possible to set up UL feeders (Type E and F).

For additional busbar adapters, see Catalog LV 10.

Accessories, see next page.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Busbar accessories

Type	Version	For 3RV20, 3RV23, 3RV24, 3RV27, 3RV28 motor starter protectors	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size							
bar adapters							
Plug-in connectors To make contact with the 3RV2 motor starter protectors/circuit breakers	• For spring-loaded terminals		Spring-loaded terminals 				
	- Single-unit packaging	S00 ¹⁾ S0 ²⁾	3RV2917-5AA00 1 1 unit 41E				
			3RV2927-5AA00 1 1 unit 41E				
	- Multi-unit packaging	S00 ¹⁾ S0 ²⁾	3RV2917-5A 1 10 units 41E				
			3RV2927-5A 1 10 units 41E				
	• For screw terminals		Screw terminals 				
	- Single-unit packaging	S00 ¹⁾³⁾ S0 ²⁾⁴⁾	3RV2917-5CA00 1 1 unit 41E				
			3RV1927-5AA00 1 1 unit 41E				
	- Multi-unit packaging	S00 ¹⁾³⁾ S0 ²⁾⁴⁾	3RV2917-5C 1 10 units 41E				
			3RV1927-5A 1 10 units 41E				
bar adapters							
Device holders For lateral attachment to busbar adapters	• Adapter length 200 mm, -- adapter width 45 mm		8US1250-5AS10 1 1 unit 140				
	• Adapter length 260 mm, adapter width 45 mm		8US1250-5AT10 1 1 unit 140				
bar adapters							
Side modules For widening busbar adapters	• Adapter length 200 mm, S00, S0 adapter width 9 mm		8US1998-2BJ10 1 10 units 140				
Vibration and shock kit For high vibration and shock loads	--	S2	8US1998-1DA10 1 1 unit 140				

1) $I > 14$ A, please note derating.2) $I > 16$ A, please note derating.

3) The plug-in connector cannot be used for the 3RV2711 and 3RV2811 circuit breakers with size S00.

4) The plug-in connector can be used for the 3RV2711, 3RV2811 (size S00) and 3RV2721, 3RV2821 (size S0) circuit breakers.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Rotary operating mechanisms

Overview

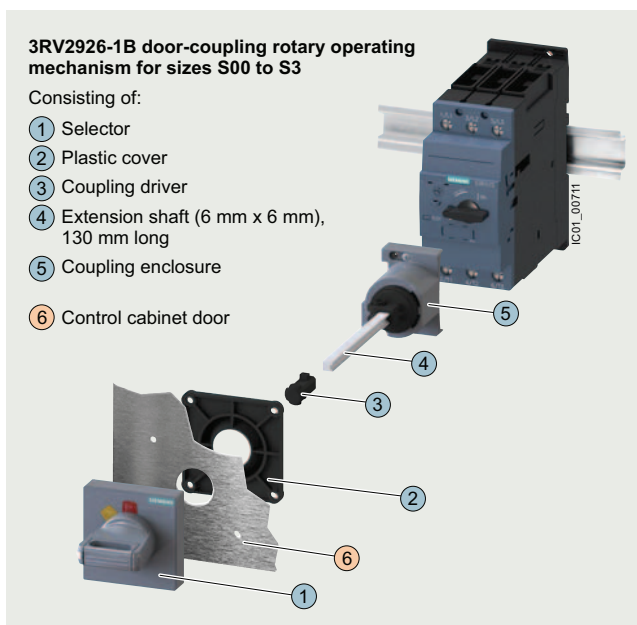
Door-coupling rotary operating mechanisms

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

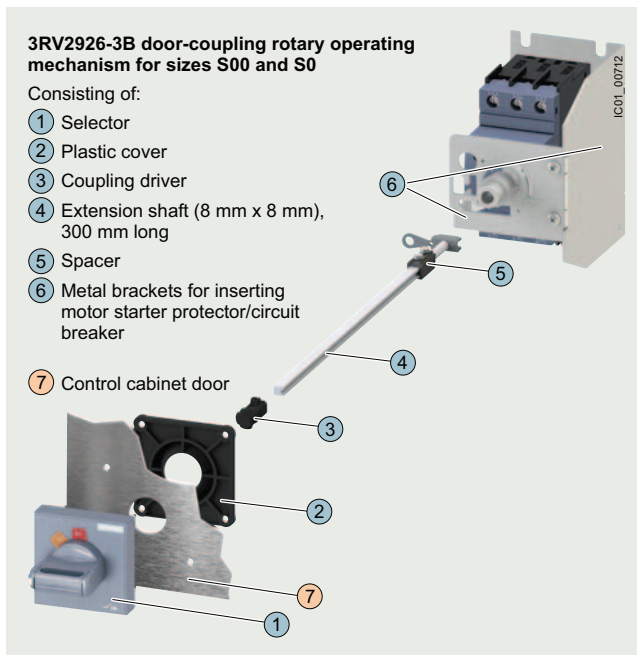
With the optional 3RV2926-.Q tolerance compensation, an offset can be compensated when installing the door-coupling rotary operating mechanism. For this purpose, the standard coupling head on the shaft is removed and replaced by the tolerance compensation.



Video: SIRIUS door-coupling rotary operating mechanism



SIRIUS 3RV2926-1B door-coupling rotary operating mechanism



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

Protection equipment

Motor starter protectors/circuit breakers
SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Rotary operating mechanisms

Door-coupling rotary operating mechanism for mounting one main switch in size S3 according to UL 508A and NFPA 79

For the installation of a door-coupling rotary operating mechanism for harsh conditions for a main switch (only possible in size S3) in a UL control cabinet (according to UL 508A and NFPA 79), the standard stipulates a second handle in the control cabinet. With the cabinet door open, it shall only be possible to switch on this supplementary handle by means of a "deliberate action".

The following figure shows the setup required for this purpose, with the 3RV2946-3C door-coupling rotary operating mechanism for harsh conditions, the 3RV2926-0P shaft support, and the 3VA9137-0GC05 supplementary handle (EMERGENCY-OFF version).

To switch on the supplementary handle, the handle must be pressed against a spring in the direction of the mounting plane. This is the required "deliberate action" so that the supplementary handle does not turn empty and the circuit breaker can be closed.

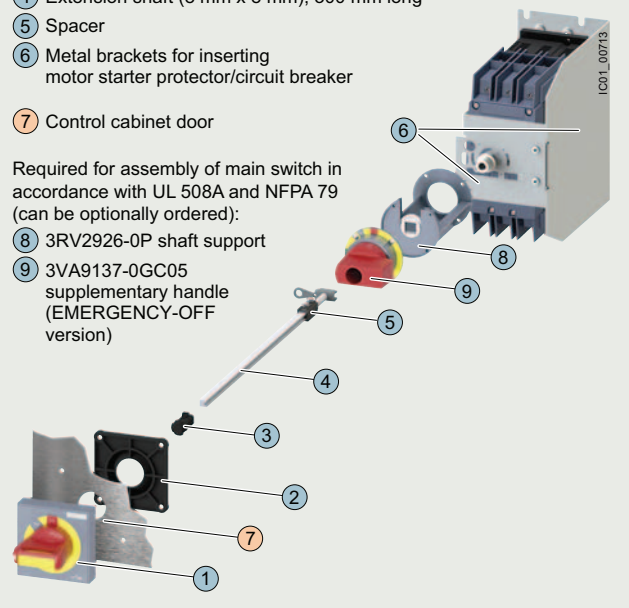
3RV2946-3C EMERGENCY-OFF door-coupling rotary operating mechanism for size S3

Consisting of:

- ① Selector
- ② Plastic cover
- ③ Coupling driver
- ④ Extension shaft (8 mm x 8 mm), 300 mm long
- ⑤ Spacer
- ⑥ Metal brackets for inserting motor starter protector/circuit breaker
- ⑦ Control cabinet door

Required for assembly of main switch in accordance with UL 508A and NFPA 79 (can be optionally ordered):

- ⑧ 3RV2926-0P shaft support
- ⑨ 3VA9137-0GC05 supplementary handle (EMERGENCY-OFF version)



SIRIUS 3RV2946-3C EMERGENCY-OFF door-coupling rotary operating mechanism for harsh operating conditions according to UL 508A and NFPA 79 with optional shaft support and supplementary handle (EMERGENCY-OFF version)

Selection and ordering data

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

Door-coupling rotary operating mechanisms

3RV2926-1B



3RV2926-1C



3RV2926-0Q

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

The door-coupling rotary operating mechanisms are dimensioned for degree of protection IP64. For UL/CSA applications, they are tested for enclosure types 1, 3R and 12. The door interlocking 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 three padlocks.

With the optional 3RV2926-0Q tolerance compensation, an offset can be compensated when installing the door-coupling rotary operating mechanism.

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

Optional accessories

Tolerance compensation	--	--	S00 ¹⁾ , S0, S2 ²⁾ , S3	3RV2926-0Q	1	1 unit	41E
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¹⁾ Not for 3RV1011 motor starter protectors.

²⁾ If the tolerance compensation for the motor starter protectors/circuit breakers 3RV2.3.-4S., -4T., -4B., -4D., -4E. (size S2) is used, the indicator can jump directly to the OFF position on tripping.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

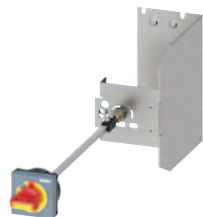
Accessories > Rotary operating mechanisms

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

Door-coupling rotary operating mechanisms for harsh conditions



3RV2946-3B



3RV2946-3C



3RV2926-2Q



8UD1900-2WB00



3RV2926-0P



3VA9137-0GC01



3VA9137-0GC05

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

The door-coupling rotary operating mechanisms are designed for degree of protection IP65. For UL/CSA applications, they are tested for enclosure types 1, 3R and 12. The door interlocking reliably prevents opening of the control cabinet door in the ON position of the motor starter protector/circuit breaker.

The OFF position can be locked with up to three padlocks.

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

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

With the optional 3RV2926-2Q tolerance compensation, an offset can be compensated when installing the door-coupling rotary operating mechanism for harsh conditions.

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

Optional accessories

Tolerance compensation	--	--	S00 ... S3	3RV2926-2Q	1	1 unit	41E
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Extension shaft Length 600 mm	--	8 x 8	S00 ... S3	8UD1900-2WB00	1	1 unit	12P
---	----	-------	------------	----------------------	---	--------	-----

Essential accessories for mounting one main switch in size S3 according to UL 508A and NFPA 79 (see also page 7/55)

Shaft support	--	--	S00 ... S3	3RV2926-0P	1	1 unit	41E
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Supplementary handles

• Standard	Gray	--	S3	3VA9137-0GC01	1	1 unit	12P
------------	------	----	----	----------------------	---	--------	-----

• EMERGENCY OFF	Red/yellow	--	S3	3VA9137-0GC05	1	1 unit	12P
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¹⁾ Not for 3RV1011 motor starter protectors.

Overview

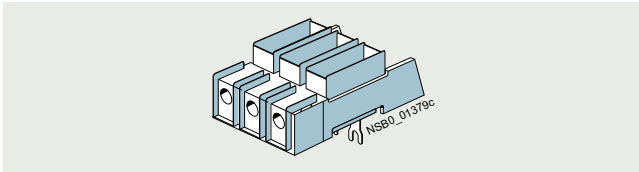
More information

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

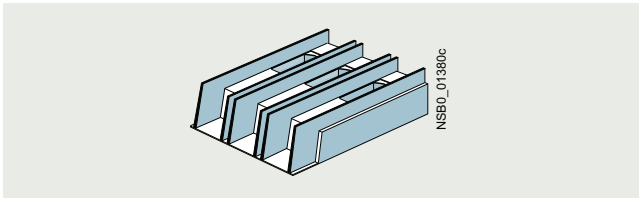
Accessories for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1

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

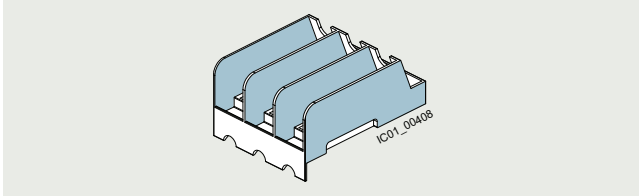
This requires increased clearance and creepage distances (1 inch and 2 inches respectively) at the input side of the device, which are achieved by mounting a terminal block or a phase barrier. No transverse auxiliary switches may be used when using 3RT2946-4GA07 terminal blocks for size S3.



SIRIUS 3RV2928-1H terminal block



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



SIRIUS 3RV2928-1K phase barrier

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

-- No accessories needed

Special 3-phase infeed terminals are required for constructing "Starters (Type E)" with an insulated 3-phase busbar system (see [Busbar accessories](#), page 7/51).

For the setup of "Starters (Type E)" with 8US busbar adapters, Type E terminal blocks or phase barriers (for sizes S00 to S2) must be fitted to the infeed module on the motor starter protector/circuit breaker, see [page 7/60](#).

The 3RV29 infeed system also enables the assembly of "Starters (Type E)", see [page 7/68 onwards](#).

Note:

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mounting accessories

Link modules

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

SIRIUS 3RC7 intelligent link modules, see page 7/64 and page 8/90 onwards.

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

-- Version not possible

- ¹⁾ The link modules cannot be used for 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.32-4K.1., 3RV2.32-4R.1., 3RV27, 3RV28 and 3RV1011 motor starter protectors/circuit breakers.
- ²⁾ To assemble the feeder between a motor starter protector and a contactor in size S3, the 3RA2942-1AA00 DIN-rail adapter must be used.
- ³⁾ A spacer for height compensation on AC contactors, size S0, is optionally available, see page 7/61.
- ⁴⁾ To assemble the feeder between a motor starter protector and a soft starter in size S2, the 3RA2932-1CA00 DIN-rail adapter must be used.
- ⁵⁾ It is only permissible to assemble the feeder between the motor starter protector and the soft starter in size S3 on a mounting plate.
- ⁶⁾ The hybrid link modules for motor starter protector to contactor cannot be used for 3RV2.21-4PA1., 3RV2.21-4FA1., 3RV27 and 3RV28 motor starter protectors/circuit breakers. They are suitable only for constructing direct-on-line starters.

Notes:

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

Protection equipment

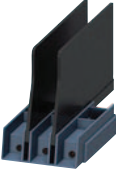
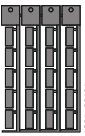
Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mounting accessories

Selection and ordering data

Accessories

Version	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size						
Covers						
 3RV2 (size S3) with 3RT1946-4EA1 (below)	Terminal cover For cable lug and busbar connection for maintaining the required voltage clearances and as touch protection if box terminal is removed (2 units can be mounted per motor starter protector/circuit breaker)	S3	3RT1946-4EA1	1	1 unit	41B
	Scale covers Sealable, for covering the current setting scale	3RV20, 3RV21, 3RV24: S00 ... S3	3RV2908-0P	100	10 units	41E
 3RT2936-4EA2	Covers for devices with screw terminals (box terminals) Additional touch protection to be fitted at the box terminals (two units required per device)		Screw terminals 			
	Main current level	S2	3RT2936-4EA2	1	1 unit	41B
		S3	3RT2946-4EA2	1	1 unit	41B
Terminal covers for box terminals on 3RV2742 and Type E terminal block 3RT2946-4GA07						
 3RV2948-1LA00	Additional touch protection to be fitted at the 3RV2742 box terminals (two units required per device) and at 3RT2946-4GA07 terminal block (Type E)					
	Main current level	S3	3RV2948-1LA00	1	1 unit	41E
Phase barriers for constructing limiter combinations of size S3¹⁾						
 3RV2948-1K	Infeed to the limiter is always on the side 2T1/4T2/6T3. Use 3RV2948-1K phase barriers on the infeed side.					
	Main current level	S3	3RV2948-1K	1	1 unit	41E
Fixing accessories						
 3RV2928-0B	Push-in lugs For screw fixing of the motor starter protector/circuit breaker onto mounting plates	S00, S0	3RV2928-0B	100	10 units	41E
	Two units are required for each motor starter protector.					
Tools for opening spring-loaded terminals						
 3RA2908-1A	Screwdriver For all SIRIUS devices with spring-loaded terminals Length approx. 200 mm, 3.0 mm x 0.5 mm, titanium gray/black, partially insulated	S00 ... S3	Spring-loaded terminals 			
			3RA2908-1A	1	1 unit	41B
Blank labels						
 3RT2900-1SB20	Unit labeling plates¹⁾ For SIRIUS devices, 20 mm x 7 mm, titanium gray	S00 ... S3	3RT2900-1SB20	100	340 units	41B
	Adhesive labels For SIRIUS devices, 19 mm x 6 mm, titanium gray	S00 ... S3	3RT2900-1SB60	100	3060 units	41B

¹⁾ PC labeling system for individual inscription of unit labeling plates available from: murrplastik Systemtechnik GmbH (see page 16/18).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

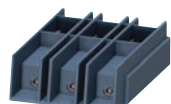
Accessories > Mounting accessories

Version	For motor starter protectors/circuit breakers	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	Size					

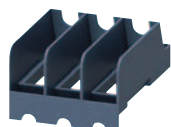
Terminal blocks and phase barriers for "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1



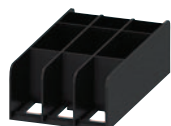
3RV2928-1H



3RT2946-4GA07



3RV2928-1K



3RV2938-1K

Note:

UL 508/UL 60947-4-1 approval demands 1-inch clearance and 2-inch creepage distances for "Self-Protected Combination Motor Controllers (Type E)" on the input side. The following terminal blocks or phase barriers must be used for the 3RV20 motor starter protectors with screw terminals. This also applies to construction with the 8US busbar adapter. 3RV20 motor starter protectors with spring-loaded terminals must be assembled with the 3RV29 infeed system for approval as "Self-Protected Combination Motor Controllers (Type E)" according to UL 508/UL 60947-4-1. The 3RV1011 motor starter protectors do not have UL approval as Type E starters.

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

For construction with 3-phase busbars, see [Busbar accessories, page 7/49 onwards](#).

Terminal blocks Type E For increased clearance and creepage distances (1 and 2 inch)	S00 ¹⁾ , S0 S3 ²⁾	3RV2928-1H 3RT2946-4GA07	1 1	1 unit 1 unit	41E 41B
Phase barriers For increased clearance and creepage distances (1 and 2 inch)	S00 ¹⁾ , S0 S2	3RV2928-1K 3RV2938-1K	1 1	1 unit 1 unit	41E 41E

Auxiliary conductor terminals, 3-pole



3RT2946-4F

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

S3

3RT2946-4F 1 1 unit 41B

¹⁾ Not for 3RV1011 motor starter protectors.

²⁾ Cannot be used on 3RV2.4. motor starter protectors in combination with transverse auxiliary switches.

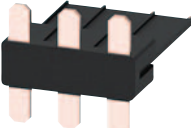
Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mounting accessories

Link modules

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

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

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

Note:

Link modules can be used in

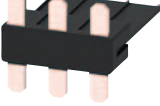
- Size S00: up to max. 16 A
- Size S0: up to max. 32 A
- Size S2: up to max. 65 A

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mounting accessories

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

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

²⁾ To assemble the feeder between a motor starter protector and a soft starter in size S2, the 3RA2932-1CA00 DIN-rail adapter must be used.

³⁾ It is only permissible to assemble the feeder between the motor starter protector and the soft starter in size S3 on a mounting plate.

Note:

Link modules can be used in

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Mounting accessories

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

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

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

Note:

Link modules can be used in

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

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > SIRIUS 3RC7 intelligent link modules **NEW**

Overview

The 3RC7 intelligent link modules connect the 3RV2 motor starter protectors/circuit breakers and the 3RT2 contactors to form intelligent load feeders.

They are available for direct-on-line and reversing starters in sizes S00 and S0 with spring-loaded terminals.

Depending on the application, it is possible to choose between a Standard and a High Feature version of the 3RC7 intelligent link module.

The 3RC7 intelligent link modules are connected to the SIMATIC ET 200SP via the flexible station extension (ET connection) using the BA-Send BusAdapter.

Thanks to the 3RC7 intelligent link module, the SIRIUS load feeder becomes part of the SIMATIC automation system.

For more information, [see page 8/90 onwards](#).

Selection and ordering data

More information

Homepage, [see www.siemens.com/sirius-ilm](http://www.siemens.com/sirius-ilm)

SiePortal, [see www.siemens.com/product?3RC7](http://www.siemens.com/product?3RC7)

Equipment Manual, [see https://support.industry.siemens.com/cs/ww/en/view/109823514](https://support.industry.siemens.com/cs/ww/en/view/109823514)

Further components in the ET 200SP I/O system:

- [Catalog ST 70](#)
- Homepage, [see www.siemens.com/et200sp](http://www.siemens.com/et200sp)

Size	Adjustable current response value of the inverse-time delayed overload release	Spring-loaded terminals (push-in)	PU (UNIT, SET, M)	PS*	PG
A		Article No.	Price per PU		

3RC7 intelligent link modules

Direct-on-line starters

Standard

S00	0.4 ... 4	3RC7140-1EE00	1	1 unit	42L
	1.2 ... 12	3RC7140-1KE00	1	1 unit	42L
S0	3.5 ... 32	3RC7140-4EE01	1	1 unit	42L

High Feature

S00	0.4 ... 4	3RC7140-1EE10	1	1 unit	42L
	1.2 ... 12	3RC7140-1KE10	1	1 unit	42L
S0	3.5 ... 32	3RC7140-4EE11	1	1 unit	42L

Reversing starters

Standard

S00	0.4 ... 4	3RC7141-1EE00	1	1 unit	42L
	1.2 ... 12	3RC7141-1KE00	1	1 unit	42L
S0	3.5 ... 32	3RC7141-4EE01	1	1 unit	42L

High Feature

S00	0.4 ... 4	3RC7141-1EE10	1	1 unit	42L
	1.2 ... 12	3RC7141-1KE10	1	1 unit	42L
S0	3.5 ... 32	3RC7141-4EE11	1	1 unit	42L



3RC7140-1EE00



3RC7140-4EE11



3RC7141-1EE00



3RC7141-4EE11

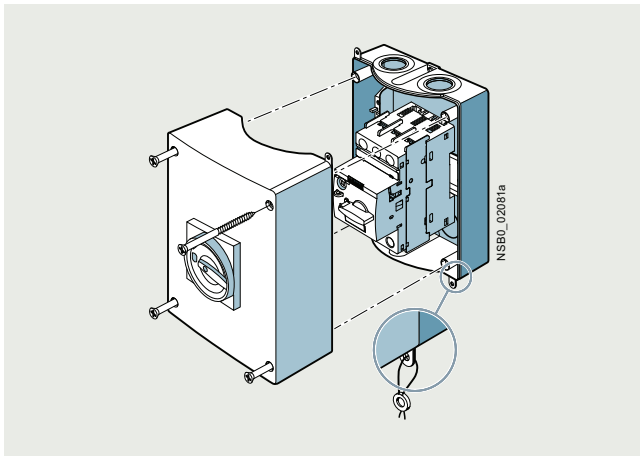
Accessories, [see page 8/96 onwards](#).

Overview**Enclosures**

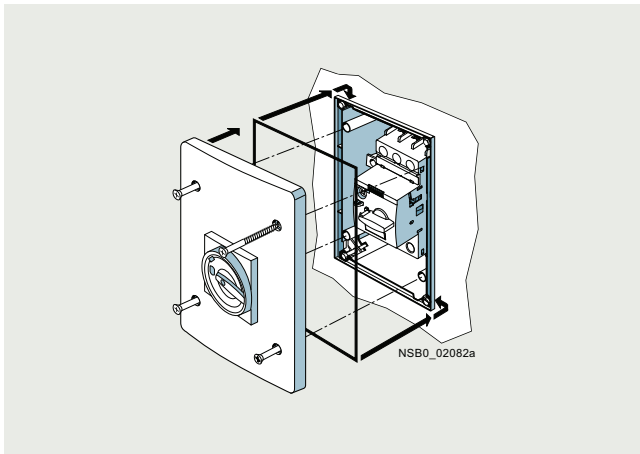
For the stand-alone installation of 3RV20 to 3RV24 motor starter protectors size S00 ($I_{n\max} = 16\text{ A}$), S0 ($I_{n\max} = 32\text{ A}$), S2 ($I_{n\max} = 65\text{ A}$), and for 3RV1011 motor starter protectors, molded-plastic and cast aluminum enclosures for surface mounting and molded-plastic 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 on the front. The cast aluminum enclosures for surface mounting achieve degree of protection IP65.



Enclosures for surface mounting



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

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

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

With size S00 to S2 3RV2 motor starter protectors/circuit breakers, the molded-plastic enclosures are equipped with a rotary operating mechanism.

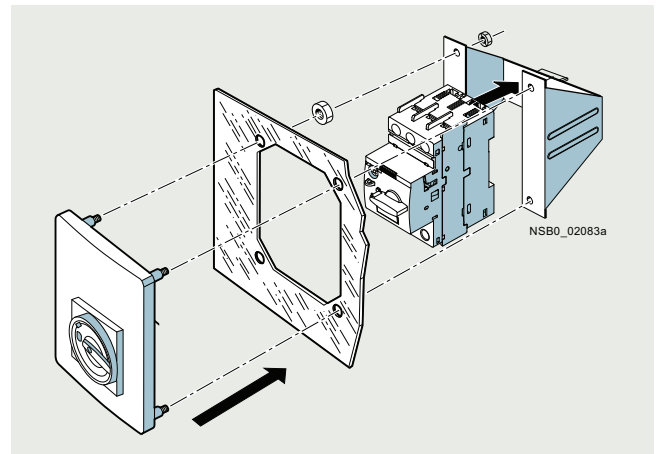
The enclosures can be supplied with either a black rotary operating mechanism or with an EMERGENCY-OFF rotary operating mechanism with a red/yellow knob.

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

Front plates

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

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



Front plate (including holder) for sizes S00 and S0

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Enclosures and front plates

Selection and ordering data

Version	Degree of protection	Integrated terminals	Width	For 3RV20 to 3RV24 motor starter protectors	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG				
			mm	Size									
Molded-plastic enclosures for surface mounting ¹⁾													
	With rotary operating mechanism, lockable in 0 position	IP55	N and PE	54 (for motor starter protector + lateral auxiliary switch)	S00 ³⁾ , S0	3RV1923-1CA00	1	1 unit	41E				
				72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0					3RV1923-1DA00	1	1 unit	41E
				82 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S2								
	With EMERGENCY-OFF rotary operating mechanism, lockable in 0 position	IP55	N and PE	54 (for motor starter protector + lateral auxiliary switch)	S00 ³⁾ , S0	3RV1923-1FA00	1	1 unit	41E				
				72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0					3RV1923-1GA00	1	1 unit	41E
				82 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S2								
Cast aluminum enclosures for surface mounting ¹⁾													
	With rotary operating mechanism, lockable in 0 position	IP65	PE ⁴⁾	72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0	3RV1923-1DA01	1	1 unit	41E				
	With EMERGENCY-OFF rotary operating mechanism, lockable in 0 position	IP65	PE ⁴⁾	72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0					3RV1923-1GA01	1	1 unit	41E
Molded-plastic enclosures for flush mounting ⁵⁾													
	With rotary operating mechanism, lockable in 0 position	IP55 (front side)	N and PE	72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0	3RV1923-2DA00	1	1 unit	41E				
	With EMERGENCY-OFF rotary operating mechanism, lockable in 0 position	IP55 (front side)	N and PE	72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ³⁾ , S0					3RV1923-2GA00	1	1 unit	41E
	With actuator diaphragm	IP55 (front side)	N and PE	72 (for motor starter protector + lateral auxiliary switch ²⁾ + auxiliary release)	S00 ⁶⁾	3RV1913-2DA00	1	1 unit	41E				
Molded-plastic enclosures for surface mounting													
	With actuator diaphragm	IP55	N and PE	85	S00 ⁶⁾	3RV1913-1CA00	1	1 unit	41E				
				105	S00 ⁶⁾					3RV1913-1DA00	1	1 unit	41E
3RV1913-1CA00													

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

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

³⁾ Not for 3RV1011 motor starter protectors.

⁴⁾ If required, an additional N terminal can be mounted (e.g. 8WA1011-1BG11).

⁵⁾ Not suitable for 3RV2.11-...2. and 3RV2.21-...2. devices with spring-loaded terminals.

⁶⁾ Only for 3RV1011 motor starter protectors.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

Accessories > Enclosures and front plates

Version	Degree of protection	For 3RV20 to 3RV24 motor starter protectors	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		Size					
Front plates¹⁾							
 3RV1923-4B + 3RV1923-4G	Molded-plastic front plate with rotary operating mechanism, lockable in 0 position	IP55 (front side)	S00 ²⁾ up to S3	3RV1923-4B	1	1 unit	41E
	For actuation of 3RV2 motor starter protectors/circuit breakers in any enclosure						
	Molded-plastic front plate with EMERGENCY-OFF rotary operating mechanism, red/yellow, lockable in 0 position	IP55 (front side)	S00 ²⁾ up to S3	3RV1923-4E	1	1 unit	41E
	EMERGENCY-OFF actuation of 3RV2 motor starter protectors/circuit breakers in any enclosure						
	Holder for front plate	--	S00 ²⁾ , S0	3RV1923-4G	1	1 unit	41E
	Holder is mounted on front plate, motor starter protector with and without accessories is snapped in.						

¹⁾ It is not possible to use a signaling switch or a wireless auxiliary and signaling switch or 4-pole auxiliary switch with front plates.

²⁾ Not for 3RV1011 motor starter protectors.

Version	Rated control supply voltage U_s	For 3RV20 to 3RV24 motor starter protectors	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		Size					
Indicator lights							
 3RV1903-5B	For all enclosures and front plates	110 ... 120	S00 to S3	3RV1903-5B	1	1 unit	41E
	• With LED lamp for versions 110 ... 120 V,	220 ... 240		3RV1903-5C	1	1 unit	41E
	with glow lamp for versions 220 ... 500 V	380 ... 415		3RV1903-5E	1	1 unit	41E
	• With colored lenses red, green, yellow-orange and clear	480 ... 500		3RV1903-5G	1	1 unit	41E

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

3RV29 infeed system

Overview

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

The system is based on a basic module complete with a lateral incoming unit (3-phase busbar with infeed). This infeed with spring-loaded terminals is mounted on the right or left, depending on the version, and can be supplied with a maximum conductor cross-section of 25 mm² (with end sleeve). A basic module has two sockets onto each of which a motor starter protector can be snapped.

Expansion modules (3-phase busbars for system expansion) are available for extending the system. The individual modules are connected through an expansion plug.

The electrical connection between the 3-phase busbars and the motor starter protectors is implemented through plug-in connectors. The complete system can be mounted on a TH 35 DIN rail according to IEC 60715, and can be expanded as required up to a maximum current-carrying capacity of 63 A.

The system is mounted extremely quickly and easily thanks to the simple plug-in terminals. Thanks to the lateral infeed, the system also saves space in the control cabinet.

The additional height required for the infeed unit is only 30 mm. The alternative infeed possibilities on each side offer a high degree of flexibility for configuring the control cabinet: Infeed on left-hand or right-hand side as well as infeed on one side and outfeed on the other side to supply further loads are all possible. As well as the integration of SIRIUS motor starter protectors, a terminal block with spring-loaded terminals in conjunction with a DIN rail also supports the integration of 1-/2-/3-phase components such as 5SY miniature circuit breakers or SIRIUS relay components.

The 3RV29 infeed system is approved in accordance with IEC up to 500 V. It is also UL-approved and authorized for "Self-Protected Combination Motor Controllers" starters (Type E), for starters (Type F) (starters (Type E) + contactors) and for circuit breakers according to UL 489 (3RV27/3RV28).

Assembly kits for constructing the infeed system with spring-loaded terminals

The following versions can be ordered:

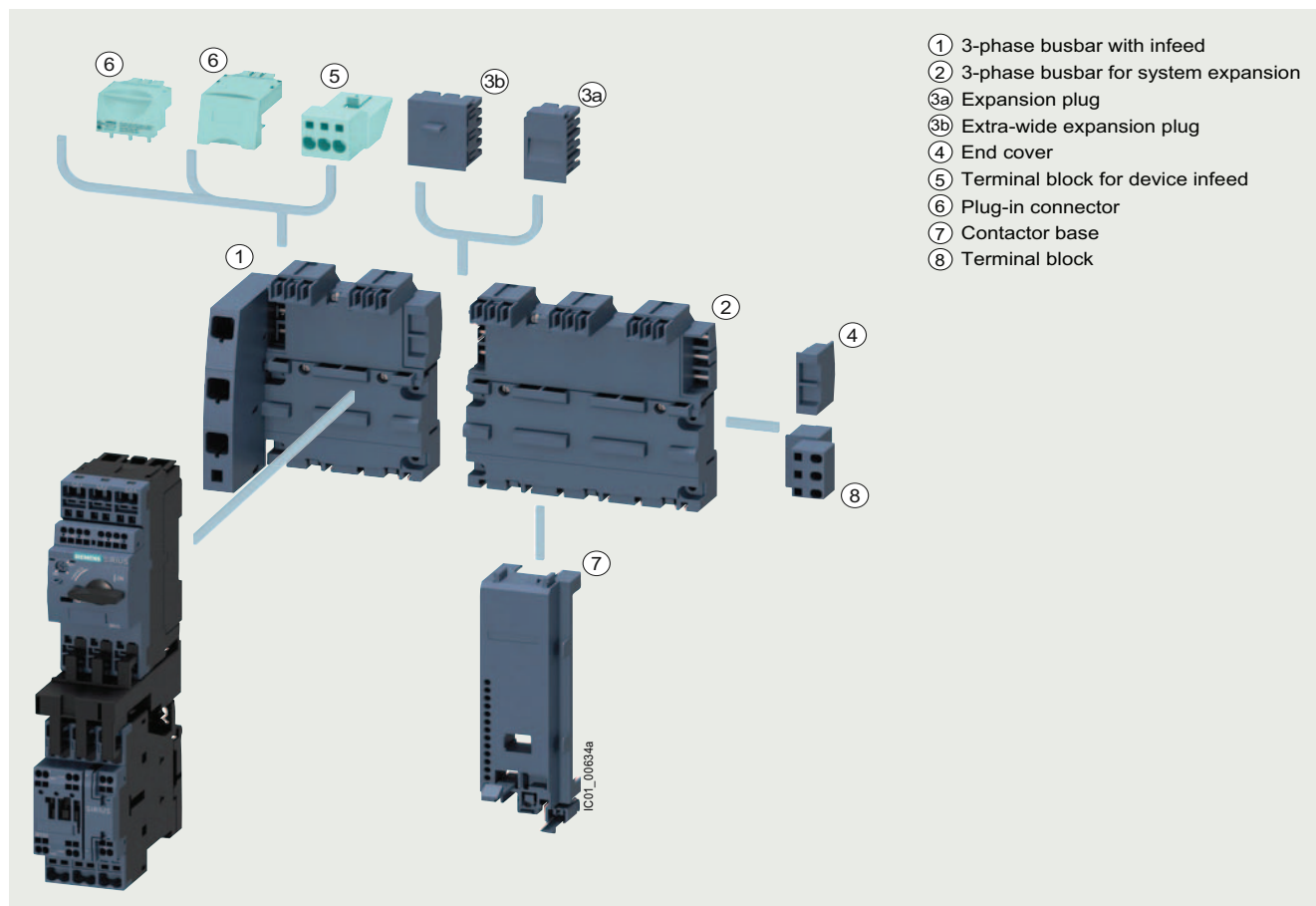
- Basic set for two feeders
- Expansion sets for two or three feeders

The assembly kits contain 3-phase busbars, plug-in connectors and contactor bases (see page 7/73).

Note:

Each set contains plug-in connectors for sizes S00 and S0.

Example: The basic set contains four plug-in connectors (two each for S00 and S0).



SIRIUS 3RV29 infeed system

① 3-phase busbars with infeed

A 3-phase busbar with infeed unit is required for connecting the incoming supply. These modules comprise one infeed module and two sockets which each accept one motor starter protector. A choice of two versions with infeed on the left or right is available. The infeed is connected to spring-loaded terminals. They permit an infeed with conductor cross-sections of up to 25 mm² with end sleeve. An end cover is supplied with each module.

② 3-phase busbars for system expansion

The 3-phase busbars for system expansion support expansion of the system. There is a choice of modules with two or three sockets. The system can be expanded as required up to a maximum current-carrying capacity of 63 A. An expansion plug is supplied with each module.

③a Expansion plug

The expansion plug is used for electrical connection of adjacent 3-phase busbars. The current carrying capacity of this plug equals 63 A. One expansion plug is supplied with each 3-phase busbar for system expansion. Additional expansion plugs are therefore only required as spare parts.

③b Extra-wide expansion plug

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

The 3RV2917-5E expansion plug is 10 mm wider than the 3RV2917-5BA00 expansion plug, hence in the plugged state there is a distance of 10 mm between the connected 3-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 3-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 3-phase busbar system with infeed. Further end covers are therefore only required as spare parts.

⑤ Terminal block for device infeed

A new addition to the system is a plug for outfeeding to a device slot within a module. This offers the option not only of connecting 3-phase loads to the system, but also of integrating 1-phase loads into the infeed system.

⑥ Plug-in connector

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

⑦ Contactor base

Load feeders can be assembled in the system using the S00 and S0 contactor base. The contactor bases are suitable for contactors of sizes S00 and S0 with screw and spring-loaded terminals and are simply snapped onto the 3-phase busbars. Direct-on-line starters and reversing starters are possible. One contactor base is required for direct-on-line starters and two are required for reversing starters.

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

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

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

⑧ Terminal block

The 3RV2917-5D terminal block enables the integration of not only SIRIUS motor starter protectors but also 1-phase, 2-phase and 3-phase components. The three phases can be fed out of the system using the terminal block; which means that 1-phase loads can also be integrated in the system. The terminal block is plugged into the slot of the expansion plug and thus enables outfeeding from the middle or end of the infeed system. The terminal block can be rotated through 180° and be locked to the support modules of the infeed system. In addition, the 45 mm wide TH 35 3RV1917-7B DIN-rail option for screwing onto the support plate facilitates plugging the 1-phase, 2-phase and 3-phase components onto the infeed system.



Video:
SIRIUS News SIRIUS 3RV29 infeed system – Assembly without tools

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

3RV29 infeed system

Technical specifications

More information

Equipment Manual, [see https://support.industry.siemens.com/cs/ww/en/view/60279172](https://support.industry.siemens.com/cs/ww/en/view/60279172)

General data

Type				3RV29.7	
Size				S00, S0	
Standards					
• IEC 60947-2				Yes	
• IEC 60947-4-1				Yes	
• UL 508/UL 60947-4-1				Yes	
Rated current I_n				A	63
Permissible rated current at inside temperature of control cabinet					
Motor starter protectors	Size	Rated current	Inside temperature of control cabinet		
• 3RV2.11/3RV1011	S00	... 14 A	60 °C	%	100
		> 14 ... 16 A	40 °C	%	100
			60 °C	%	87
• 3RV2.21	S0	... 16 A	60 °C	%	100
		> 16 ... 25 A	40 °C	%	100
			60 °C	%	87
		> 25 ... 32 A	40 °C	%	87
Permissible ambient temperature					
• Storage/transport				°C	-50 ... +80
• Operation				°C	-20 ... +60
Rated operational voltage U_e					
• According to IEC		10% overvoltage	V AC	500	
		5% overvoltage	V AC	525	
• According to UL/CSA			V AC	600	
Rated frequency				Hz	50/60
Rated impulse withstand voltage U_{imp}				kV	6
Short-circuit strength				Corresponds to the mounted motor starter protector or load feeder. The assembly instructions must be followed, see Operating Instructions	
Degree of protection IP on the front according to IEC 60529				IP20 if conductor cross-section 6 mm ² finely stranded with end sleeve (with plastic collar) or conductor cross-section ≥ 10 mm ² are used at the infeed terminal	
Touch protection on the front according to IEC 60529				Finger-safe for vertical touching from the front and if conductor cross-section 6 mm ² finely stranded with end sleeve (with plastic collar) or conductor cross-section ≥ 10 mm ² are used at the infeed terminal	

Conductor cross-sections

Type		3-phase busbars with infeed 3RV2917-1A, -1E	Terminal block 3RV2917-5D	Terminal block for device infeed 3RV2917-5FA00
Conductor cross-sections (min./max.)				
• Solid or stranded	mm ²	4 ... 25	1.5 ... 6	1 ... 10
• Finely stranded with end sleeve	mm ²	4 ... 25	1.5 ... 4	1 ... 6
• Finely stranded without end sleeve	mm ²	6 ... 25	1.5 ... 6	--
• AWG cables	AWG	10 ... 3	15 ... 10	18 ... 8

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

3RV29 infeed system

Selection and ordering data

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



3RV2917-1A

3-phase busbars with infeed
 Including end cover 3RV2917-6A

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

- With infeed on the left S00, S0
- With infeed on the right S00, S0

3RV2917-1A
3RV2917-1E

 1 1 unit 41E
 1 1 unit 41E

3-phase busbars for system expansion



3RV2917-4A

3-phase busbars
 Including expansion plug 3RV2917-5BA00

For motor starter protectors with screw or spring-loaded terminals

- For 2 motor starter protectors S00, S0
- For 3 motor starter protectors S00, S0

3RV2917-4A
3RV2917-4B

 1 1 unit 41E
 1 1 unit 41E

Plug-in connectors



3RV2917-5AA00

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

- For spring-loaded terminals

- Single-unit packaging S00¹⁾ S0²⁾
- Multi-unit packaging S00¹⁾ S0²⁾

Spring-loaded terminals
3RV2917-5AA00
3RV2927-5AA00
3RV2917-5A
3RV2927-5A

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


3RV2917-5CA00

- For screw terminals

- Single-unit packaging S00¹⁾³⁾ S0²⁾⁴⁾
- Multi-unit packaging S00¹⁾³⁾ S0²⁾⁴⁾

Screw terminals
3RV2917-5CA00
3RV1927-5AA00
3RV2917-5C
3RV1927-5A

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


3RV1917-5CA00

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

- For screw terminals

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

3RV1917-5CA00
3RV1917-5C

 1 1 unit 41E
 1 10 units 41E

¹⁾ $I > 14\text{ A}$, please note derating.

²⁾ $I > 16\text{ A}$, please note derating.

³⁾ The plug-in connector cannot be used for the 3RV2711 and 3RV2811 circuit breakers in size S00.

⁴⁾ The plug-in connector can be used for the 3RV2711, 3RV2811 (size S00) and 3RV2721, 3RV2821 (size S0) circuit breakers.

Type	Version	For contactors Size	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
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Contactor bases



3RV2927-7AA00

For mounting direct-on-line or reversing starters

- Single-unit packaging S00¹⁾
- S00¹⁾, S0

3RV2917-7AA00
3RV2927-7AA00

 1 1 unit 41E
 1 1 unit 41E

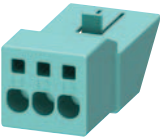
¹⁾ Not for 3RV1011 motor starter protectors.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

3RV29 infeed system

Type	Version	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Terminal blocks						
 3RV2917-5D	Terminal block For integration of 1-phase, 2-phase and 3-phase components	Single-unit packaging	3RV2917-5D	1	1 unit	41E
TH 35 DIN rails						
 3RV1917-7B	TH 35 DIN rail According to IEC 60715, width 45 mm, for mounting on 3-phase busbars	Single-unit packaging	3RV1917-7B	1	1 unit	41E
Extra-wide expansion plugs						
 3RV2917-5E	Extra-wide expansion plug As accessory	Single-unit packaging	3RV2917-5E	1	1 unit	41E
Expansion plugs						
 3RV2917-5BA00	Expansion plug¹⁾ As spare part	Single-unit packaging	3RV2917-5BA00	1	1 unit	41E
End covers						
 3RV2917-6A	End covers²⁾ As spare part	Multi-unit packaging	3RV2917-6A	100	10 units	41E
Terminal blocks for device infeed						
 3RV2917-5FA00	Terminal block for device infeed	Single-unit packaging	3RV2917-5FA00	1	1 unit	41E

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

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

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV2 motor starter protectors/circuit breakers

3RV29 infeed system

Version		For motor starter protectors/circuit breakers with spring-loaded terminals	Spring-loaded terminals 	PU (UNIT, SET, M)	PS*	PG
		Size	Article No.	Price per PU		
Assembly kits for constructing the infeed system with spring-loaded terminals ¹⁾						
 3RV2907-1AB00	Basic set for two feeders		3RV2907-1AB00	1	1 unit	41E
	contains:					
	• 1 x 3-phase busbar 3RV2917-1A (including end cover 3RV2917-6A), with infeed left, for two motor starter protectors with spring-loaded terminals	S00, S0				
	• 2 x plug-in connectors for spring-loaded terminals 3RV2917-5AA00	S00				
	• 2 x plug-in connectors for spring-loaded terminals 3RV2927-5AA00	S0				
	• 2 x 3RV2927-7AA00 contactor bases	S00, S0				
 3RV2907-4AB00	Expansion set for two feeders		3RV2907-4AB00	1	1 unit	41E
	contains:					
	• 1 x 3-phase busbar 3RV2917-4A (including expansion plug 3RV2917-5BA00), for two motor starter protectors with spring-loaded terminals	S00, S0				
	• 2 x plug-in connectors for spring-loaded terminals 3RV2917-5AA00	S00				
	• 2 x plug-in connectors for spring-loaded terminals 3RV2927-5AA00	S0				
	• 2 x 3RV2927-7AA00 contactor bases	S00, S0				
 3RV2907-4BB00	Expansion set for three feeders		3RV2907-4BB00	1	1 unit	41E
	contains:					
	• 1 x 3-phase busbar 3RV2917-4B, (including expansion plug 3RV2917-5BA00), for three motor starter protectors with spring-loaded terminals	S00, S0				
	• 3 x plug-in connectors for spring-loaded terminals 3RV2917-5AA00	S00				
	• 3 x plug-in connectors for spring-loaded terminals 3RV2927-5AA00	S0				
	• 3 x 3RV2927-7AA00 contactor bases	S00, S0				

¹⁾ Not for 3RV1011 motor starter protectors.

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV1 motor starter protectors/circuit breakers



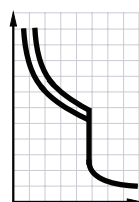
For fuse monitoring **IE3/IE4 ready** **AC-3e**

Technical specifications

See pages 7/9, 7/13, 7/18, 7/19 and 7/22

Selection and ordering data

Without auxiliary switches

	Rated current	Thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
	I_n			I_{cu}	Article No.	Price per PU		
	A	A	A	kA				
Size S00								
	0.2	0.2	1.2	100	3RV1611-0BD10	1	1 unit	41E



3RV1611-0BD10

Note:

The auxiliary switch required for signaling must be ordered separately.

Accessories

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

Mountable auxiliary switches (essential accessories)

 Transverse auxiliary switch With screw terminal, mountable on the front 3RV2901-1E	1 NO + 1 NC	3RV2901-1E	1	1 unit	41E
 Lateral auxiliary switch With screw terminal, mountable on the left 3RV2901-1A	1 NO + 1 NC	3RV2901-1A	1	1 unit	41E

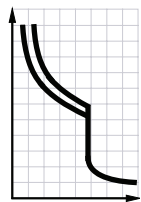
Additional auxiliary switches and other accessories, see page 7/46 onwards.

Technical specifications

[See page 7/23](#)

Selection and ordering data

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

	Rated current	Thermal overload release	Instantaneous electronic release	Auxiliary switch integrated in the motor starter protector, transverse	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
	I_n		$I >$		I_{cu}	Article No.	Price per PU		
	A	A	A		kA				
Size S00									
	1.4	1.4	6	1 CO	50	3RV1611-1AG14 3RV1611-1CG14 3RV1611-1DG14			
	2.5	2.5	10.5	1 CO	50			1	1 unit 41E
	3	3	20	1 CO	50			1	1 unit 41E

3RV1611-1.G14

Accessories

Version	Contacts	Screw terminals	PU (UNIT, SET, M)	PS*	PG
		Article No.	Price per PU		
Mountable auxiliary switches for other signaling purposes					
	Lateral auxiliary switch				
	With screw terminal, mountable on the left				
		1 NO + 1 NC			
		3RV2901-1A		1	1 unit 41E

3RV2901-1A

Additional auxiliary switches and other accessories, [see page 7/46 onwards](#).

Protection equipment

Motor starter protectors/circuit breakers

SIRIUS 3RV1 motor starter protectors/circuit breakers



For motor protection **IE3/IE4 ready** **AC-3e**

Technical specifications

See pages 7/9, 7/11, 7/13, 7/14, 7/18, 7/19 and 7/22

Selection and ordering data

CLASS 10, without auxiliary switches

	Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
	I_n			$I >$	I_{cu}	Article No.	Price per PU		
	A	kW	A	A	kA				
 3RV1011-...A10	0.16	0.04	0.11 ... 0.16	2.1	100	3RV1011-0AA10	1	1 unit	41E
	0.2	0.06	0.14 ... 0.2	2.6	100	3RV1011-0BA10	1	1 unit	41E
	0.25	0.06	0.18 ... 0.25	3.3	100	3RV1011-0CA10	1	1 unit	41E
	0.32	0.09	0.22 ... 0.32	4.2	100	3RV1011-0DA10	1	1 unit	41E
	0.4	0.09	0.28 ... 0.4	5.2	100	3RV1011-0EA10	1	1 unit	41E
	0.5	0.12	0.35 ... 0.5	6.5	100	3RV1011-0FA10	1	1 unit	41E
	0.63	0.18	0.45 ... 0.63	8.2	100	3RV1011-0GA10	1	1 unit	41E
	0.8	0.18	0.55 ... 0.8	10	100	3RV1011-0HA10	1	1 unit	41E
	1	0.25	0.7 ... 1	13	100	3RV1011-0JA10	1	1 unit	41E
	1.25	0.37	0.9 ... 1.25	16	100	3RV1011-0KA10	1	1 unit	41E
	1.6	0.55	1.1 ... 1.6	21	100	3RV1011-1AA10	1	1 unit	41E
	2	0.75	1.4 ... 2	26	100	3RV1011-1BA10	1	1 unit	41E
	2.5	0.75	1.8 ... 2.5	33	100	3RV1011-1CA10	1	1 unit	41E
	3.2	1.1	2.2 ... 3.2	42	100	3RV1011-1DA10	1	1 unit	41E
	4	1.5	2.8 ... 4	52	100	3RV1011-1EA10	1	1 unit	41E
	5	1.5	3.5 ... 5	65	100	3RV1011-1FA10	1	1 unit	41E
	6.3	2.2	4.5 ... 6.3	82	100	3RV1011-1GA10	1	1 unit	41E
	8	3	5.5 ... 8	104	50	3RV1011-1HA10	1	1 unit	41E
	10	4	7 ... 10	130	50	3RV1011-1JA10	1	1 unit	41E
	12	5.5	9 ... 12	156	50	3RV1011-1KA10	1	1 unit	41E

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

The accessories of 3RV2 motor starter protectors/circuit breakers can be used with exceptions, see page 7/46 onwards.

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

	Rated current	Suitable for three-phase motors ¹⁾ with P	Setting range for thermal overload release	Instantaneous electronic release	Short-circuit breaking capacity at 400 V AC	Screw terminals	PU (UNIT, SET, M)	PS*	PG
	I_n			$I >$	I_{cu}	Article No.	Price per PU		
	A	kW	A	A	kA				
 3RV1011-...A15 with integrated transverse auxiliary switch	0.16	0.04	0.11 ... 0.16	2.1	100	3RV1011-0AA15	1	1 unit	41E
	0.2	0.06	0.14 ... 0.2	2.6	100	3RV1011-0BA15	1	1 unit	41E
	0.25	0.06	0.18 ... 0.25	3.3	100	3RV1011-0CA15	1	1 unit	41E
	0.32	0.09	0.22 ... 0.32	4.2	100	3RV1011-0DA15	1	1 unit	41E
	0.4	0.09	0.28 ... 0.4	5.2	100	3RV1011-0EA15	1	1 unit	41E
	0.5	0.12	0.35 ... 0.5	6.5	100	3RV1011-0FA15	1	1 unit	41E
	0.63	0.18	0.45 ... 0.63	8.2	100	3RV1011-0GA15	1	1 unit	41E
	0.8	0.18	0.55 ... 0.8	10	100	3RV1011-0HA15	1	1 unit	41E
	1	0.25	0.7 ... 1	13	100	3RV1011-0JA15	1	1 unit	41E
	1.25	0.37	0.9 ... 1.25	16	100	3RV1011-0KA15	1	1 unit	41E
	1.6	0.55	1.1 ... 1.6	21	100	3RV1011-1AA15	1	1 unit	41E
	2	0.75	1.4 ... 2	26	100	3RV1011-1BA15	1	1 unit	41E
	2.5	0.75	1.8 ... 2.5	33	100	3RV1011-1CA15	1	1 unit	41E
	3.2	1.1	2.2 ... 3.2	42	100	3RV1011-1DA15	1	1 unit	41E
	4	1.5	2.8 ... 4	52	100	3RV1011-1EA15	1	1 unit	41E
	5	1.5	3.5 ... 5	65	100	3RV1011-1FA15	1	1 unit	41E
	6.3	2.2	4.5 ... 6.3	82	100	3RV1011-1GA15	1	1 unit	41E
	8	3	5.5 ... 8	104	50	3RV1011-1HA15	1	1 unit	41E
	10	4	7 ... 10	130	50	3RV1011-1JA15	1	1 unit	41E
	12	5.5	9 ... 12	156	50	3RV1011-1KA15	1	1 unit	41E

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

The accessories of 3RV2 motor starter protectors/circuit breakers can be used with exceptions, see page 7/46 onwards.