

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories

Mountable accessories

Overview

Mounting location and function

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

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

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

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 circuit breaker 3RV2742 (size S3).	Transverse auxiliary switches, solid-state compatible transverse auxiliary switches 1 NO + 1 NC or 2 NO or 1 CO	An auxiliary switch block 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 - Lateral auxiliary switches (two contacts) and signaling switches can be mounted separately or together - Signaling switches cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers - Only lateral auxiliary switches can be used for 3RV2742 (size S3)	Lateral auxiliary switches (2 contacts) 1 NO + 1 NC or 2 NO or 2 NC Lateral auxiliary switches (4 contacts) 2 NO + 2 NC Signaling switches Tripping 1 NO + 1 NC Short circuit 1 NO + 1 NC	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. The width of the lateral auxiliary switch with two contacts is 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. The width of the lateral auxiliary switch with four contacts is 18 mm. One signaling switch can be mounted on the left side of each motor starter protector. The signaling switch has two contact systems. One contact system always signals <u>tripping</u> irrespective of whether this was caused by a short circuit, an overload or an auxiliary release. The other contact system only switches in the event of a short circuit. There is no signaling as a result of <u>switching off</u> with the actuator. In order to be able to switch on the motor starter protector again after a short circuit, the signaling switch must be reset manually after the error cause has been eliminated. The width of the signaling switch is 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 releases or Undervoltage releases or Undervoltage releases 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 (see circuit diagrams). 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 STOP disconnection by way of corresponding EMERGENCY STOP pushbuttons according to EN 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. The width of the auxiliary release is 18 mm.
Top Notes: - Isolator modules cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers - Isolator module for size S2: - only with 3RV2 motor starter protectors/circuit breakers up to max. 65 A - not with the transverse auxiliary switch - Terminal screws of the transverse auxiliary switch are covered by the isolator module; Recommendation: Lateral auxiliary switches should be used in combination with the isolator module, or the isolator module should not be mounted until the auxiliary switch has been wired up	Isolator modules	Isolator modules can be mounted to the upper connection side of the motor starter protectors. The supply cable is connected to the motor starter protector through the isolator module. The plug can only be unplugged when the motor starter protector 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 pad-lock 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](#).

Motor Starter Protectors/Circuit Breakers

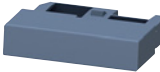
SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers

Accessories

Mountable accessories

Selection and ordering data

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

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

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

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

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

⁴⁾ Not for 3RV1011.

Load Feeders and Motor Starters for Use in the Control Cabinet

SIRIUS 3RA2 Load Feeders

Accessories

Overview

The accessories listed here are parts and add-ons for the 3RA2 direct-on-line and reversing starters as well as components for the customer assembly of fuseless load feeders.

Selection and ordering data

Accessories for motor starter protectors



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

Version	For motor starter protectors	SD	Screw terminals	SD	Spring-type terminals	
			Article No.	Price per PU	Article No.	Price per PU
	Size	d				

Auxiliary switches¹⁾

Transverse auxiliary switches

For mounting on the front

1 CO	S00 ... S3	▶
1 NO + 1 NC		▶
2 NO		▶

3RV2901-1D	▶	--
3RV2901-1E	▶	3RV2901-2E
3RV2901-1F	▶	3RV2901-2F

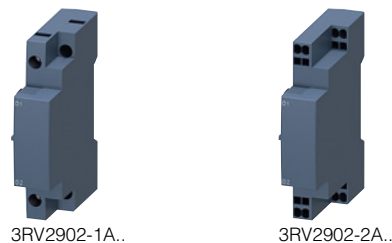
Lateral auxiliary switches

For mounting on the left

1 NO + 1 NC	S00 ... S3	▶
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3RV2901-1A	▶	3RV2901-2A
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¹⁾ Each motor starter protector can be fitted with one transverse and one lateral auxiliary switch. The lateral auxiliary switches 2 NO + 2 NC are used without transverse auxiliary switches.



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

Rated control supply voltage U_s				For motor starter protectors	SD	Screw terminals	SD	Spring-type terminals	
AC 50 Hz	AC 60 Hz	AC 50/60 Hz	AC/DC 50/60 Hz, DC 5 s ON period ¹⁾			Article No.	Price per PU	Article No.	Price per PU
V	V	V	V	Size	d				

Auxiliary releases for motor starter protectors³⁾

Undervoltage release

230	240	--	--	S00 ... S3	▶
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3RV2902-1AP0	▶	3RV2902-2AP0
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Shunt release

--	--	210 ... 240	190 ... 330	S00 ... S3	▶
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3RV2902-1DP0	▶	3RV2902-2DP0
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- ¹⁾ The voltage range is valid for 100% (infinite) ON period. The response voltage is 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 (does not apply to 3RV21 motor starter protectors with overload relay function).

For the complete range of accessories for the motor starter protectors [see page 7/43 onwards](#).