

SIRIUS 3RV Motor Starter Protectors up to 100 A

Accessories

Mountable accessories

Overview

Mounting location and function

The 3RV1 motor starter protectors/circuit breakers have three main contact elements. In order to achieve maximum flexibility, auxiliary switches, signaling switches, auxiliary releases and isolator modules can be supplied separately.

These components can be fitted as required on the motor starter protectors without using tools.

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

Front side <u>Notes:</u> <ul style="list-style-type: none"> • A maximum of 4 auxiliary contacts with auxiliary switches can be attached to each motor starter protector. • Transverse auxiliary switches must not be used for the 3RV17 and 3RV18 circuit breakers. 	Transverse auxiliary switches 1 NO + 1 NC or 2 NO or 1 CO contact	An auxiliary switch block can be inserted transversely on the front. The overall width of the motor starter protectors remains unchanged.
Left-hand side <u>Notes:</u> <ul style="list-style-type: none"> • A maximum of 4 auxiliary contacts with auxiliary switches can be attached to each motor starter protector/circuit breaker. • Auxiliary switches (2 contacts) and signal switches can be mounted separately or together. • The signaling switch cannot be used for the 3RV17 and 3RV18 circuit breakers. 	Lateral auxiliary switches (2 contacts) 1 NO + 1 NC or 2 NO or 2 NC	One of the three auxiliary switches can be mounted laterally at the left side for each motor starter protector. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector. The overall width of the lateral auxiliary switch with 2 contacts is 9 mm.
	Lateral auxiliary switches (4 contacts) 2 NO + 2 NC	One auxiliary switch with 4 contacts can be mounted at left side laterally for each motor starter protector/circuit breaker. The contacts of the auxiliary switch close and open together with the main contacts of the motor starter protector/circuit breaker. The overall width of the lateral auxiliary switch with 4 contacts is 18 mm.
	Signaling switches for sizes S0, S2 and S3 Tripping 1 NO + 1 NC Short-circuit 1 NO + 1 NC	One signaling switch can be mounted at the left side of each motor starter protector/circuit breaker with a rotary operating mechanism. The signaling switch has two contact systems. One contact system always signals tripping irrespective of whether this was caused by a short-circuit, an overload or an auxiliary release. The other contact system only switches in the event of a short-circuit. There is no signaling as a result of switching off with the handle. In order to be able to switch on the motor starter protector again after a short-circuit, the signaling switch must be reset manually after the error cause has been eliminated. The overall width of the signaling switch is 18 mm.
Right-hand side <u>Notes:</u> <ul style="list-style-type: none"> • One auxiliary release can be mounted per motor starter protector/circuit breaker. • Accessories cannot be mounted at the right-hand side of the 3RV11 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)	For remote-controlled tripping of the motor starter protector/circuit breaker. The release coil should only be energized for short periods (see schematics). Trips the motor starter protector/circuit breaker when the voltage is interrupted and prevents the motor from being restarted accidentally when the voltage is restored. Used for remote-controlled tripping of the motor starter protector. Particularly suitable for EMERGENCY-STOP disconnection by way of the corresponding EMERGENCY-STOP pushbutton according to EN 60204-1 (VDE 0113). Function and use as for the undervoltage release without leading auxiliary contacts, but with the following additional function: the auxiliary contacts will open in switch position OFF to deenergize the coil of the undervoltage release, thus interrupting energy consumption. In the "tripped" position, these auxiliary contacts are not guaranteed to open. The leading contacts permit the motor starter protector to reclose. The overall width of the auxiliary release is 18 mm.
Top <u>Notes:</u> <ul style="list-style-type: none"> • The isolator module cannot be used for the 3RV17 and 3RV18 circuit breakers. • The isolator module covers the terminal screws of the transverse auxiliary switch. If the isolator module is used, we therefore recommend that either the lateral auxiliary switches be fitted or that the isolator module not be mounted until the auxiliary switch has been wired. 	Isolator modules for sizes S0 and S2	Isolator modules can be mounted to the upper terminal end of motor starter protectors of sizes S0 and S2. The supply cable is connected to the motor starter protector through the isolator module. The plug can only be unplugged when the motor starter protector/circuit breaker is open and isolates all 3 poles of the motor starter protector from the network. The shock-protected isolation point is clearly visible and secured with a padlock to prevent reinsertion of the plug.









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

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Selection and ordering data

Version	Contacts	For motor starter protectors/ circuit breakers Size	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Order No.	Price per PU		kg	
Auxiliary switches¹⁾								
 3RV19 01-1E	Transverse auxiliary switches With screw terminals, mountable on front	1 CO 1 NO + 1 NC 2 NO	S00, S0, S2, S3 ▶▶▶	3RV19 01-1D 3RV19 01-1E 3RV19 01-1F	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.015 0.018 0.018
 3RV19 01-1G	Solid-state compatible transverse auxiliary switches With screw terminals, front mountable, for operation in dusty atmosphere and in solid-state circuits with low operating currents	1 CO	S00, S0, S2, S3 A	3RV19 01-1G	1	1 unit	101	0.016
 3RV19 01-0H	Covers for transverse auxiliary switches	--	S00, S0, S2, S3 ▶	3RV19 01-0H	1	10 units	101	0.006
 3RV19 01-1A	Lateral auxiliary switches With screw terminals, mountable on the left	1 NO + 1 NC 2 NO 2 NC 2 NO + 2 NC	S00, S0, S2, S3 ▶▶▶	3RV19 01-1A	1	1 unit	101	0.045
 3RV19 01-1B				1	1 unit	101	0.045	
 3RV19 01-1C				1	1 unit	101	0.045	
 3RV19 01-1J				1	1 unit	101	0.083	

¹⁾ Each motor starter protector 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. Transverse auxiliary switches must not be used for the 3RV17 and 3RV18 circuit breakers.




Version	Contacts	For motor starter protectors/ circuit breakers Size	DT	Cage Clamp terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Order No.	Price € per PU		kg	
Auxiliary switches¹⁾								
 3RV19 01-2E	Transverse auxiliary switches With Cage Clamp terminals, mountable on front	1 NO + 1 NC 2 NO	S00, S0, S2, S3 ▶▶▶	3RV19 01-2E 3RV19 01-2F	1 1	1 unit 1 unit	101 101	0.017 0.018
 3RV19 01-2A	Lateral auxiliary switches With Cage Clamp terminals, mountable on left	1 NO + 1 NC 2 NO 2 NC	S00, S0, S2, S3 ▶▶▶	3RV19 01-2A	1	1 unit	101	0.040
 3RV19 01-2B				1	1 unit	101	0.040	
 3RV19 01-2C				1	1 unit	101	0.040	

¹⁾ Each motor starter protector can be fitted with one transverse and one lateral auxiliary switch. Transverse auxiliary switches must not be used for the 3RV17 and 3RV18 circuit breakers.

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Version	For motor starter protectors/ circuit breakers Size	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
			Order No.	Price per PU			
kg							
Signaling switches¹⁾							
	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	S0, S2, S3 ▶	3RV19 21-1M	1	1 unit	101 0.094
3RV19 21-1M							
Isolator modules¹⁾							
	Isolator modules	Visible isolating distance for isolating individual motor starter protectors from the network, lockable in disconnected position.	S0 ▶ S2 ▶	3RV19 28-1A 3RV19 38-1A	1 1	1 unit 1 unit	101 0.157 101 0.324
3RV19 38-1A with padlock							

¹⁾ This accessory cannot be used for the 3RV17 and 3RV18 circuit breakers.

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Rated control supply voltage U_s		AC		AC	AC/DC	DC	For motor starter protectors/ circuit breakers Size	DT	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50 Hz	AC 60 Hz	AC 50/60 Hz	AC/DC 50/60 Hz, DC	DC	100 % ON period ¹⁾	5 s ON period ²⁾								
V	V	V	V	V					Order No.	Price per PU				kg
Auxiliary releases³⁾														
Undervoltage releases														
	--	--	--	--	24	--	S00, S0, S2, S3	A	3RV19 02-1AB4		1	1 unit	101	0.138
	24	--	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AB0		1	1 unit	101	0.134
	110	120	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AF0		1	1 unit	101	0.134
	--	208	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AM1		1	1 unit	101	0.128
	230	240	--	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1AP0		1	1 unit	101	0.131
	400	440	--	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1AV0		1	1 unit	101	0.127
415	480	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AV1		1	1 unit	101	0.129	
500	600	--	--	--	--	S00, S0, S2, S3	A	3RV19 02-1AS0		1	1 unit	101	0.127	
Undervoltage releases with leading auxiliary contacts 2 NO														
	230	240	--	--	--	--	S00	A	3RV19 12-1CP0		1	1 unit	101	0.140
	400	440	--	--	--	--	S00	A	3RV19 12-1CV0		1	1 unit	101	0.137
	415	480	--	--	--	--	S00	A	3RV19 12-1CV1		1	1 unit	101	0.139
3RV19 12-1CP0	230	240	--	--	--	--	S0, S2, S3	A	3RV19 22-1CP0		1	1 unit	101	0.139
	400	440	--	--	--	--	S0, S2, S3	A	3RV19 22-1CV0		1	1 unit	101	0.136
	415	480	--	--	--	--	S0, S2, S3	A	3RV19 22-1CV1		1	1 unit	101	0.138
Shunt releases														
--	--	20 ... 24	20 ... 70	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1DB0		1	1 unit	101	0.133
--	--	90 ... 110	70 ... 190	--	--	--	S00, S0, S2, S3	A	3RV19 02-1DF0		1	1 unit	101	0.135
--	--	210 ... 240	190 ... 330	--	--	--	S00, S0, S2, S3	▶	3RV19 02-1DP0		1	1 unit	101	0.130
--	--	350 ... 415	330 ... 500	--	--	--	S00, S0, S2, S3	A	3RV19 02-1DV0		1	1 unit	101	0.129
--	--	500	500	--	--	--	S00, S0, S2, S3	A	3RV19 02-1DS0		1	1 unit	101	0.126

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

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

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