

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](#).

<p>Front side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> 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). 	<p>Transverse auxiliary switches, solid-state compatible transverse auxiliary switches</p> <p>1 NO + 1 NC or 2 NO or 1 CO</p>	<p>An auxiliary switch block can be inserted transversely on the front. The overall width of the motor starter protectors/circuit breakers remains unchanged.</p>
<p>Left-hand side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> 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) 	<p>Lateral auxiliary switches (2 contacts)</p> <p>1 NO + 1 NC or 2 NO or 2 NC</p> <p>Lateral auxiliary switches (4 contacts)</p> <p>2 NO + 2 NC</p>	<p>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.</p> <p>The width of the lateral auxiliary switch with two contacts is 9 mm.</p> <p>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.</p> <p>The width of the lateral auxiliary switch with four contacts is 18 mm.</p>
<p>Right-hand side</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> 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 	<p>Auxiliary releases</p> <p>Shunt releases</p> <p>or</p> <p>Undervoltage releases</p> <p>or</p> <p>Undervoltage releases with leading auxiliary contacts 2 NO Own version for 3RV1011</p>	<p>One signaling switch can be mounted on the left side of each motor starter protector.</p> <p>The signaling switch has two contact systems.</p> <p>One contact system always signals <u>tripping</u> irrespective of whether this was caused by a short circuit, an <u>overload</u> 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.</p> <p>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.</p> <p>The width of the signaling switch is 18 mm.</p> <p>For remote-controlled tripping of the motor starter protector/circuit breaker. The release coil should only be energized for short periods (see circuit diagrams).</p> <p>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.</p> <p>Particularly suitable for EMERGENCY STOP disconnection by way of corresponding EMERGENCY STOP pushbuttons according to EN 60204-1.</p> <p>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.</p> <p>The width of the auxiliary release is 18 mm.</p>
<p>Top</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> Isolator modules cannot be used for 3RV1011, 3RV27 and 3RV28 circuit breakers Isolator module for size S2: <ul style="list-style-type: none"> 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 	<p>Isolator modules</p>	<p>Isolator modules can be mounted to the upper connection side of the motor starter protectors.</p> <p>The supply cable is connected to the motor starter protector through the isolator module.</p> <p>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.</p>

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 3RV1 Molded Case Motor Starter Protectors/Circuit Breakers

Accessories

Mountable accessories

Selection and ordering data


Type	Version	For molded case motor starter protectors	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
				Article No.	Price per PU		

Auxiliary switches



3RV1991-1AA0

Auxiliary switches For front mounting	1 signaling switch Off-On + 1 tripped signal (250 V AC/DC)	3RV1.6. ... 3RV1.83	20	3RV1991-1AA0	1	1 unit	41E
	3 signaling switches Off-On + 1 tripped signal (250 V AC/DC)		20	3RV1991-1BA0	1	1 unit	41E
	3 signaling switches Off-On + 1 tripped signal (24 V DC)		20	3RV1991-1CA0	1	1 unit	41E
	Connection cables for auxiliary switches	Length 2 m, 6-pole	3RV1.6. ... 3RV1.83	20	3RV1991-1FA0	1	1 unit

Type	Rated control supply voltage U_s		For molded case motor starter protectors	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
		AC	DC					
		50/60 Hz						
		V	V					
				d	Article No.	Price per PU		

Auxiliary releases



3RV1982-1AA0

Undervoltage releases For front mounting	24 ... 30	24 ... 30	3RV1.6. ...	20	3RV1982-1AA0	1	1 unit	41E
	110 ... 127	110 ... 125	...	20	3RV1982-1AD0	1	1 unit	41E
	220 ... 240	220 ... 250	3RV1.83	20	3RV1982-1AF0	1	1 unit	41E



3RV1982-1EA0

Shunt releases For front mounting	24 ... 30	24 ... 30	3RV1.6. ...	20	3RV1982-1EA0	1	1 unit	41E
	110 ... 127	110 ... 125	...	20	3RV1982-1ED0	1	1 unit	41E
	220 ... 240	220 ... 250	3RV1.83	20	3RV1982-1EF0	1	1 unit	41E

Connection cables for undervoltage and shunt releases	Length 2 m, 6-pole	3RV1.6. ... 3RV1.83	20	3RV1992-1FA0	1	1 unit	41E
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