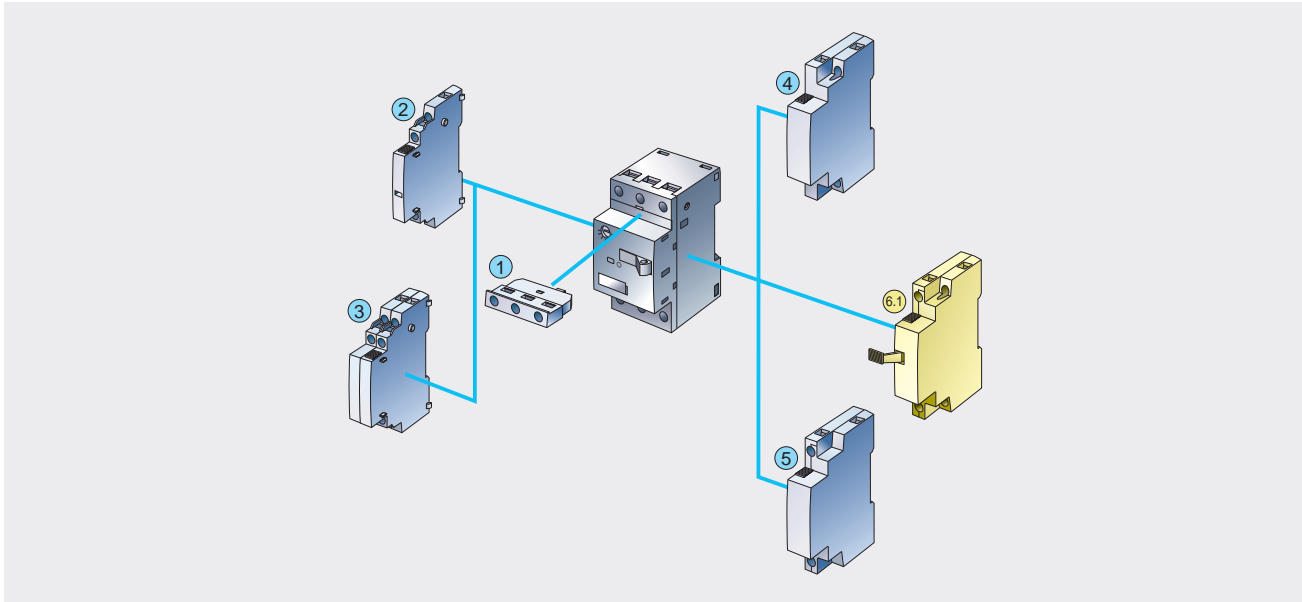


3RV Motor Starter Protectors up to 100 A

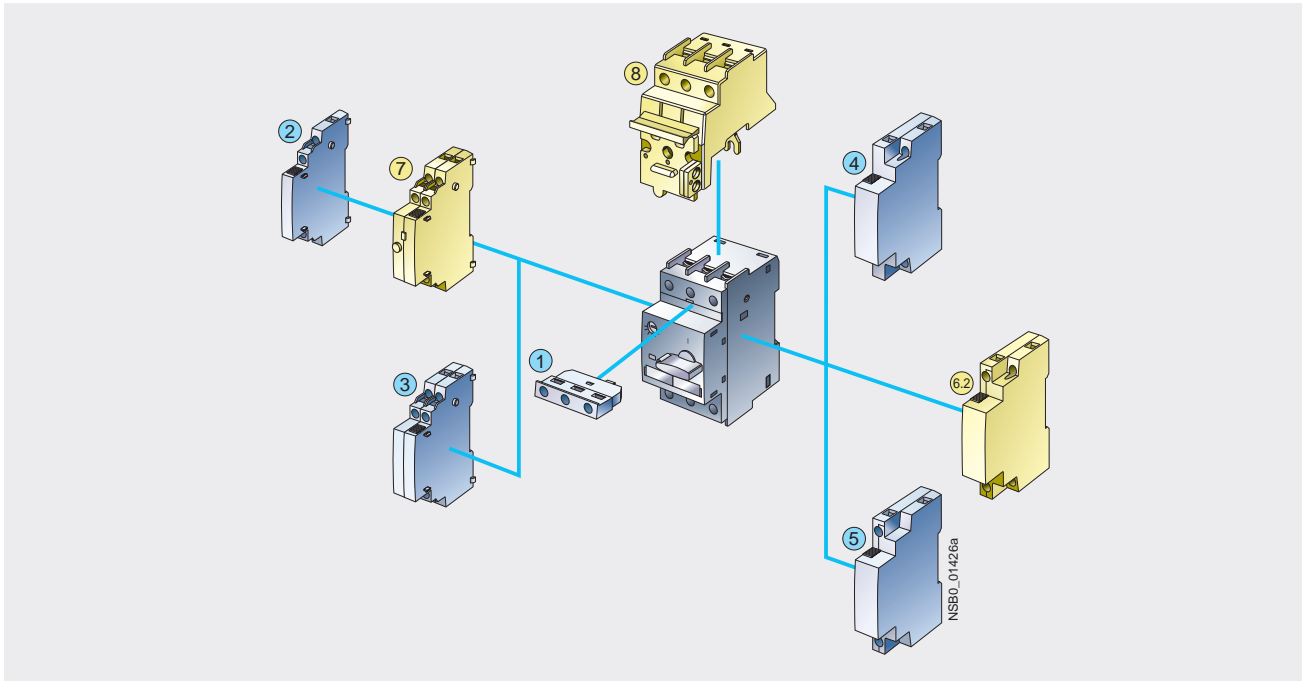
General data

Overview

S00 motor starter protectors with mountable accessories



Motor starter protectors, sizes S0, S2 or S3, with mountable accessories



Mountable accessories for all sizes S00 ... S3

- ① Transverse auxiliary switch (can not be used with 3RV17 and 3RV18 circuit breakers)
- ② Lateral auxiliary switch with 2 contacts
- ③ Lateral auxiliary switch with 4 contacts
- ④ Shunt release
- ⑤ Undervoltage release

Mountable accessories

- ⑥.1 Undervoltage release with leading auxiliary contacts
- ⑥.2 Undervoltage release with leading auxiliary contacts
- ⑦ Alarm switch
- ⑧ Isolator module

for sizes

- S00
- S0 ... S3
- S0 ... S3
- S0 and S2



Description	Ordering Information
<p>The 3RV102, 3RV103, and 3RV104 MSP's can be used as Type E self-protected manual combination starters per UL508 (3RV102 and 3RV104 require additional terminal adapters) or as components in Group Installation per NEC 430-53(C) to turn motors on and off. Each device has built-in heater elements that provide overload protection and magnetic trip elements to protect the motor. When the 3RV is used as a component in Group Installation, multiple MSP's can be installed below one circuit breaker to protect its own motor. A contactor can be mounted to the MSP to provide a remotely operated starter.</p>	<ul style="list-style-type: none"> ▶ ON/OFF rotary handle with lockout and visible trip indication. ▶ Adjustment dial for setting to motor FLA. ▶ Class 10 overload trip characteristics. ▶ Short circuit trip at 12 times the maximum setting of the FLA adjustment dial. ▶ Short circuit current rating: ▶ Ambient compensated up to 140° F (applies to side by side mounting). ▶ Phase loss sensitivity. ▶ Test trip function. ▶ Accessories see pages 1/8–1/15. ▶ General Information see pages 1/28–1/31. ▶ Technical Data see pages 1/20–1/27. ▶ Dimensions see pages 1/32.

Note: Select MSP by motor Full Load Amperes. Horsepower ratings are for reference only.

Illustration	FLA Adjustment Range	Single-Phase HP Ratings		Three-Phase HP Ratings ^①				Instantaneous short-circuit release I _A	UL Short-circuit breaking capacity @ 480 VAC I _{CU} kA	Screw connection	
		115V	230V	200V	230V	460V	575V			Catalog No	List Price \$
	3RV102 Frame Size S0^②										
	0.11–0.16	—	—	—	—	—	—	2.1	65	3RV1021-0AA10	136.
	0.14–0.2	—	—	—	—	—	—	2.6	65	3RV1021-0BA10	136.
	0.18–0.25	—	—	—	—	—	—	3.3	65	3RV1021-0CA10	136.
	0.22–0.32	—	—	—	—	—	—	4.2	65	3RV1021-0DA10	136.
	0.28–0.4	—	—	—	—	—	—	5.2	65	3RV1021-0EA10	136.
	0.35–0.5	—	—	—	—	—	—	6.5	65	3RV1021-0FA10	150.
	0.45–0.63	—	—	—	—	—	—	8.2	65	3RV1021-0GA10	150.
	0.55–0.8	—	—	—	—	—	1/2	10	65	3RV1021-0HA10	150.
	0.7–1	—	—	—	—	1/2	1/2	13	65	3RV1021-0JA10	150.
	0.9–1.25	—	—	—	—	3/4	3/4	16	65	3RV1021-0KA10	150.
	1.1–1.6	—	1/10	—	—	3/4	1	21	65	3RV1021-1AA10	150.
	1.4–2	—	1/6	—	—	1	1 1/2	26	65	3RV1021-1BA10	150.
	1.8–2.5	—	1/6	1/2	1/2	1 1/2	1 1/2	33	65	3RV1021-1CA10	150.
	2.2–3.2	1/10	1/4	3/4	3/4	1 1/2	2	42	65	3RV1021-1DA10	150.
2.8–4	1/6	1/2	3/4	1	2	3	52	65	3RV1021-1EA10	150.	
3.5–5	1/6	1/2	1	1	3	3	65	65	3RV1021-1FA10	150.	
4.5–6.3	1/4	3/4	1 1/2	1 1/2	5	5	82	65	3RV1021-1GA10	150.	
5.5–8	1/3	1	2	2	5	5	104	65	3RV1021-1HA10	150.	
7–10	1/2	1 1/2	3	3	7 1/2	10	130	65	3RV1021-1JA10	150.	
9–12.5	1/2	2	3	3	7 1/2	10	163	65	3RV1021-1KA10	179.	
11–16	1	3	5	5	10	15 ^③	208	65	3RV1021-4AA10	179.	
14–20	1 1/2	3	5	7 1/2	15	20	260	65	3RV1021-4BA10	179.	
17–22	2	3	7 1/2	7 1/2	15	20	286	65	3RV1021-4CA10	179.	
20–25	2	5	7 1/2	7 1/2	15	20	325	65	3RV1021-4DA10	179.	
	3RV103 Frame Size S2^②										
	11–16	1	3	5	5	10	15	208	65	3RV1031-4AA10	289.
	14–20	1 1/2	3	5	7 1/2	15	20	260	65	3RV1031-4BA10	289.
	18–25	2	5	7 1/2	10	20	25	325	65	3RV1031-4DA10	289.
	22–32	3	5	10	10	25	30	416	65	3RV1031-4EA10	289.
	28–40	3	7 1/2	15	15	30	40	520	65	3RV1031-4FA10	325.
36–45	5	7 1/2	15	15	30	40	585	65	3RV1031-4GA10	325.	
40–50	5	10	15	20	40	50	650	65	3RV1031-4HA10	325.	
	3RV104 Frame Size S3^②										
	28–40	3	7 1/2	15	15	30	40	520	65	3RV1041-4FA10	357.
	36–50	5	10	15	20	40	50	650	65	3RV1041-4HA10	357.
	45–63	5	15	20	25	50	60	819	65	3RV1041-4JA10	357.
	57–75	7 1/2	15	25	25	60	75	975	65	3RV1041-4KA10	375.
	70–90	10	20	30	30	75	100 ^③	1170	65	3RV1041-4LA10	400.
80–100	10	25	40	40	75	100	1235	65	3RV1041-4MA10	450.	

① Select MSP by motor full load amps. Horse power ratings for reference only.

② Size S0, S2, S3 are listed as type E combination motor controller. Required terminals see page 1/8.

③ Maximum short-circuit ratings in group installations:
S0-480 VAC, 3 phase, 65 kA rms
600 VAC, 3 phase, 30 kA rms for ratings 0.11 up to 12.5 A

600 VAC, 3 phase, 10 kA rms for ratings 11 up to 25 A
The 3RT1021 devices except suffix -4A, -4B, -4C, and -4D are marked suitable for tap conductor protection in group applications, 600 VAC maximum.
The 3RT1021 devices with suffix -4A, -4B, and -4C are marked suitable for tap conductor protection in group applications, 480 VAC maximum.
S2-480 VAC, 3 phase, 65 kA rms
600 VAC, 3 phase, 30 kA rms

The 3RV1031 are marked suitable for tap conductor protection in group applications.

S3-480 VAC, 3 phase, 65 kA rms
600 VAC, 3 phase, 30 kA rms
3RV1041 devices except suffix 4L and 4M are marked suitable for use in tap conductor protection in group applications.
3RV1041 devices with the 4L and 4M suffix are marked suitable for tap conductor protection in group applications, 480 V AC maximum.

Refer to pages 1/20 and 1/21 when using an MSP in a Manual Motor Starter or a Manual Self-Protected Combination Motor Controller.