



Motor Starter Protectors (MSP)

Selection

SIRIUS 3RV10 Manual Combination Starters, also for Group Installation, Class 10

Description	Ordering Information
<p>The 3RV101 MSP's, can be used as Type E self-protected manual combination starters, per UL508 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 using the 3RV101 as a manual combination starter, upstream protection is not required. When the 3RV101 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 rocker mechanism with lockout. ▶ 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. ▶ Cage Clamp version. ▶ Accessories see pages 275–279. ▶ General Information see pages 270–271. ▶ Technical Data see pages 362–368. ▶ Dimensions see pages 383–386.

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				Catalog No	Price \$
		115V	230V	200V	230V	460V	575V		
	3RV101								
	0.11–0.16	—	—	—	—	—	— [Ⓢ]	3RV1011-0AA10	116.
	0.14–0.2	—	—	—	—	—	— [Ⓢ]	3RV1011-0BA10	116.
	0.18–0.25	—	—	—	—	—	— [Ⓢ]	3RV1011-0CA10	116.
	0.22–0.32	—	—	—	—	—	— [Ⓢ]	3RV1011-0DA10	116.
	0.28–0.4	—	—	—	—	—	— [Ⓢ]	3RV1011-0EA10	116.
	0.35–0.5	—	—	—	—	—	— [Ⓢ]	3RV1011-0FA10	130.
	0.45–0.63	—	—	—	—	—	1/4 [Ⓢ]	3RV1011-0GA10	130.
	0.55–0.8	—	—	—	—	1/4	1/2 [Ⓢ]	3RV1011-0HA10	130.
	0.7–1	—	—	—	—	1/2	1/2 [Ⓢ]	3RV1011-0JA10	130.
	0.9–1.25	—	—	—	1/4	3/4	3/4 [Ⓢ]	3RV1011-0KA10	130.
	1.1–1.6	—	1/10	1/4	1/2	3/4	1 [Ⓢ]	3RV1011-1AA10	130.
	1.4–2	—	1/8	1/2	1/2	1	1 1/2 [Ⓢ]	3RV1011-1BA10	130.
	1.8–2.5	—	1/6	1/2	1/2	1 1/2	1 1/2 [Ⓢ]	3RV1011-1CA10	130.
	2.2–3.2	1/10	1/4	3/4	3/4	1 1/2	2 [Ⓢ]	3RV1011-1DA10	130.
	2.8–4	1/8	1/3	3/4	1	2	3 [Ⓢ]	3RV1011-1EA10	130.
	3.5–5	1/6	1/2	1	1	3	3 [Ⓢ]	3RV1011-1FA10	130.
	4.5–6.3	1/4	3/4	1 1/2	1 1/2	5	5 [Ⓢ]	3RV1011-1GA10	130.
	5.5–8	1/3	1	2	2	5	5 [Ⓢ]	3RV1011-1HA10	130.
	7–10	1/2 [Ⓢ]	1 1/2 [Ⓢ]	3 [Ⓢ]	3 [Ⓢ]	7 1/2 [Ⓢ]	10 [Ⓢ]	3RV1011-1JA10	130.
9–12	1/2 [Ⓢ]	2 [Ⓢ]	3 [Ⓢ]	3 [Ⓢ]	7 1/2 [Ⓢ]	10 [Ⓢ]	3RV1011-1KA10	159.	
	3RV101—With Cage Clamp Terminals								
	0.11–0.16	—	—	—	—	—	— [Ⓢ]	3RV1011-0AA20	121.
	0.14–0.2	—	—	—	—	—	— [Ⓢ]	3RV1011-0BA20	121.
	0.18–0.25	—	—	—	—	—	— [Ⓢ]	3RV1011-0CA20	121.
	0.22–0.32	—	—	—	—	—	— [Ⓢ]	3RV1011-0DA20	121.
	0.28–0.4	—	—	—	—	—	— [Ⓢ]	3RV1011-0EA20	121.
	0.35–0.5	—	—	—	—	—	— [Ⓢ]	3RV1011-0FA20	135.
	0.45–0.63	—	—	—	—	—	1/4 [Ⓢ]	3RV1011-0GA20	135.
	0.55–0.8	—	—	—	—	1/4	1/2 [Ⓢ]	3RV1011-0HA20	135.
	0.7–1	—	—	—	—	1/2	1/2 [Ⓢ]	3RV1011-0JA20	135.
	0.9–1.25	—	—	—	1/4	3/4	3/4 [Ⓢ]	3RV1011-0KA20	135.
	1.1–1.6	—	1/10	1/4	1/2	3/4	1 [Ⓢ]	3RV1011-1AA20	135.
	1.4–2	—	1/8	1/2	1/2	1	1 1/2 [Ⓢ]	3RV1011-1BA20	135.
	1.8–2.5	—	1/6	1/2	1/2	1 1/2	1 1/2 [Ⓢ]	3RV1011-1CA20	135.
	2.2–3.2	1/10	1/4	3/4	3/4	1 1/2	2 [Ⓢ]	3RV1011-1DA20	135.
	2.8–4	1/8	1/3	3/4	1	2	3 [Ⓢ]	3RV1011-1EA20	135.
	3.5–5	1/6	1/2	1	1	3	3 [Ⓢ]	3RV1011-1FA20	135.
	4.5–6.3	1/4	3/4	1 1/2	1 1/2	5	5 [Ⓢ]	3RV1011-1GA20	135.
	5.5–8	1/3	1	2	2	5	5 [Ⓢ]	3RV1011-1HA20	135.
	7–10	1/2	1 1/2	3	3	7 1/2	10 [Ⓢ]	3RV1011-1JA20	135.
9–12	1/2 [Ⓢ]	2 [Ⓢ]	3 [Ⓢ]	3 [Ⓢ]	7 1/2 [Ⓢ]	10 [Ⓢ]	3RV1011-1KA20	164.	

Ⓢ Short Circuit Ratings:
 Group Installation: 50kA @ 480V, 10kA @ 600V
 Manual Combination Starter: 50kA @ 240V, 480Y/277V

■ Shaded Ratings apply for Group Installation Only!
 These Ratings do not apply as UL Listed Manual
 Combination Starters.

For UL Listed Manual Combination Starters:
 0.11–8A up to 480V Max.

4 IEC Control



Motor Starter Protectors (MSP)

Selection

SIRIUS 3RV10 Manual Combination Starters, also for Group Installation, Class 10

Description	Ordering Information
<p>The 3RV102, 3RV103, and 3RV104 MSP's can be used as Type E self-protected manual combination starters per UL508 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 using the 3RV as a manual combination starter, upstream protection is not required. 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 275–279. ▶ General Information see pages 270–271. ▶ Technical Data see pages 362–368. ▶ Dimensions see pages 383–386.

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				Catalog No	Price \$
		115V	230V	200V	230V	460V	575V		
	3RV102								
	0.11–0.16	—	—	—	—	—	—	3RV1021-0AA10	136.
	0.14–0.2	—	—	—	—	—	—	3RV1021-0BA10	136.
	0.18–0.25	—	—	—	—	—	—	3RV1021-0CA10	136.
	0.22–0.32	—	—	—	—	—	—	3RV1021-0DA10	136.
	0.28–0.4	—	—	—	—	—	—	3RV1021-0EA10	136.
	0.35–0.5	—	—	—	—	—	—	3RV1021-0FA10	150.
	0.45–0.63	—	—	—	—	—	—	3RV1021-0GA10	150.
	0.55–0.8	—	—	—	—	—	1/2	3RV1021-0HA10	150.
	0.7–1	—	—	—	—	1/2	1/2	3RV1021-0JA10	150.
	0.9–1.25	—	—	—	—	3/4	3/4	3RV1021-0KA10	150.
	1.1–1.6	—	1/10	—	—	3/4	1	3RV1021-1AA10	150.
	1.4–2	—	1/8	—	—	1	1 1/2	3RV1021-1BA10	150.
	1.8–2.5	—	1/6	1/2	—	1 1/2	1 1/2	3RV1021-1CA10	150.
	2.2–3.2	1/10	1/4	3/4	3/4	1 1/2	2	3RV1021-1HA10	150.
	2.8–4	1/8	1/3	3/4	1	2	3	3RV1021-1EA10	150.
	3.5–5	1/6	1/2	1	1	3	3	3RV1021-1FA10	150.
	4.5–6.3	1/4	3/4	1 1/2	1 1/2	5	5	3RV1021-1GA10	150.
	5.5–8	1/3	1	2	2	5	5	3RV1021-1HA10	150.
	7–10	1/2	1 1/2	3	3	7 1/2	10	3RV1021-1JA10	150.
	9–12.5	1/2	2	3	3	7 1/2	10	3RV1021-1KA10	179.
	11–16	1	3	5	5	10	15 [Ⓞ]	3RV1021-4AA10	179.
	14–20	1 1/2	3	5	7 1/2	15	20 [Ⓞ]	3RV1021-4BA10	179.
	17–22	2	3	7 1/2	7 1/2	15	20 [Ⓞ]	3RV1021-4CA10	179.
	20–25	2 [Ⓞ]	5 [Ⓞ]	7 1/2 [Ⓞ]	7 1/2 [Ⓞ]	15 [Ⓞ]	20 [Ⓞ]	3RV1021-4DA10	179.
	3RV103								
	11–16	1	3	5	5	10	15	3RV1031-4AA10	289.
	14–20	1 1/2	3	5	7 1/2	15	20	3RV1031-4BA10	289.
	18–25	2	5	7 1/2	10	20	25	3RV1031-4DA10	289.
	22–32	3	5	10	10	25	30	3RV1031-4EA10	289.
28–40	3	7 1/2	15	15	30	40	3RV1031-4FA10	325.	
36–45	5	7 1/2	15	15	30	40	3RV1031-4GA10	325.	
40–50	5	10	15	20	40	50	3RV1031-4HA10	325.	
3RV104									
28–40	3	7 1/2	15	15	30	40	3RV1041-4FA10	357.	
36–50	5	10	15	20	40	50	3RV1041-4HA10	357.	
45–63	5	15	20	25	50	60	3RV1041-4JA10	357.	
57–75	7 1/2	15	25	25	60	75	3RV1041-4KA10	375.	
70–90	10	20	30	30	75	100 [Ⓞ]	3RV1041-4LA10	400.	
80–100	10	25	40	40	75	100 [Ⓞ]	3RV1041-4MA10	450.	

Ⓞ Short Circuit Ratings:
 Group Installation: 50kA @ 480V,
 25kA @ 600V (30kA for 3RV104)

Manual Combination Starter:
3RV102—50kA @ 240V, 480Y/277V,
 25kA @ 600Y/347V up to 12.5 amps.
3RV103—50kA @ 240V, 480Y/277V,
 25kA 600Y/347V
3RV104—50kA @ 240V, 480Y/277V,
 30kA @ 600Y/347V up to 75 amps.

Ⓞ ■ Shaded Ratings apply for Group Installation Only!
 These Ratings do not apply as UL Listed Manual
 Combination Starters.

For UL Listed Manual Combination Starters:
3RV102—0.11–22 A up to 480V Max.
 0.11–12.5 A up to 575V Max.
3RV103—11–50 A up to 575V Max.
3RV104—28–100 A up to 480V Max.
 28–75 A up to 575V Max.

4 IEC Control