3RV1 Motor Starter Protectors For Motor Protection

3RV10 Class 10 up to 12A



Description	Ordering Information
The 3RV101 MSP's , can be used 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 pro- tection and magnetic trip elements to protect the motor. When the 3RV101 is used as a component in Group Installation, mul- tiple MSP's can be installed below one circuit breaker to pro- tect its own motor. A contactor can be mounted to the MSP to provide a remotely operated starter.	 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. Auxiliaries and Accessories see pages 1/9–1/19. General Information see pages 1/31–1/34. Technical Data see pages 1/20–1/30. Dimensions see page 1/35.

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

Illustration	FLA Adjustment Range	Single Phase HP Ra 115V		Three 200V	Phase 230V	HP Ratii	1gs ^① 575V	Instanta- neous short circuit release []] > A	UL short- circuit breaking capacity @ 480 V I_{cu} kA	Screw connection List Price Catalog No \$	Cage clamp connection Catalog No	List Price \$
	3RV101 Fram				1			1			-	
1211 TO 1 PORT	0.11-0.16	_	_	_	_	_	@	2.1	65	3RV1011-0AA10	3RV1011-0AA20	
2000	0.14-0.2	_	_	_	_	_	_	2.6	65	3RV1011-0BA10	3RV1011-0BA20	
0 00 00	0.18-0.25	_	_		_	_	_	3.3	65	3RV1011-0CA10	3RV1011-0CA20	
SIEMENS 3N	0.22-0.32	_	_	—	_	_	—	4.2	65	3RV1011-0DA10	3RV1011-0DA20	
27 - 21	0.28-0.4	_	_	_	_	_	_	5.2	65	3RV1011-0EA10	3RV1011-0EA20	
	0.35-0.5	_	_	—	_	_	_	6.5	65	3RV1011-0FA10	3RV1011-0FA20	
and more and	0.45-0.63	_	_	—	_	_	1⁄4	8.2	65	3RV1011-0GA10	3RV1011-0GA20	
8 8 8	0.55-0.8	_	_	—	_	1⁄4	1/2	10	65	3RV1011-0HA10	3RV1011-0HA20	
	0.7–1	_	_		-	1/2	1/2	13	65	3RV1011-0JA10	3RV1011-0JA20	
	0.9–1.25	_	_	_	1/4	3/4	3/4	16	65	3RV1011-0KA10	3RV1011-0KA20	
	1.1-1.6	_	1/10	1⁄4	1/3	3/4	1	21	65	3RV1011-1AA10	3RV1011-1AA20	
The second second	1.4-2	_	1/8	1⁄3	1/2	1	1½	26	65	3RV1011-1BA10	3RV1011-1BA20	
税 税 数	1.8-2.5	_	1/6	1/2	1/2	11/2	1½	33	65	3RV1011-1CA10	3RV1011-1CA20	
	2.2-3.2	1/10	1⁄4	3/4	3/4	11/2	2	42	65	3RV1011-1DA10	3RV1011-1DA20	
STEMENS INV	2.8–4	1/8	1/3	3/4	1	2	3	52	65	3RV1011-1EA10	3RV1011-1EA20	
Charge Control of Cont	3.5–5	1/6	1/2	1	1	3	3	65	65	3RV1011-1FA10	3RV1011-1FA20	
22 - 1 M	4.5-6.3	1⁄4	3/4	1½	11/2	5	5	82	65	3RV1011-1GA10	3RV1011-1GA20	
The survey of th	5.5–8	1/3	1	2	2	5	5	104	65	3RV1011-1HA10	3RV1011-1HA20	
	7–10	1/2	11/2	3	3	71/2	10@	130	65	3RV1011-1JA10	3RV1011-1JA20	
	9–12	1/2	2	3	3	71/2	10	156	65	3RV1011-1KA10	3RV1011-1KA20	
	Accessories											
	Transverse auxiliary switch [®] Approx. weight .02 kg 1 NO + 1 NC separately									3RV19 01-1E	3RV19 01-2E	

 $^{\textcircled{0}}$ Select MSP by motor full load amps. Horse power ratings for reference only.

[®] Size S00 MSP are listed for group installation only. ^③ For additional auxiliary switches refer to

^④ Shaded ratings apply for group installation only. These ratings do not apply as UL listed manual combination starters.

Accessories, Page 1/8 (screw connection) and Page 1/15 (Cage Clamp connection).

3RV1 Motor Starter Protectors For Motor Protection



3RV10 Class 10 up to 100A

Description	Ordering Information
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 adapers) 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.	 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 1/9–1/19. General Information see pages 1/31–1/40. Technical Data see pages 1/20–1/30. Dimensions see pages 1/35.

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

	FLA Adjustment	Single- HP Rati		Three-Phase HP Ratings $^{\odot}$			s ^①	Instantaneous short-circuit release	UL Short-circuit breaking capacity @ 480 VAC I _{cu}	Screw connection	
Illustration	Range	115V	230V	200V	230V	460V	575V	A	kA	Catalog No	Price \$
	3RV102 Fram	-									
	0.11-0.16	_		_	_	_	_	2.1	65	3RV1021-0AA10	
1 7 7 7	0.14-0.2	—	_				_	2.6	65	3RV1021-0BA10	
	0.18-0.25	—	—	—	—	—	—	3.3	65	3RV1021-0CA10	
0.0011	0.22-0.32	—	—	—	—	—	—	4.2	65	3RV1021-0DA10	
STREET, STREET	0.28-0.4	—		—	—	—	—	5.2	65	3RV1021-0EA10	
	0.35-0.5	-	—	-	—	—	—	6.5	65	3RV1021-0FA10	
	0.45-0.63	—	_	-	-	-	1/	8.2	65	3RV1021-0GA10	
	0.55–0.8 0.7–1	—	—	-		1/2	1/2 1/2	10 13	65 65	3RV1021-0HA10 3RV1021-0JA10	
000	0.7-1	_	_			3/4	3/4	16	65	3RV1021-05A10 3RV1021-0KA10	
	1.1-1.6	_	1/10			3/4	1	21	65	3RV1021-0KA10	
	1.4-2		1/8			1	1½	26	65	3RV1021-1BA10	
	1.4-2.5		1/6	1/2	1/2	11/2	11/2	33	65	3RV1021-1CA10	
	2.2-3.2	1/10	1/4	3/4	3/4	11/2	2	42	65	3RV1021-1DA10	
EVE	2.8-4	1/8	1/3	3/4	1	2	3	52	65	3RV1021-1EA10	
	3.5–5	1/6	1/2	1	1	3	3	65	65	3RV1021-1FA10	
	4.5-6.3	1/4	3/4	11/2	1½	5	5	82	65	3RV1021-1GA10	
0 0 0 7	5.5–8	1/3	1	2	2	5	5	104	65	3RV1021-1HA10	
	7–10	1/2	11/2	3	3	7½	10	130	65	3RV1021-1JA10	
Attended to the second	9-12.5	1/2	2	3	3	7½	10	163	65	3RV1021-1KA10	
	11-16	1	3	5	5	10	15 ³	208	65	3RV1021-4AA10	
	14-20	1½	3	5 7½	7½	15	20	260	65	3RV1021-4BA10	
	17–22 20–25	2	3 5	71/2	7½ 7½	15 15	20 20	286 325	65 65	3RV1021-4CA10 3RV1021-4DA10	
000	3RV103 Fram			1 /2	1 /2	15	20	320	00	3NV 1021-4DA 10	
				1 _	-		1				
	11-16	1	3	5	5	10	15	208	65	3RV1031-4AA10	
	14–20 18–25	1½ 2	3 5	5 7½	7½ 10	15 20	20 25	260 325	65 65	3RV1031-4BA10	
and for	18-25 22-32	3	5 5	10	10	20	30	325 416	65	3RV1031-4DA10 3RV1031-4EA10	
	28-40	3	5 7½	10	10	30	40	520	65	3RV1031-4EA10	
0 0 0 0	28–40 36–45	5	71/2	15	15	30	40	520	65	3RV1031-4FA10 3RV1031-4GA10	
	40-50	5	10	15	20	40	50	650	65	3RV1031-4HA10	
	3RV104 Fram		-	1.10	1 = 0		1.00				
CO - I	28-40	3	7½	15	15	30	40	520	65	3RV1041-4FA10	
	26-40 36-50	5	10	15	20	40	50	650	65	3RV1041-4FA10 3RV1041-4HA10	
to and the second	45-63	5	15	20	25	50	60	819	65	3RV1041-4JA10	
	57-75	71/2	15	25	25	60	75	975	65	3RV1041-4KA10	
00	70-90	10	20	30	30	75	1003	1170	65	3RV1041-4LA10	
	80-100	10	25	40	40	75	100	1235	65	3RV1041-4MA10	

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

⁽³⁾ Shaded ratings apply for group installation only.

 Size S0, S2, S3 are listed as type E combination motor controller. Required terminals see page 1/9.

s type E combination starters.

These ratings do not apply as UL listed manual combination starters.

Refer to pages 1/20 to 1/22 when using an MSP in a Manual Motor Starter or a Manual Self-Protected Combination Motor Controller.