up to 40A



Description	Ordering Information
 The 3RV20x MSP's are UL approved as Self Protected Combination Motor Controllers which are also called Type E. In this application, all the required functions for a motor branch are provided in one device: disconnect, short circuit protection, motor control and overload protection. A type E terminal adaptor is required. The 3RV20x MSP's are also approved for use as follows: Manual Motor Controller: Motor starter, motor disconnect, control and overload protection. Group Installation: Motor starter only, motor disconnect, control and overload protection. Tap conductor Protection in Group Installation acc. NEC: Motor starter only; motor disconnect, control and overload protection. 	 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 13 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.
When the 3RV20x is used with one of the 3 above mentioned approvals, the 3RV20x can be installed downstream of one circuit breaker or fuse set.	 Terminal versions: screw, spring, ring lug. Auxiliaries and Accessories see pages 1/7–1/17.
For more detailed application information and rules how to apply, size and rate the 3RV20x in control panels in general, in group installations or in accordance to interna-	 General Information see pages 1/29–1/32. Technical Data see pages 1/18–1/28. Dimensions see page 1/33.

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Dimensions see page 1/33.

Illustration	FLA Adjustment Range [A]	Single-Phase HP Ratings		Three-Phase HP Ratings ¹⁾				aneous circuit short break	UL short- circuit breaking capacity	Size S00 ^{2) 4)}	Size S0 ^{2) 4)}
		115V	230V	200V	230V	460V	575V	release @ 480V [A] [kA]		Order Number	Order Number
	0.11-0.16	—	—	—	-	—	—	2.1	65	3RV2011-0AA ••	—
	0.14-0.2	—	—		—	_		2.6	65	3RV2011-0BA ••	—
	0.18-0.25	-	_	_		—	_	3.3	65	3RV2011-0CA ••	_
	0.22-0.32	—	—	—	—	—	—	4.2	65	3RV2011-0DA ••	—
	0.28-0.4	-	_	—	—	_	_	5.2	65	3RV2011-0EA ••	—
1111	0.35-0.5	_	_	—	_	-	_	6.5	65	3RV2011-0FA ••	_
N N PR	0.45-0.63	_	_	_	-		_	8.2	65	3RV2011-0GA ••	3RV2021-0GA ••
	0.55-0.8	_	-	—	_	_	_	10	65	3RV2011-0HA ••	3RV2021-0HA ••
	0.7-1	—	—	—	—	—	1/2	13	65	3RV2011-0JA00	3RV2021-0JA ••
C	0.9-1.25	_	-	—	_	1/2	1/2	16	65	3RV2011-0KA ••	3RV2021-0KA ••
" and and a	1.1-1.6	—	1/10	_	_	3/4	3⁄4	21	65	3RV2011-1AA	3RV2021-1AA
	1.4-2	_	1/8	—	_	3⁄4	1	26	65	3RV2011-1BA ••	3RV2021-1BA ••
1000	1.8-2.5	—	1/6	1/2	1/2	1	1 1/2	33	65	3RV2011-1CA ••	3RV2021-1CA ••
2 2 2 1	2.2-3.2	1/10	1/4	1/2	3⁄4	1 1/2	2	42	65	3RV2011-1DA ••	3RV2021-1DA ••
	2.8-4	1/8	1/3	3⁄4	3/4	2	3	52	65	3RV2011-1EA ••	3RV2021-1EA ••
	3.5-5	1/6	1/2	1	1	3	3	65	65	3RV2011-1FA ••	3RV2021-1FA ••
	4.5-6.3	1/4	1/2	1	1 1/2	3	5	82	65	3RV2011-1GA ••	3RV2021-1GA ••
	5.5-8	1/3	1	2	2	5	5	104	65	3RV2011-1HA	3RV2021-1HA
	7-10	1/2	1 1/2	2	3	5	7 1/2	130	65	3RV2011-1JA ••	3RV2021-1JA ••
	9-12.5	1/2	2	3	3	7 1/2	10	163	65	3RV2011-1KA ••	3RV2021-1KA
	11-16	1	2	3	5	10	—	208	65	3RV2011-4AA	3RV2021-4AA
	14-20	1 1/2	3	5	5	10	—	260	65	_	3RV2021-4BA ●●
	17-22	1 1/2	3	5	7 1/2	15	_	286	65	_	3RV2021-4CA
	20-25	2	3	5	7 1/2	15	_	325	65	_	3RV2021-4DA ••
	23-28	2	5	7 ½	10	20	—	364	50	—	3RV2021-4NA
	27-32	2	5	7 ½	10	20	_	400	50	_	3RV2021-4EA ••
	30-36 ³⁾	3	5	10	10	25	_	432	12	_	3RV2021-4PA
	34-40 ³⁾	3	7 1/2	10	10	30	_	480	12	_	3RV2021-4FA

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

Screw Terminals, with 1NO/1NC Aux: $\bullet = 15$

Spring terminals, no auxiliary: $\bullet \bullet = 20$

Spring Terminals, with 1NO/1NC Aux: ●● = 25

Ring Lug Terminals, no Auxiliary: $\bullet \bullet = 40$

1) Select motor starter protector by motor full load amps. Horse power ratings for reference only.

2) The motor starter protectors rated up to 32 A can be used as manual motor controllers or as Type E combi-nation motor controllers. For use as a Type E combina-tion motor controller, a Type E terminal is required. See accessories page 1/10.

3) These products are NOT certified as Type E combination motor controllers. They can only be used as manual motor controllers.

4) 3RV2 MSP's can only be used with Innovations contactors and accessories

3RV Motor Starter Protectors For Motor Protection

3RV10 Class 10 & 20 up to 100A

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Description	Ordering Information
 The 3RV103 / 104 MSP's are UL approved as Self Protected Combination Motor Controllers which are also called Type E. In this application, all the required functions for a motor branch are provided in one device: disconnect, short circuit protection, motor control and overload protection. A type E terminal adaptor is required for 3RV104. The 3RV103 / 104 MSP's are also approved for use as follows: Manual Motor Controller: Motor starter, motor disconnect, control and overload protection. Group Installation: Motor starter only, motor disconnect, control and overload protection. Tap conductor Protection in Group Installation acc. NEC: Motor starter only; motor disconnect, control and overload protection. 	 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 13 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.
When the 3RV103 /104 is used with one of the 3 above mentioned approvals, they can be installed downstream of one circuit breaker or fuse set.	 Auxiliaries and Accessories see pages 1/7–1/17. General Information see pages 1/29–1/32. Taskeigel Data and pages 1/19–1/29.
For more detailed application information and rules how to apply, size and rate the 3RV103 /104 in control panels in general, in group installations or in accordance to international	 Technical Data see pages 1/18–1/28. Dimensions see page 1/33.

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

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Illustration	FLA Adjustment Range [A]	Single P HP rating	hase g ¹⁾	3 Phase HP Rating ¹⁾				Inst. Short- Circuit	UL AIC	Trip Class 10	Trip Class 20
		115V	230V	200V	230V	460V	575V	Release [A]	(480V) [kA]	Order Number ⁴⁾	Order Number ⁴⁾
1 1 23	3RV103 Frame Size S2										
and a start	11 - 16	1	3	5	5	10	15	208A	65	3RV1031-4AA10	3RV1031-4AB10
000	14 - 20	1.5	3	5	7.5	15	20	260A	65	3RV1031-4BA10	3RV1031-4BB10
	18 - 25	2	5	7.5	10	20	25	325A	65	3RV1031-4DA10	3RV1031-4DB10
	22 - 32	3	5	10	10	25	30	416A	65	3RV1031-4EA10	3RV1031-4EB10
0	28 - 40	3	7.5	15	15	30	40	520A	65	3RV1031-4FA10	3RV1031-4FB10
	36 - 45	5	7.5	15	15	30	40	585A	65	3RV1031-4GA10	3RV1031-4GB10
0.00	40 - 50	5	10	15	20	40	50	650A	65	3RV1031-4HA10	3RV1031-4HB10
	3RV104 Fr	ame Siz	e S3								
(a) (a)	28 - 40	3	7.5	15	15	30	40	520A	65	3RV1041-4FA10	3RV1042-4FB10
	36 - 50	5	10	15	20	40	50	650A	65	3RV1041-4HA10	3RV1042-4HB10
0 7	45 - 63	5	15	20	25	50	60	819A	65	3RV1041-4JA10	3RV1042-4JB10
-	57 - 75	7.5	15	25	25	60	75	975A	65	3RV1041-4KA10	3RV1042-4KB10
1	70 - 90	10	20	30	30	75	100 ³⁾	1170A	65	3RV1041-4LA10	3RV1042-4LB10
00	80 - 100	10	25	40	40	75	100 3)	1235A	65	3RV1041-4MA10	3RV1042-4MB10

- 1) Select motor starter protector by motor full load amps. Horse power ratings for reference only.
- Shaded ratings apply for group installation only. These ratings do not apply as UL listed manual combination starters.
- 5) 3RV1 MSP's can only be used with 3RT1 contactors and accessories.

 Size S3 is listed as type E combination motor controller. For required Type E terminals see page 1/10.

 Pre-assembled motor starter protector and transverse auxiliary switch with 1NO + 1NC is available. Replace the last digit of the order no. with a "5".

Refer to pages 1/18 to 1/20 when using an MSP in a Manual Motor Starter or a Manual Self-Protected Combination Motor Controller.