

Manual Control

Starters and Switches, Class 11 - 3RV

General

Class 11 - 3RV

Class 11 across the line manual starters and switches provide control for machinery where remote start stop control is not required.

Class 11 - 3RV manual starters are used for single and poly-phase motors up to 20HP @ 575V. Starters have bimetallic heater elements to provide class 10 overcurrent protection. Each starter has a fourth bimetallic strip that reacts only to the ambient temperature inside the control panel. This ambient compensation helps prevent the starter from nuisance tripping when the panel temperature is higher than the ambient temperature of the motor.

A built-in differential trip bar causes the starter to trip faster on a phase loss condition to help reduce motor damage.

Magnetic trip elements in each starter take the device off line when it senses current of 13 times the maximum FLA dial setting.

Class 11 - 3RV switches provide control for inherently protected motors. Typical applications include metal and woodworking machinery, grinders, power saws, conveyors, fans, pumps,

blowers, textile and packaging machinery, and paper cutters.

Each switch is provided with magnetic trip elements which take the device off line when it senses current of 13 times the maximum switch rating.

Class 11 - 3RV manual starters can be used as Type E self-protected manual combination starters (up to 22 amps) per UL508 or as components in Group Installation per NEC 430.53. When using the Class 11 - 3RV as a manual combination starter upstream protection is not required.

Class 11 - 3RV controllers are available with low voltage protection which will automatically open the power poles when the voltage drops or the power is interrupted.

Controllers with the LVP option provide the OSHA requirements for protecting personnel from potential injury caused by the automatic start-up of machinery following a voltage drop or power interruption when low voltage protection is specified.

Class 11 - 3RV is available as Open style, or in NEMA 1, NEMA 7 & 9 or NEMA 7 & 9 / 3 & 4 enclosures.

Standard Features include:

- ON/OFF rotary handle with lockout and visible trip indication
- Adjustment dial for setting to motor FLA (Starters only)
- Low Voltage Protection (LVP) Option
- Short Circuit trip at 13 times the maximum setting of the FLA dial or rated current
- Ambient compensated up to 140°F
- Phase loss sensitivity
- Test trip function
- LVP Option Meets OSHA Requirements
- UL Listed
- CSA Certified



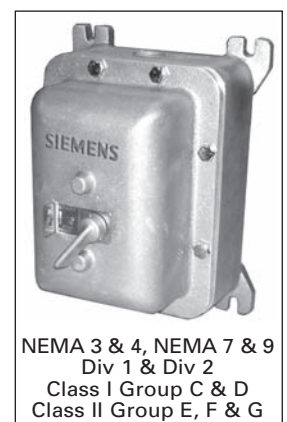
OPEN TYPE
Starter



NEMA 1
General Purpose



NEMA 7 & 9
Div 1 & Div 2
Class I Group C & D
Class II Group E, F & G




NEMA 3 & 4, NEMA 7 & 9
Div 1 & Div 2
Class I Group C & D
Class II Group E, F & G

Manual Control Starters and Switches, Class 11 - 3RV

Selection

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 <p>Class 11 Manual Motor Starter</p>	Ordering Information <ul style="list-style-type: none"> ▶ No heaters required. ▶ Field Modification Kits see page 9/98. ▶ Dimensions see page 9/133. ▶ Wiring Diagrams see page 9/165. ▶ For applications requiring a low voltage protection coil see table at right. 	Low Voltage Protection Coil Table <table border="1"> <thead> <tr> <th>60 Hz Voltage</th> <th>Letter</th> </tr> </thead> <tbody> <tr> <td>120V</td> <td>*F</td> </tr> <tr> <td>208V</td> <td>*D</td> </tr> <tr> <td>240V</td> <td>*G</td> </tr> <tr> <td>460V</td> <td>*H</td> </tr> </tbody> </table> <p>*Add corresponding letter to end of base Class 11 catalog number for low voltage protection coil with List Price adder.</p> <p>Note: The LVP option for Open type 3RV is available from the factory, please order separately from the field modification kits on page 9/99.</p> <p>The coil voltage should correspond with the line voltage.</p>	60 Hz Voltage	Letter	120V	*F	208V	*D	240V	*G	460V	*H
	60 Hz Voltage	Letter										
120V	*F											
208V	*D											
240V	*G											
460V	*H											

Manual Starter—Class 11 - 3RV

FLA Adjustment Range ^①	Max HP						Enclosure							
	Single Phase HP Ratings		3-Phase HP Ratings				Open Type		NEMA 1 General Purpose		NEMA 7 & 9 Class I Groups C & D Class II Groups E, F & G		NEMA 3 & 4, NEMA 7 & 9 ^④ Watertight (Outdoor use) Class I Groups C & D Class II Groups E, F & G	
	115V	230V	200V	230V	460V	575V	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
0.11-0.16	—	—	—	—	—	—	3RV1021-0AA10 ^②		11AD3B		11AD3H		11AD3W	
0.14-0.2	—	—	—	—	—	—	3RV1021-0BA10 ^②		11BD3B		11BD3H		11BD3W	
0.18-0.25	—	—	—	—	—	—	3RV1021-0CA10 ^②		11CD3B		11CD3H		11CD3W	
0.22-0.32	—	—	—	—	—	—	3RV1021-0DA10 ^②		11DD3B		11DD3H		11DD3W	
0.28-0.4	—	—	—	—	—	—	3RV1021-0EA10 ^②		11ED3B		11ED3H		11ED3W	
0.35-0.5	—	—	—	—	—	—	3RV1021-0FA10 ^②		11FD3B		11FD3H		11FD3W	
0.45-0.63	—	—	—	—	—	—	3RV1021-0GA10 ^②		11GD3B		11GD3H		11GD3W	
0.55-0.8	—	—	—	—	—	½	3RV1021-0HA10 ^②		11HD3B		11HD3H		11HD3W	
0.7-1	—	—	—	—	½	½	3RV1021-0JA10 ^②		11JD3B		11JD3H		11JD3W	
0.9-1.25	—	—	—	—	¾	¾	3RV1021-0KA10 ^②		11KD3B		11KD3H		11KD3W	
1.1-1.6	—	⅓	—	—	¾	1	3RV1021-1AA10 ^②		11LD3B		11LD3H		11LD3W	
1.4-2	—	½	—	—	1	1 ½	3RV1021-1BA10 ^②		11MD3B		11MD3H		11MD3W	
1.8-2.5	—	¾	½	½	1 ½	1 ½	3RV1021-1CA10 ^②		11ND3B		11ND3H		11ND3W	
2.2-3.2	⅓	¾	¾	¾	1 ½	2	3RV1021-1DA10 ^②		11PD3B		11PD3H		11PD3W	
2.8-4	½	1	1	1	2	3	3RV1021-1EA10 ^②		11QD3B		11QD3H		11QD3W	
3.5-5	¾	1 ½	1	1	3	3	3RV1021-1FA10 ^②		11RD3B		11RD3H		11RD3W	
4.5-6.3	1	2	1 ½	1 ½	5	5	3RV1021-1GA10 ^②		11SD3B		11SD3H		11SD3W	
5.5-8	1 ½	3	2	2	5	5	3RV1021-1HA10 ^②		11TD3B		11TD3H		11TD3W	
7-10	2	4	3	3	7 ½	10	3RV1021-1JA10 ^②		11UD3B		11UD3H		11UD3W	
9-12.5	2 ½	5	3	3	7 ½	10	3RV1021-1KA10 ^②		11VD3B		11VD3H		11VD3W	
11-16	3	6	5	5	10	15 ^③	3RV1021-4AA10 ^②		11WD3B		11WD3H		11WD3W	
14-20	4	8	5	5	15	20 ^③	3RV1021-4BA10 ^②		11XD3B		11XD3H		11XD3W	
17-22	5	10	7 ½	7 ½	15	20 ^③	3RV1021-4CA10 ^②		11YD3B		11YD3H		11YD3W	
20-25	6	12	7 ½	7 ½	15	20 ^③	3RV1021-4DA10 ^②		11ZD3B		11ZD3H		11ZD3W	

Manual Switch—Class 11 - 3RV

Rated Current ^①	Max HP						Enclosure							
	Single Phase HP Ratings		3-Phase HP Ratings				Open Type		NEMA 1 General Purpose		NEMA 7 & 9 Class I Groups C & D Class II Groups E, F & G		NEMA 3 & 4, NEMA 7 & 9 Watertight Class I Groups C & D Class II Groups E, F & G	
	115V	230V	200V	230V	460V	575V	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1	—	—	—	—	½ ^③	½ ^③	3RV1321-0JC10 ^②		111D3B		111D3H		111D3W	
5	½ ^③	1 ^③	1 ^③	1 ^③	3 ^③	3 ^③	3RV1321-1FC10 ^②		112D3B		112D3H		112D3W	
10	1 ^③	2 ^③	3 ^③	3 ^③	7 ½ ^③	10 ^③	3RV1321-1JC10 ^②		113D3B		113D3H		113D3W	
20	2 ^③	4 ^③	5 ^③	5 ^③	15 ^③	20 ^③	3RV1321-4BC10 ^②		114D3B		114D3H		114D3W	
25	2 ½ ^③	5 ^③	7 ½ ^③	7 ½ ^③	15 ^③	20 ^③	3RV1321-4DC10 ^②		115D3B		115D3H		115D3W	

① Instantaneous Magnetic Trip will occur at 13 times the maximum FLA dial setting or rated switch current.
② Product Category: IEC

③ Shaded Ratings apply for Manual Motor Controllers Only! These Ratings do not apply as UL Listed Manual Combination Starters.

④ Add 1 to the end of the catalog number for 1/2 inch drain hole with plug and list price adder. Drain fitting not supplied, order separately XDB-2.