

Now Available with the New 3RV2 Innovations MSP

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.

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

 <p>Class 11 Manual Motor Starter</p>	<p><b>Ordering Information</b></p> <ul style="list-style-type: none"> <li>▶ No heaters required.</li> <li>▶ Field Modification Kits see page 17-100.</li> <li>▶ Dimensions see page 17-128.</li> <li>▶ Wiring Diagrams see page 17-155.</li> <li>▶ For applications requiring a low voltage protection coil see table at right.</li> </ul>	<p><b>Low Voltage Protection Coil Table</b></p> <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 <sup>①</sup>	Max HP						Enclosure			
	Single Phase HP Ratings		3-Phase HP Ratings				Open Type		NEMA 1 General Purpose	
	115V	230V	200V	230V	460V	575V	Catalog No.	List Price \$	Catalog No.	List Price \$
0.11-0.16	—	—	—	—	—	—	3RV2011-0AA10 <sup>②</sup>		11AD3B	
0.14-0.2	—	—	—	—	—	—	3RV2011-0BA10 <sup>②</sup>		11BD3B	
0.18-0.25	—	—	—	—	—	—	3RV2011-0CA10 <sup>②</sup>		11CD3B	
0.22-0.32	—	—	—	—	—	—	3RV2011-0DA10 <sup>②</sup>		11DD3B	
0.28-0.4	—	—	—	—	—	—	3RV2011-0EA10 <sup>②</sup>		11ED3B	
0.35-0.5	—	—	—	—	—	—	3RV2011-0FA10 <sup>②</sup>		11FD3B	
0.45-0.63	—	—	—	—	—	—	3RV2021-0GA10 <sup>②</sup>		11GD3B	
0.55-0.8	—	—	—	—	—	½	3RV2021-0HA10 <sup>②</sup>		11HD3B	
0.7-1	—	—	—	—	½	½	3RV2021-0JA10 <sup>②</sup>		11JD3B	
0.9-1.25	—	—	—	—	¾	¾	3RV2021-0KA10 <sup>②</sup>		11KD3B	
1.1-1.6	—	⅓	—	—	¾	1	3RV2021-1AA10 <sup>②</sup>		11LD3B	
1.4-2	—	½	—	—	1	1 ½	3RV2021-1BA10 <sup>②</sup>		11MD3B	
1.8-2.5	—	½	½	½	1 ½	1 ½	3RV2021-1CA10 <sup>②</sup>		11ND3B	
2.2-3.2	⅓	¾	¾	¾	1 ½	2	3RV2021-1DA10 <sup>②</sup>		11PD3B	
2.8-4	½	1	1	1	2	3	3RV2021-1EA10 <sup>②</sup>		11QD3B	
3.5-5	½	1 ½	1 ½	1 ½	3	3	3RV2021-1FA10 <sup>②</sup>		11RD3B	
4.5-6.3	¾	2	2	2	5	5	3RV2021-1GA10 <sup>②</sup>		11SD3B	
5.5-8	1	3	3	3	5	5	3RV2021-1HA10 <sup>②</sup>		11TD3B	
7-10	1 ½	3	3	3	7 ½	10	3RV2021-1JA10 <sup>②</sup>		11UD3B	
9-12.5	2	3	3	3	7 ½	10	3RV2021-1KA10 <sup>②</sup>		11VD3B	
11-16	2	3	5	5	10	15 <sup>③</sup>	3RV2021-4AA10 <sup>②</sup>		11WD3B	
14-20	3	3	5	7 ½	15	20 <sup>③</sup>	3RV2021-4BA10 <sup>②</sup>		11XD3B	
17-22	3	3	7 ½	7 ½	15	20 <sup>③</sup>	3RV2021-4CA10 <sup>②</sup>		11YD3B	
20-25	3 <sup>③</sup>	5 <sup>③</sup>	7 ½ <sup>③</sup>	7 ½ <sup>③</sup>	15 <sup>③</sup>	20 <sup>③</sup>	3RV2021-4DA10 <sup>②</sup>		11ZD3B	

**Manual Switch—Class 11 - 3RV**

Rated Current <sup>①</sup>	Max HP						Enclosure			
	Single Phase HP Ratings		3-Phase HP Ratings				Open Type		NEMA 1 General Purpose	
	115V	230V	200V	230V	460V	575V	Catalog No.	List Price \$	Catalog No.	List Price \$
1	—	—	—	—	½ <sup>③</sup>	½ <sup>③</sup>	3RV2321-0JC10 <sup>②</sup>		111D3B	
5	½ <sup>③</sup>	1 <sup>③</sup>	1 <sup>③</sup>	1 <sup>③</sup>	3 <sup>③</sup>	3 <sup>③</sup>	3RV2321-1FC10 <sup>②</sup>		112D3B	
10	1 <sup>③</sup>	1 ½ <sup>③</sup>	3 <sup>③</sup>	3 <sup>③</sup>	7 ½ <sup>③</sup>	10 <sup>③</sup>	3RV2321-1JC10 <sup>②</sup>		113D3B	
20	1 ½ <sup>③</sup>	3 <sup>③</sup>	5 <sup>③</sup>	7 ½ <sup>③</sup>	15 <sup>③</sup>	20 <sup>③</sup>	3RV2321-4BC10 <sup>②</sup>		114D3B	
25	2 <sup>③</sup>	5 <sup>③</sup>	7 ½ <sup>③</sup>	7 ½ <sup>③</sup>	15 <sup>③</sup>	20 <sup>③</sup>	3RV2321-4DC10 <sup>②</sup>		115D3B	

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.