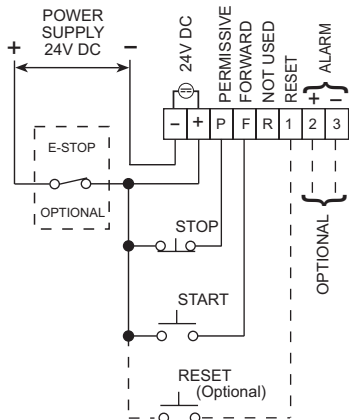


## NEMA

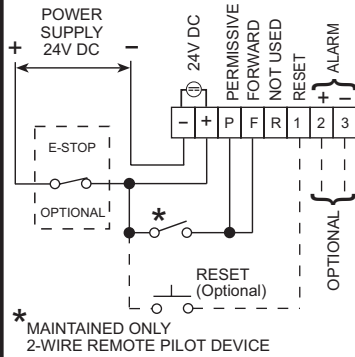
## Non-Reversing Starter

## Size 3 &amp; 4

## 3-Wire Control



## 2-Wire Control



## CONTROL POWER / 24 VOLTS DC ONLY

## POWER REQUIRED PER DEVICE @ 20°C (68°F)

Inrush: 140 watts, 5.8 amps, 85 msec duration  
Sealed: 5.6 watts, 0.23 amps

At other temperatures (T) in °C  

$$\left. \begin{aligned} \text{Watts} &= W_{20} [1.1 - .005(T)] \\ \text{Amps} &= A_{20} [1.1 - .005(T)] \end{aligned} \right\} \begin{array}{l} \text{Inrush} \\ \text{or} \\ \text{Sealed} \end{array}$$

Example: Inrush watts @ -25°C  
 $140 [1.1 - .005(-25)] = 172 \text{ watts}$

## 24V DC POWER SUPPLY REQUIRED

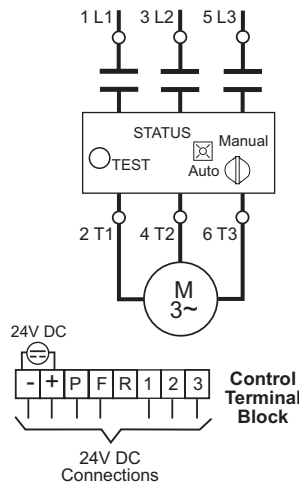
Select supply based on power required per device  
Recommend Cutler-Hammer PS Series

## 24V DC CONTROLS REQUIRED

24V DC, 3-5mA  
Recommend Cutler-Hammer Logic Level Series or contact blocks with reliability "nibs".

## ALARM OUTPUT (optional)

Open collector or emitter type  
24V DC @ 0.25 amps



**Note:** Remove Line Side Lug Cover before wiring of L1, L2, & L3.

**DISCONNECT AC POWER BEFORE WORKING ON THIS PRODUCT**

## AUXILIARY CONTACTS

Max. Qty.	Cat. No.	Description
3	EMA13	1 N.O.
3	EMA14	1 N.C.
3	EMA15	1 N.O. - 1 N.C.
3	EMA16	2 N.O.
3	EMA17	2 N.C.
3	EMA70	1 N.O.-1 N.C. (Logic)

## CONTROL TERMINAL BLOCK

Wire	- +	P F 1 2 3
1 per Terminal	1.5 - 2.5mm <sup>2</sup> [14 - 12 Awg]	0.5 - 2.5mm <sup>2</sup> [22 - 12 Awg]
2 per Terminal	1.5mm <sup>2</sup> [14 Awg]	0.75 - 1.5mm <sup>2</sup> [18 - 14 Awg]
Strip Length	Driver	Torque (Max.)
7mm [0.27 in]	3.5mm [1/8 in]	0.5 N-m [4.5 LB-IN]

## CONTROL CIRCUIT FUSEHOLDER




Cat. No. C320FB or C320FBR

## L1, L2, L3 / T1, T2, T3

75°C Copper Wire only

## MOUNTING HOLES

(4) Screws: M4 x 40mm or #8 x 1.5 in	105mm [4.13 in] 33.8mm [1.33 in]
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1 Wire per Terminal	16 - 120mm <sup>2</sup> [6 - 250 MCM]	
2 Wires per Terminal	16 - 70mm <sup>2</sup> [6 - 3/0 Awg]	
Strip Length	Driver	Torque (Max.)
 21mm [0.8 in]	 Hex Key 8mm [5/16 in]	 28 N-m [250 LB-IN]

## AMBIENT TEMPERATURE

Operating: -40°C to 65°C [-40°F to 149°F]  
Storage: -50°C to 80°C [-58°F to 176°F]

## SHORT CIRCUIT WITHSTAND RATING

## UL 508 and CSA C22.2 No. 14-95

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10000 rms SYMMETRICAL AMPERES, 600 VOLTS MAXIMUM WHEN PROTECTED BY CLASS K5 FUSES (SIZE 4 MAXIMUM FUSE SIZE 350A) OR INVERSE-TIME CIRCUIT BREAKERS (THERMAL MAGNETIC).