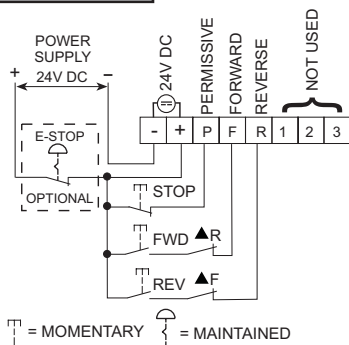


## IEC

## Reversing Contactor

B - Frame  
45mm

## 3-Wire Control



## ▲ FORWARD - STOP - REVERSE

Optional auxiliaries R & F are needed if a stop command is required before changing the motor direction.

R = N.C. logic level auxiliary contact (EMA70) attached to the reversing contactor.

F = N.C. logic level auxiliary contact (EMA70) attached to the forward contactor.

## CONTROL POWER / 24 VOLTS DC ONLY

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

Inrush: 80 watts, 3.3 amps, 50 msec duration  
Sealed: 3.2 watts, 0.13 amps

At other temperatures (T) in °C

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

$$\text{Amps} = A_{20}[1.1 - .005(T)]$$

Example: Inrush watts @ -25°C

$$80[1.1 - .005(-25)] = 98 \text{ watts}$$

## 24V DC POWER SUPPLY REQUIRED

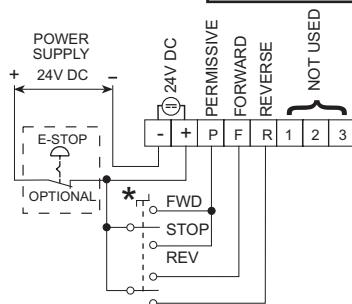
Select supply based on power required per device  
Recommend Cutler-Hammer PS Series

## 24V DC CONTROLS REQUIRED

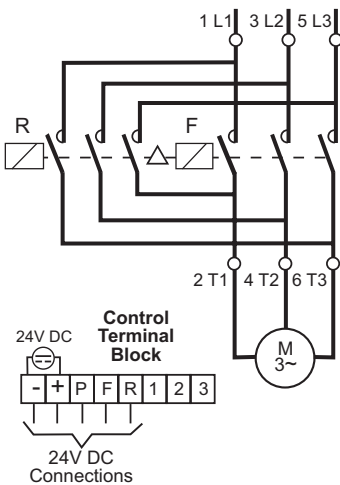
24V DC, 3-5mA

Recommend Cutler-Hammer Logic Level Series or contact blocks with reliability "nibs".

## 2-Wire Control



\* MAINTAINED ONLY  
2-WIRE REMOTE PILOT DEVICES



**Note:** Remove Control Terminal Block before wiring of T1, T2, & T3.

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

## AUXILIARY CONTACTS

## CONTROL TERMINAL BLOCK

Max. Qty.	Cat. No.	Description	Wire	- +	P F R
6	EMA13	1 N.O.	1 per Terminal	1.5 - 2.5mm <sup>2</sup> [14 - 12 Awg]	0.5 - 2.5mm <sup>2</sup> [22 - 12 Awg]
6	EMA14	1 N.C.	2 per Terminal	1.5mm <sup>2</sup> [14 Awg]	0.75 - 1.5mm <sup>2</sup> [18 - 14 Awg]
4	EMA15	1 N.O. - 1 N.C.	Strip Length	Driver	Torque (Max.)
4	EMA16	2 N.O.			
4	EMA17	2 N.C.	7mm [0.27 in]	3.5mm [1/8 in]	0.5 N-m [4.5 LB-IN]
4	EMA70	1 N.O.-1 N.C. (Logic)			

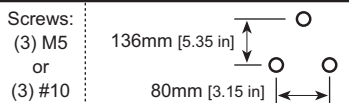
## CONTROL CIRCUIT FUSEHOLDER

Cat. No. C320FB or C320FBR

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

75°C Copper Wire only

## MOUNTING HOLES



1 Wire per Terminal 1.5 - 10mm<sup>2</sup> [14 - 8 Awg]

2 Wires per Terminal 1.5 - 4mm<sup>2</sup> [14 - 10 Awg]

Strip Length	Driver	Torque per Wire (Max.)	Wire Range
		2.2 N-m [20 LB-IN]	1.5 - 6mm <sup>2</sup> [14-10 Awg]
11mm [0.45 in]	Hex Key 2.5mm	2.8 N-m [25 LB-IN]	10mm <sup>2</sup> [8 Awg]

## AMBIENT TEMPERATURE

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

## TYPE 1 SHORT CIRCUIT WITHSTAND RATING

IEC 60947-4-1, EN 60947-4-1, CE

	Maximum Value	Maximum Breaker Cutler-Hammer	Maximum Fuse Ferraz-Shawmut
$I_r$	3000A @ 480V 3000A @ 600V	FW3125L - 125A - 690V FW3080L - 80A - 690V	OTS125 K5 - 125A - 600V OTS80 K5 - 80A - 600V

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

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 5000 rms SYMMETRICAL AMPERES, 600 VOLTS MAXIMUM WHEN PROTECTED BY CLASS K5-FUSES, TIME DELAY FUSES PER NEC/CEC OR INVERSE-TIME CIRCUIT BREAKERS (THERMAL MAGNETIC).