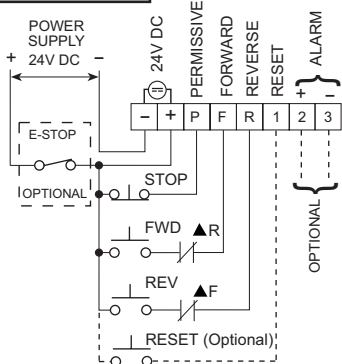


NEMA

Reversing Starter

Size 3 & 4

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: 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

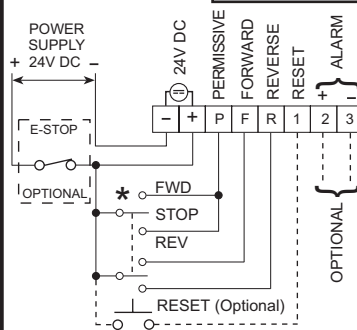
Recommend Cutler-Hammer Logic Level Series or contact blocks with reliability "nibs".

ALARM OUTPUT (optional)

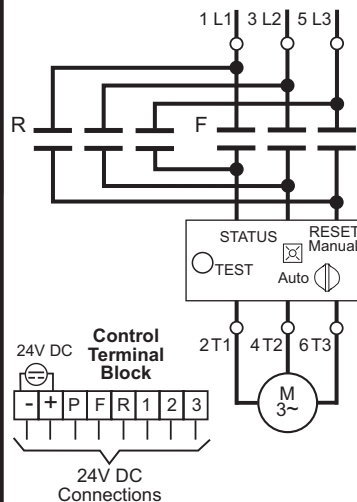
Open collector or emitter type
24V DC @ 0.25 amps



2-Wire Control



* MAINTAINED ONLY
2-WIRE REMOTE PILOT DEVICE



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
6	EMA13	1 N.O.
6	EMA14	1 N.C.
6	EMA15	1 N.O. - 1 N.C.
6	EMA16	2 N.O.
6	EMA17	2 N.C.
6	EMA70	1 N.O.-1 N.C. (Logic)

CONTROL TERMINAL BLOCK

Wire	- +	P F R 1 2 3
1 per Terminal	1.5 - 2.5mm ² [14 - 12 Awg]	0.5 - 2.5mm ² [22 - 12 Awg]
2 per Terminal	1.5mm ² [14 Awg]	0.75 - 1.5mm ² [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]

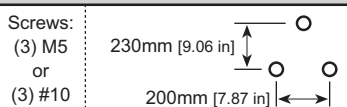
CONTROL CIRCUIT FUSEHOLDER

Cat. No. C320FB or C320FBR

L1, L2, L3 / T1, T2, T3




75°C Copper Wire only

MOUNTING HOLES



AMBIENT TEMPERATURE

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

1 Wire per Terminal	16 - 120mm ² [6 - 250 MCM]	
2 Wires per Terminal	16 - 70mm ² [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]

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).