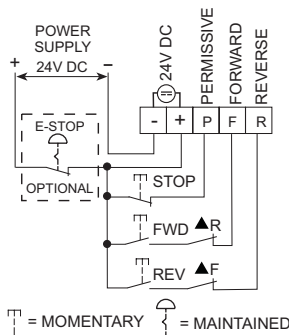


IEC

Reversing Contactor

A - Frame
27mm

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: 20 watts, 0.83 amps, 30 msec duration
Sealed: 1.3 watts, 0.054 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

$$20[1.1 - .005(-25)] = 25 \text{ watts}$$

24V DC POWER SUPPLY REQUIRED

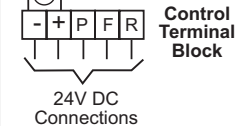
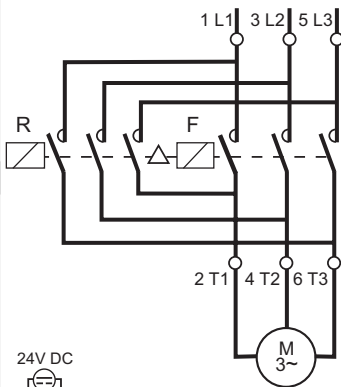
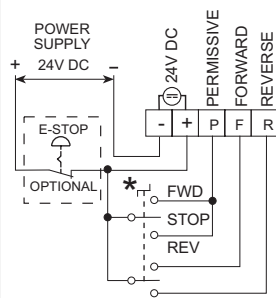
Select supply based on power required per device
Recommend Cutler-Hammer PS Series

24V DC CONTROLS REQUIRED

24V DC, 3-5mA

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

2-Wire Control



DISCONNECT AC POWER BEFORE WORKING ON THIS PRODUCT

AUXILIARY CONTACTS

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

CONTROL TERMINAL BLOCK

Wire	- +	P F R
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 / DIN RAIL

Screws:	
(3) M4	64mm [2.52 in]
or	
(3) #8	33.2mm [1.31 in]

1 Wire per Terminal	1.5 - 2.5mm ² [16 - 12 Awg]	
2 Wires per Terminal	1.5 - 2.5mm ² [16 - 12 Awg]	
Strip Length	Driver	Torque (Max.)
 8mm [0.32 in]	 PZ1 or  5mm [3/16 in]	 2 N-m [18 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]

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
'r'	1000A @ 415V	WMN3D32 - 32A - 415V	---
	1000A @ 480V	---	OTS45 K5 - 45A - 600V
	1000A @ 600V	FWF3032L - 32A - 600V	OTS35 K5 - 35A - 600V

UL 508

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 OR INVERSE-TIME CIRCUIT BREAKERS (THERMAL MAGNETIC).

SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 5000 rms SYMMETRICAL AMPERES, 480 VOLTS MAXIMUM WHEN PROTECTED BY CLASS K5-FUSES, TIME DELAY FUSES PER CEC OR INVERSE-TIME CIRCUIT BREAKERS (THERMAL MAGNETIC).

600 VOLT APPLICATIONS - FUSES ONLY.