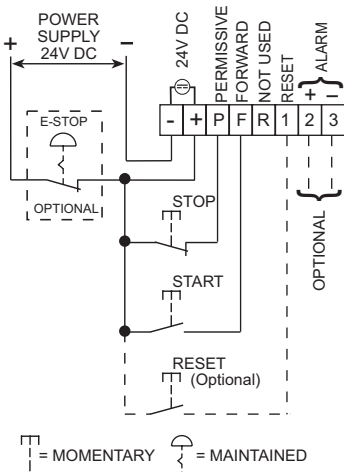


IEC

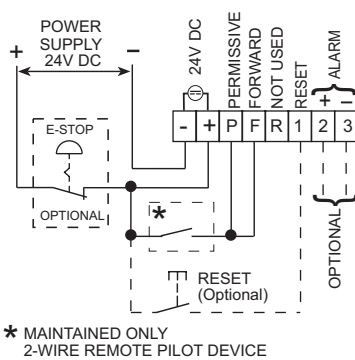
Non - Reversing Starter

C - Frame
54mm

3-Wire Control



2-Wire Control



CONTROL POWER / 24 VOLTS DC ONLY

POWER REQUIRED PER DEVICE @ 20°C (68°F)
 Inrush: 90 watts, 3.8 amps, 50 msec duration
 Sealed: 3.6 watts, 0.15 amps

At other temperatures (T) in °C
 $Watts = W_{20}[1.1 - .005(T)]$
 $Amps = A_{20}[1.1 - .005(T)]$

Example: Inrush watts @ -25°C
 $90[1.1 - .005(-25)] = 110 \text{ watts}$

24V DC POWER SUPPLY REQUIRED

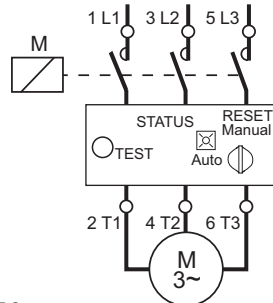
Select supply based on power required per device
 Recommend Cutler-Hammer PS Series

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



24V DC
Connections

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

**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.
2	EMA15	1 N.O. - 1 N.C.
2	EMA16	2 N.O.
2	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 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]

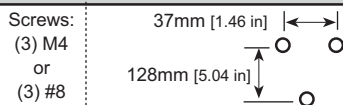
CONTROL CIRCUIT FUSEHOLDER

Cat. No. C320FB or C320FBR

L1, L2, L3 / T1, T2, T3

75°C Copper Wire only

MOUNTING HOLES / DIN RAIL



1 Wire per Terminal	1.5 - 16mm ² [14 - 4 Awg]	Torque per Wire (Max.)	Range
2 Wires per Terminal	1.5 - 16mm ² [14 - 6 Awg]	4.0 N-m [35 LB-IN]	1.5 - 6mm ² [14-10 Awg]
Strip Length	Driver	4.5 N-m [40 LB-IN]	10mm ² [8 Awg]
12mm [0.5 in]	Hex Key 3mm	5.0 N-m [45 LB-IN]	16mm ² [6-4 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'	3000A @ 480V 3000A @ 600V	FW3200L - 200A - 690V FW3125L - 125A - 690V	OTS125 K5 - 125A - 600V OTS125 K5 - 125A - 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).