rev	change date	revision	name
A	12.29.17	B5B02 with monitor circuit	DJG

naming

scale NONE

dwn by: BJW

Date 10.20.2014

material no .

ind

material

Wiring Diagram

1/2/2018 3:28 PM

ProMation

WD-850-B4B03

On/Off wiring diagram for 120VAC PB(O) CCW Spring Return with internal dry contact Motor thermo-switch monitor (MTC).

WD-850-B4B03.dwg

REV A

0° - 5° *
5° - 90° *
COM *
85° - 90° *
0° - 85° *
COM *
* CONNECTIONS OPTIONAL

ACL ANC ACC AOP ANO AOC

F BLK16
E BRN16
D WHT16
C GRY16
B BLU16
A RED16

AS4 RED CAM NO COM NC
AS3 GRN CAM NO COM NC

AUXILIARY SWITCH (STANDARD)
AUXILIARY SWITCH (STANDARD)

SPRING RTN (FULL CCW)
LOAD SPRING (FULL CW)
-5° 0° 5° 85° 90° 95°
F
E
D COM SW4
C
B
A COM SW3

Thermal Circuit Dry Contact

Open - Motor internal temperature is over 125C. Motor will continue to run unless power is interupted

Closed - Motor internal temperature is less than 125C.

15W 6K8 HEATER
7 WHT16
6
5
4
3 BLU16
1 RED16
HOT DRV NEU

FIELD CONTROL DEVICE
LOAD
H
N
120VAC LINE IN
GND
GND Screw

LS2 NO COM RED CAM NC
GRY22 NON POLARIZED

LS1 NO COM GRN CAM NC
BLU22 NON POLARIZED

RED16
WHT16
WHT22 - NOT POLARIZED
24VDC Brake
BLU16
GRY16
RED16
THERMAL DRY CONTACT SWITCH
Capacitor
M
120V AC DRIVE MOTOR
4 3 2 1
250V 6.3A 5x20 FB
SA176H 408-30278
120/230:24VDC DCPS (perm attach to base PCB)
J1 J2 J3
LD2 LD1 LD3 LD4 U2

LED1 - Power

LED3 - Fully OPEN Position

LED 2 - Driving in the LOAD Direction.

LED 4 - In Spring Return and Restart Delay after Power Trip.

FIELD WIRING

INTERNAL ACTUATOR WIRING

OPEN showing in indicator window = FULLY LOADED (CW)

CLOSED showing in indicator window = FULL SPRING RTN (CCW)

Actuator ships in the fully UNLOADED (CCW) position!

AS4 RED
AS3 GRN
LS2 RED
LS1 GRN
GRY22 TO J1
BLU22 TO J3
Switch Stack Detail

Use For:

PB/PBO-CCW-1202S4-MTC

ProMation Engineering, Inc.
16138 Flight Path Drive
Brooksville, FL 34604
Ph:352-544-8436 Fx(352-544-8439

This document is the property of ProMation Engineering, Inc.
Distribution of this document without the written consent of the owner is strictly forbidden.
Failure to comply will incur a liability for damages.