rev	change date	revision	name
A	01.18.19	DSB02 B – changed Voltage	DJG

naming . | material no . | ind | material Wiring Diagram

ProMation

4/1/2019 5:48 PM

scale NONE

dwn by: BJW | Date 4.19.2012

WD-850-D4B02 A

On/Off wiring diagram for 120VAC PD(O) CCW Spring Return with internal motor thermo-switch bypass out (BTC).

WD-850-D4B02 A.dwg

REV **A**

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

ACL F
ANC E
ACC D
AOP C
ANO B
AOC A

BLK
BRN
WHT
GRY
BLU
RED

AUXILIARY SWITCH (STANDARD)

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

SPRING RTN (FULL CCW) -5° 0° 5°
LOAD SPRING (FULL CW) 85° 90° 95°

F COM SW4
E
D
C
B
A COM SW3

Thermal Circuit Dry Contact

Open - Thermal Overload Circuit is functional and motor will stop due to Motor Over Temperature

Closed - Thermal Overload Circuit is bypassed Motor will NOT stop running due to Motor Over Temperature

THERMAL SWITCH

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

FIELD CONTROL DEVICE LOAD

120VAC LINE IN
H
N
GND

GND Screw

WHT16
WHT22 - NOT POLARIZED
24VDC Brake
GRY16
Capacitor
M
120V AC DRIVE MOTOR
THERMAL SWITCH
GRY16
RED16
RED16

SA176H 408-30278
4 3 2 1
250V 6.3A 5x20 FB
120/230:24VDC DCPS (perm attach to base PCB)
J1 J2 J3
LD1 LD2 LD3 LD4
U2

LS2 NO, COM, RED CAM, NC
GRY22 NON POLARIZED

LS1 NO, COM, GRN CAM, NC
BLU22 NON POLARIZED

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:

PD/PDO-CCW-1202S4-BTC

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