

TITLE:
W/W size-340 208-230/60/3 460/60/3 575/60/3 380-420/50/3 DXM + WSHP

FIC:
21-0314

DATE:
6/28/21

DRAWING NO.:

96B0107N20

REV.:

A

LEGEND

FACTORY LINE VOLTAGE WIRING
FACTORY LOW VOLTAGE WIRING
FIELD LINE VOLTAGE WIRING
FIELD LOW VOLTAGE WIRING
PRINTED CIRCUIT TRACE
RELAY CONTACTOR COIL
SOLENOID COIL
THERMISTOR
GROUND

INDICATOR LIGHT
G=GREEN, R=RED
(COMP ON) (ALARM LIGHT)

WIRE NUT
MATE-N-LOCK
CIRCUIT BREAKER
HIGH PRESSURE SWITCH
HIGH PRESSURE WATER SWITCH
LOW PRESSURE SWITCH
TEMPERATURE SWITCH
POSITIVE TEMPERATURE COEFFICIENT RELAY
FUSE
SPLICE CAP

AL

ALARM RELAY CONTACTS

CB

CIRCUIT BREAKER

CC

COMPRESSOR CONTACTOR

FPI

SENSOR, SOURCE LOW TEMP. PROTECTION

FP2

SENSOR, LOAD LOW TEMP. PROTECTION

HP

HIGH PRESSURE SWITCH

LOC

LOSS OF CHARGE PRESSURE SWITCH

JW4

JUMPER WIRE FOR ALARM

PI

FIELD WIRING TERMINAL BLOCK

PDB

POWER DISTRIBUTION BLOCK

RVS

REVERSING VALVE SOLENOID

TRANS

TRANSFORMER

*

OPTIONAL

NOTES:

1.

COMPRESSOR MOTOR THERMALLY PROTECTED INTERNALLY.

2.

ALL WIRING TO THE UNIT MUST COMPLY WITH NEC AND LOCAL CODES.

3.

POWER SUPLY: 460V,575V, & 380-420V - TRANS IS FACTORY WIRED FOR 460V,575V & 380V POWER SUPPLY WITH WIRE LEAD COLORS AS SHOWN IN THE CHART.
FOR 380-420V UNITS WITH 420V POWER SUPPLY DISCONNECT VIO TRANS LEAD AT LI AND CONNECT BRN LEAD IN PLACE OF IT.
THE TRANSFORMER IS 75VA AND IS PROTECTED WITH A CIRCUIT BREAKER IN THE SECONDARY CIRCUIT.

4.

POWER SUPLY: 208-230V - TRANS IS FACTORY WIRED FOR 208V POWER SUPPLY.
FOR 230V POWER SUPPLY, DISCONNECT RED LEAD AT H2 AND RECONNECT IT AT H3.
THE TRANSFORMER IS I50VA AND IS PROTECTED WITH PRIMARY & SECONDARY FUSES.

5.

FPI THERMISTOR PROVIDES LOW TEMP PROTECTION FOR SOURCE WATER.
WHEN USING ANTI-FREEZE SOLUTIONS, CUT JW3 JUMPER.

6.

24V ALARM SIGNAL SHOWN.
FOR DRY CONTACT, CUT JWI AND DRY CONTACT ALARM WILL BE AVAILABLE BETWEEN ALI & AL2.

7.

TRANSFORMER SECONDARY GROUND VIA GRN/YEL WIRE FROM BOARD C TO CONTROL BOX.

8.

SUFFIX I DESIGNATES ASSOCIATION WITH LEAD COMPRESSOR, SUFFIX 2 WITH LAG COMPRESSOR.
EXCEPTION ALI, AL2, FPI, FP2 ARE PER LEGEND.

9.

REFER TO MPC, LON, OR TSTAT INSTALLATION, APPLICATION, AND OPERATION MANUAL FOR CONTROL WIRING TO THE UNIT.
LOW VOLTAGE WIRING MUST BE "CLASS I" AND VOLTAGE RATED EQUAL OR GREATER THAN UNIT SUPPLY VOLTAGE.

DXM CONTROLLER FAULT CODES				
OPERATION	STATUS LED (GREEN)	TEST LED (YELLOW)	FAULT LED (RED)	ALARM RELAY
NORMAL MODE	ON	OFF	NOTE:2	OPEN
DXM IS NON-FUNCTIONAL	OFF	OFF	OFF	OPEN
TEST MODE	-	ON	NOTE:2	CYCLE (Note 3)
NIGHT SETBACK	FLASHING CODE 2	-	NOTE:2	-
EMERGENCY SHUT DOWN	FLASHING CODE 3	-	NOTE:2	-
INVALID T-STAT INPUTS	FLASHING CODE 4	-	NOTE:2	-
NO FAULT IN MEMORY	ON	OFF	FLASHING CODE 1	OPEN
HP: FAULT / (LOCKOUT) NOTE: 1	SLOW FLASH/ (FAST FLASH)	OFF	FLASHING CODE 2	OPEN / (CLOSED)
LP: FAULT / (LOCKOUT) NOTE: 2	SLOW FLASH/ (FAST FLASH)	OFF	FLASHING CODE 3	OPEN / (CLOSED)
FPI: FAULT / (LOCKOUT) NOTE: 1	SLOW FLASH/ (FAST FLASH)	OFF	FLASHING CODE 4	OPEN / (CLOSED)
FP2: FAULT / (LOCKOUT) NOTE: 1	SLOW FLASH/ (FAST FLASH)	OFF	FLASHING CODE 5	OPEN / (CLOSED)
CO: FAULT / (LOCKOUT) NOTE: 1	SLOW FLASH/ (FAST FLASH)	OFF	FLASHING CODE 6	OPEN / (CLOSED)
OVER-UNDER VOLTAGE	SLOW FLASH	OFF	FLASHING CODE 7	OPEN(NOTE4)
NORMAL MODE w/UPS	ON	OFF	FLASHING CODE 8	CYCLE (NOTE5)
SWAPPED FPI/FP2 LOCKOUT	FAST FLASH	OFF	FLASHING CODE 9	CLOSED

1. STATUS LED (GREEN) : SLOW FLASH - CONTROLLER IN FAULT RETRY MODE, FAST FLASH - CONTROLLER IN LOCKOUT MODE SLOW FLASH = 1 FLASH PER EVERY 2 SECONDS. FAST FLASH = 2 FLASHESS PER EVERY 1 SECOND.

2. FAULT LED (RED) FLASHES A CODE REPRESENTING LAST FAULT IN MEMORY. IF NO FAULT IN MEMORY, CODE 1 IS FLASHED.

3. CYCLES APPROPRIATE CODE, BY CYCLING ALARM RELAY IN THE SAME SEQUENCE AS FAULT LED.

4. ALARM RELAY CLOSES AFTER I5 MINUTES.

5. ALARM RELAY CYCLES : CLOSED FOR 5 SECONDS AND OPEN FOR 25 SECONDS. . . .

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