

NO THREE PHASE WIRING SHALL ENTER OR LEAVE QUANTUM PANEL OR BE RUN IN SAME CONDUIT AS ANY QUANTUM CONTROL WIRING ENTERING OR LEAVING QUANTUM CONTROL PANEL.

NO SINGLE PHASE OVER 300VAC SHALL ENTER OR LEAVE QUANTUM PANEL

ALL QUANTUM WIRING TO BE #16 AWG STRANDED WIRE UNLESS OTHERWISE STATED

ALL NEUTRAL (EXP: 2 & 2A) WIRING TO BE WHITE UNLESS OTHERWISE STATED

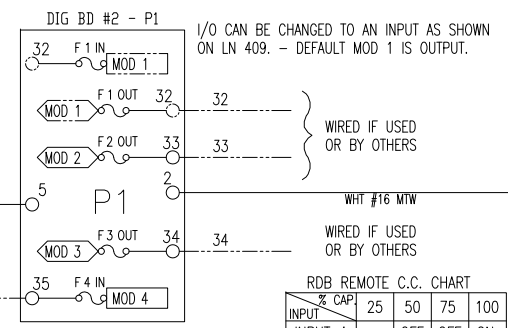
FOR INSTALLATION OF QUANTUM PACKAGE TEST PROCEDURE SEE MMIB NO. 4.11.10.12

FOR INSTALLATION OF COMPUTER BOARDS & EPROMS SEE MMIB NO. 4.11.10.11

FOR HIGH POT TEST PROCEDURE SEE MMIB NO. 4.11.10.7

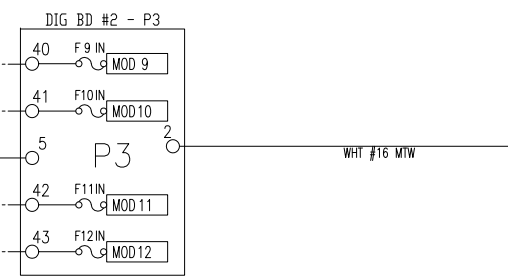
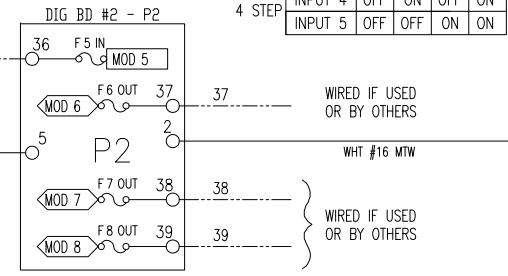
FOR QUANTUM ASSEMBLY AND TEST PROCEDURE SEE MMIB NO. 4.11.10.14

ALL DIGITAL I/O BOARDS ARE STOCKED AS DIGITAL BOARD #1
REFER TO QUANTUM IOM TO CONFIGURE DP1 AND FUSES FOR DIGITAL BOARD #2.



RDB REMOTE C.C. CHART

INPUT	% CAP	25	50	75	100
INPUT 4	-	OFF	OFF	ON	ON
INPUT 5	-	OFF	ON	OFF	ON
INPUT 4	OFF	ON	OFF	ON	ON
INPUT 5	OFF	OFF	ON	ON	ON



NOTE 1:
A SURGE SUPPRESSOR SHALL BE INSTALLED ACROSS ALL INDUCTIVE LOADS IN QUANTUM AND IF SHOWN, ON DEVICES OUTSIDE OF QUANTUM.

SURGE SUPPRESSOR

SUPPRESSOR SPECIFICATIONS:
RC NETWORK CONSISTING OF A 0.1 uFD CAPACITOR 600VDC IN SERIES WITH A 47 OHM RESISTOR.

NOTE 2:
SOLENOID WIRING IF DIN CONNECTORS ARE USED: HOT YY-# NEU

IF ANY OTHER DEVICES USE DIN CONNECTORS, THE HOT WILL ALWAYS BE PIN 1 AND NEUTRAL PIN 2.

— INDICATES DEVICES WIRED AT FACTORY

--- INDICATES DEVICES SUPPLIED BY FACTORY OR OTHERS WHEN OPTIONAL OR REQUIRED.

- - - - - INDICATES DEVICES WIRING BY OTHERS - ALL WIRING ENTERING CONTROL CENTER (INCLUDING GROUND & NEUTRAL) TO BE #14AWG STRANDED WIRES UNLESS SPECIFIED OTHERWISE.

● REPRESENTS TERMINALS IN QUANTUM CONTROL PANEL

■ REPRESENTS TERMINALS IN STARTER WHEN SUPPLIED BY FACTORY

READY TO RUN

REMOTE ENABLE

RECYCLE DELAY/FORCE UNLOAD ENERGIZED WHEN: COMPRESSOR IS OFF AND IN RECYCLE DELAY OR WHEN COMPRESSOR IS RUNNING AND IN LOAD INHIBIT OR FORCE UNLOAD

REMOTE LOAD CAPACITY FOR SV UNITS
REMOTE C. C. STEP 1 FOR STEP UNITS

REMOTE UNLOAD FOR SV UNITS REMOTE C.C. STEP 2 FOR STEP UNIT CONTACTS ARE WIRED "BY OTHERS"

DIGITAL AUX OUTPUT "A"

DIGITAL AUX OUTPUT "B"

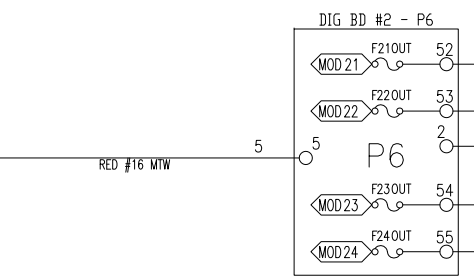
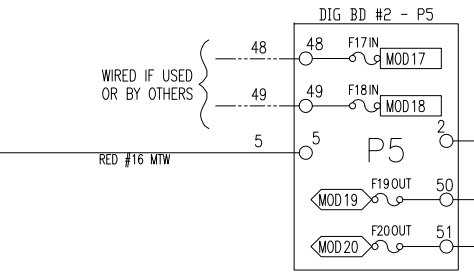
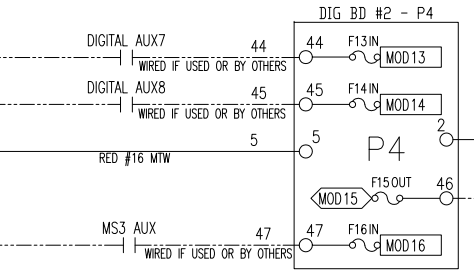
DIGITAL AUX OUTPUT "C"

DIGITAL AUX INPUT C PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT D PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT E PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT F PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)



DIGITAL AUX7

DIGITAL AUX8

MS3 AUX

Wired if used or by others

Wired if used or by others

DIGITAL AUX OUTPUT "A"

DIGITAL AUX OUTPUT "B"

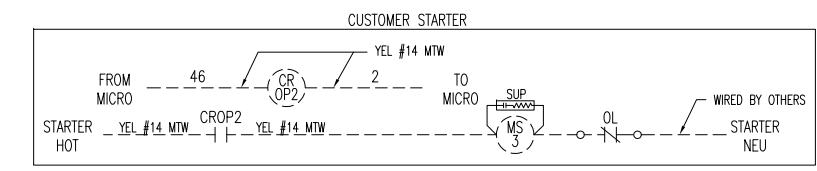
DIGITAL AUX OUTPUT "C"

DIGITAL AUX INPUT C PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT D PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT E PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT F PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)



DIGITAL AUX INPUT G PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

DIGITAL AUX INPUT H PROGRAMMABLE SHUTDOWN OR ALARM (SAFE CLOSED)

OIL PUMP #2 START/RUN (BY OTHERS) IF LOAD OF STARTER COIL IS LESS THAN 2 AMPS AS MOST OIL PUMP STARTERS WILL BE, WIRE AS SHOWN HERE.

OIL PUMP #2 AUX

	MODE 1	MODE 2	MODE 3	MODE 4
MODULE A	OFF	ON	OFF	ON
MODULE B	OFF	OFF	ON	ON

CAPACITY MODE SELECT MODULE "A" SEE CHART FOR MODES

CAPACITY MODE SELECT MODULE "B" SEE CHART FOR MODES

DX CHILLER CIRCUIT A

DX CHILLER CIRCUIT B

CONDENSER CONTROL STEP A

CONDENSER CONTROL STEP B

CONDENSER CONTROL STEP C

CONDENSER CONTROL STEP D

OIL PUMP #2 STARTER IF STARTER CONTAINS MULTIPLE CONTACTORS, RELAYS & TIMERS, ADD SUPPRESSORS AT EACH COIL.

IF TOTAL LOAD OF STARTER COIL(S) IS MORE THAN 2 AMPS, WIRE PER LINES 479 & 480

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Johnson Controls BY JOHNSON CONTROLS

DATE: 03/20/12
APP: JML
REV: A

DESCRIPTION: MOD 2 WAS OUTPUT CONVERTED MOD 2 BACK TO OUTPUT

DATE: 05/10/12
APP: ESH
REV: B

DESCRIPTION: ADDED MOD 1 NOTES ABOUT CONVERSION TO INPUT IF REQ'D.

DATE: 12/14/15
APP: ESH
REV: C

DESCRIPTION: PURCHASER

DATE: 08/03/11
APP: B. HESS
REV: A

DATE: 08/03/11
APP: H. NOWELL
REV: B

DATE: 08/03/11
APP: B. HESS
REV: C

DESCRIPTION: WIRING DIAGRAM DIGITAL BOARD #2 QUANTUM HD

SIZE: D

SCALE: NONE

YORK ORD NO: 649D5948

SHEET 01 OF 01

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED DIMENSIONS TO TOP OF