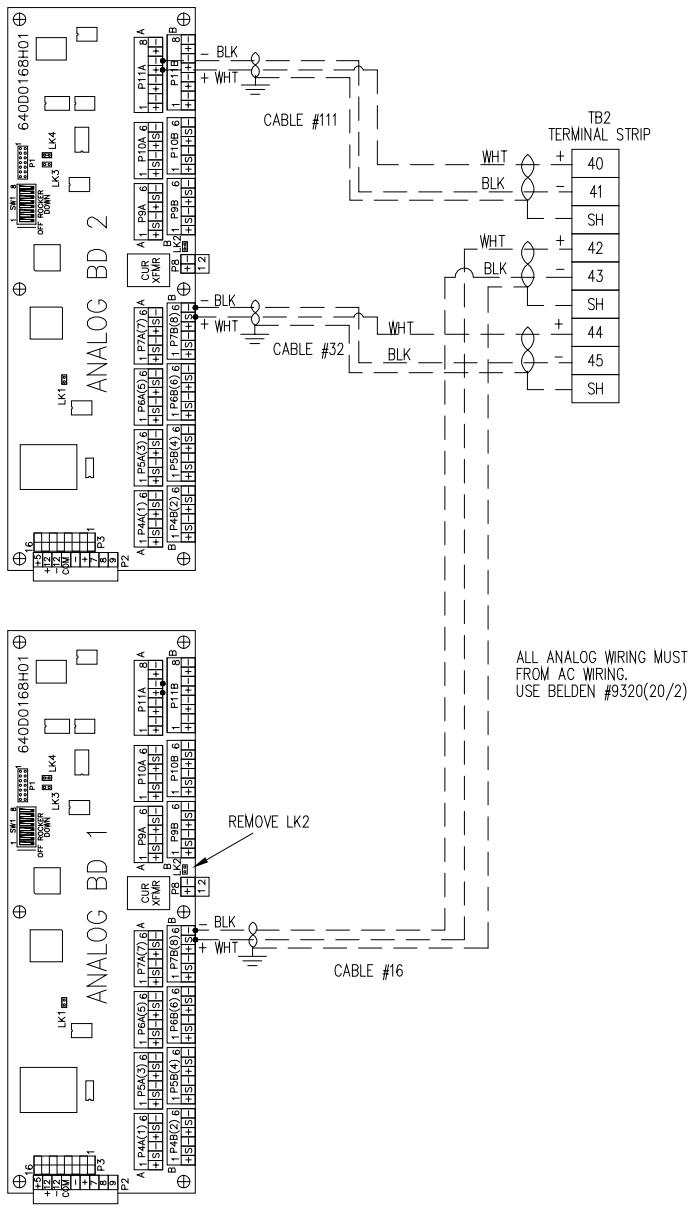
REVISION HISTORY							
ZONE	REV	ECN	DESCRIPTION	DATE	DR	CHK	APPD
.	.	.	.	.	.	.	.

POINT TO POINT ANALOG WIRING

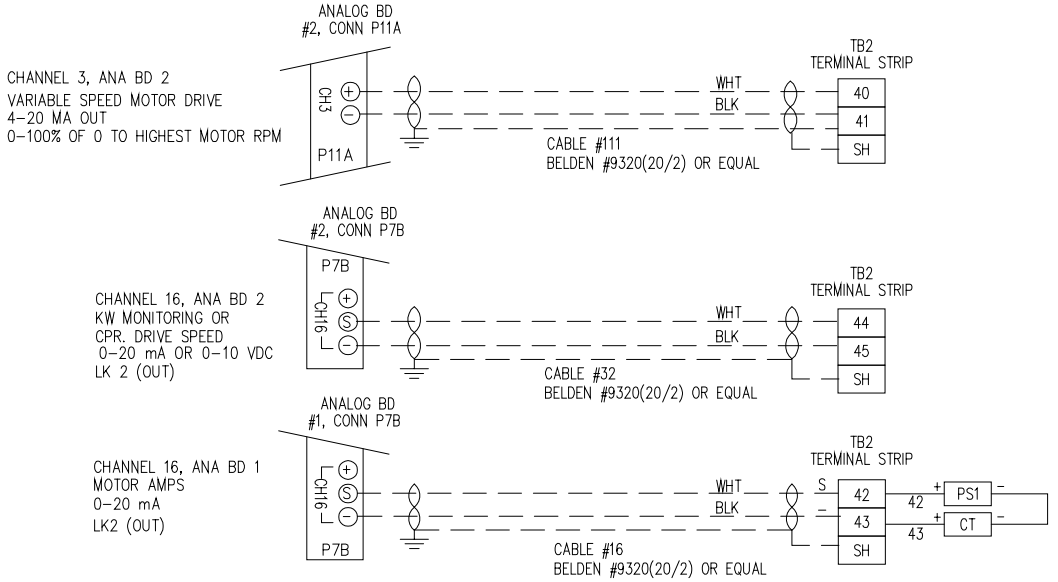
ANALOG BOARDS LOCATED IN QUANTUM CONTROL PANEL



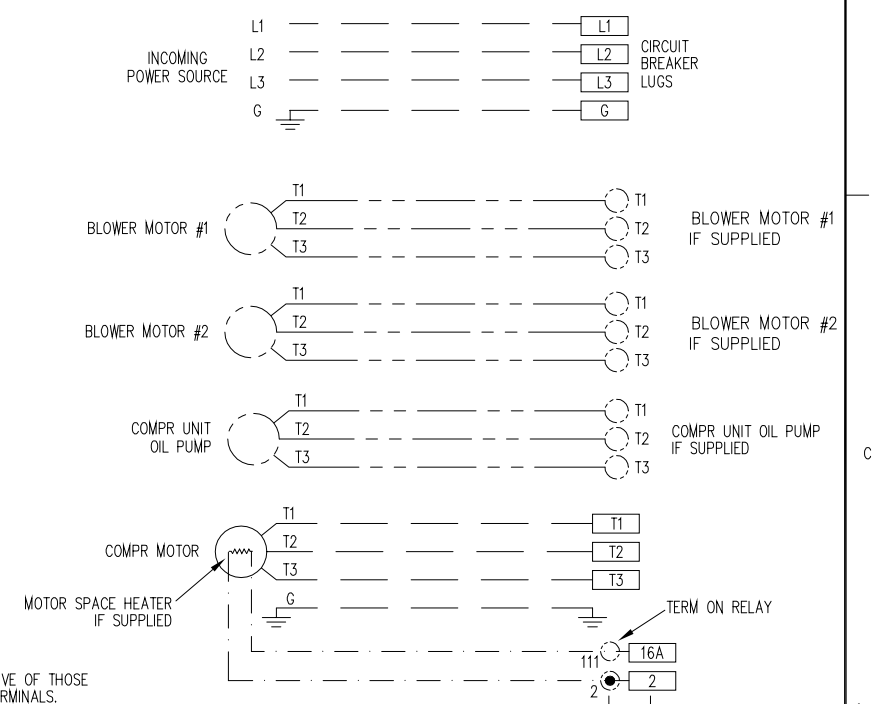
ANALOG BOARD NOT NECESSARILY MOUNTED IN THIS POSITION

ALL ANALOG WIRING MUST BE RUN IN SEPARATE CONDUIT FROM AC WIRING.
USE BELDEN #9320(20/2) OR EQUAL

ANALOG WIRING SHOWN SCHEMATICALLY

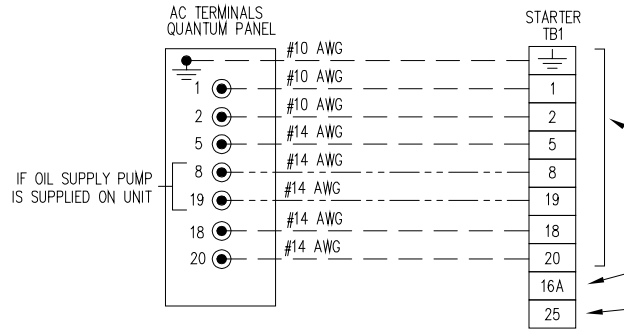


3 PHASE WIRING



TERMINALS ARE SUPPLIED IN MOST QUANTUM PANELS TO WIRE THE SPACE HEATER. WIRE TO STARTER IF NOT WIRED TO QUANTUM. MAKE SURE CORRECT VOLTAGE IS USED NORMALLY THIS WILL BE THE SAME AS THE CONTROL VOLTAGE

SINGLE PHASE CONTROL WIRING–QUANTUM TO STARTER



THE TERMINAL NUMBERS HERE ARE REPRESENTATIVE OF THOSE THAT ARE REQUIRED TO MATCH THE QUANTUM TERMINALS. HOWEVER, THE TERMINAL STRIP NUMBERS MAY NOT BE IN THIS ORDER OR MAY CONTAIN OTHER AND EXTRA NUMBERS

TERM 16A FOR MOTOR SPACE HEATER IF SUPPLIED AND NOT WIRED TO QUANTUM–SEE STARTER SCHEMATIC

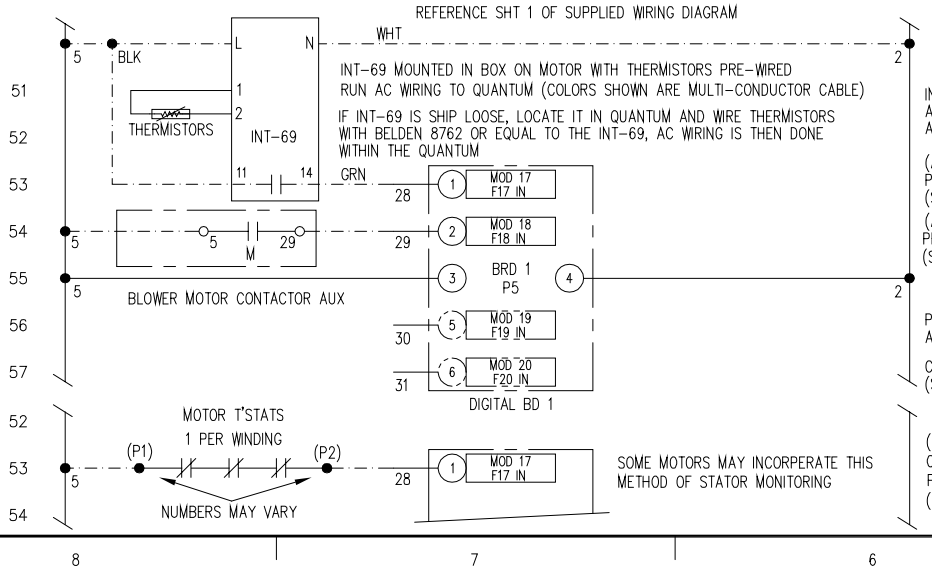
ALTERNATE MOTOR STATOR THERMISTOR WIRING IF SUPPLIED–SEE STARTER SCHEMATIC

IF COMPRESSOR MOTOR IS MOUNTED AT FACTORY, THE STATOR PROTECTION IS WIRED TO QUANTUM PANEL PER ONE OF THE MEDTHODS BELOW –IF THE THEMISTOR IS USED, WIRNG THE MODULE CONTACT TO THE AN AUX INPUT IN THE QUANTUM WILL GIVE A SPECIFIC FUNCTION FOR THE SHUTDOWN WHEREAS WIRING TO THE STARTER WOULD GIVE A COMPR AUX SHUTDOWN WHICH IS NOT THE SPECIFIC CAUSE

ADD ON COMMUNICATION DEVICES THAT MAY BE ADDED TO STARTER ARE NOT INCLUDED ON THIS DRAWING, REFER TO STARTER DRAWINGS

- INDICATES DIN CONNECTOR IF USED ON DEVICE
- INDICATES DEVICES SUPPLIED BY FRICK OR OTHERS WHEN OPTIONAL OR REQUIRED
- WIRING BY OTHERS– ALL WIRING FROM STARTER TO QUANTUM AND ASSOCIATED DEVICES BY OTHERS IF STARTER IS SHIPPED LOOSE UNLESS SPECIFIED OTHERWISE. SOME OPTIONAL DEVICES WILL BE WIRED IF MOUNTED ON UNIT ALL 3 PHASE WIRING SHALL BE SIZED PER PRESENT NEC CODE
- INDICATES WIRING AT FACTORY IF STARTER AND/OR DEVICES ARE MOUNTED & SHIPPED ON UNIT
- REPRESENTS VSD STARTER TERMINALS
- TERMINALS IN QUANTUM CONTROL PANEL

STATOR WIRING IF DRIVE MOTOR IS SUPPLIED WITH THERMISTOR OR OTHER DEVICE USING ISOLATED CONTACT TO INDICATE FAULT



PER NEC CODE– VFD DRIVE MOTORS MUST HAVE STATOR HI–TEMP PROTECTION.

THIS PROTECTION WILL BE DONE EITHER WAY SHOWN BELOW IF MOTOR IS SUPPLIED BY FRICK

OR

CPR MOTOR STATOR TEMPERATURE
100 OHM PLATINUM RTD'S ONLY

INT–69 CONTACT CAN BE WIRED TO ALTERNATIVE AUX INPUT IF AUX 1 IS ALREADY BEING USED

(AUX #1) COMPR MOTOR STATOR HI–TEMP PROGRAM "SHUTDOWN", RUNNING, 5 SEC DELAY (SAFE CLOSED)

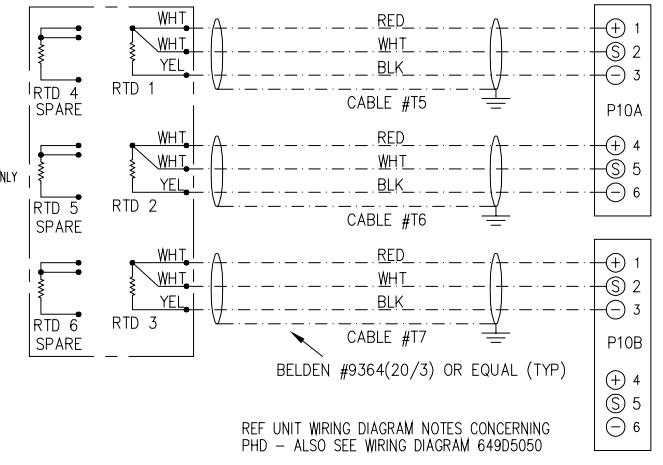
(AUX #2) BLOWER MOTORS ON PROGRAM "SHUTDOWN", RUNNING, 5 SEC DELAY (SAFE CLOSED)

PROCESS MODE SELECT ALTERNATE MODE WHEN CLOSED

CAP CONT S.P. MODE 2 (S.P. MODE 2 WHEN CLOSED)

(AUX #1) COMPRESSOR MOTOR HI–TEMP SHUTDOWN PROGRAM "SHUTDOWN", RUNNING, 5 SEC DELAY (SAFE CLOSED)

STATOR WIRING IF DRIVE MOTOR IS SUPPLIED WITH 100 OHM PLATINUM RTDS



REF UNIT WIRING DIAGRAM NOTES CONCERNING PHD – ALSO SEE WIRING DIAGRAM 649D5050

REFERENCE 649D5050 PHD WIRING DIAGRAM

PHD CH 5
MOTOR STATOR #1 TEMP
DEFAULT SETPOINTS:
100 OHM PLATINUM .00385 TCR

PHD CH 6
MOTOR STATOR #2 TEMP
DEFAULT SETPOINTS:
100 OHM PLATINUM .00385 TCR

PHD CH 7
MOTOR STATOR #3 TEMP
DEFAULT SETPOINTS:
100 OHM PLATINUM .00385 TCR

FUTURE

PURCHASER

NOTICE TO PURCHASER
REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY FRICK COMPANY. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.

FRICK ORD NO | PURCH ORD NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE
THIRD ANGLE PROJECTION
UNLESS OTHERWISE SPECIFIED TOLERANCES PER QAP 18
DEC 2PL ± .01 | DEC 3PL ± .005 | FRACT ± 1/64 | ANGLE ± 1/2

YORK Refrigeration
YORK INTERNATIONAL
York International Refrigeration – Frick Waynesboro, PA 17268

TITLE
STARTER TO QUANTUM WIRING CONNECTIONS
RAM ENHANCER VSD STARTER

DR HG NOWELL	11–28–07				
CHK JM LONG	11–28–07	SIZE D	CAGE CODE 23587	DWG NO 649D5659	REV –
APPD HG NOWELL	11–28–07				
CODE		SCALE		SHEET 1 OF 1	