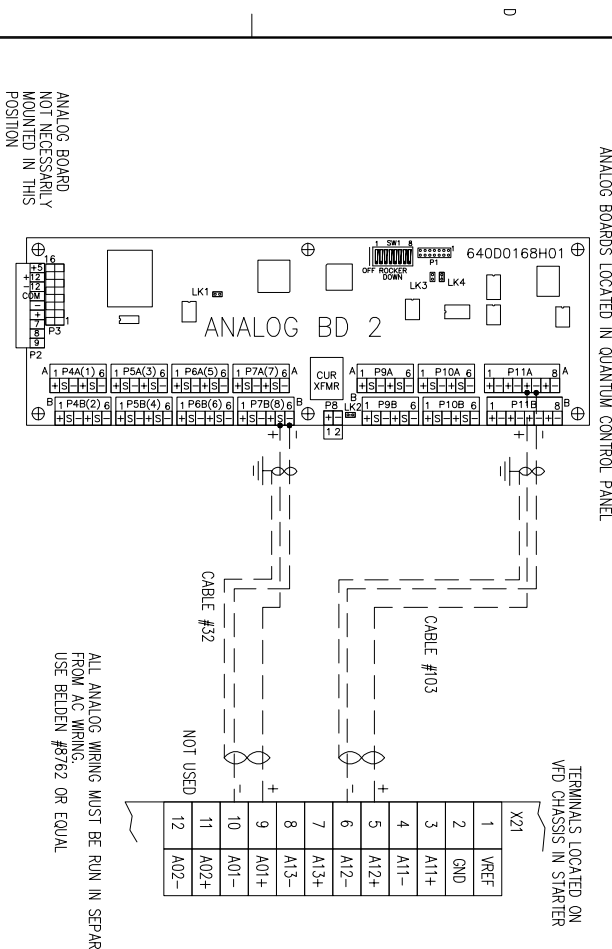
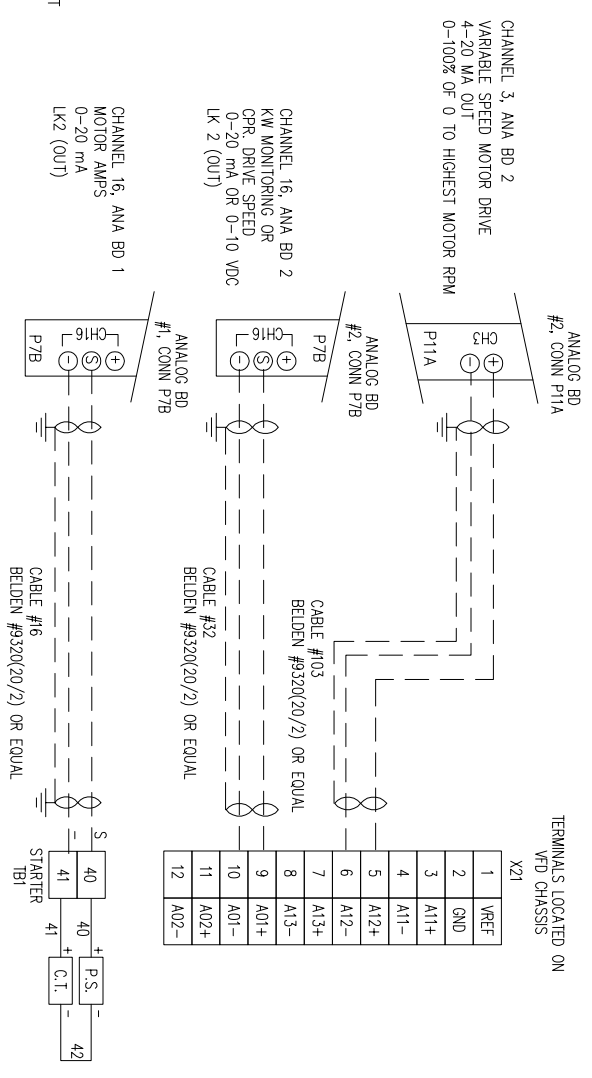


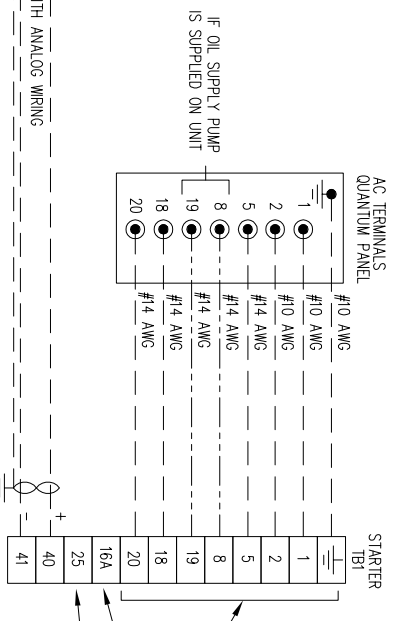
POINT TO POINT ANALOG WIRING



ANALOG WIRING SHOWN SCHEMATICALLY



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 CONTAIN OTHER AND EXTRA NUMBERS

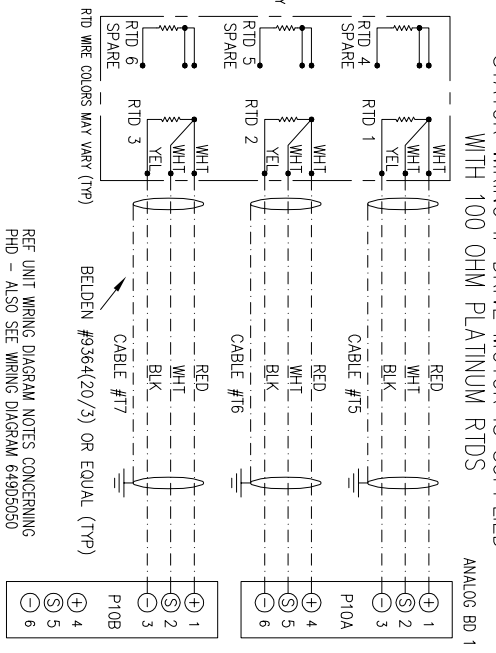
TERM. 16A FOR MOTOR SPACE HEATER IF SUPPLIED AND NOT WIRE TO QUANTUM-SEE STARTER SCHEMATIC

ALTERNATE MOTOR STARTER THERMISTOR WIRING IF SUPPLIED-SEE STARTER SCHEMATIC

IF COMPRESSOR MOTOR IS MOUNTED AT FACTORY, THE STATOR PROTECTION IS WIRE TO QUANTUM PER ONE OF THE METHODS BELOW -IF THE THERMISTOR IS USED, WIRING THE MODULE CONTACT TO THE AV AUX INPUT IN THE QUANTUM WILL GIVE A SPECIFIC FUNCTION FOR THE SHUTDOWN WHEREAS WIRING TO THE STARTER WOULD GIVE A COMPRESSOR SHUTDOWN WHICH IS NOT THE SPECIFIC CAUSE

NOTE: STATOR PROTECTION WITH RTDS IS CONSIDERED PART OF THE PHD CONCEPT

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



REFERENCE 649D5050 PHD WIRING DIAGRAM

PHD CH 5 MOTOR STATOR #1 TEMP  
DEFAULT SETPOINTS:  
100 OHM PLATINUM 0.0385 TOR

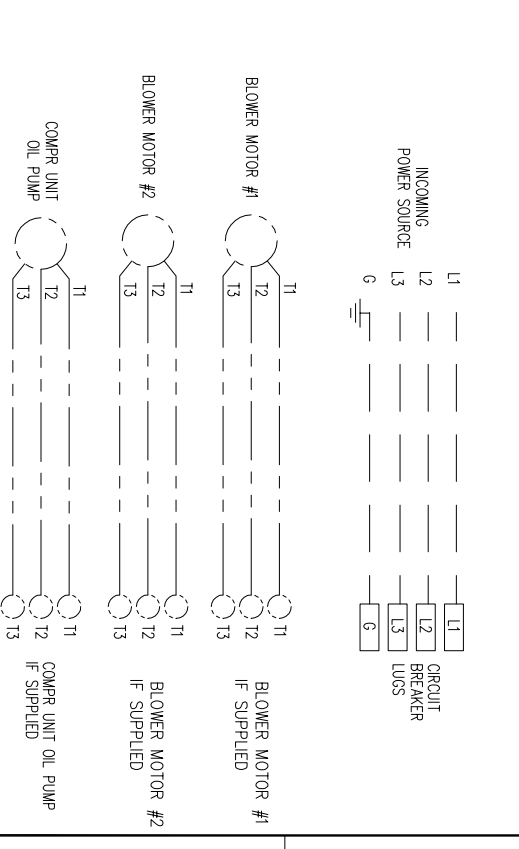
PHD CH 6 MOTOR STATOR #2 TEMP  
DEFAULT SETPOINTS:  
100 OHM PLATINUM 0.0385 TOR

PHD CH 7 MOTOR STATOR #3 TEMP  
DEFAULT SETPOINTS:  
100 OHM PLATINUM 0.0385 TOR

PHD CH 7 FUTURE

REVISION HISTORY							
ZONE	REV	EDN	DESCRIPTION	DATE	DR	CHK	APPD
A			REMOVE LK FROM TITLE BLOCK	05-06-06	HEN	JML	HEN
B			REMOVE ANALOG CT WIRING	10-05-06	HEN	JML	HEN
C			REMOVE WIRING DESIGNATIONS & LINE/TYPE	07-09-07	HEN	JML	JML

3 PHASE WIRING



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

TERMS IF FROM QUANTUM

TERMS IF FROM STARTER

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 WIRE 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

INDICATES WIRING AT FACTORY IF STARTER AND/OR DEVICES ARE MOUNTED & SHIPPED ON UNIT

REPRESENTS VSD STARTER TERMINALS

TERMINALS IN QUANTUM CONTROL PANEL

FRICK ORO NO

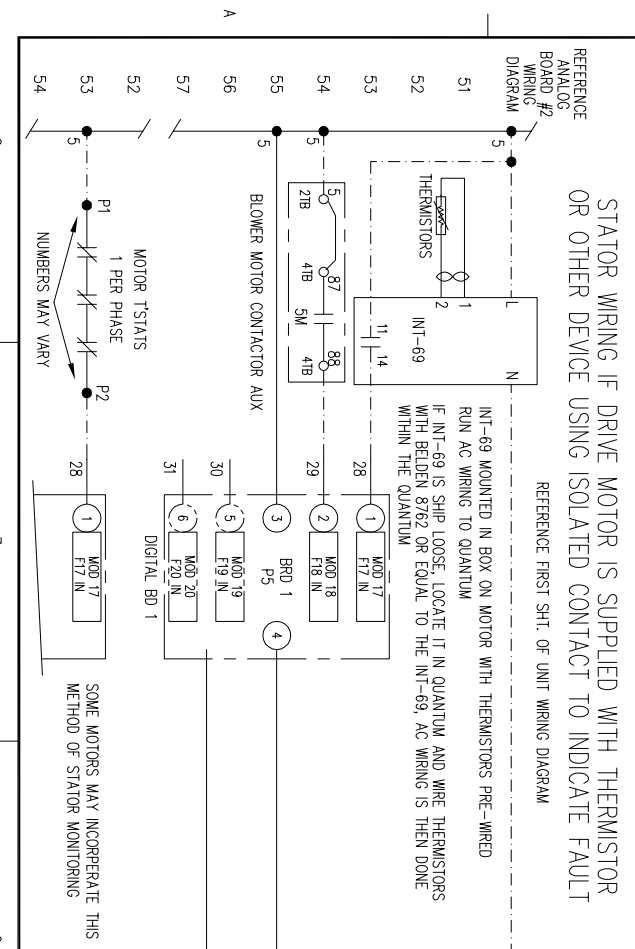
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

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.

York International Refrigeration - Frick Weyersboro, PA 17268

DESIGN	DATE	REV
DEC 94	03-09-06	D
REV 1	03-09-06	1
REV 2	03-09-06	2
REV 3	03-09-06	3
REV 4	03-09-06	4
REV 5	03-09-06	5
REV 6	03-09-06	6
REV 7	03-09-06	7
REV 8	03-09-06	8
REV 9	03-09-06	9
REV 10	03-09-06	10
REV 11	03-09-06	11
REV 12	03-09-06	12
REV 13	03-09-06	13
REV 14	03-09-06	14
REV 15	03-09-06	15
REV 16	03-09-06	16
REV 17	03-09-06	17
REV 18	03-09-06	18
REV 19	03-09-06	19
REV 20	03-09-06	20
REV 21	03-09-06	21
REV 22	03-09-06	22
REV 23	03-09-06	23
REV 24	03-09-06	24
REV 25	03-09-06	25
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REV 27	03-09-06	27
REV 28	03-09-06	28
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REV 30	03-09-06	30
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REV 32	03-09-06	32
REV 33	03-09-06	33
REV 34	03-09-06	34
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REV 36	03-09-06	36
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REV 39	03-09-06	39
REV 40	03-09-06	40
REV 41	03-09-06	41
REV 42	03-09-06	42
REV 43	03-09-06	43
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REV 45	03-09-06	45
REV 46	03-09-06	46
REV 47	03-09-06	47
REV 48	03-09-06	48
REV 49	03-09-06	49
REV 50	03-09-06	50
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REV 53	03-09-06	53
REV 54	03-09-06	54

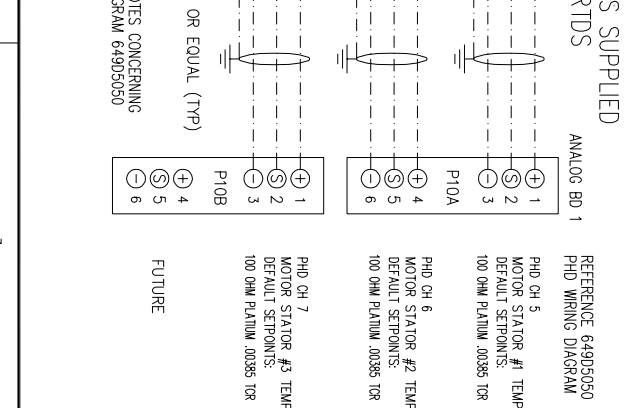
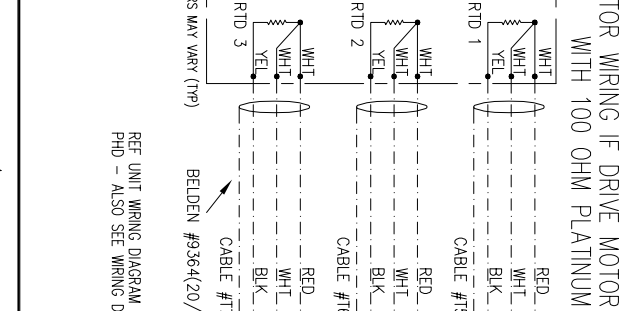
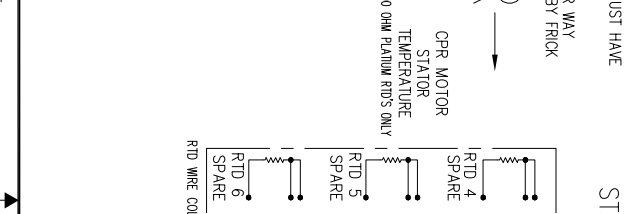


PER NEC CODE - VFD DRIVE MOTORS MUST HAVE STATOR HI-TEMP PROTECTION. THIS PROTECTION WILL BE DONE EITHER WAY SHOWN BELOW IF MOTOR IS SUPPLIED BY FRICK

NT-69 CONTACT CAN BE WIRED TO ALTERNATE AUX INPUT IF AUX 1 IS ALREADY BEING USED

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

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



FRICK ORO NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

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