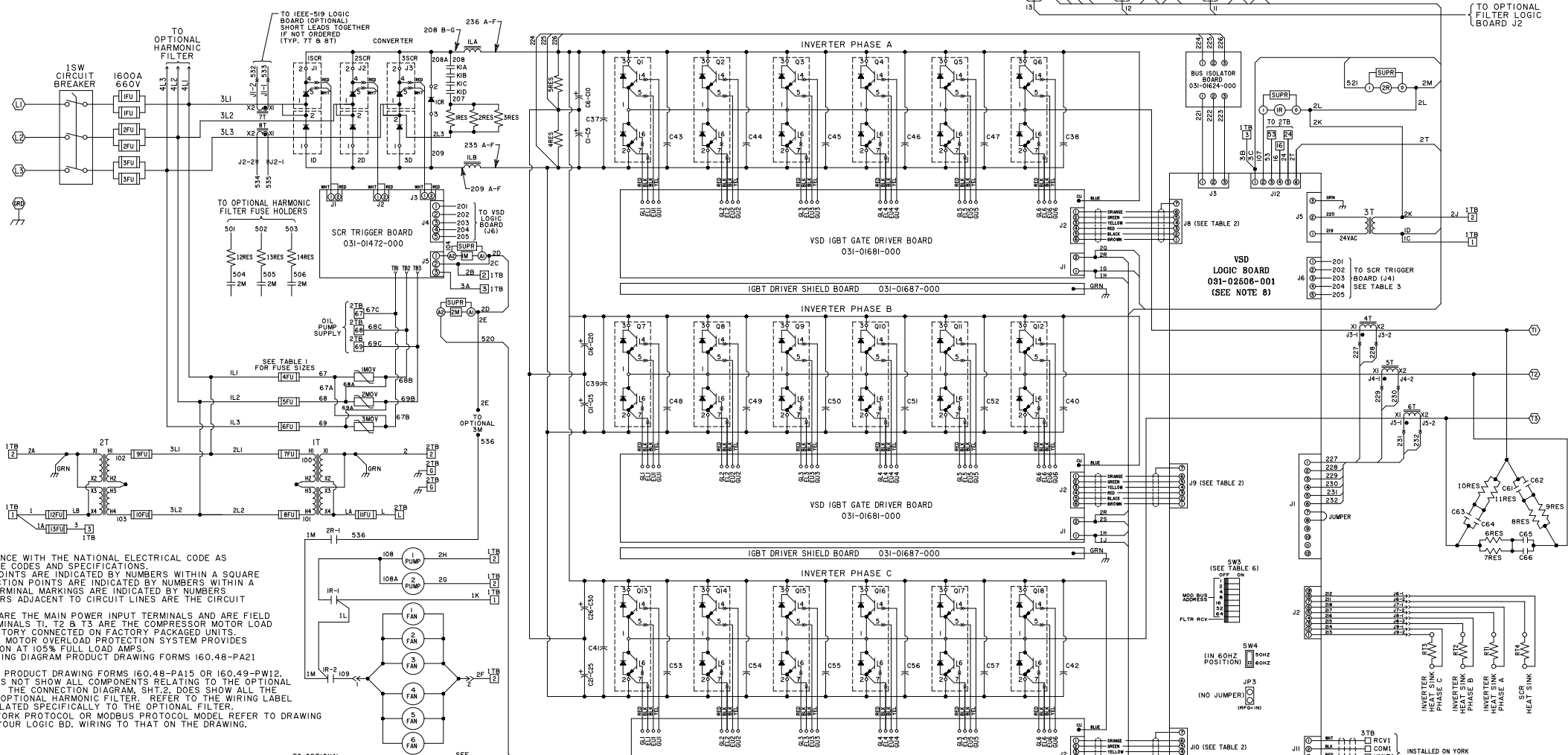


ELEMENTARY DIAGRAM



- NOTES:
- FIELD WIRING TO BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS ALL OTHER APPLICABLE CODES AND SPECIFICATIONS.
 - TERMINAL BOARD CONNECTION POINTS ARE INDICATED BY NUMBERS WITHIN A SQUARE I.E. [1] 1TB. MAIN POWER CONNECTION POINTS ARE INDICATED BY NUMBERS WITHIN A HEXAGON I.E. [1] 1TB. COMPONENT TERMINAL MARKINGS ARE INDICATED BY NUMBERS WITHIN A CIRCLE I.E. (1) 1TB. NUMBERS ADJACENT TO CIRCUIT LINES ARE THE CIRCUIT IDENTIFICATION NUMBERS.
 - TERMINALS L1, L2, L3 AND GRD ARE THE MAIN POWER INPUT TERMINALS AND ARE FIELD CONNECTED (SEE NOTE 6). TERMINALS T1, T2 & T3 ARE THE COMPRESSOR MOTOR LOAD POWER TERMINALS AND ARE FACTORY CONNECTED ON FACTORY PACKAGED UNITS.
 - THE THREE PHASE SOLID STATE MOTOR OVERLOAD PROTECTION SYSTEM PROVIDES MOTOR OVERCURRENT PROTECTION AT 105% FULL LOAD AMPS.
 - SEE YORK CONTROL CENTER WIRING DIAGRAM PRODUCT DRAWING FORMS I60.48-PA21 OR I60.52-PW3.
 - FIELD WIRING CONNECTIONS PER PRODUCT DRAWING FORMS I60.48-PA15 OR I60.49-PW12.
 - ELEMENTARY DIAGRAM SHT.1 DOES NOT SHOW ALL COMPONENTS RELATING TO THE OPTIONAL HARMONIC FILTER COMPONENTS. THE CONNECTION DIAGRAM, SHT.2, DOES SHOW ALL THE COMPONENTS RELATING TO THE OPTIONAL HARMONIC FILTER. REFER TO THE WIRING LABEL 035-16263-000 FOR WIRING RELATED SPECIFICALLY TO THE OPTIONAL FILTER.
 - TO DETERMINE IF YOU HAVE A YORK PROTOCOL OR MODBUS PROTOCOL MODEL REFER TO DRAWING 035-21563-000 AND COMPARE YOUR LOGIC BD. WIRING TO THAT ON THE DRAWING.

- LEGEND
- C1 - C30 CAPACITORS, FILM, 10,500 μ F, 450 VDC
 - C37 - C42 CAPACITORS, FILM, 1.0 μ F, 1200 VDC
 - C43 - C57 CAPACITORS, FILM, 0.2 μ F, 1000 VDC
 - C61 - C66 CAPACITORS, DV/DT, 0.047 μ F, 1600 VDC
 - IFU - 3FU SEMI-CONDUCTOR FUSES, 1600A, 660V, FERRAZ SIO1770CF00
 - 4FU - 6FU SCR TRIGGER / OIL PUMP MOTOR FUSES
 - 7FU - 10FU CONTROL SUPPLY TRANSFORMER PRIMARY FUSES, 10A, 600V: BUS FNO-10
 - 11FU EXTERNAL CONTROL SUPPLY TRANSFORMER SECONDARY FUSE, 20A, 500V: BUS FNO-20
 - 12FU INTERNAL CONTROL SUPPLY TRANSFORMER SECONDARY FUSE, 20A, 500V: BUS FNO-20
 - 13FU INTERNAL CONTROL SUPPLY TRANSFORMER SECONDARY FUSE, 7A, 500V: BUS FNO-7
 - IL INDUCTOR, DCLINK, 1550 A, 80 μ H
 - IM - 2M CONTACTORS, PRECHARGE, 600 VAC, 25 A
 - Q1 - Q16 DUAL IGBT MODULES, 1200 V, 500 A
 - IR - 3RES RESISTORS, PRECHARGE, 35 Ω , 500 W
 - 4RES - 5RES RESISTORS, BLEEDER, 750 Ω , 225 W
 - 6RES - 16RES DV/DT RESISTORS, 10 Ω , 50 W
 - RT1 - RT6 RESISTORS, PRECHARGE (HARMONIC FILTER), 10 Ω , 375 W
 - RT7 - RT6 HEATSINK THERMISTOR TEMPERATURE SENSORS
 - ID - 3D DIODE MODULES, 1200 V, 600 A
 - ISCR - 3SCR SCR MODULES, 1200 V, 600 A
 - IR RELAY, COOLING FANS AND PUMP
 - ISW CIRCUIT BREAKER, 600 V, 1200 A, 100% RATED
 - IT - 2T 120 VAC, 2 KVA CONTROL POWER TRANSFORMER
 - 3T 24 VAC, 75VA CONTROL TRANSFORMER
 - 4T - 6T OUTPUT CURRENT TRANSFORMERS
 - 7T - 8T INPUT CURRENT TRANSFORMERS
 - ITB TERMINAL BLOCK, FACTORY WIRING
 - 2TB - 3TB TERMINAL BLOCKS, FIELD WIRING
 - JACK, J1-1 ETC...
 - PLUG, P1-1 ETC...

TABLE 1
UNIT STYLE (FUSING - 4FU, 5FU, 6FU)

UNIT	3A, 600V, BUS FNO-R5	7A, 600V, BUS FNO-R7
YF	3A, 600V, BUS FNO-R5	7A, 600V, BUS FNO-R7
YK	3A, 600V, BUS FNO-R5	7A, 600V, BUS FNO-R7

TABLE 2
VSD LOGIC BOARD - J4, J9, J10 PINOUT

CONNECTOR	SHIELDED CABLE WIRE COLOR	FUNCTION
1	BRN	FAULT
2	BLK	GROUND
3	WHT	5V
4	YEL	UPPER PHASE IN
5	GRN	LOWER PHASE IN
6	DRN	SW, 7.5V
7	DRN	SHIELD

TABLE 3
VSD LOGIC BOARD - J6 PINOUT

CONNECTOR	FUNCTION
1	+5V FEED
2	PH LOSS OUT
3	PRECHG IN
4	SCRTRIG IN
5	7.5V FEED

TABLE 4
OPTIONAL FILTER LOGIC BOARD - J3 PINOUT

CONNECTOR	IDENTIFIER	FUNCTION
1	*532	TO J1-X2
2	*533	TO J1-X1
3	*534	TO BT-X2
4	*535	TO BT-X1
5	WHITE	TO IDCCCT - OPTION
6	RED	TO IDCCCT - OPTION
7	BLK	TO IDCCCT - OPTION
8	JUMPER	RELAY POWER
9	JUMPER	+15V
10	RED	TO 2DCCCT - OPTION
11	BLK	TO 2DCCCT - OPTION
12	WHITE	TO 2DCCCT - OPTION

TABLE 5
OPTIONAL FILTER LOGIC BOARD - J5 PINOUT

CONNECTOR	IDENTIFIER	FUNCTION
1	*522	TO J2-1, OPTIONAL 2022 BOARD
2	*523	TO J2-2, OPTIONAL 2022 BOARD
3	*524	TO J2-3, OPTIONAL 2022 BOARD
4	*525	TO J2-4, OPTIONAL 2022 BOARD
5	*526	TO J2-3, OPTIONAL 1624 BOARD
6	*527	TO J2-2, OPTIONAL 1624 BOARD
7	*526	TO J2-1, OPTIONAL 1624 BOARD
8	-	NOT USED

TABLE 6
SWS POSITIONS

POSITION NUMBER	YORK PROTOCOL MODELS	MODBUS PROTOCOL MODELS
1	OFF	ON
2	OFF	OFF
4	OFF	OFF
8	OFF	OFF
16	OFF	OFF
32	OFF	OFF
64	OFF	OFF
FLTR RCV	OFF	ON

* SAME PIN NUMBERS ARE USED AT BOTH ENDS OF CABLE
** NOT CONNECTED AT GATE DRIVER BOARD END

YORK INTERNATIONAL CORPORATION
YORK, PA. 17405

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DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

LABEL, WIRING DIAGRAM
1100 HP.
V.S.D.
STYLE D

MATERIAL
ENG. STD.
PART NO.
CUT SIZE

NAME: DR. J. M. SCHNEIDER
DATE: 01-07-99
SCALE: N.T.S.

SIZE: E
CAGE NO: 66935
DRAWING NUMBER: 035-16262-000

WT. = LBS. ORG. NO. 035-15968E SHEET 1 OF 2
CK. 200.10 LABEL WIRING DIAGRAM 035-16262E.SHT

REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
A	03-28-04	NEW	0798	JWM	ARD	E	02-27-04	FILTER LOGIC BD. P/N WAS 031-01632-034 AT C-6.	0798	CBH	MMW						
		IN TABLE 1 - YT FUSE WAS 480V BUSS SC-5, YK FUSE WAS 480V BUSS SC-7 AT B-4.5; IN LEGEND - 7FU-10FU WAS 480V BUSS SC-10 AT C-7.8; REV A WAS REV - AT H-1.	0799			F	03-24-04	SEE SHEET 2 FOR REVISIONS.	0799	KFS	MST						
			0827			G	04-04-04	ADDED INDUCTOR ILB AT G-6.	0827	KFS	MST						
B	03-16-04	SEE SHEET 2 FOR REVISIONS; REV A AT H-1.	0793	JWM	MJT												
C	08-2-06	REVISED PIN NUMBERS OF ID, 2D, 3D AND ICR AT G-6.	0795	KSR	MST												
D	04-04-06	CHANGED LOGIC BD. TO INCLUDE MODBUS, ADDED NOTE B.	0796	KSR	MST												