



SOUND PRESSURE DATA

Model ZKEW-D	Octave Band (Hz)								TOTAL dB (A)
	63	125	250	500	1K	2K	4K	8K	
ZKEW-D10R	70	55	59	67	75	72	62	53	78
ZKEW-D12R	71	56	60	68	76	73	63	54	79
ZKEW-D15R	71	59	63	71	79	76	66	57	82
ZKEW-D19R	68	57	63	68	75	72	72	54	79
ZKEW-D20R	68	57	63	68	75	72	72	54	79
ZKEW-D20T	72	57	61	69	77	74	64	55	80
ZKEW-D22T	72	57	61	69	77	74	64	55	80
ZKEW-D23R	68	57	63	68	75	72	72	54	79
ZKEW-D24R	69	59	64	68	76	73	74	56	80
ZKEW-D24T	73	58	62	70	78	75	65	56	81
ZKEW-D27R	69	59	64	68	76	73	74	56	80
ZKEW-D27T	73	59	63	71	79	76	66	57	82
ZKEW-D30R	70	61	65	69	78	75	74	59	81
ZKEW-D30T	73	61	65	73	81	78	68	59	84
ZKEW-D36R	70	61	65	69	78	75	74	59	81
ZKEW-D38T	71	60	66	71	78	75	75	57	82
ZKEW-D40T	70	59	65	70	77	74	74	56	81
ZKEW-D41R	70	61	65	69	78	75	74	59	81
ZKEW-D46T	70	59	65	70	77	74	74	56	81

Model ZKEW-D	Octave Band (Hz)								TOTAL dB (A)
	63	125	250	500	1K	2K	4K	8K	
ZKEW-D50T	71	60	66	70	78	75	75	57	82
ZKEW-D54T	71	61	66	70	78	75	76	58	82
ZKEW-D57T	71	62	66	70	79	76	76	60	83
ZKEW-D60T	72	63	67	71	80	77	76	61	83
ZKEW-D69	71	60	66	71	78	75	75	57	82
ZKEW-D73	72	61	67	71	79	76	76	58	83
ZKEW-D73T	72	63	67	71	80	77	76	61	83
ZKEW-D75T	72	63	67	71	80	77	76	61	83
ZKEW-D77	72	62	67	71	79	76	77	59	83
ZKEW-D81	72	62	67	71	79	76	77	59	84
ZKEW-D81T	72	63	67	71	80	77	76	61	83
ZKEW-D84	73	63	68	72	80	77	77	61	84
ZKEW-D87	73	64	68	72	81	78	77	62	85
ZKEW-D90	73	64	68	72	81	78	77	62	85
ZKEW-D108	73	64	68	72	81	78	77	62	84
ZKEW-D113	73	64	68	72	81	78	77	62	84
ZKEW-D118	73	64	68	72	81	78	77	62	84
ZKEW-D123	73	64	68	72	81	78	77	62	84

Note: Sound Pressure Level dB(A) @ 3.3ft [1m] (free field) ± 2dBA.

ELECTRICAL DATA

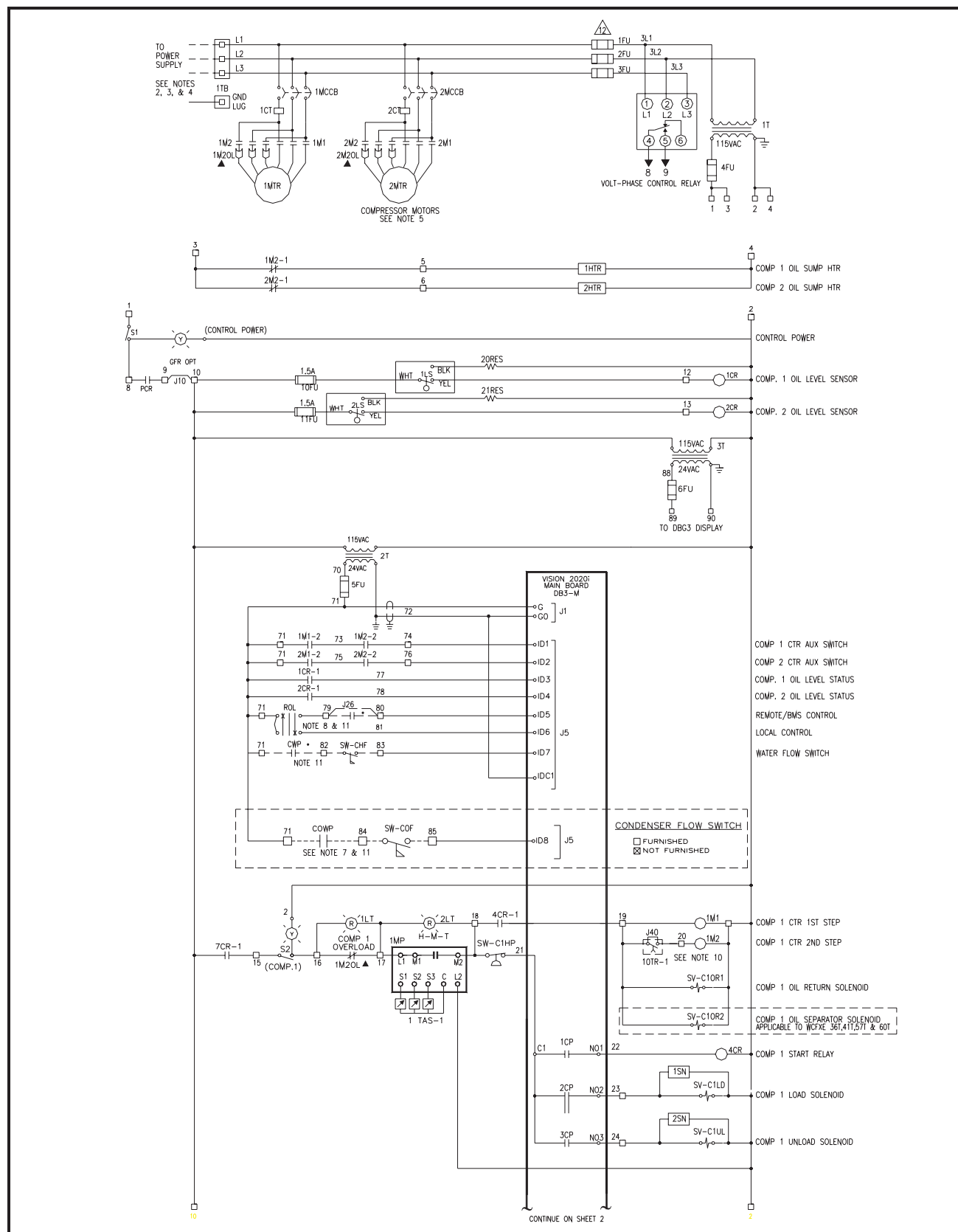
Model ZKEW-D	Unit			Compressor			
	Power Supply	Max. Fuse Size	Min. Circuit Ampacity	Compressor Model	RLA	Inrush Amps	LRA
ZKEW-D10R	460VAC±10%	200	100	1210(1)	78	283	425
ZKEW-D12R	460VAC±10%	300	100	1212(1)	104	392	588
ZKEW-D15R	460VAC±10%	400	200	1215(1)	129	429	644
ZKEW-D19R	460VAC±10%	400	200	1220(1)	126.0	408.3	612.4
ZKEW-D20R	460VAC±10%	400	200	1222(1)	154	499	749
ZKEW-D20T	460VAC±10%	300	200	1210(2)	78.0(2)	283.0(2)	424.5(2)
ZKEW-D22T	460VAC±10%	400	200	1210(1) / 1212(1)	78.0 / 104.0	283.0 / 392.0	424.5 / 588.0
ZKEW-D23R	460VAC±10%	400	200	1222(1)	154	499	749
ZKEW-D24R	460VAC±10%	600	200	1227(1)	193	615	923
ZKEW-D24T	460VAC±10%	400	300	1212(2)	104.0(2)	392.0(2)	588.0(2)
ZKEW-D27R	460VAC±10%	600	200	1227(1)	193	615	923
ZKEW-D27T	460VAC±10%	500	300	1212(1) / 1215(1)	104.0 / 129.0	392.0 / 429.0	588.0 / 643.5
ZKEW-D30R	460VAC±10%	700	300	1230(1)	224	679	1019
ZKEW-D30T	460VAC±10%	500	300	1215(2)	129.0(2)	429.0(2)	643.5(2)
ZKEW-D36R	460VAC±10%	700	300	2233 (1)	259	920	1380
ZKEW-D38T	460VAC±10%	500	300	1220(2)	126.0(2)	408.3(2)	612.4(2)
ZKEW-D40T	460VAC±10%	600	400	1222(2)	154.0(2)	499.0(2)	748.5(2)
ZKEW-D41R	460VAC±10%	900	400	2236 (1)	309	1214	1821
ZKEW-D46T	460VAC±10%	600	400	1222(2)	154(2)	499(2)	749(2)
ZKEW-D50T	460VAC±10%	800	400	1227(1) / 1222(1)	193 / 154	615 / 499	923 / 749
ZKEW-D54T	460VAC±10%	800	500	1227(2)	193(2)	615(2)	923(2)
ZKEW-D57T	460VAC±10%	900	500	1230(1) / 1227(1)	224 / 193	679 / 615	1019 / 923
ZKEW-D60T	460VAC±10%	900	600	1230(2)	224(2)	679(2)	1019(2)
ZKEW-D69	460VAC±10%	800	600	1222(3)	154(3)	499(3)	749(3)
ZKEW-D73	460VAC±10%	1000	600	1227(1) / 1222(2)	193(1) / 154(2)	615 / 499(2)	923 / 749(2)
ZKEW-D73T	460VAC±10%	1000	600	2233(2)	259(2)	920(2)	1380(2)
ZKEW-D75T	460VAC±10%	1200	700	2236(1) / 2233(1)	309 / 259	1214 / 920	1821 / 1380
ZKEW-D77	460VAC±10%	1000	700	1227(2) / 1222(1)	193(2) / 154	615(2) / 499	923(2) / 749
ZKEW-D81	460VAC±10%	1100	700	1227(3)	193(3)	615(3)	923(3)
ZKEW-D81T	460VAC±10%	1300	800	2236(2)	309(2)	1214(2)	1821(2)
ZKEW-D84	460VAC±10%	1200	800	1230(1) / 1227(2)	224 / 193(2)	679 / 615(2)	1019 / 923(2)
ZKEW-D87	460VAC±10%	1200	800	1230(2) / 1227(1)	224(2) / 193	679(2) / 615	1019(2) / 923
ZKEW-D90	460VAC±10%	1200	900	1230(3)	224(3)	679(3)	1019(3)
ZKEW-D108	460VAC±10%	1400	1000	2233(3)	259(3)	920(3)	1380(3)
ZKEW-D113	460VAC±10%	1500	1000	2236(1) / 2233(2)	309 / 259(2)	1214 / 920(2)	1821 / 1380(2)
ZKEW-D118	460VAC±10%	1600	1100	2236(2) / 2233(1)	309(2) / 259	1214(2) / 920	1821(2) / 1380
ZKEW-D123	460VAC±10%	1600	1200	2236(3)	309(3)	1214(3)	1821(3)

Note: RLA – Rated Load Amps

LRA – Locked Rotor Amps

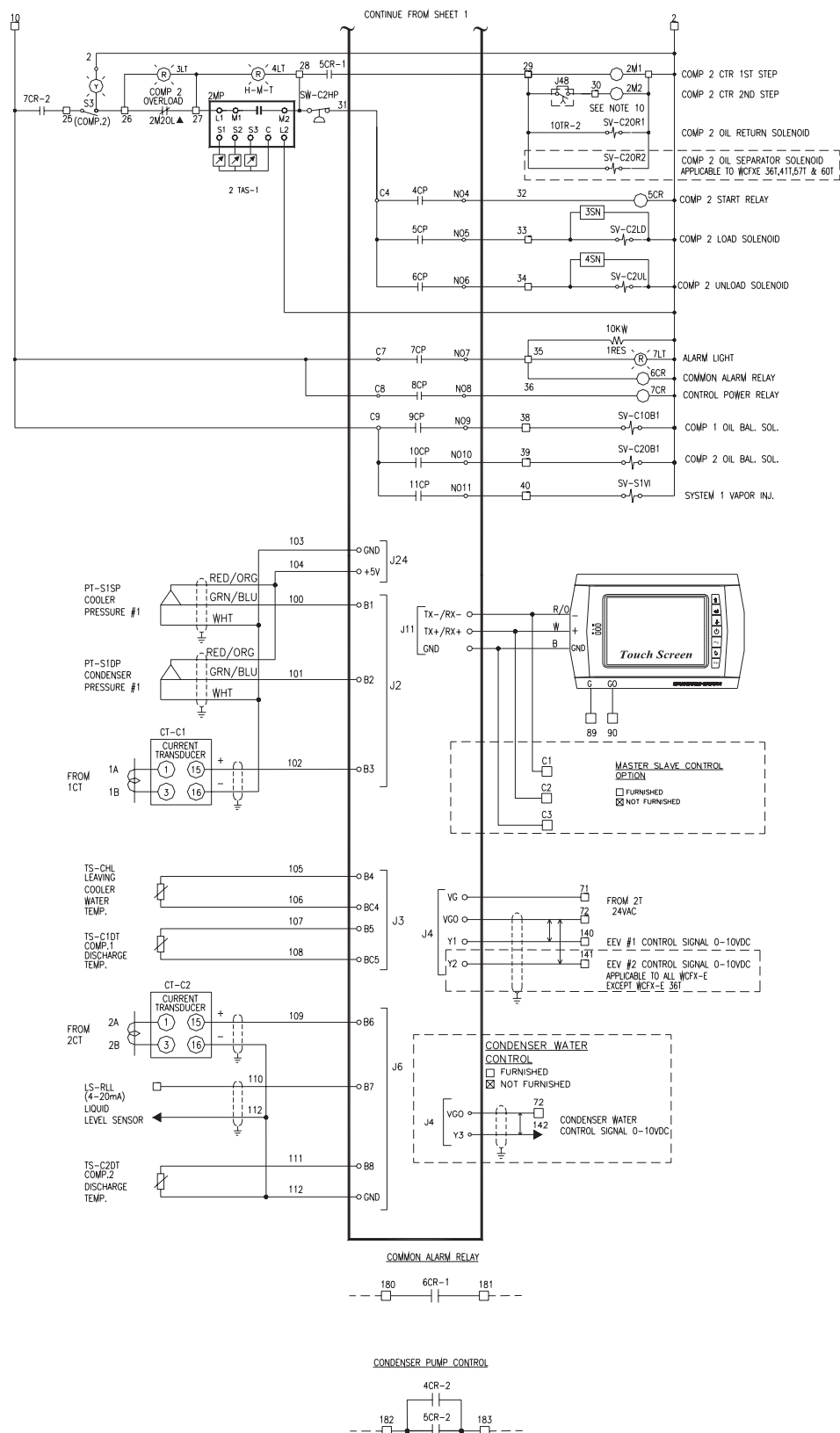
TYPICAL WIRING SCHEMATIC

Two Compressors Unit

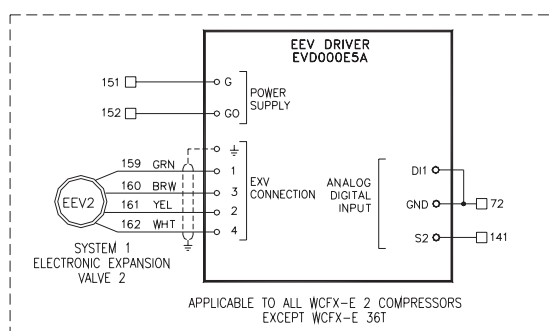
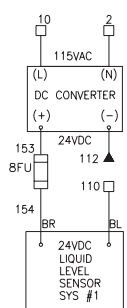
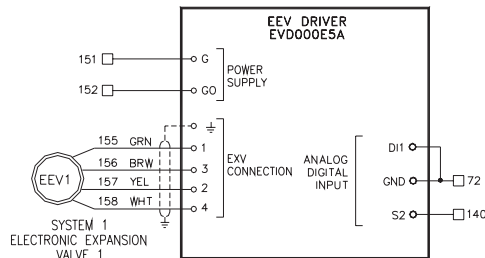
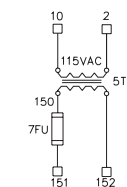




TYPICAL WIRING SCHEMATIC



TYPICAL WIRING SCHEMATIC



NOTES

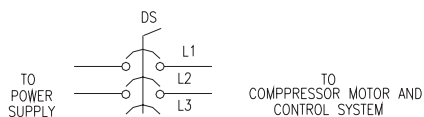
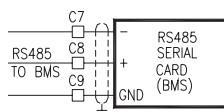
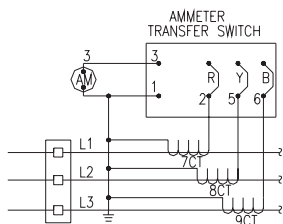
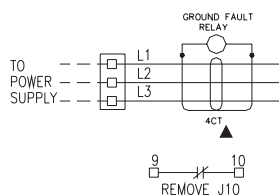
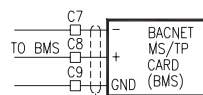
- 1- FUSES SHALL BE TIME DELAY TYPE.
- 2- ALL FIELD WIRING SHALL COMPLY WITH LOCAL, STATE AND NATIONAL CODES.
- 3- USE COPPER CONDUCTORS ONLY. CONTROL WIRING 14AWG.
- 4- DISCONNECT MEANS AND BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY INSTALLER.
- 5- IF POWER SUPPLY HAS BEEN INTERRUPTED FOR A PROLONGED PERIOD, OIL PUMP HEATERS MUST BE ENERGIZED FOR 24 HOURS MINIMUM BEFORE STARTING COMPRESSORS.
- 6- DO NOT RUN CT WIRES IN WIRE BUNDLES.
- 7- CHILLED WATER FLOW SWITCH AND PUMP INTERLOCK ARE REQUIRED. DO NOT USE THESE SWITCHES TO CONTROL THE PACKAGE.
- 8- BMS CONTROL CONTACTS MUST BE WIRED BETWEEN THESE TERMINALS. SELECT POSITION "R" FOR REMOTE START, POSITION "O" FOR UNIT SHUT DOWN AND POSITION "L" FOR LOCAL START. JUMPER BOTH TERMINAL IF BMS USING ONLY HIGH LEVEL CONTROL.
- 9- IF 4-20mA CWR IS USED, SET SETPOINT TO RESET DESIRED AT 20mA INPUT.
CAUTION: DO NOT SUPPLY OVER 20mA TO INPUT TERMINAL.
- 10- 2RES CAN BE WIRED BETWEEN TERMINALS 89 & 90 OR BETWEEN TERMINALS 10TR. TIMER JUMPER WIRE IS A CUSTOMER OPTION TO TAKE OUT OR KEEP IN.
- 11- THE SHIELDED CABLES ARE RECOMMENDED FOR FIELD INSTALLED CONTROL & SIGNAL WIRING. CONNECT ONE END OF THE SHIELD TO GROUND.
- 12- DRY CONTACT FROM CUSTOMER TO ENABLE ICE MODE. DEFAULT IS CHILLER MODE.
- 13- DRY CONTACT FROM CUSTOMER TO ENABLE HEATING MODE. DEFAULT IS CHILLER MODE.

LEGEND

AI	ANALOG INPUT
AM	AMMETER
CB	CIRCUIT BREAKER
COMP	COMPRESSOR
CP	CONTROL POINT
CPR	CAPACITOR
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CTR	CONTACTOR
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RESET
DI	DIGITAL INPUT
FS	FLOAT SWITCH
FU	FUSE
GND	GROUND
H-O-T	HIGH OIL TEMP
HMT	HIGH MOTOR TEMP
HTR	HEATER
I/O	INPUT/OUTPUT
LD	LEAK DETECTOR
LS	LEVEL SENSOR
LT	LIGHT
M	CONTACTOR
MCS	MOLDED CASE SWITCH
MOV	METAL OXIDE VARISTOR
MTR	MOTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OL	OVERLOAD
PB	PUSH BUTTON
PT	PRESSURE TRANSDUCER
RES	RESISTOR
R-O-L	REMOTE-OFF-LOCAL
RLY	RELAY
S5	PUMP DOWN SWITCH
SC	STARTS COUNTER
SH	SHIELD
SN	SNUBBER
SOL	SOLENOID
SW-CHF	CHILLED WATER FLOW SWITCH
TAS	THERMOSTAT
TB	TERMINAL BLOCK
TLW	TEMP LEAVING WATER
TR	TIMER
TS	TEMP. SENSOR
UVR	UNDERVOLTAGE RELAY
VF	VENTILATION FAN
VM	VOLTMETER
ZD	ZENER DIODE
▲	MANUAL RESET
□	FACTORY TERMINAL
* —	FIELD WIRING
*	FIELD SUPPLIED

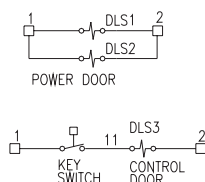
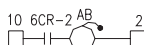
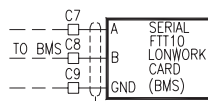
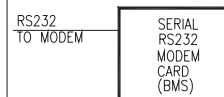
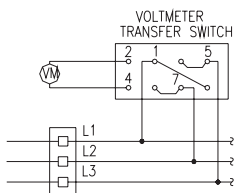
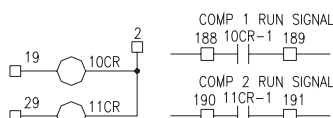
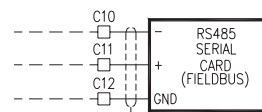


TYPICAL WIRING SCHEMATIC

MAIN DISCONNECT SWITCH OPTION
☐ FURNISHED
☒ NOT FURNISHED
BMS COMMUNICATION OPTIONMODBUS RS485 RTU
☐ FURNISHED
☒ NOT FURNISHED
MODBUS OVER IP
☐ FURNISHED
☒ NOT FURNISHED
3 PHASE AMMETER OPTION
☐ FURNISHED
☒ NOT FURNISHED
GROUND FAULT RELAY
☐ FURNISHED
☒ NOT FURNISHED
BACNET MS/TP OPTION
☐ FURNISHED
☒ NOT FURNISHED
BACNET OVER IP OPTION
☐ FURNISHED
☒ NOT FURNISHED


* PLEASE REFER TO UNIT IOM FOR PROCEDURE TO INSERT THE CARD TO THE VISION 2020i DB3 MAIN CONTROLLER

** ONLY ONE OPTION CAN BE CHOSEN IN THIS SECTION

DOOR LATCH SOLENOIDS OPTION
☐ FURNISHED
☒ NOT FURNISHED
ALARM BELL
☐ FURNISHED
☒ NOT FURNISHED
LONWORK OPTION
☐ FURNISHED
☒ NOT FURNISHED
MODEM OPTION
☐ FURNISHED
☒ NOT FURNISHED
3 PHASE VOLTMETER OPTION
☐ FURNISHED
☒ NOT FURNISHED
COMPRESSOR RUN SIGNAL
☐ FURNISHED
☒ NOT FURNISHED
DB LINK/BACNET PTP GTY/TCPIP GTY/PLANVISOR OPTION
☐ FURNISHED
☒ NOT FURNISHED




TYPICAL WIRING SCHEMATIC

