



Vertiv™ CoolPhase Condensing Unit

Submittals Addendum

Wiring Diagrams for Condensing Units of 28 kW and 35 kW

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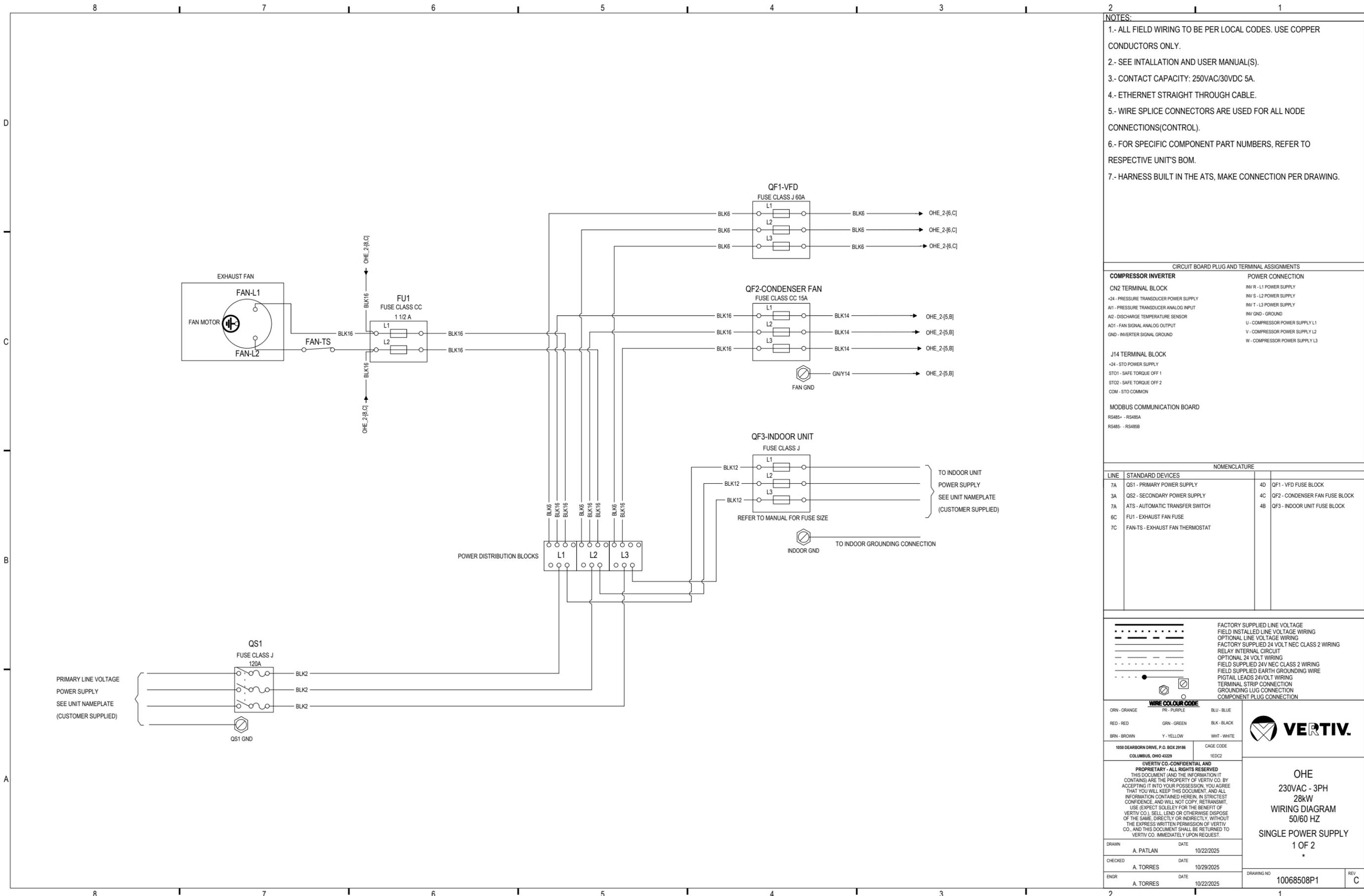
If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

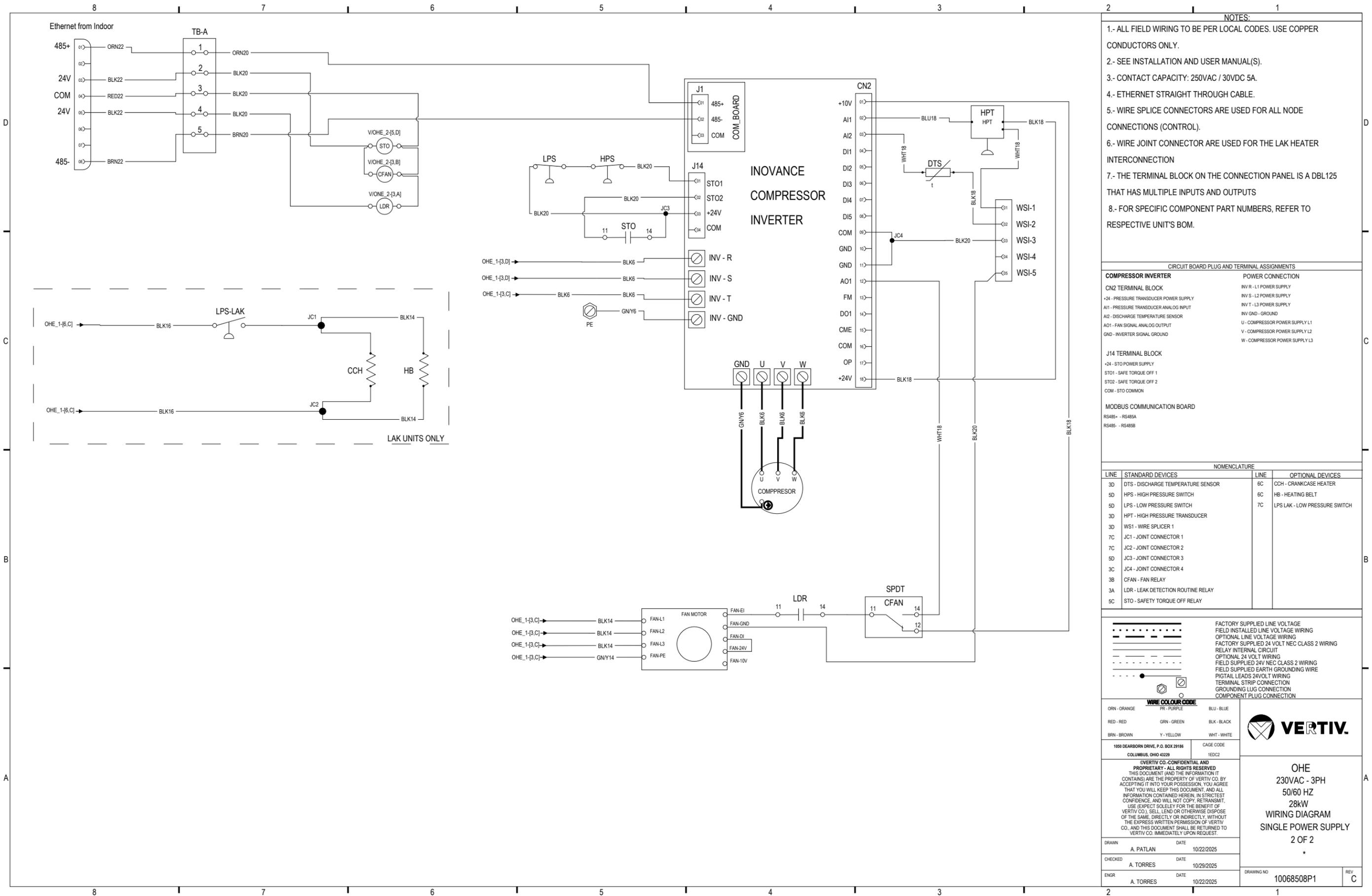
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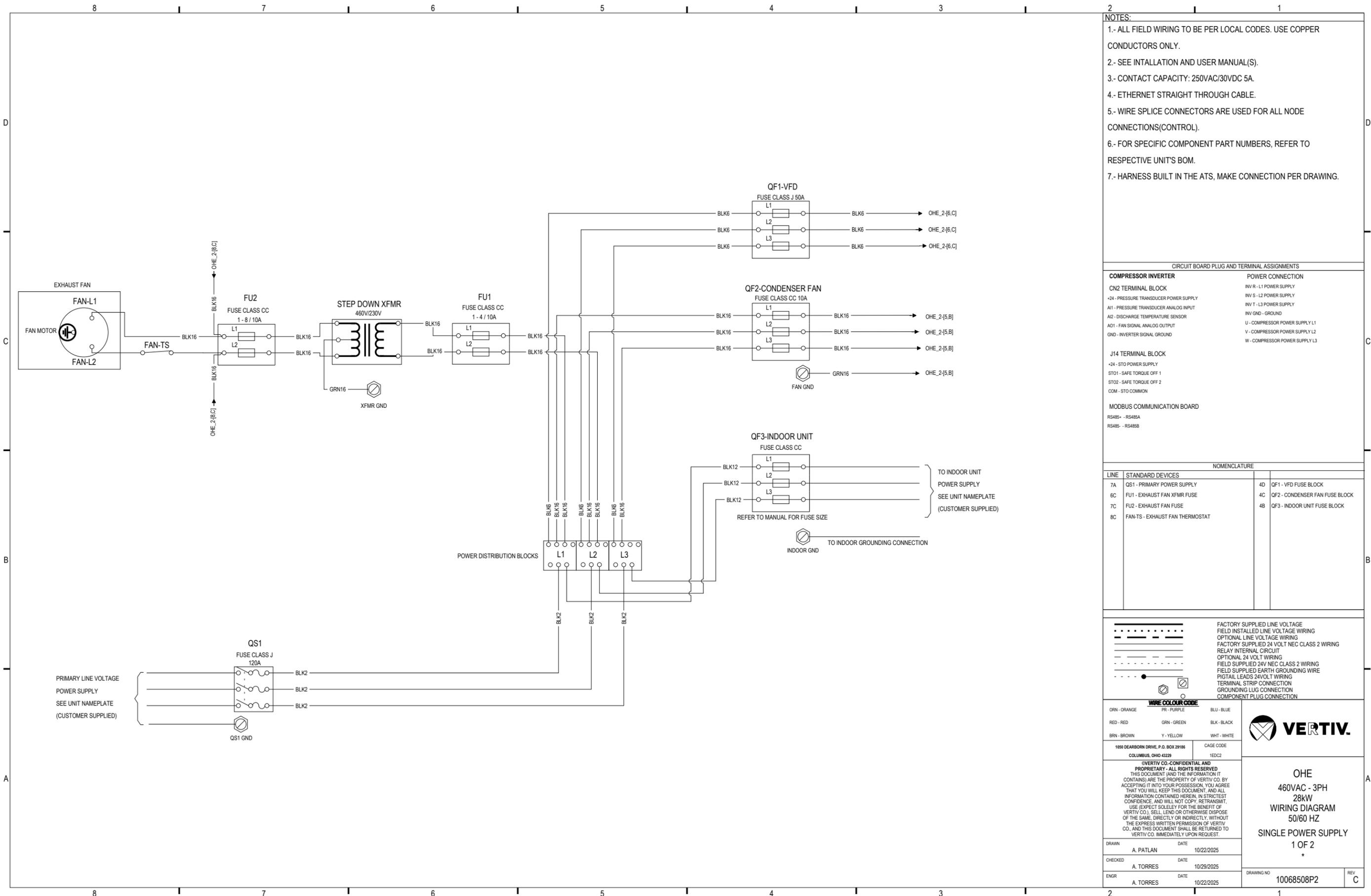
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- NOTES:**
- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
 - 2.- SEE INTALLATION AND USER MANUAL(S).
 - 3.- CONTACT CAPACITY: 250VAC/30VDC 5A.
 - 4.- ETHERNET STRAIGHT THROUGH CABLE.
 - 5.- WIRE SPLICE CONNECTORS ARE USED FOR ALL NODE CONNECTIONS(CONTROL).
 - 6.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNITS BOM.
 - 7.- HARNESS BUILT IN THE ATS, MAKE CONNECTION PER DRAWING.

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

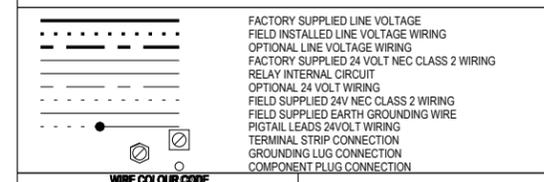
COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L3 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A12 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK	POWER CONNECTION
+24 - STO POWER SUPPLY	
ST01 - SAFE TORQUE OFF 1	
ST02 - SAFE TORQUE OFF 2	
COM - STO COMMON	

MODBUS COMMUNICATION BOARD	POWER CONNECTION
RS485+ - RS485A	
RS485- - RS485B	

NOMENCLATURE

LINE	STANDARD DEVICES	DESCRIPTION
7A	QS1 - PRIMARY POWER SUPPLY	QF1 - VFD FUSE BLOCK
6C	FU1 - EXHAUST FAN XFMR FUSE	QF2 - CONDENSER FAN FUSE BLOCK
7C	FU2 - EXHAUST FAN FUSE	QF3 - INDOOR UNIT FUSE BLOCK
8C	FAN-TS - EXHAUST FAN THERMOSTAT	



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
BRN - BROWN	Y - YELLOW	WHT - WHITE

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1050 DEARBORN DRIVE, P.O. BOX 29186
COLUMBUS, OHIO 43229

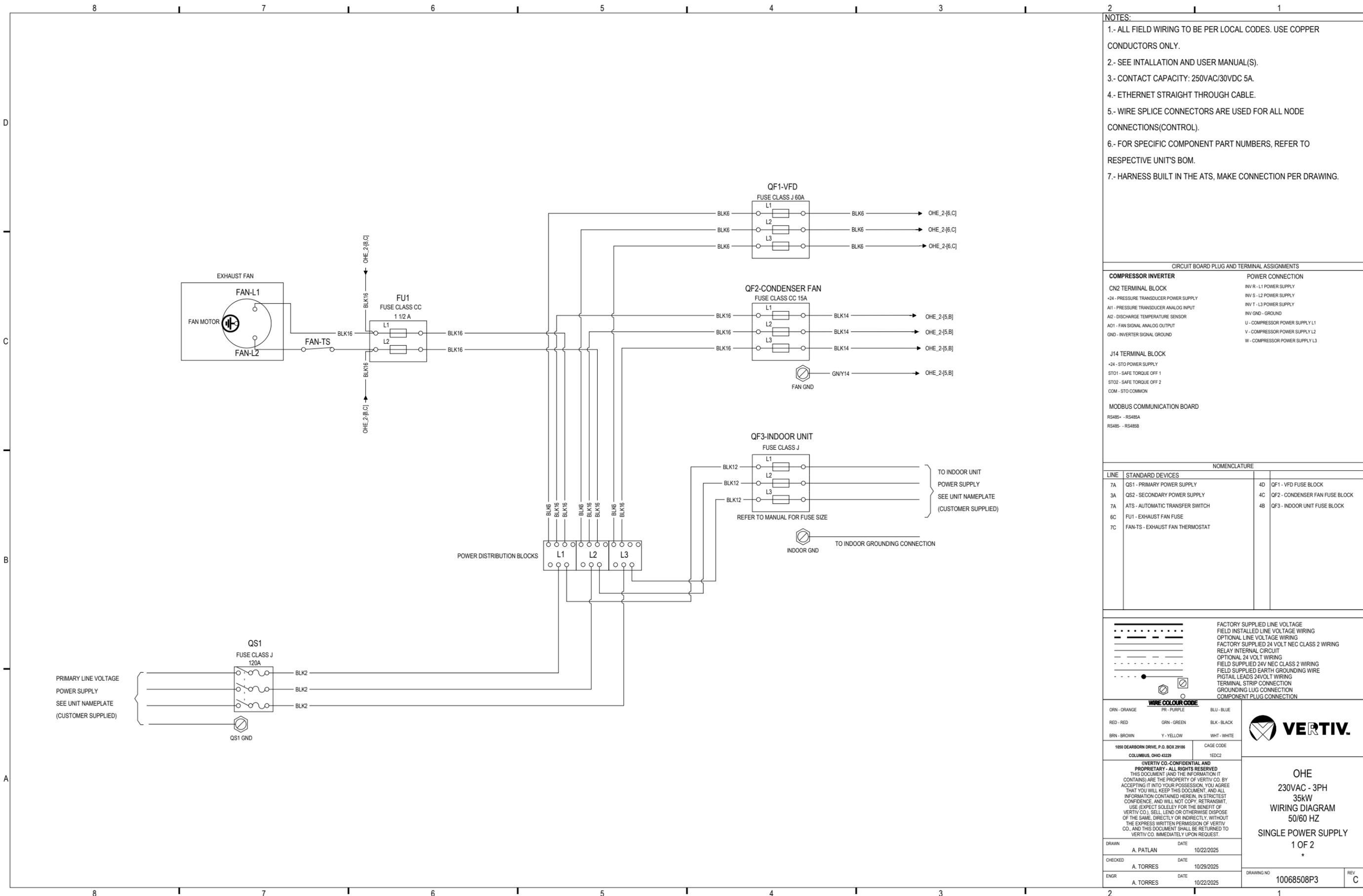
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OHE
460VAC - 3PH
28kW
WIRING DIAGRAM
50/60 HZ
SINGLE POWER SUPPLY
1 OF 2
*

DRAWN	DATE
A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	10/29/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO: 10068508P2
REV: C



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CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

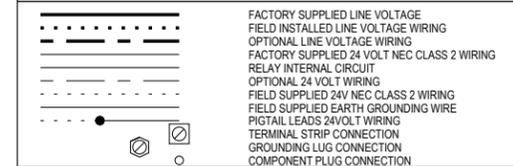
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CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
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A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A12 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	DESCRIPTION
7A	QS1 - PRIMARY POWER SUPPLY	4D QF1 - VFD FUSE BLOCK
3A	QS2 - SECONDARY POWER SUPPLY	4C QF2 - CONDENSER FAN FUSE BLOCK
7A	ATS - AUTOMATIC TRANSFER SWITCH	4B QF3 - INDOOR UNIT FUSE BLOCK
6C	FU1 - EXHAUST FAN FUSE	
7C	FAN-TS - EXHAUST FAN THERMOSTAT	



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
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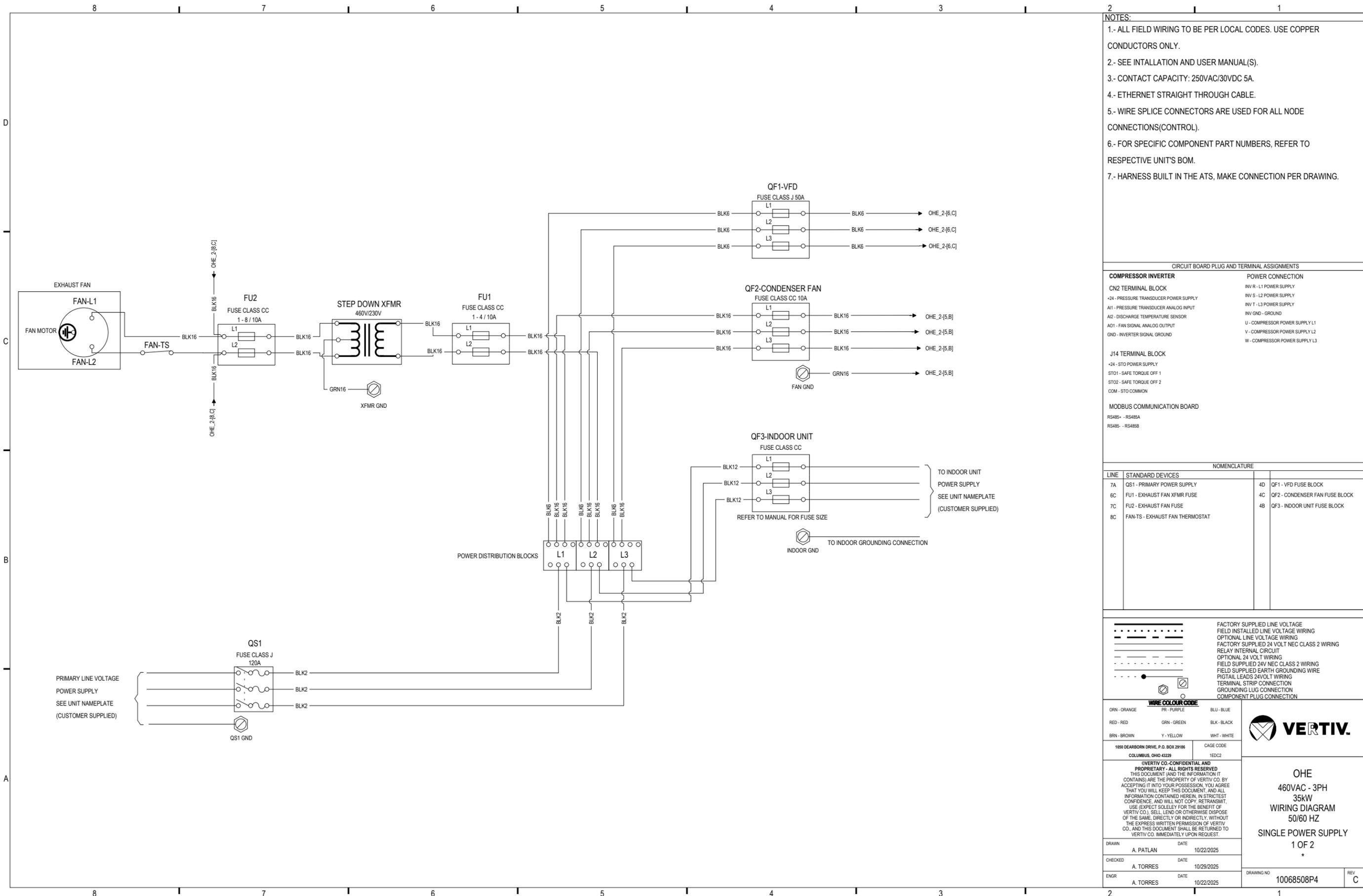
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VERTIV

OHE
 230VAC - 3PH
 35kW
 WIRING DIAGRAM
 50/60 HZ
 SINGLE POWER SUPPLY
 1 OF 2
 *

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A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	10/29/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO: 10068508P3
 REV: C



- NOTES:**
- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
 - 2.- SEE INTALLATION AND USER MANUAL(S).
 - 3.- CONTACT CAPACITY: 250VAC/30VDC 5A.
 - 4.- ETHERNET STRAIGHT THROUGH CABLE.
 - 5.- WIRE SPLICE CONNECTORS ARE USED FOR ALL NODE CONNECTIONS(CONTROL).
 - 6.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNITS BOM.
 - 7.- HARNESS BUILT IN THE ATS, MAKE CONNECTION PER DRAWING.

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

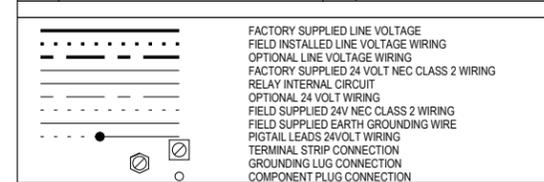
COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L3 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A12 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	4D	4C	4B
7A	QS1 - PRIMARY POWER SUPPLY	4D	QF1 - VFD FUSE BLOCK	
6C	FU1 - EXHAUST FAN XFMR FUSE	4C	QF2 - CONDENSER FAN FUSE BLOCK	
7C	FU2 - EXHAUST FAN FUSE		4B	QF3 - INDOOR UNIT FUSE BLOCK
8C	FAN-TS - EXHAUST FAN THERMOSTAT			



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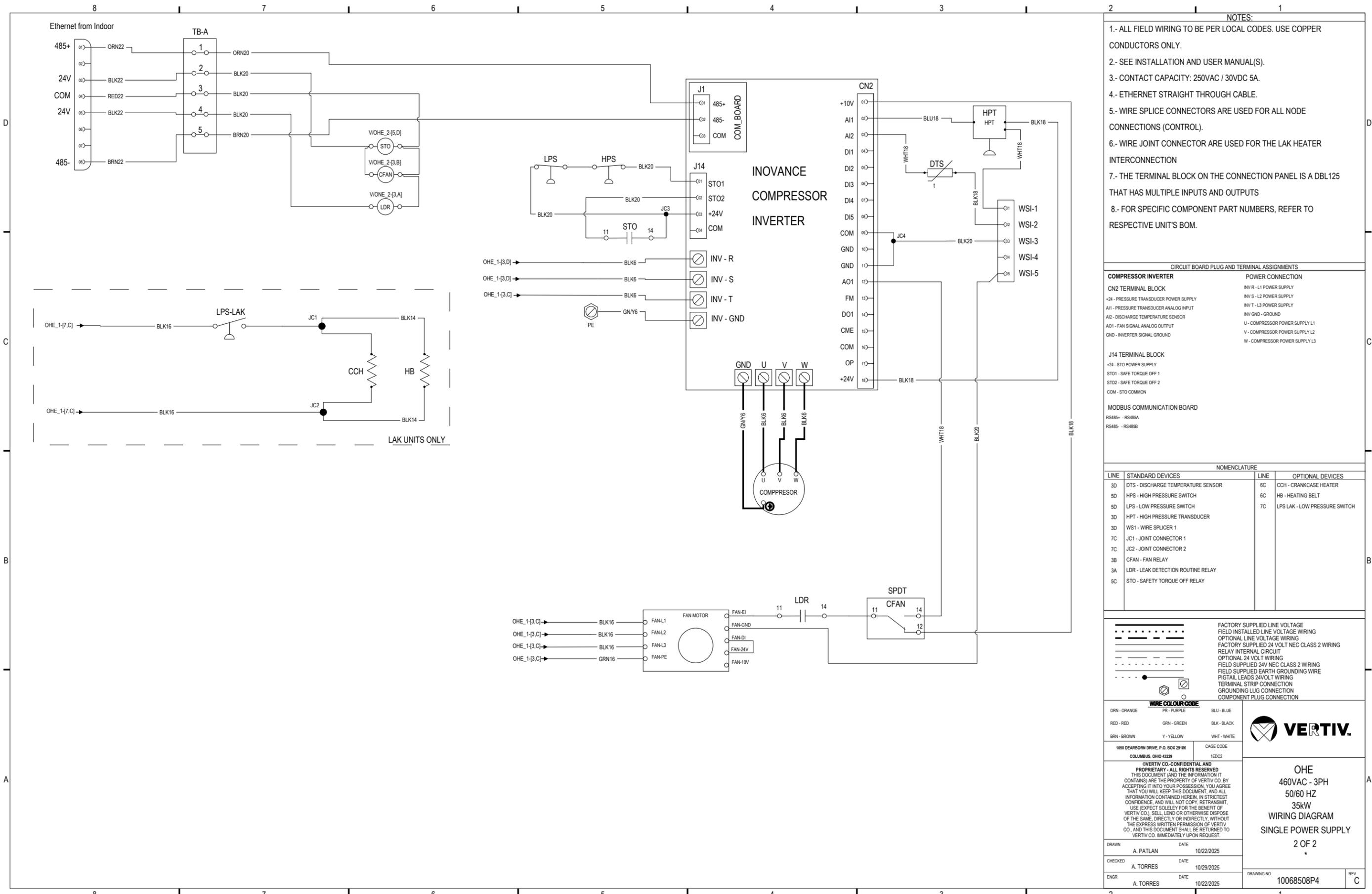
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OHE
460VAC - 3PH
35kW
WIRING DIAGRAM
50/60 HZ
SINGLE POWER SUPPLY
1 OF 2
*

DRAWN	DATE
A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	10/29/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO: 10068508P4
REV: C



- NOTES:**
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 - 4.- ETHERNET STRAIGHT THROUGH CABLE.
 - 5.- WIRE SPLICE CONNECTORS ARE USED FOR ALL NODE CONNECTIONS (CONTROL).
 - 6.- WIRE JOINT CONNECTOR ARE USED FOR THE LAK HEATER INTERCONNECTION
 - 7.- THE TERMINAL BLOCK ON THE CONNECTION PANEL IS A DBL125 THAT HAS MULTIPLE INPUTS AND OUTPUTS
 - 8.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNIT'S BOM.

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
AI1 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
AI2 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
AO1 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK

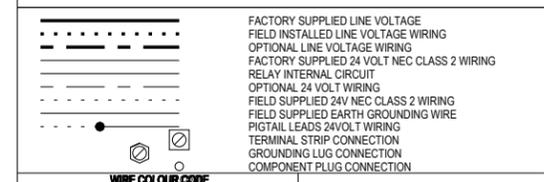
+24 - STO POWER SUPPLY
STO1 - SAFE TORQUE OFF 1
STO2 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD

RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	OPTIONAL DEVICES
3D	DTS - DISCHARGE TEMPERATURE SENSOR	6C	CCH - CRANKCASE HEATER
5D	HPS - HIGH PRESSURE SWITCH	6C	HB - HEATING BELT
5D	LPS - LOW PRESSURE SWITCH	7C	LPS LAK - LOW PRESSURE SWITCH
3D	HPT - HIGH PRESSURE TRANSDUCER		
3D	WS1 - WIRE SPLICER 1		
7C	JC1 - JOINT CONNECTOR 1		
7C	JC2 - JOINT CONNECTOR 2		
3B	CFAN - FAN RELAY		
3A	LDR - LEAK DETECTION ROUTINE RELAY		
5C	STO - SAFETY TORQUE OFF RELAY		



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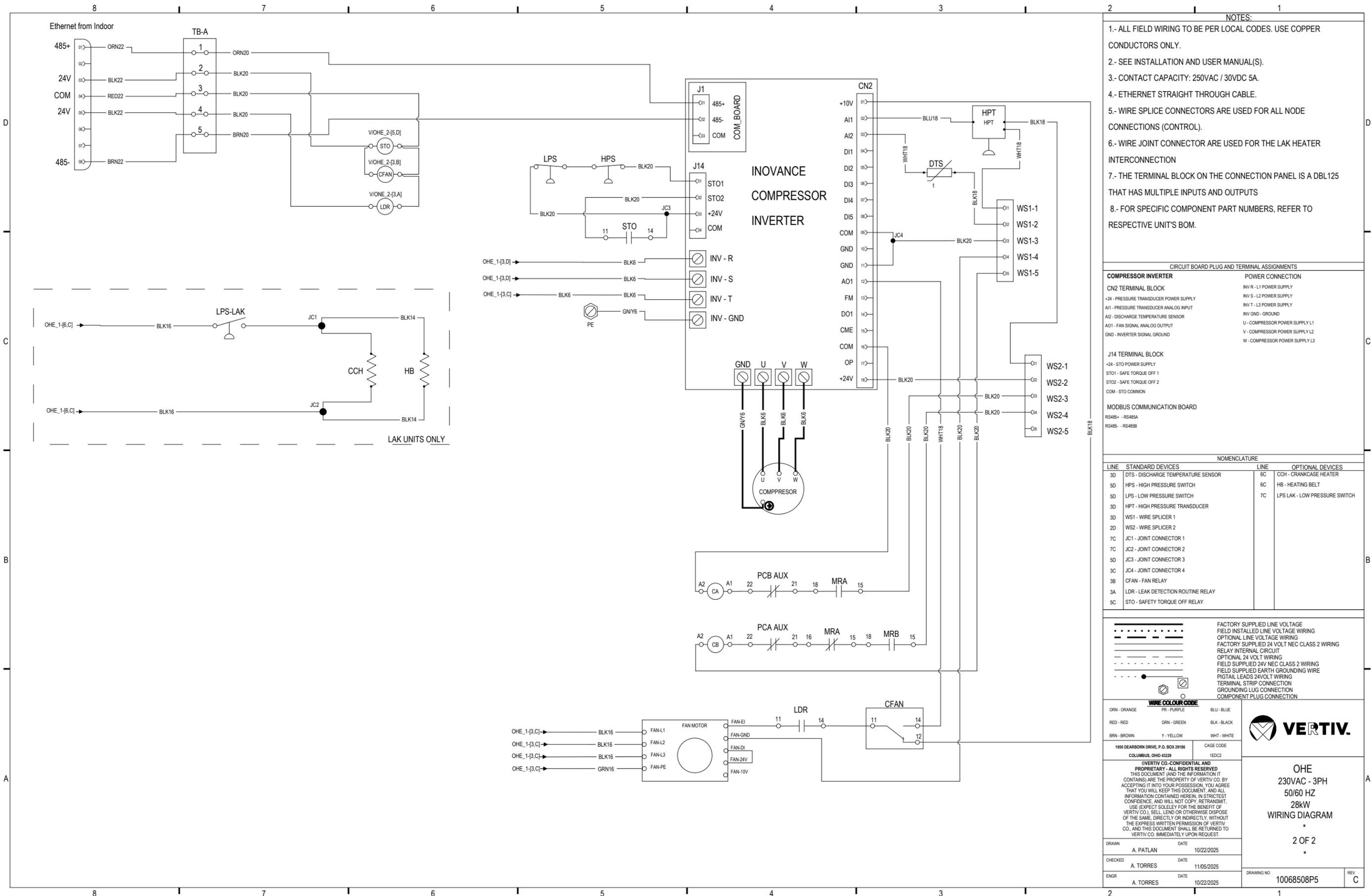
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VERTIV

OHE
460VAC - 3PH
50/60 HZ
35kW
WIRING DIAGRAM
SINGLE POWER SUPPLY
2 OF 2

DRAWN: A. PATLAN DATE: 10/22/2025
CHECKED: A. TORRES DATE: 10/29/2025
ENGR: A. TORRES DATE: 10/22/2025

DRAWING NO: 10068508P4 REV: C



- NOTES:**
- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
 - 2.- SEE INSTALLATION AND USER MANUAL(S).
 - 3.- CONTACT CAPACITY: 250VAC / 30VDC 5A.
 - 4.- ETHERNET STRAIGHT THROUGH CABLE.
 - 5.- WIRE SPLICE CONNECTORS ARE USED FOR ALL NODE CONNECTIONS (CONTROL).
 - 6.- WIRE JOINT CONNECTOR ARE USED FOR THE LAK HEATER INTERCONNECTION
 - 7.- THE TERMINAL BLOCK ON THE CONNECTION PANEL IS A DBL125 THAT HAS MULTIPLE INPUTS AND OUTPUTS
 - 8.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNIT'S BOM.

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
AI1 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A2 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
AO1 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
STO1 - SAFE TORQUE OFF 1
STO2 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	OPTIONAL DEVICES
3D	DTS - DISCHARGE TEMPERATURE SENSOR	6C	CCH - CRANKCASE HEATER
5D	HPS - HIGH PRESSURE SWITCH	6C	HB - HEATING BELT
5D	LPS - LOW PRESSURE SWITCH	7C	LPS LAK - LOW PRESSURE SWITCH
3D	HPT - HIGH PRESSURE TRANSDUCER		
3D	WS1 - WIRE SPLICER 1		
2D	WS2 - WIRE SPLICER 2		
7C	JC1 - JOINT CONNECTOR 1		
7C	JC2 - JOINT CONNECTOR 2		
5D	JC3 - JOINT CONNECTOR 3		
3C	JC4 - JOINT CONNECTOR 4		
3B	CFAN - FAN RELAY		
3A	LDR - LEAK DETECTION ROUTINE RELAY		
5C	STO - SAFETY TORQUE OFF RELAY		

- - - - - FACTORY SUPPLIED LINE VOLTAGE WIRING
 - - - - - FIELD INSTALLED LINE VOLTAGE WIRING
 - - - - - OPTIONAL LINE VOLTAGE WIRING
 - - - - - FACTORY SUPPLIED 24 VOLT NEC CLASS 2 WIRING
 - - - - - RELAY INTERNAL CIRCUIT
 - - - - - OPTIONAL 24 VOLT WIRING
 - - - - - FIELD SUPPLIED 24V NEC CLASS 2 WIRING
 - - - - - FIELD SUPPLIED EARTH GROUNDING WIRE
 - - - - - PIGTAIL LEADS 24VOLT WIRING
 - - - - - TERMINAL STRIP CONNECTION
 - - - - - GROUNDING LUG CONNECTION
 - - - - - COMPONENT PLUG CONNECTION

WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
BRN - BROWN	Y - YELLOW	WHT - WHITE

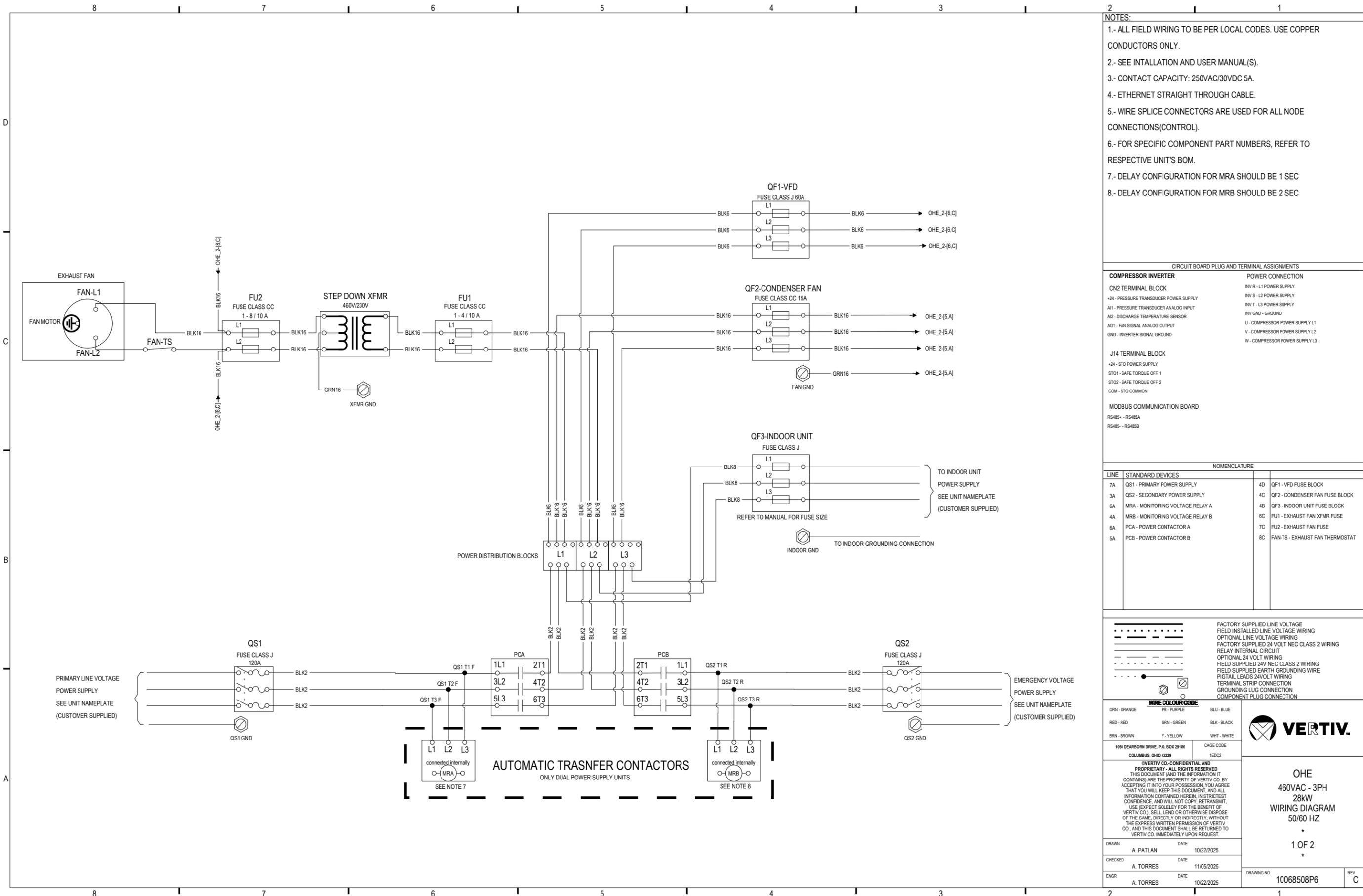
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 COLUMBUS, OHIO 43229
 CAGE CODE 1EDC2

VERTIV

OHE
 230VAC - 3PH
 50/60 HZ
 28kW
 WIRING DIAGRAM
 *
 2 OF 2
 *

DRAWN	DATE	REV
A. PATLAN	10/22/2025	C
A. TORRES	11/05/2025	
A. TORRES	10/22/2025	

DRAWING NO: 10068508P5



- NOTES:**
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 - 6.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNITS BOM.
 - 7.- DELAY CONFIGURATION FOR MRA SHOULD BE 1 SEC
 - 8.- DELAY CONFIGURATION FOR MRB SHOULD BE 2 SEC

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A12 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK

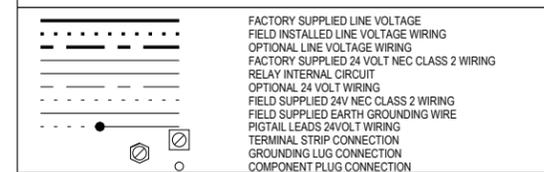
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD

RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	
7A	QS1 - PRIMARY POWER SUPPLY	4D QF1 - VFD FUSE BLOCK
3A	QS2 - SECONDARY POWER SUPPLY	4C QF2 - CONDENSER FAN FUSE BLOCK
6A	MRA - MONITORING VOLTAGE RELAY A	4B QF3 - INDOOR UNIT FUSE BLOCK
4A	MRB - MONITORING VOLTAGE RELAY B	6C FU1 - EXHAUST FAN XFMR FUSE
6A	PCA - POWER CONTACTOR A	7C FU2 - EXHAUST FAN FUSE
5A	PCB - POWER CONTACTOR B	8C FAN-TS - EXHAUST FAN THERMOSTAT



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
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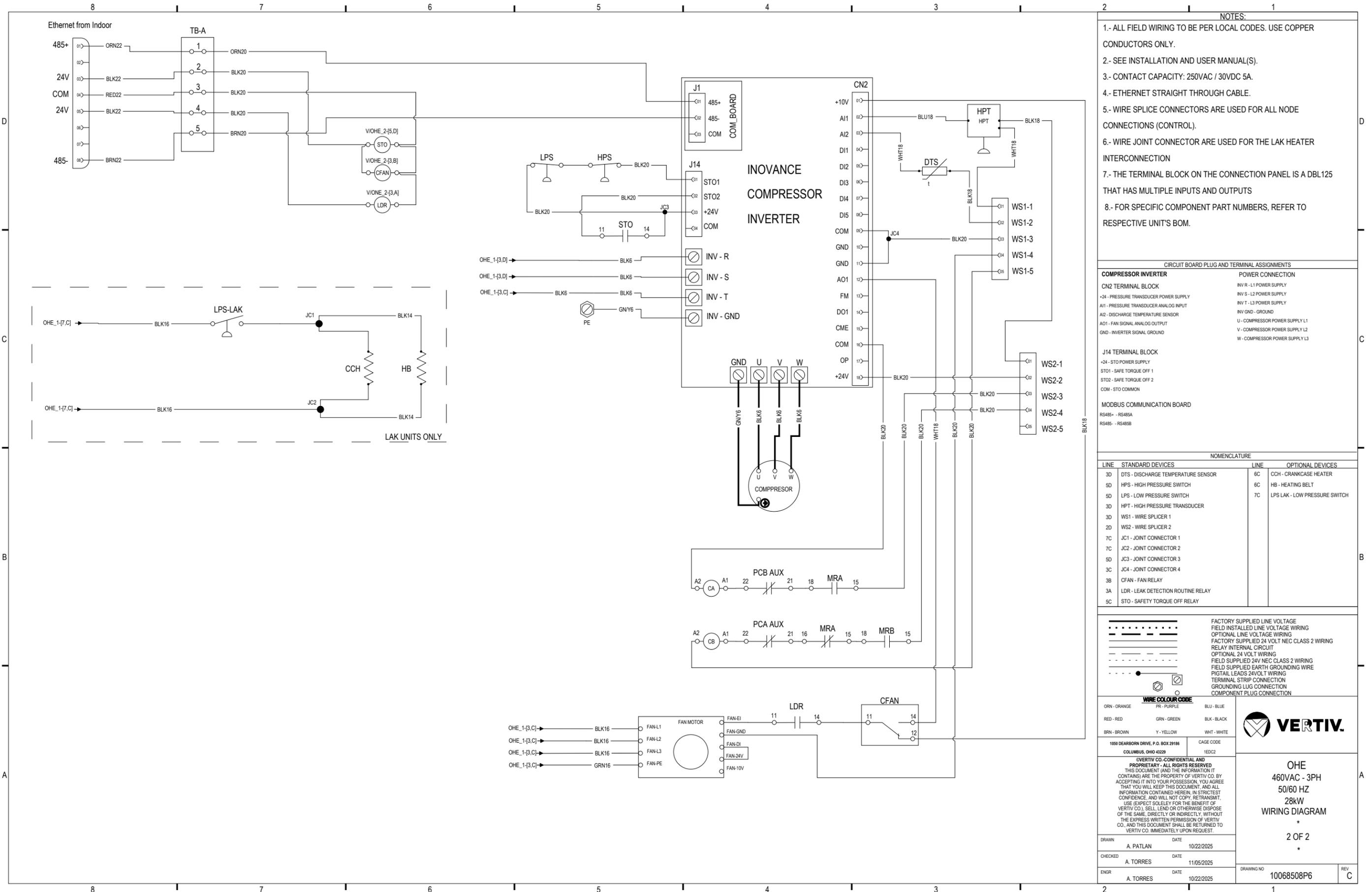
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DRAWN	A. PATLAN	DATE	10/22/2025
CHECKED	A. TORRES	DATE	11/05/2025
ENGR	A. TORRES	DATE	10/22/2025

DRAWING NO: 10068508P6

OHE
 460VAC - 3PH
 28kW
 WIRING DIAGRAM
 50/60 HZ
 *
 1 OF 2
 *



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- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
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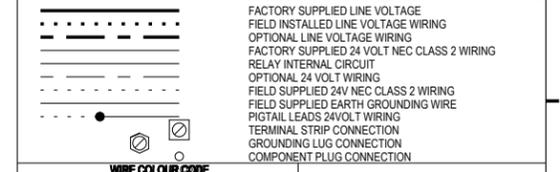
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+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A2 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
STO1 - SAFE TORQUE OFF 1
STO2 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	OPTIONAL DEVICES
3D	DTS - DISCHARGE TEMPERATURE SENSOR	6C	CCH - CRANKCASE HEATER
5D	HPS - HIGH PRESSURE SWITCH	6C	HB - HEATING BELT
5D	LPS - LOW PRESSURE SWITCH	7C	LPS LAK - LOW PRESSURE SWITCH
3D	HPT - HIGH PRESSURE TRANSDUCER		
3D	WS1 - WIRE SPLICER 1		
2D	WS2 - WIRE SPLICER 2		
7C	JC1 - JOINT CONNECTOR 1		
7C	JC2 - JOINT CONNECTOR 2		
5D	JC3 - JOINT CONNECTOR 3		
3C	JC4 - JOINT CONNECTOR 4		
3B	CFAN - FAN RELAY		
3A	LDR - LEAK DETECTION ROUTINE RELAY		
5C	STO - SAFETY TORQUE OFF RELAY		



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
BRN - BROWN	Y - YELLOW	WHT - WHITE

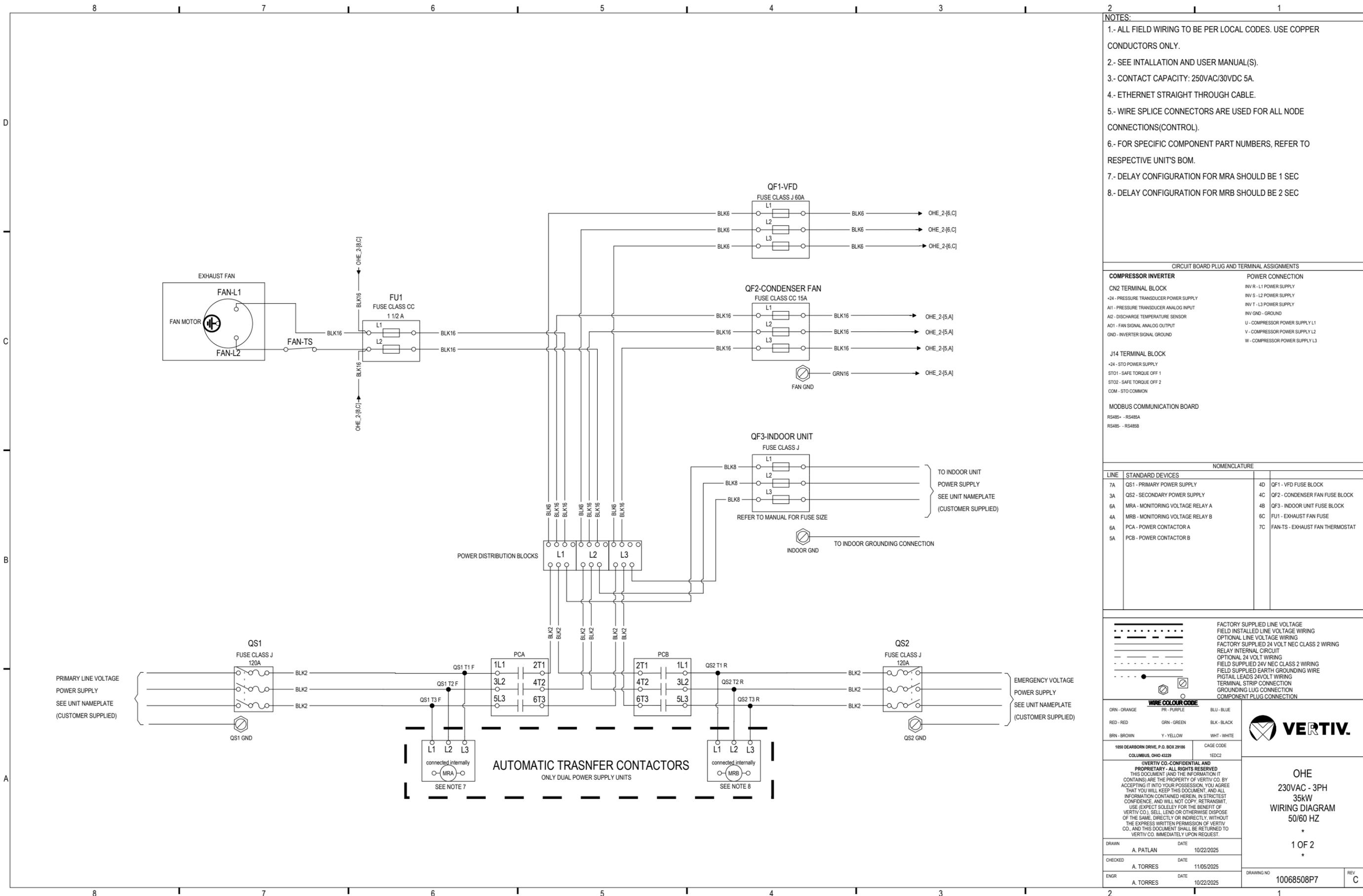
1050 DEARBORN DRIVE, P.O. BOX 29186
 COLUMBUS, OHIO 43229

VERTIV

OHE
 460VAC - 3PH
 50/60 HZ
 28kW
 WIRING DIAGRAM
 *
 2 OF 2
 *

DRAWN	DATE
A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	11/05/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO: 10068508P6



- NOTES:**
- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
 - 2.- SEE INTALLATION AND USER MANUAL(S).
 - 3.- CONTACT CAPACITY: 250VAC/30VDC 5A.
 - 4.- ETHERNET STRAIGHT THROUGH CABLE.
 - 5.- WIRE SPLICE CONNECTORS ARE USED FOR ALL NODE CONNECTIONS(CONTROL).
 - 6.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNITS BOM.
 - 7.- DELAY CONFIGURATION FOR MRA SHOULD BE 1 SEC
 - 8.- DELAY CONFIGURATION FOR MRB SHOULD BE 2 SEC

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A12 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
A01 - FAN SIGNAL ANALOG OUTPUT	U - COMPRESSOR POWER SUPPLY L1
GND - INVERTER SIGNAL GROUND	V - COMPRESSOR POWER SUPPLY L2
	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK

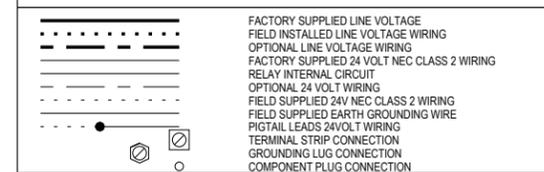
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD

RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	
7A	QS1 - PRIMARY POWER SUPPLY	4D QF1 - VFD FUSE BLOCK
3A	QS2 - SECONDARY POWER SUPPLY	4C QF2 - CONDENSER FAN FUSE BLOCK
6A	MRA - MONITORING VOLTAGE RELAY A	4B QF3 - INDOOR UNIT FUSE BLOCK
4A	MRB - MONITORING VOLTAGE RELAY B	4E FU1 - EXHAUST FAN FUSE
6A	PCA - POWER CONTACTOR A	7C FAN-TS - EXHAUST FAN THERMOSTAT
5A	PCB - POWER CONTACTOR B	



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
RED - RED	GRN - GREEN	BLK - BLACK
BRN - BROWN	Y - YELLOW	WHT - WHITE

VERTIV

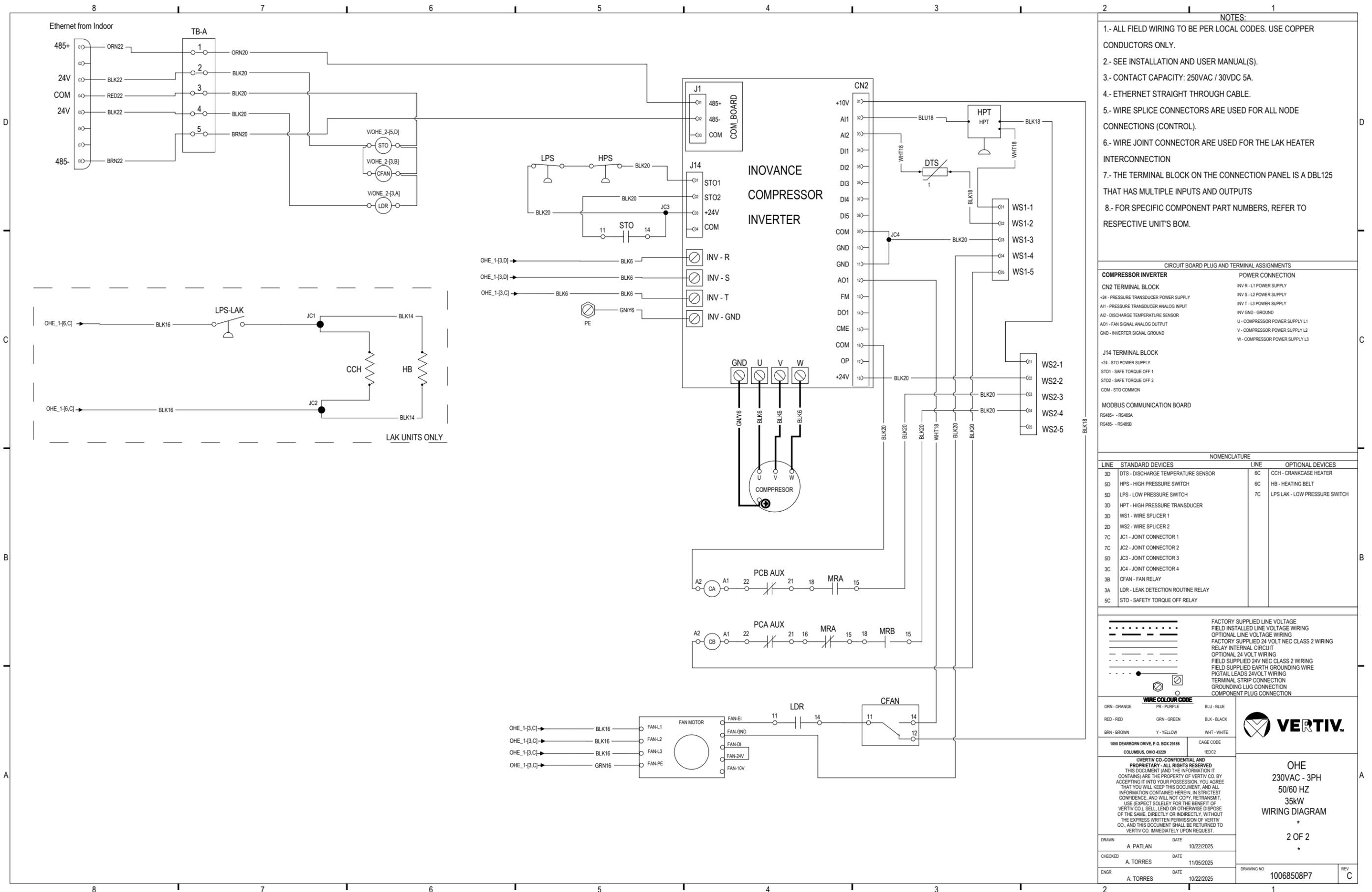
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 COLUMBUS, OHIO 43229

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OHE
 230VAC - 3PH
 35kW
 WIRING DIAGRAM
 50/60 HZ
 *
 1 OF 2
 *

DRAWN	DATE
A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	11/05/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO: 10068508P7



- NOTES:**
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 - 7.- THE TERMINAL BLOCK ON THE CONNECTION PANEL IS A DBL125 THAT HAS MULTIPLE INPUTS AND OUTPUTS
 - 8.- FOR SPECIFIC COMPONENT PART NUMBERS, REFER TO RESPECTIVE UNIT'S BOM.

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

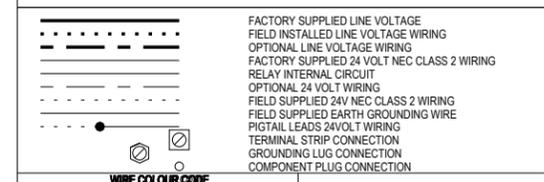
COMPRESSOR INVERTER	POWER CONNECTION
CN2 TERMINAL BLOCK	INV R - L1 POWER SUPPLY
+24 - PRESSURE TRANSDUCER POWER SUPPLY	INV S - L2 POWER SUPPLY
A11 - PRESSURE TRANSDUCER ANALOG INPUT	INV T - L3 POWER SUPPLY
A2 - DISCHARGE TEMPERATURE SENSOR	INV GND - GROUND
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J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
STO1 - SAFE TORQUE OFF 1
STO2 - SAFE TORQUE OFF 2
COM - STO COMMON

MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	OPTIONAL DEVICES
3D	DTS - DISCHARGE TEMPERATURE SENSOR	6C	CCH - CRANKCASE HEATER
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5D	LPS - LOW PRESSURE SWITCH	7C	LPS LAK - LOW PRESSURE SWITCH
3D	HPT - HIGH PRESSURE TRANSDUCER		
3D	WS1 - WIRE SPLICER 1		
2D	WS2 - WIRE SPLICER 2		
7C	JC1 - JOINT CONNECTOR 1		
7C	JC2 - JOINT CONNECTOR 2		
5D	JC3 - JOINT CONNECTOR 3		
3C	JC4 - JOINT CONNECTOR 4		
3B	CFAN - FAN RELAY		
3A	LDR - LEAK DETECTION ROUTINE RELAY		
5C	STO - SAFETY TORQUE OFF RELAY		



WIRE COLOUR CODE

ORN - ORANGE	PR - PURPLE	BLU - BLUE
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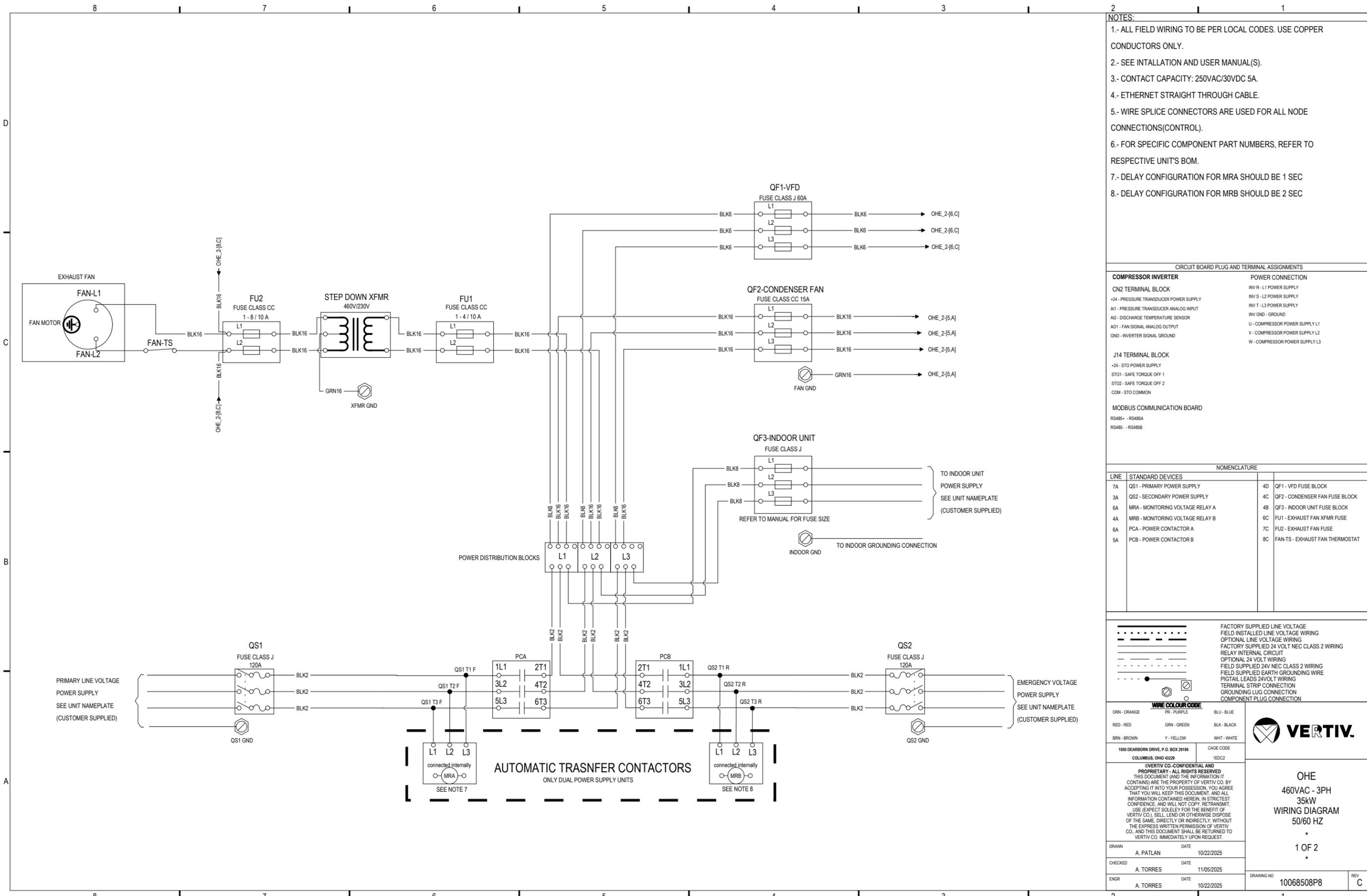
1050 DEARBORN DRIVE, P.O. BOX 29186
 COLUMBUS, OHIO 43229

VERTIV

OHE
 230VAC - 3PH
 50/60 HZ
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 WIRING DIAGRAM
 *
 2 OF 2
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DRAWN	DATE
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CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

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	W - COMPRESSOR POWER SUPPLY L3

J14 TERMINAL BLOCK

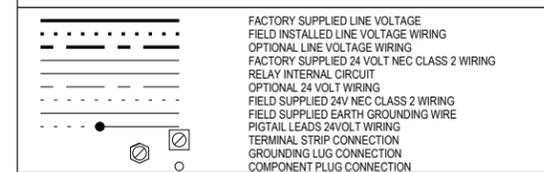
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
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MODBUS COMMUNICATION BOARD

RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	
7A	QS1 - PRIMARY POWER SUPPLY	4D QF1 - VFD FUSE BLOCK
3A	QS2 - SECONDARY POWER SUPPLY	4C QF2 - CONDENSER FAN FUSE BLOCK
6A	MRA - MONITORING VOLTAGE RELAY A	4B QF3 - INDOOR UNIT FUSE BLOCK
4A	MRB - MONITORING VOLTAGE RELAY B	6C FU1 - EXHAUST FAN XFMR FUSE
6A	PCA - POWER CONTACTOR A	7C FU2 - EXHAUST FAN FUSE
5A	PCB - POWER CONTACTOR B	8C FAN-TS - EXHAUST FAN THERMOSTAT



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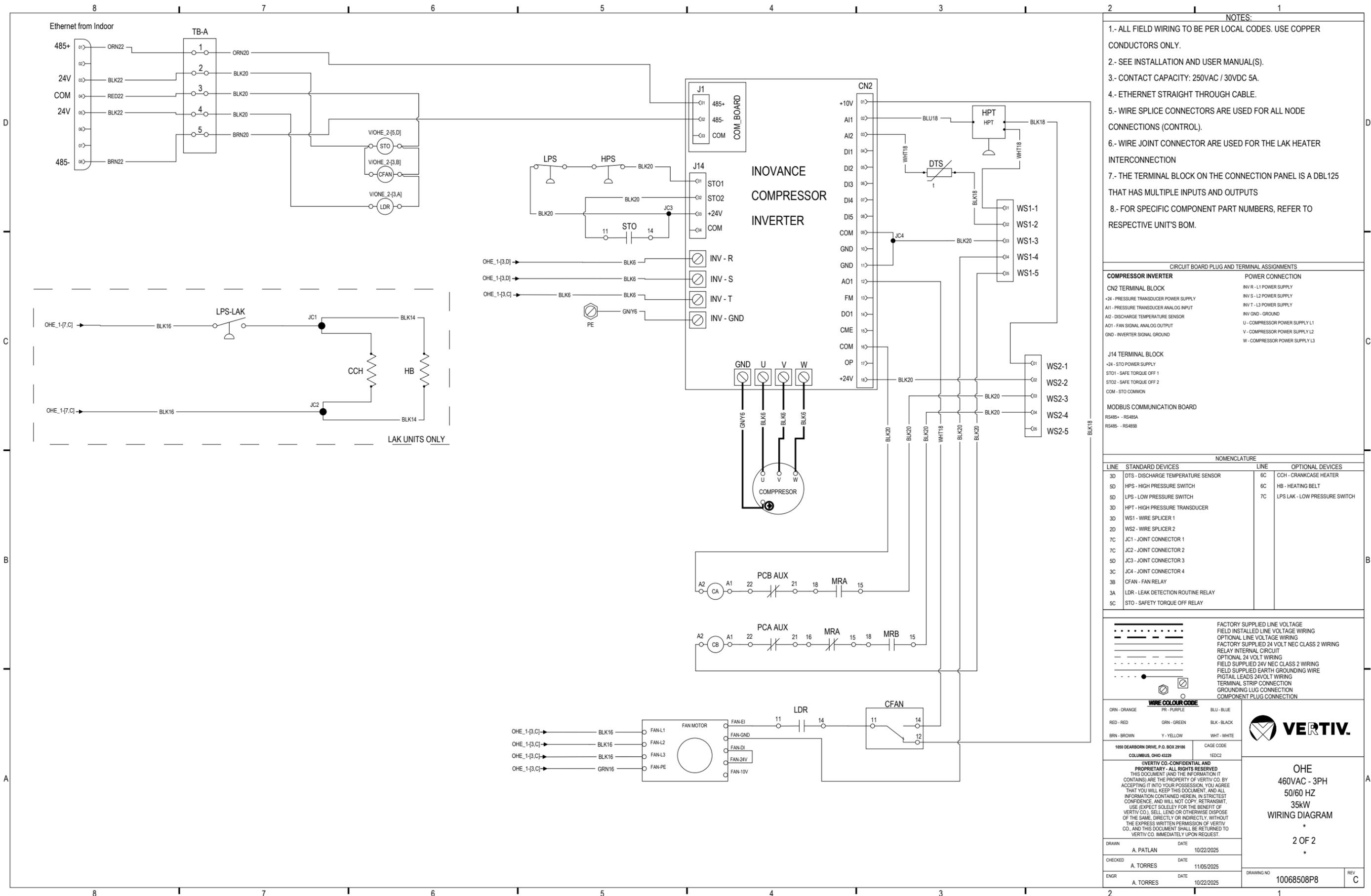
1050 DEARBORN DRIVE, P.O. BOX 29186
 COLUMBUS, OHIO 43229

VERTIV.

OHE
 460VAC - 3PH
 35kW
 WIRING DIAGRAM
 50/60 HZ
 *
 1 OF 2
 *

DRAWN	A. PATLAN	DATE	10/22/2025
CHECKED	A. TORRES	DATE	11/05/2025
ENGR	A. TORRES	DATE	10/22/2025

DRAWING NO: 10068508P8
 REV: C



- NOTES:**
- 1.- ALL FIELD WIRING TO BE PER LOCAL CODES. USE COPPER CONDUCTORS ONLY.
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CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

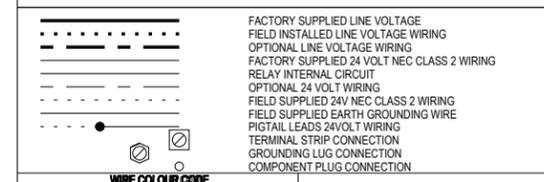
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J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
STO1 - SAFE TORQUE OFF 1
STO2 - SAFE TORQUE OFF 2
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MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	OPTIONAL DEVICES
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3D	HPT - HIGH PRESSURE TRANSDUCER		
3D	WS1 - WIRE SPLICER 1		
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WIRE COLOUR CODE

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1050 DEARBORN DRIVE, P.O. BOX 29186
 COLUMBUS, OHIO 43229

CAGE CODE
 1EDC2

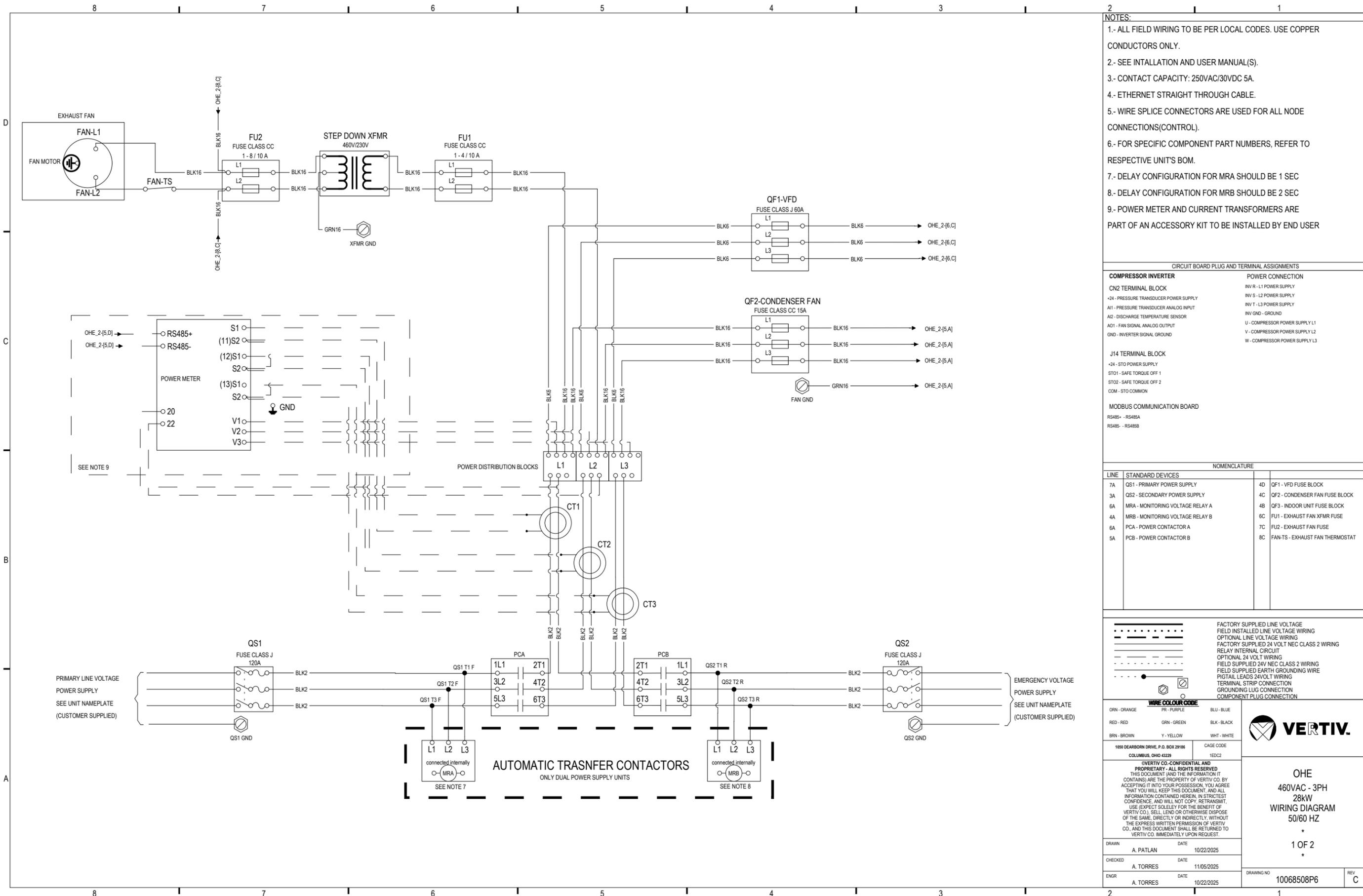
VERTIV

OHE
 460VAC - 3PH
 50/60 HZ
 35kW
 WIRING DIAGRAM
 *
 2 OF 2
 *

DRAWN	DATE
A. PATLAN	10/22/2025
CHECKED	DATE
A. TORRES	11/05/2025
ENGR	DATE
A. TORRES	10/22/2025

DRAWING NO
 10068508P8

REV
 C



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 - 9.- POWER METER AND CURRENT TRANSFORMERS ARE PART OF AN ACCESSORY KIT TO BE INSTALLED BY END USER

CIRCUIT BOARD PLUG AND TERMINAL ASSIGNMENTS

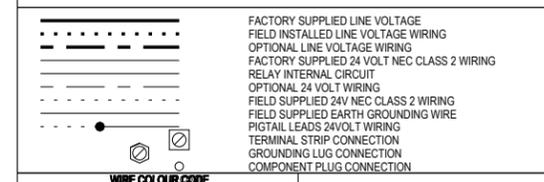
COMPRESSOR INVERTER	POWER CONNECTION
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J14 TERMINAL BLOCK
+24 - STO POWER SUPPLY
ST01 - SAFE TORQUE OFF 1
ST02 - SAFE TORQUE OFF 2
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MODBUS COMMUNICATION BOARD
RS485+ - RS485A
RS485- - RS485B

NOMENCLATURE

LINE	STANDARD DEVICES	LINE	STANDARD DEVICES
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3A	QS2 - SECONDARY POWER SUPPLY	4C	QF2 - CONDENSER FAN FUSE BLOCK
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4A	MRB - MONITORING VOLTAGE RELAY B	6C	FU1 - EXHAUST FAN XFMR FUSE
6A	PCA - POWER CONTACTOR A	7C	FU2 - EXHAUST FAN FUSE
5A	PCB - POWER CONTACTOR B	8C	FAN-TS - EXHAUST FAN THERMOSTAT



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CAGE CODE
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OHE
 460VAC - 3PH
 28kW
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 50/60 HZ
 *
 1 OF 2
 *

DRAWN	DATE
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DRAWING NO: 10068508P6
 REV: C



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