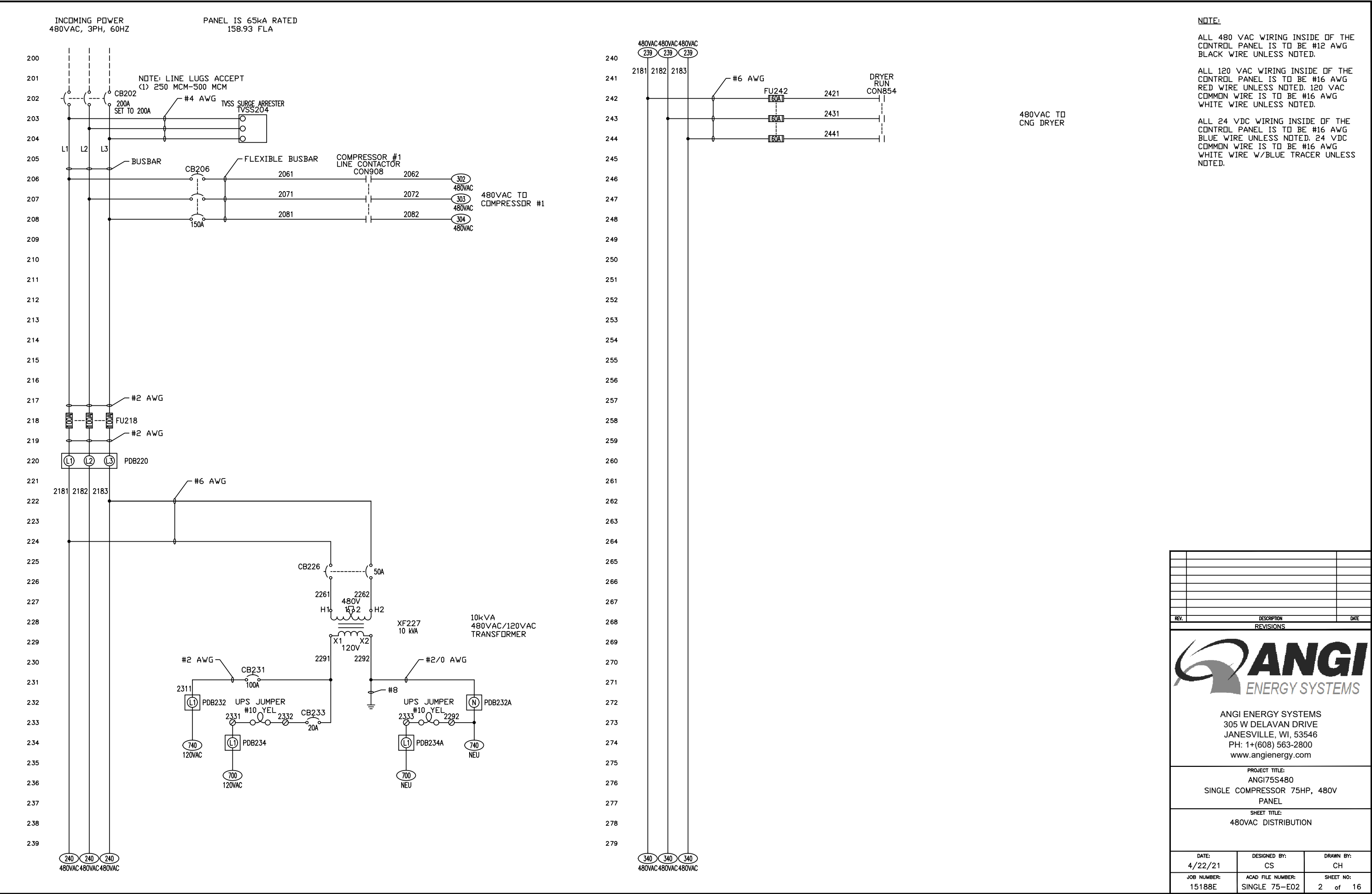
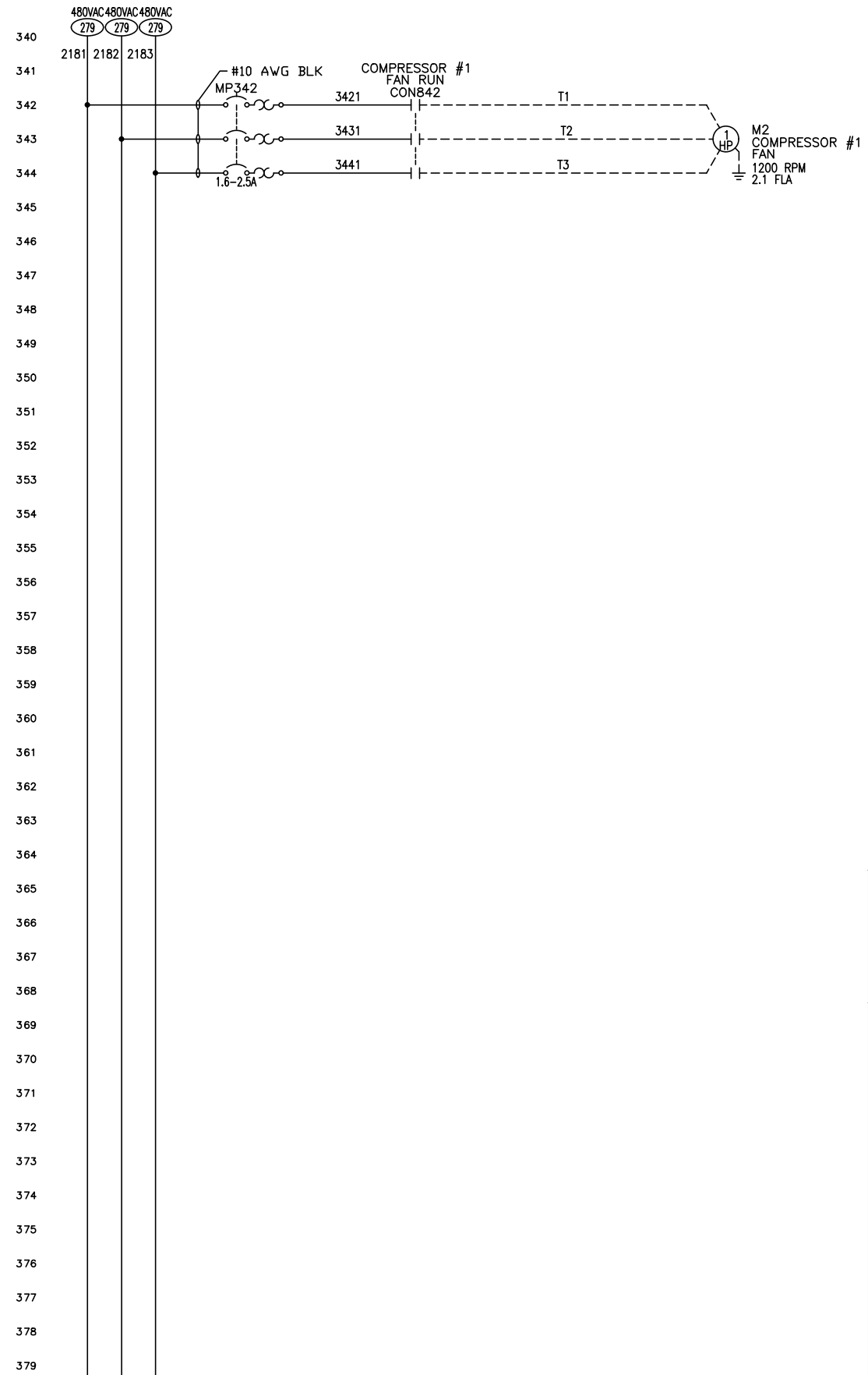
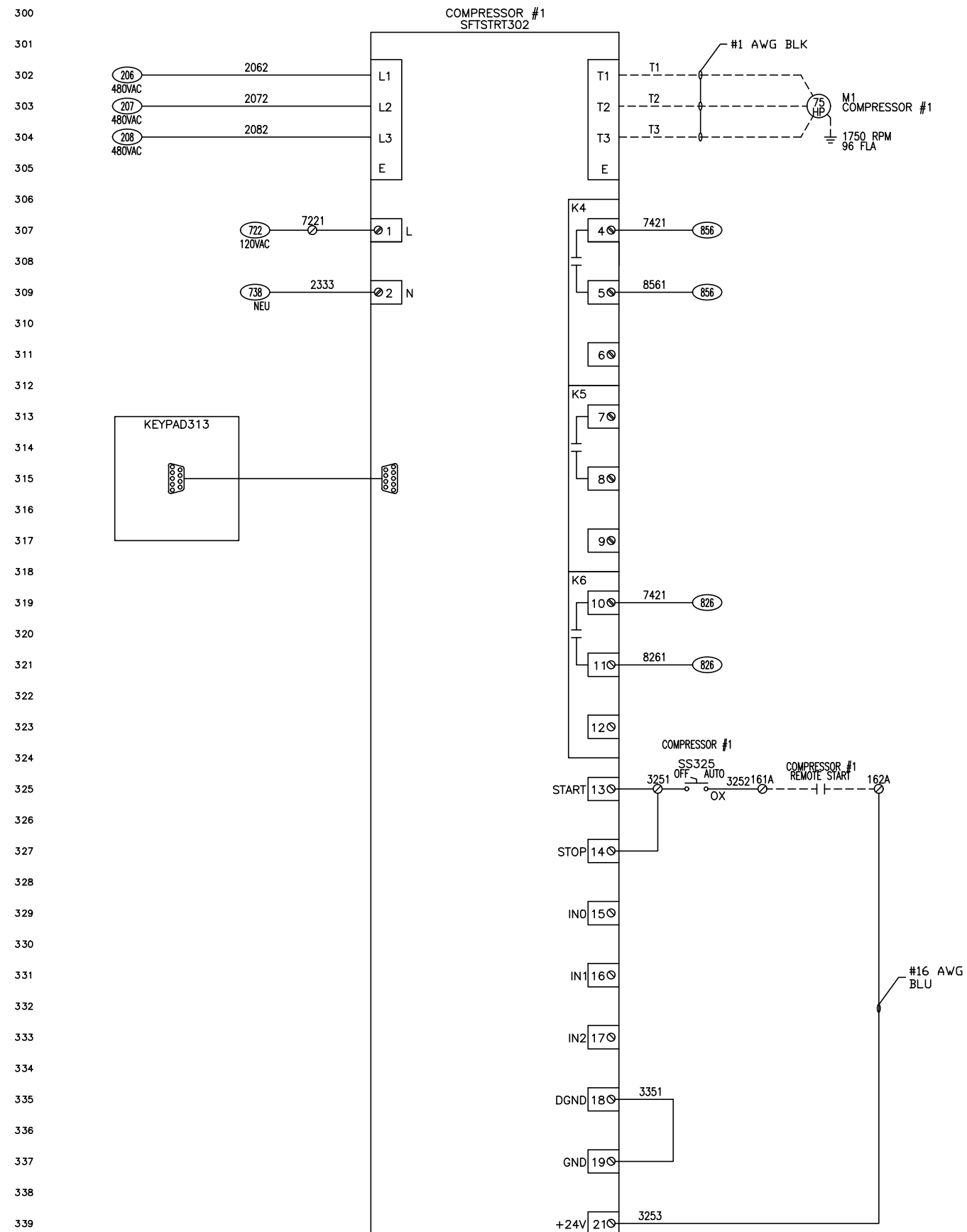


ELECTRICAL DRAWINGS

OPTIONS		
	1	TIME DELAY RELAY
	2	FAN & FILTER KIT (105-120F)
	3	HEATER-EXTREME COLD WEATHER (TO-40F)
	4	STACK LIGHT
	5	AC-EXTEND TEMP (TO +140F)
	6	LOCKABLE COMPRESSOR CIRCUIT BREAKER
	7	ETHERNET COMMUNICATION MODULE

REV.	DESCRIPTION	DATE	
REVISIONS			
 ANGI ENERGY SYSTEMS ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com			
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL			
SHEET TITLE: TABLE OF CONTENTS			
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH	
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGL 75-E01	SHEET NO: 1 of 16	





NOTE:

ALL 480 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #12 AWG
BLACK WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
RED WIRE UNLESS NOTED. 120 VAC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE UNLESS NOTED.

ALL 24 VDC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
BLUE WIRE UNLESS NOTED. 24 VDC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE W/BUE TRACER UNLESS
NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		



ANGI

ENERGY SYSTEMS

ANGI ENERGY SYSTEMS
 305 W DELAVAN DRIVE
 JANESVILLE, WI, 53546
 PH: 1+(608) 563-2800
www.angienergy.com

PROJECT TITLE:
ANGI75S480
SINGLE COMPRESSOR 75HP, 480V PANEL

SHEET TITLE:
480VAC DISTRIBUTION

DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGL 75-E03	SHEET NO: 3 of 16

Print To Scale: 04-22-2021
 Project Name: SINGLE 75-E03

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NOTE:

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ALL 120 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG RED WIRE UNLESS NOTED. 120 VAC COMMON WIRE IS TO BE #16 AWG WHITE WIRE UNLESS NOTED.

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REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: SPARE SHEET		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E04	SHEET NO: 4 of 16

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NOTE:

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REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: SPARE SHEET		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E05	SHEET NO: 5 of 16

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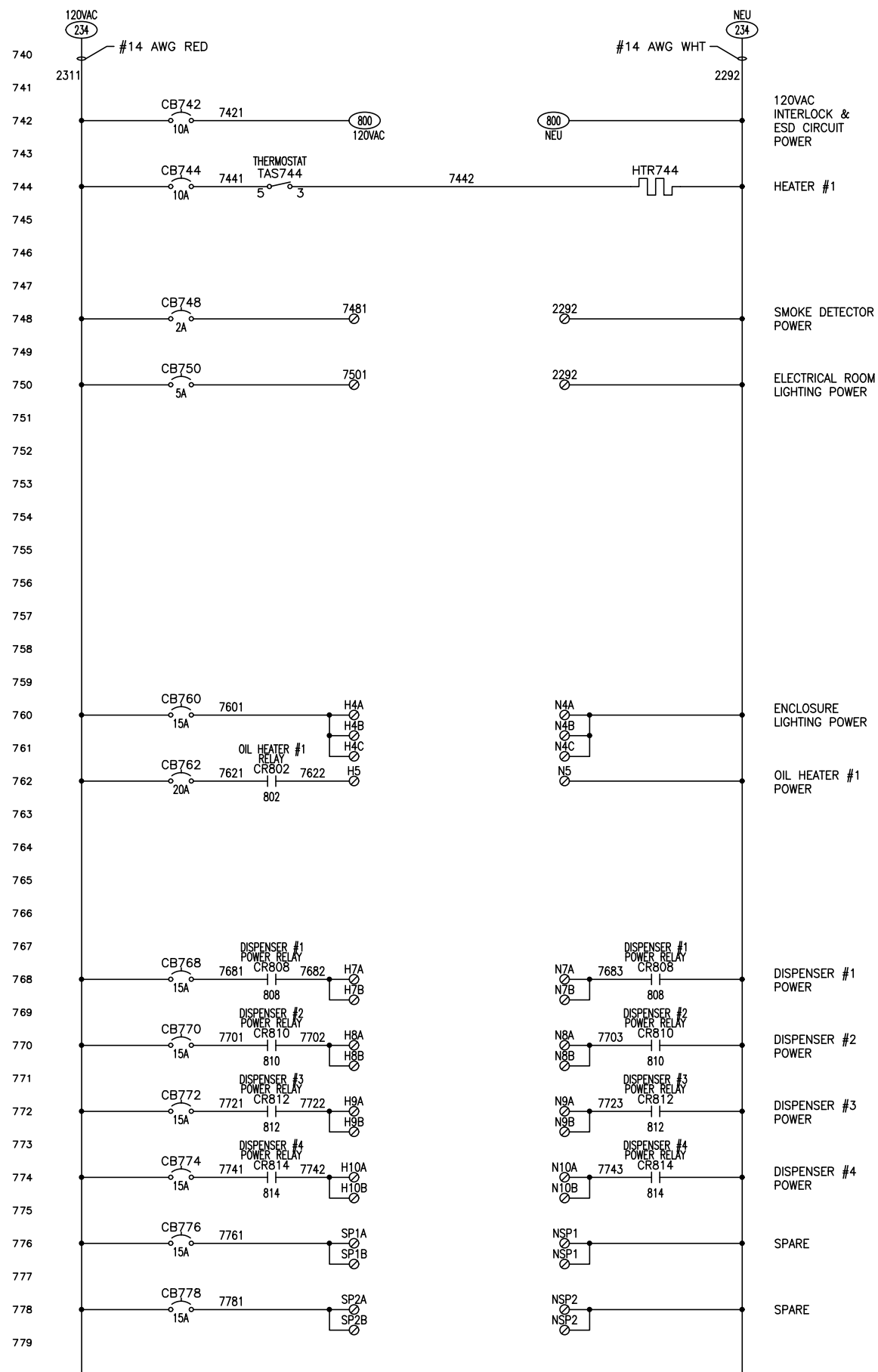
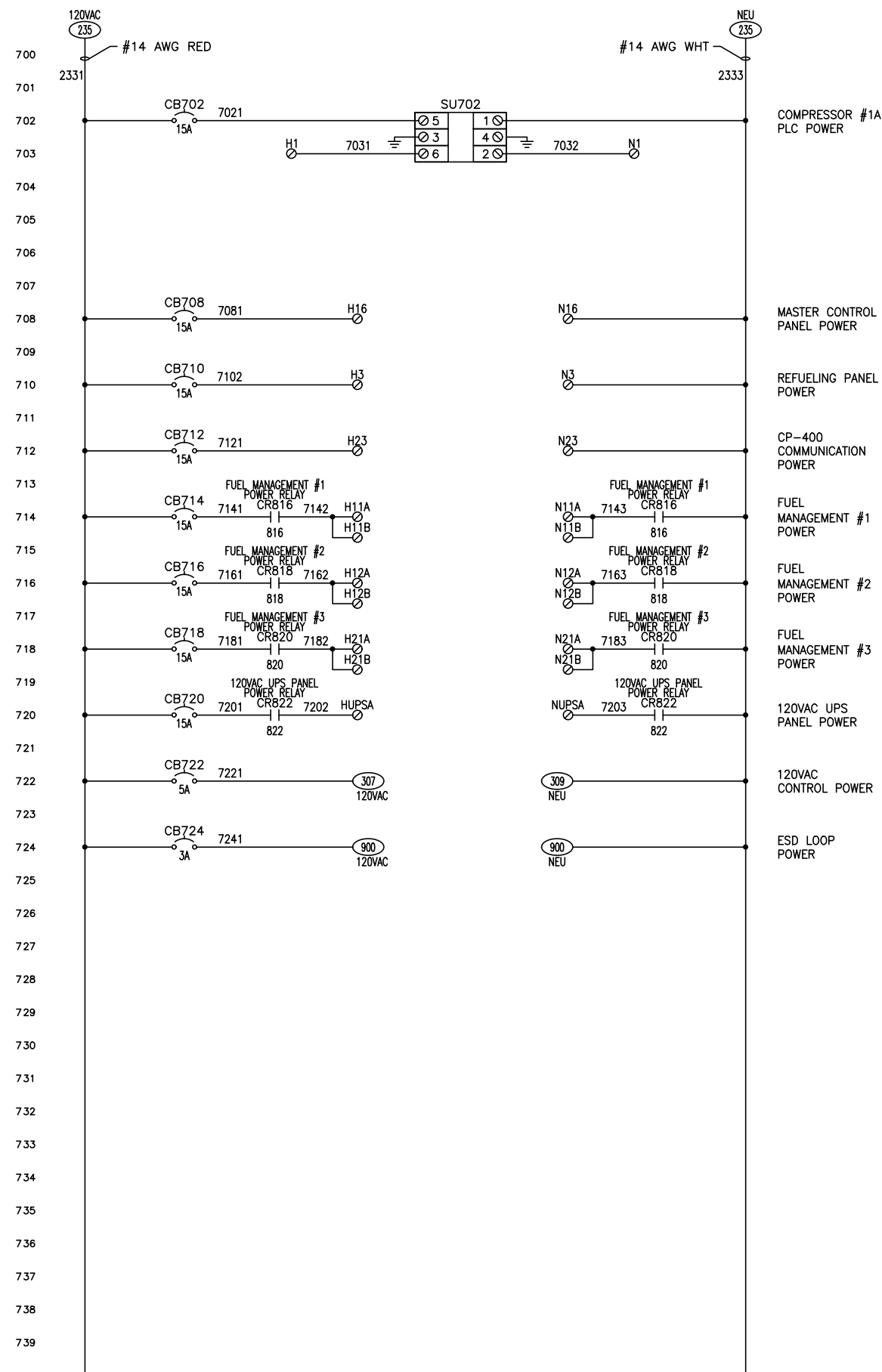
NOTE:

ALL 480 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #12 AWG BLACK WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG RED WIRE UNLESS NOTED. 120 VAC COMMON WIRE IS TO BE #16 AWG WHITE WIRE UNLESS NOTED.

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REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: SPARE SHEET		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E06	SHEET NO: 6 of 16



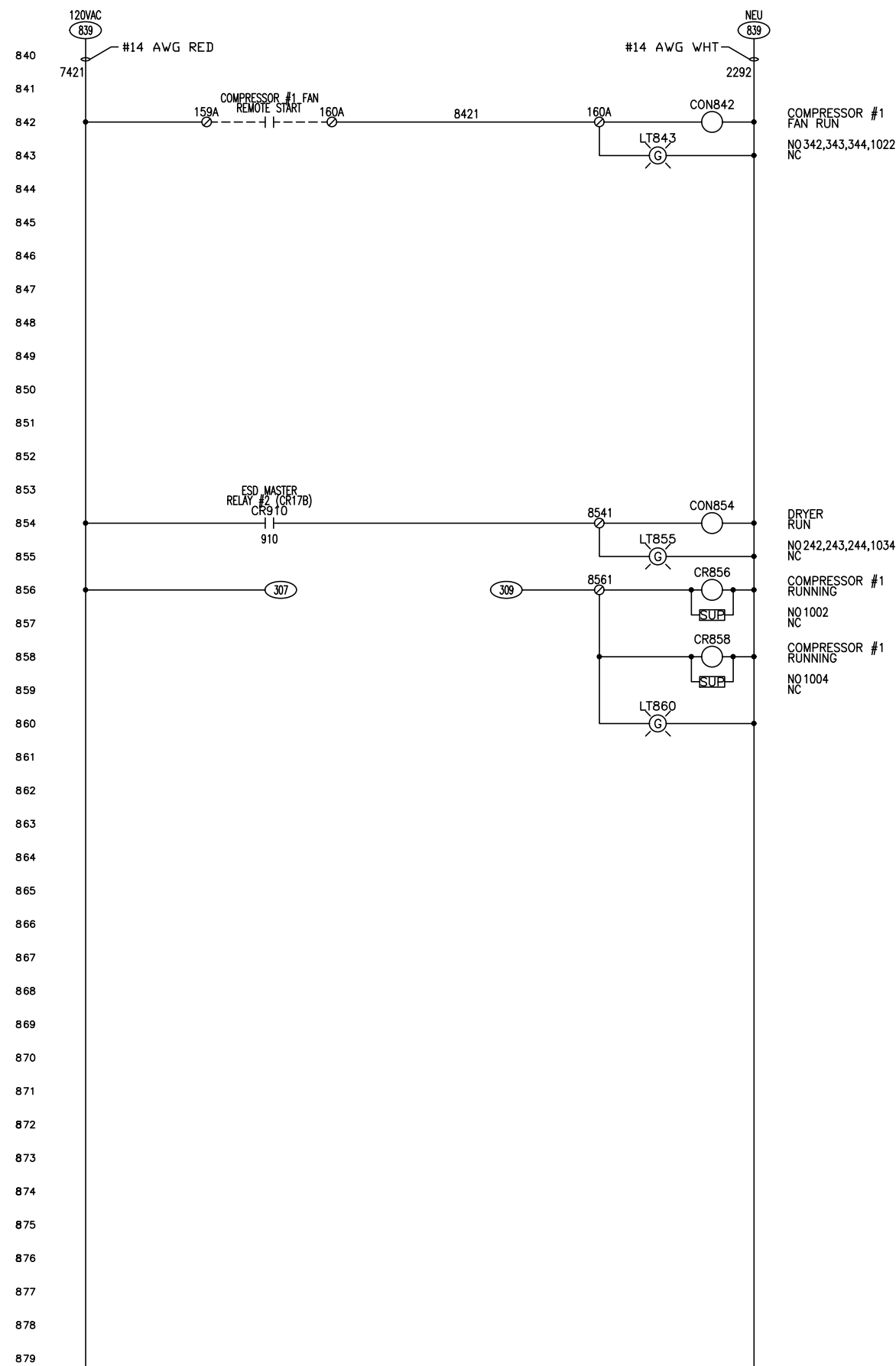
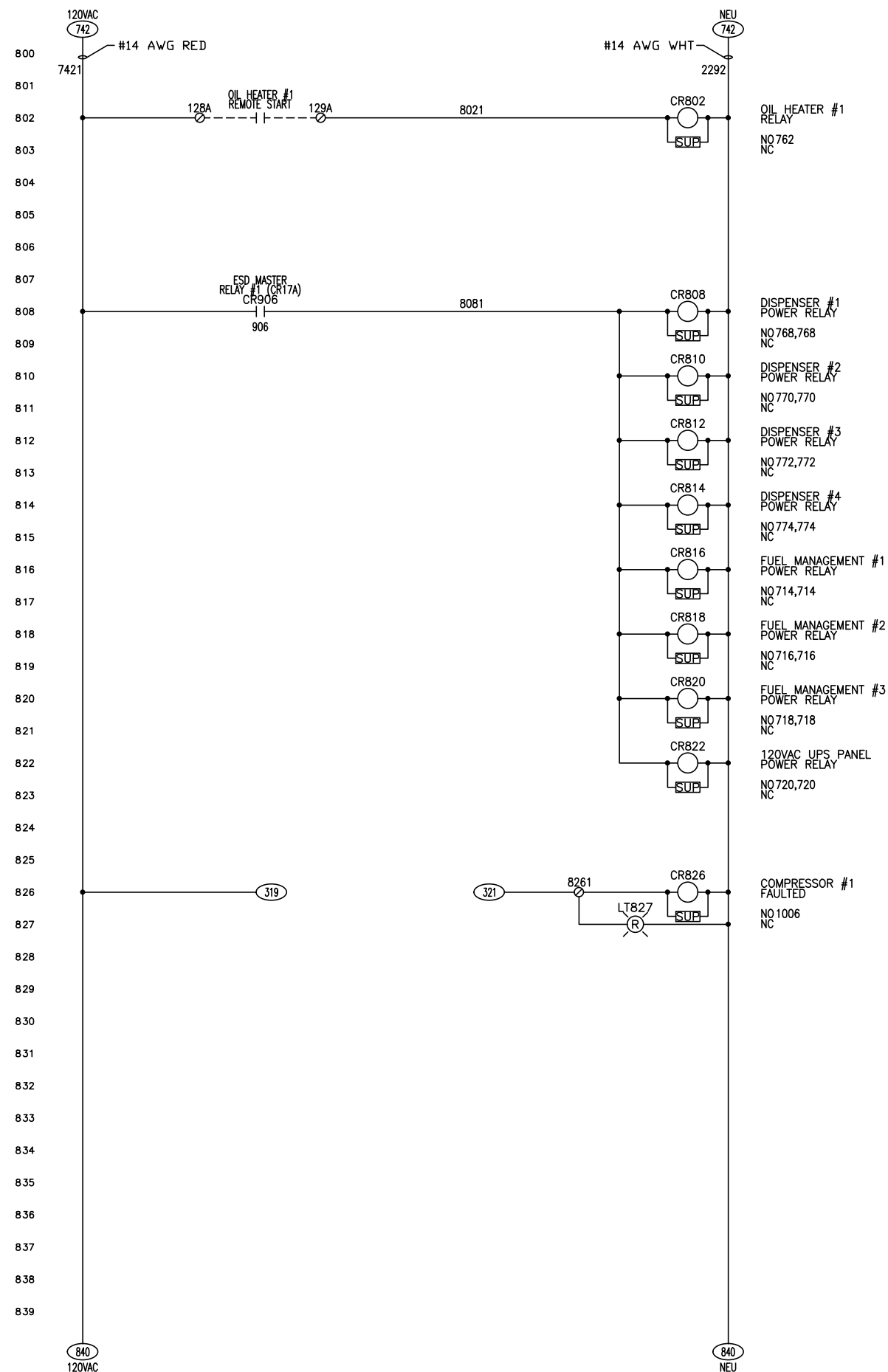
NOTE:

ALL 480 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #12 AWG BLACK
WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG RED
WIRE UNLESS NOTED. 120 VAC COMMON
WIRE IS TO BE #16 AWG WHITE WIRE UNLESS
NOTED.

ALL 24 VDC WIRING INSIDE OF THE CONTROL
PANEL IS TO BE #16 AWG BLUE WIRE
UNLESS NOTED. 24 VDC COMMON WIRE IS TO
BE #16 AWG WHITE WIRE W/BUE TRACER
UNLESS NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		
 ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: 120VAC DISTRIBUTION		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E07	SHEET NO: 7 of 16



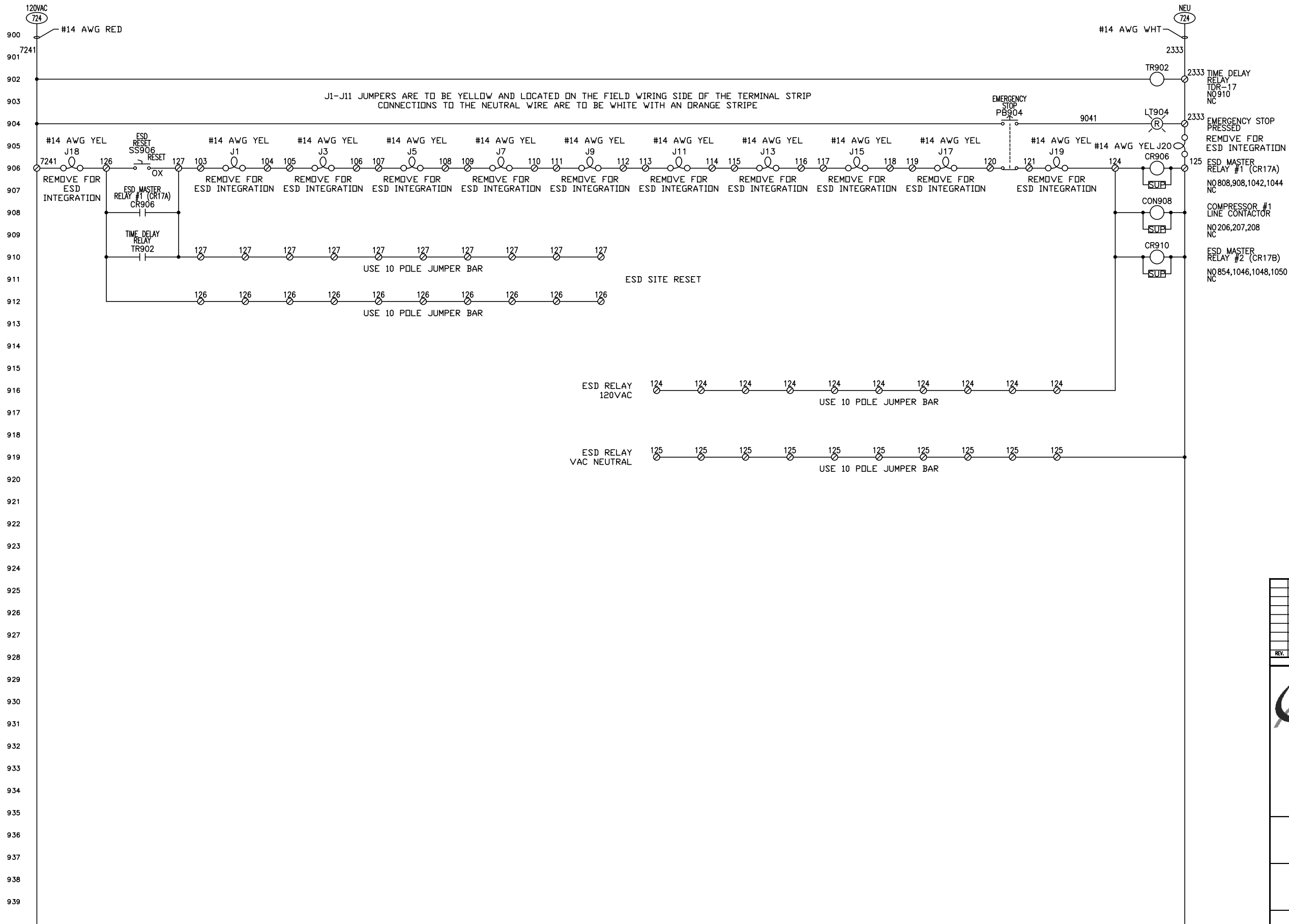
NOTE:

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CONTROL PANEL IS TO BE #12 AWG
BLACK WIRE UNLESS NOTED.

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CONTROL PANEL IS TO BE #16 AWG
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COMMON WIRE IS TO BE #16 AWG
WHITE WIRE UNLESS NOTED.

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BLUE WIRE UNLESS NOTED. 24 VDC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE W/BUE TRACER UNLESS
NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		
 ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: 120VAC DISTRIBUTION		
DATE:	DESIGNED BY:	DRAWN BY:
4/22/21	CS	CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E08	SHEET NO: 8 of 16



NOTE:

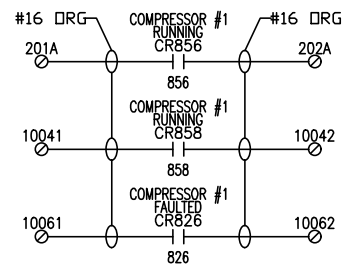
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REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: ESD CIRCUIT		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E09	SHEET NO: 9 of 16

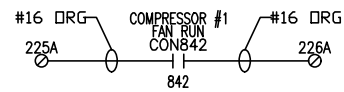
Proj. Date: 04-22-2021
Drawing Name: SINGLE 75-E09



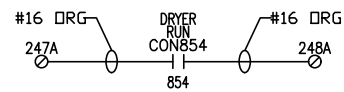
COMPRESSOR #1
RUNNING
INTERLOCK

COMPRESSOR #1
RUNNING
INTERLOCK

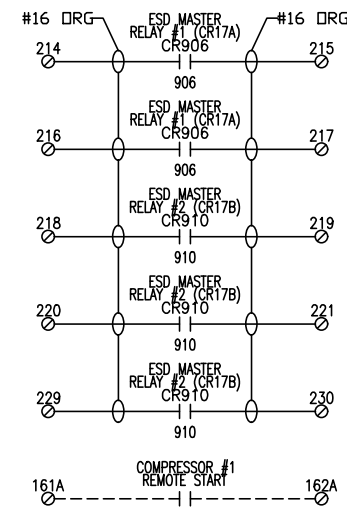
COMPRESSOR #1
FAULTED
INTERLOCK



COMPRESSOR #1
FAN RUNNING
INTERLOCK



DRYER RUNNING INTERLOCK



ESD
MASTER RELAY #1
INTERLOCK

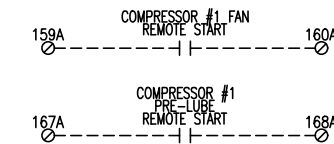
ESD
MASTER RELAY #1
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

COMPRESSOR #1
REMOTE START
INTERLOCK



COMPRESSOR #1
FAN
REMOTE START
INTERLOCK

COMPRESSOR #1
PRE-LUBE
REMOTE START
INTERLOCK



OIL HEATER #1
REMOTE START

NOTE:

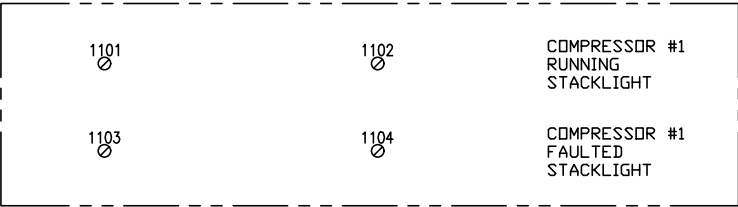
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CONTROL PANEL IS TO BE #16 AWG
RED WIRE UNLESS NOTED. 120 VAC
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CONTROL PANEL IS TO BE #16 AWG
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NOTED.

REV.	DESCRIPTION	DATE	
REVISIONS			
 ANGI ENERGY SYSTEMS ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com			
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL			
SHEET TITLE: INTERLOCKS			
DATE:	DESIGNED BY:	DRAWN BY:	
4/22/21	CS	CH	
JOB NUMBER:	ACAD FILE NUMBER:	SHEET NO:	
15188E	SINGLE 75-E10	10	of 16

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OPTION #4

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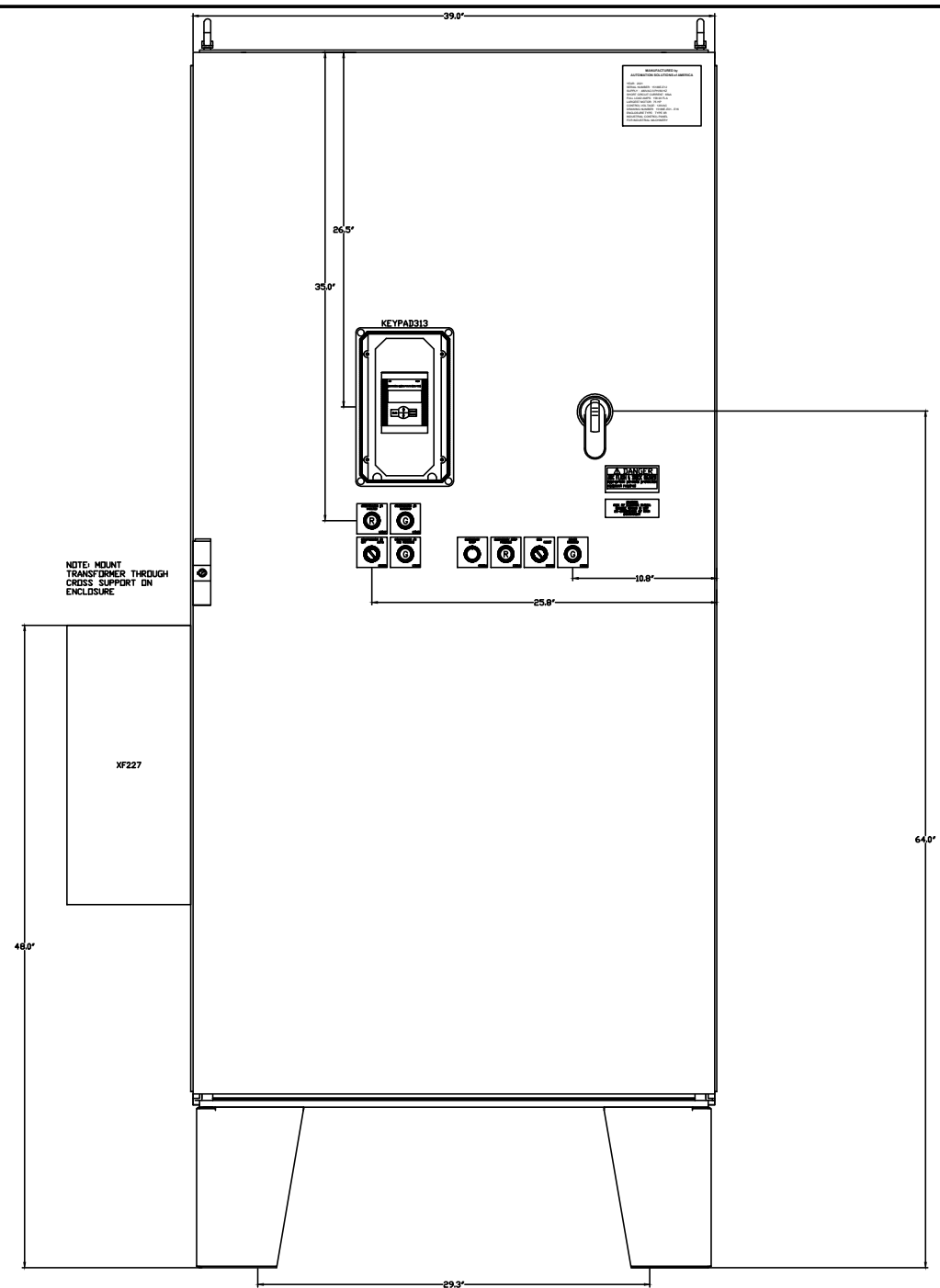
NOTE:

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REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: INTERLOCKS		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E11	SHEET NO: 11 of 16



MANUFACTURED by
AUTOMATION SOLUTIONS of AMERICA

YEAR: 2021
SERIAL NUMBER: 15188E-E12
SUPPLY : 480VAC/3 PH/60 HZ
SHORT CIRCUIT CURRENT: 65kA
FULL LOAD AMPS: 158.93 FLA
LARGEST MOTOR: 75 HP
CONTROL VOLTAGE: 120VAC
DRAWING NUMBER: 15188E-E01...E16
ENCLOSURE TYPE: TYPE 3R
INDUSTRIAL CONTROL PANEL
FOR INDUSTRIAL MACHINERY

COMPRESSOR #1
FAULTED



LT827

COMPRESSOR #1
RUNNING



LT860

COMPRESSOR #1
OFF



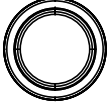
SS325

COMPRESSOR #1
FAN RUNNING



LT843

EMERGENCY
STOP



PB904

EMERGENCY STOP
PRESSED



LT904

ESD
RESET



SS906

DRYER
RUNNING



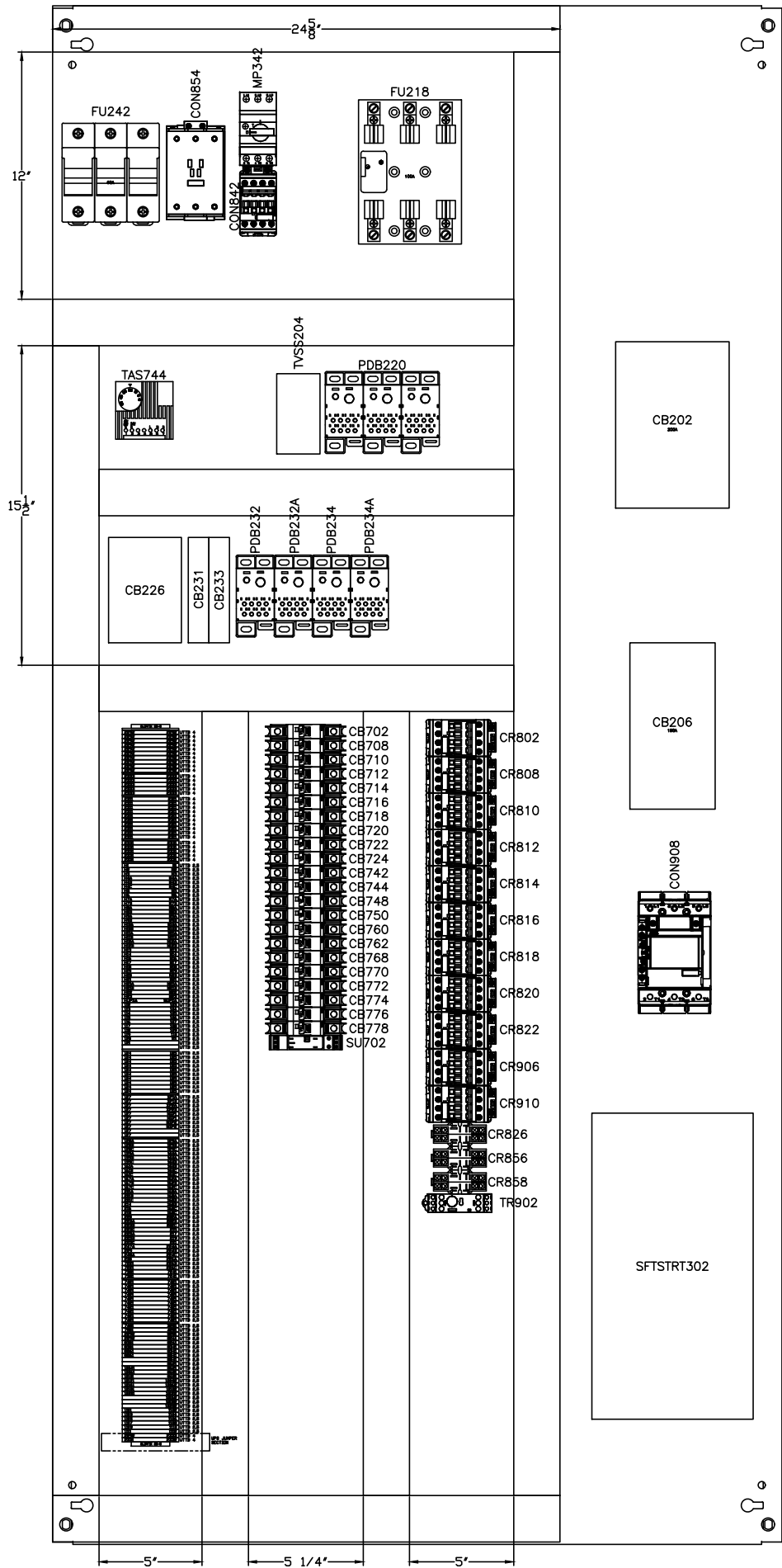
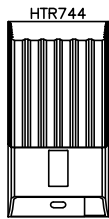
LT855

 **DANGER**
ARC FLASH & SHOCK HAZARD
Appropriate personal protection
equipment required

CAUTION
RISK OF ELECTRIC SHOCK.
ORANGE WIRING IS NOT
DE-ENERGIZED BY MAIN
DISCONNECT

REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: PANEL DETAILS		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E13	SHEET NO: 13 of 16

HEATER GETS
MOUNTED ON INSIDE
OF DOOR



REV.	DESCRIPTION	DATE

ANGI ENERGY SYSTEMS
305 W DELAVAN DRIVE
JANESVILLE, WI, 53546
PH: 1+(608) 563-2800
www.angienergy.com

PROJECT TITLE:
ANGI75S480
SINGLE COMPRESSOR 75HP, 480V
PANEL

SHEET TITLE:
BACK PLATE LAYOUT

DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E14	SHEET NO: 14 of 16

BILL OF MATERIAL					
ITEM	QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	TAG
1	1	Rittal	8006548	Rittal Solid door for control cabinet 79x39x24	---
2	1	Rittal	8106235	Rittal Side Walls	---
	1	Rittal	9963524	Floor Stand Kit	---
	1	Rittal	4593000	TS Accy Fixture	---
3	1	Rittal	8800130	TS Support Strips Inner Mounting Level for 24" Deep Enclosure	---
4	2	Rittal	8612160	Transformer Support	---
5	2	Rittal	4599000	Horizontal Support Strips for Heater Mounting	---
6	1	Rittal	8800130	Vertical Support Strips for Heater Mounting	---
7	1	Rittal	3105430	TOP THERM ENCLOSURE HEATER W/ FAN 800WAT	HTR744
8	1	Rittal	3110000	THERMOSTAT 24-230V AC/DC	TAS744
9	2	ABB	SU201M-K10	UL489 MCB 1P K 10A 480/277 (Brkr for Heater+OPTIONAL Heater)	CB744, CB756
10	0	ABB	SU201M-K6	UL489 MCB 1P K 10A 480/277 (Breaker for Fan) (OPTIONAL)	
11	1	Phoenix	2920272	VAL-MS 750/30/3+0-FM	TVSS204
12	6	Erico	534514	Isulated Braided Conductor "Main to Circuit Breaker & Circuit Breaker to PSTX"	---
13	1	ABB	XT4HU3200AFF000XXX	200 AMP Main Breaker	CB202
14	1	ABB	KXT4HTC-3	Terminal Cover for T4	CB202
15	1	ABB	KXT4CU-3PC	Lug Kit for XT4	CB202
16	1	ABB	KXTCRHEBFP	Variable Depth Mech XT4	CB202
17	1	ABB	OXp10X500	PSTL Shaft 16.9"	CB202
18	1	ABB	OHB125J10	PSTL HDL	CB202
19	1	ABB	AF116-30-11-13	75hp Contactor, 480V, 100-250VAC/DC Coil	CON908
20	1	ABB	XT4HU3150AFF000XXX	150 AMP "Main Breaker to PSTX"	CB206
21	1	ABB	KXT4HTC-3	Terminal Cover for XT4	CB206
22	1	ABB	PSTX105-600-70/ANGI	75 HP Softstarter	SFTSTRT302
23	1	Vynckier	A31-DTCOVERKIT	UV, 3R Cover for Keypad	---
24	1	Sprecher & Schuh	CL7-9-10-120-AS2.5A-A10*	1 HP MANUAL MOTOR STARTER FOR FAN	DS342, CON842
25	1	Mersen	US6J3	ULTRASAFE FUSE HOLDERS FOR CLASS J 60AMP	FU242
26	3	Mersen	AJT60	AMP-TRAP 2000 CLASS J 60AMP Dryer	FU242
27	1	Sprecher & Schuh	CA7-72-10-120	Dryer contactor	CON854
28	3	Sprecher & Schuh	CA7-PV-20	AUX CONTACT	CON842, CON844, CON854
29	1	ABB	XT1HU3050AFF000XXX	BKR T2H 50A 3P T/M UL Primary of transformer 65 Kaic	CB226
30	2	ABB	KXT1CU-3PC	LUG KIT T2 1/0-14AWG 3 LUGS	CB226
31	1	Sola HD	H55F10AS/ANGI	10 KVA Control Transformer	XF227
32	1	ABB	S801U-K100	100 amp Circuit breaker single phase 120 VAC (xfmer Secondary)	CB231
33	1	ABB	SU201M-K20	20 amp Circuit breaker single phase 120 VAC (xfmer Secondary)	CB233
34	15	ABB	SU201M-K15	15 amp Circuit breaker single phase 120 VAC	CB702, CB708, CB710, CB712, CB714, CB716, CB718, CB720, CB760, CB768, CB770, CB772, CB774, CB776, CB778
35	1	ABB	SU201M-K20	20 amp Circuit breaker single phase 120 VAC	CB762
36	2	ABB	SU201M-K5	5 amp circuit breaker, single phase 120 vac for control power	CB722, CB750
37	1	ABB	SU201M-K3	3 amp circuit breaker, single phase 120 vac	CB724
38	1	ABB	SU201M-K2	2 amp circuit breaker, single phase 120 vac	CB748
39	1	ABB	MPEP4-10R	Emergency Stop 40MM Pull Release	PB904
40	1	ABB	M2SSK3-60110	Key Operated Selector Switch	SS906
41	1	ABB	MCBH-11	1 NO, 1 NC with holder	SS906
42	2	ABB	NF40E-13	RELAY,4NO,100-250V50/60HZ-DC	CR906, CR910
43	2	ABB	CA5-01	AUX CONTACT BLOCK 1NC FRONT MOUNT SINGLE	CR906, CR910
44	3	Idec	RH2B-ULAC110-120V/ANGI	Idec RELAY (extra needed forSoft starter run light)	CR826, CR856, CR858
45	3	Idec	SH2B-05/ANGI	Idec RELAY BASE	CR826, CR856, CR858
46	1	Phoenix	2907918	Phoenix, PLT-SEC-T3-120-FM-UT, PLC power	SU702
47	4	ABB	CL2-513G	COMPACT PILOT Green	LT843, LT845, LT855, LT860
48	2	ABB	CL2-513R	COMPACT PILOT Red	LT827, LT904
49	1	ABB	C2SS2-10B-10	Two position short handle, non illuminated (1 NO) Auto manual	SS325
50	150	Phoenix	3044636	UTTB 2,5 DOUBLE STACK TERMINAL BLOCK	---
51	8	Phoenix	3047293	End Cover	---
52	20	Phoenix	3022276	END CLAMP	---
53	7	Phoenix	3030213	10 Pole Jumpers for UTTB 2,5	---
54	3	Phoenix	0801733	DIN 3 pre-punched Rail	---
55	5	Phoenix	3240263	CD 60X100 Wire Duct	---
56	44	Phoenix	3030161	2 Pole Jumpers for UTTB 2,5	---
57	32	Phoenix	3044814	UTTB 4 DOUBLE STACK TERMINAL BLOCK	---
58	6	Phoenix	3030271	10 Pole Jumpers for UTTB 4	---
59	9	ABB	AF09-30-10-13	ABB contactors for Start stop circuits	CR802, CR808, CR810, CR812, CR814, CR816, CR818, CR820, CR822
60	19	Innovative Automation	12859-009	Surge Suppressor	ALL RELAY COILS
61	7	Mersen	FSPDB3A	Distribution block for Transformer connections	PDB220, PDB232, PDB232A, PDB234, PDB234A
62	1	ABB	SU201M-K10	UL489 MCB 1P K 10A 480/277 (Breaker for Interlock and ESD)	CB742
63	1	Mersen	61038J	100A FUSE HOLDER	FU218
64	3	Mersen	DFC-3	SAFETY COVER 100A J FUSE	FU218
65	3	Mersen	AJT100	100A J FUSE	FU218
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REV.	DESCRIPTION	DATE
REVISIONS		
 ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: BILL OF MATERIAL		
DATE: 4/22/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75--E16	SHEET NO: 16 of 16

Drawing Name: SINGLE 75--E16 For Date: 04-22-2021