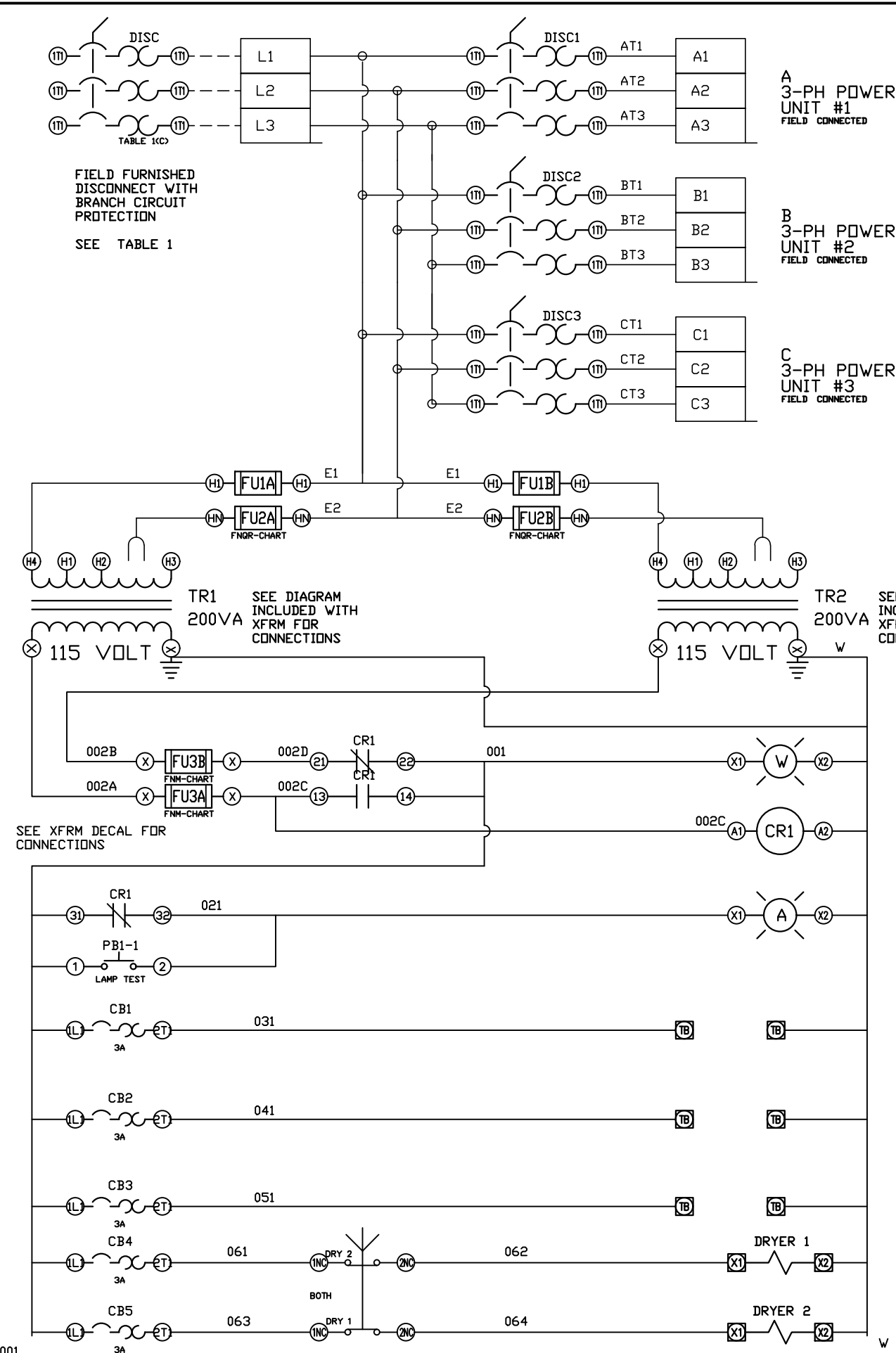




SEE TABLE 2 FOR FUSE SIZING AND CONNECTIONS

SEE DIAGRAM INCLUDED WITH XFRM FOR CONNECTIONS

SEE XFRM DECAL FOR CONNECTIONS

00 CONTROL POWER ON LIGHT
01 RESV TRANSFORMER IN USE
CR1 00 02 TB

02 RESV TRANSFORMER IN USE LIGHT

03 HYGRD MONITOR POWER

04 CO MONITOR POWER

05 TANK DRAIN POWER

06 DRYER POWER

DRYER POWER SELECTOR SWITCH IS FOR DESICCANT DRYERS ONLY.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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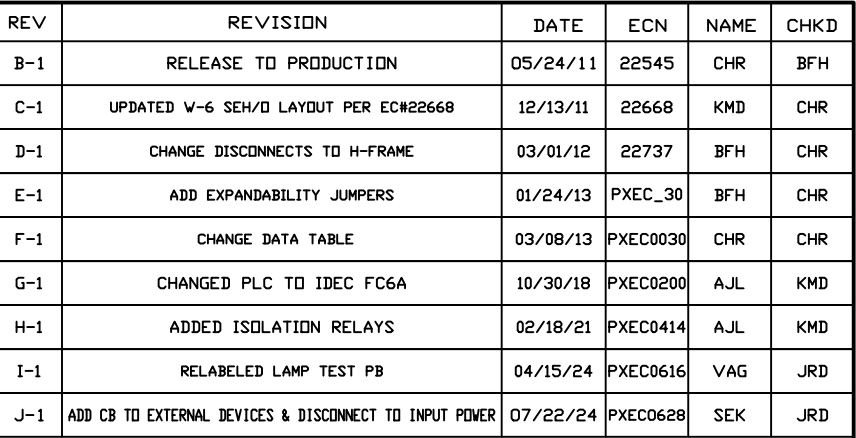
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

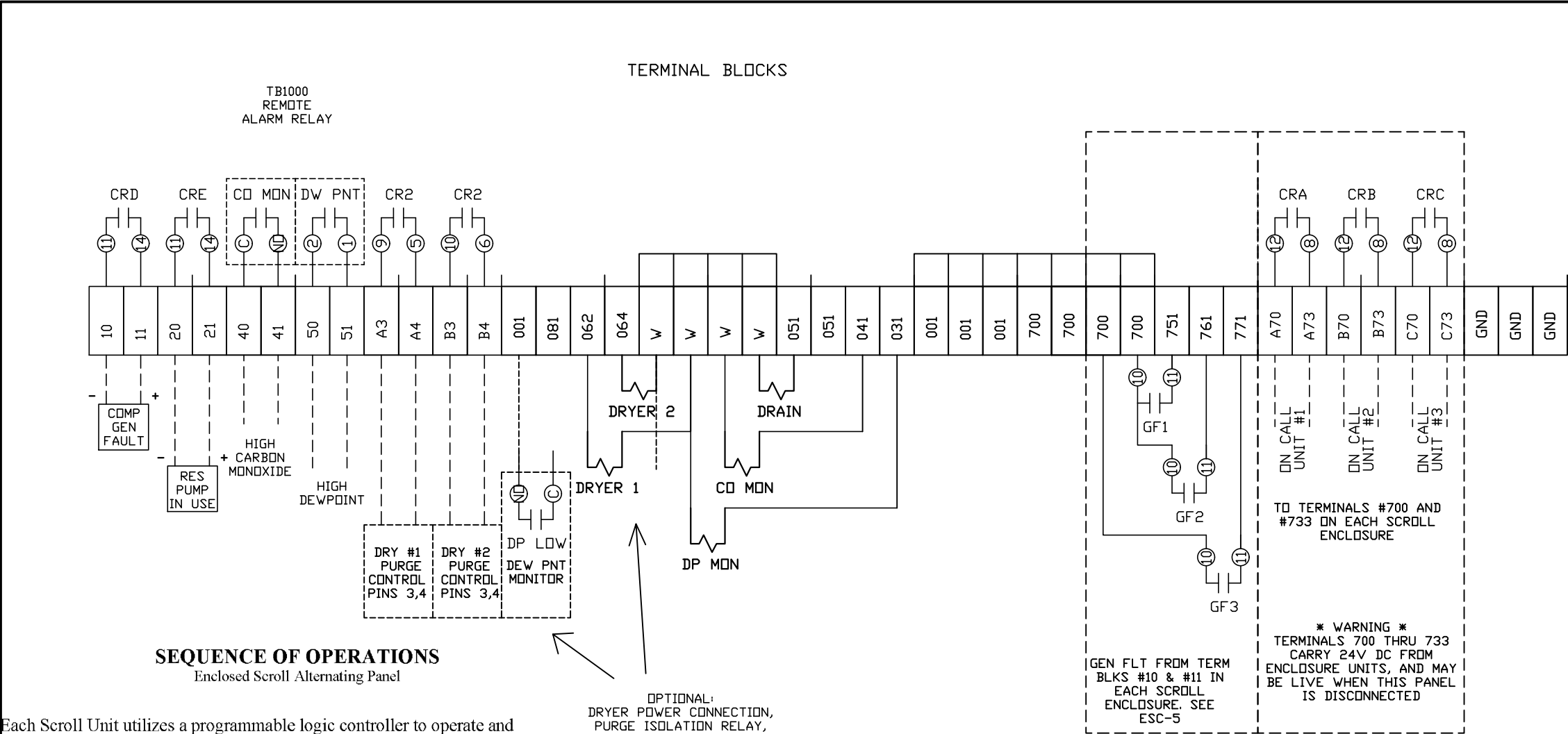
PANEL TYPE
NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE WIRING

DWG. NO.
PXEM-318

SHEET	SIZE
W-1	B

PXEM-318 C1



SEQUENCE OF OPERATIONS
Enclosed Scroll Alternating Panel

Each Scroll Unit utilizes a programmable logic controller to operate and sequence each of the pumps within the enclosure based on demand. The controller also monitors the system for a General fault due to an overload trip or a pump high temperature and signals the main alternating panel when a fault occurs. The onboard HMI will display the fault cause which must be cleared at both the Alt Panel and Scroll Unit.

The Alternating panel will place each Scroll Enclosure on call as the “Lead”, “Lag-1”, “Lag-2”, or “Reserve” via a signal based on the alternating sequence and the system demand. When a system is placed on call, it will remain active for 15-minutes via programmed minimum run timers. This is to prevent quick start/stops during cycle alternation.

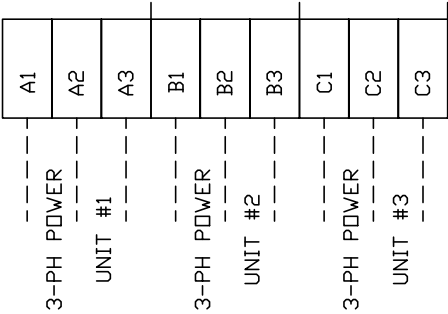
In a Quad configuration the alternating system operates as follows: One unit the “Lead” is always on call from the alternating panel. The next unit is the “Lag-1” which is called for based on pressure switch 1 setting. The next unit is the “Lag-2” which is called for based on pressure switch 2 setting. The last unit is the “Reserve” which is based on pressure switch 3 setting. For a triplex, “Lag-2” will not be present, and for a duplex only “Lead” and “Reserve” will be in service. Each enclosure will alternate into the “Lead” every 18-hours to equal the runtime on each system.

The alternating panel is pre-wired and programmed to operate the entire system. For Alternation System Control, navigate to “System Setup Pg-2” on each scroll enclosure HMI and change “External Control” mode to on. Next press the “ON” button (just below HMI). To disable a unit from the alternation sequence, press the “Stop” button.

All Voltage connections to each enclosure should be made from the main alternating panel via wired and labeled power distribution blocks. Within the panel are labeled terminals blocks for wiring of the call for signals and fault signals to each enclosure, see the enclosed drawings for a reference.

OPTIONAL:
DRYER POWER CONNECTION,
PURGE ISOLATION RELAY,
FOR DESICCANT
DRYERS ONLY REFRIDGE
DRYER REQUIRE SEPARATE
VOLTAGE SOURCE.

DIST BLKS A,B,C
HIGH VOLTAGE 3PH
UNIT POWER



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL: ☐
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE
NFPA ENCL SCRL TRI
MAIN ALT PANEL

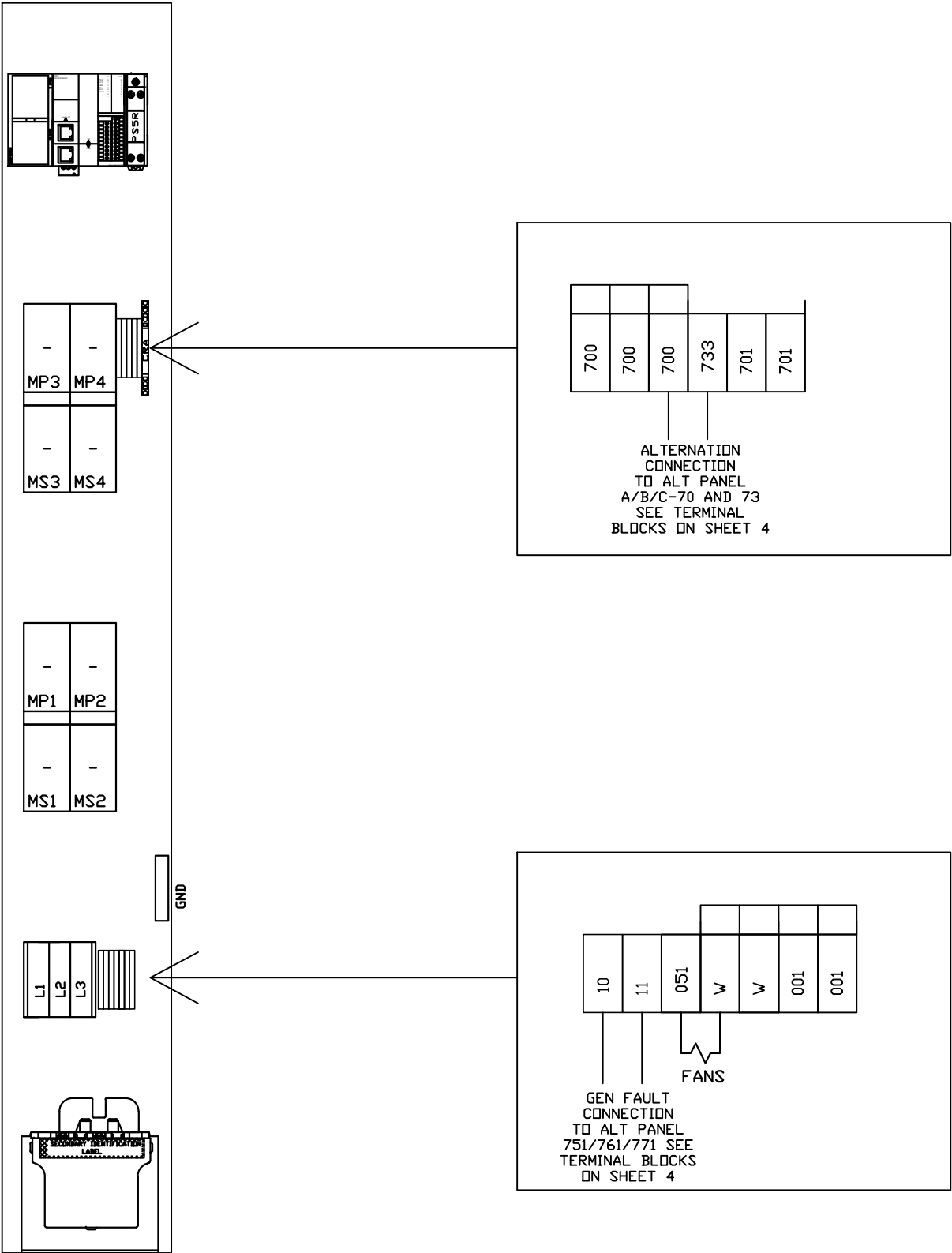
DWG. TYPE WIRING

DWG. NO. PXEM-318

SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

SED-SEQ UNITS



OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE

WIRING

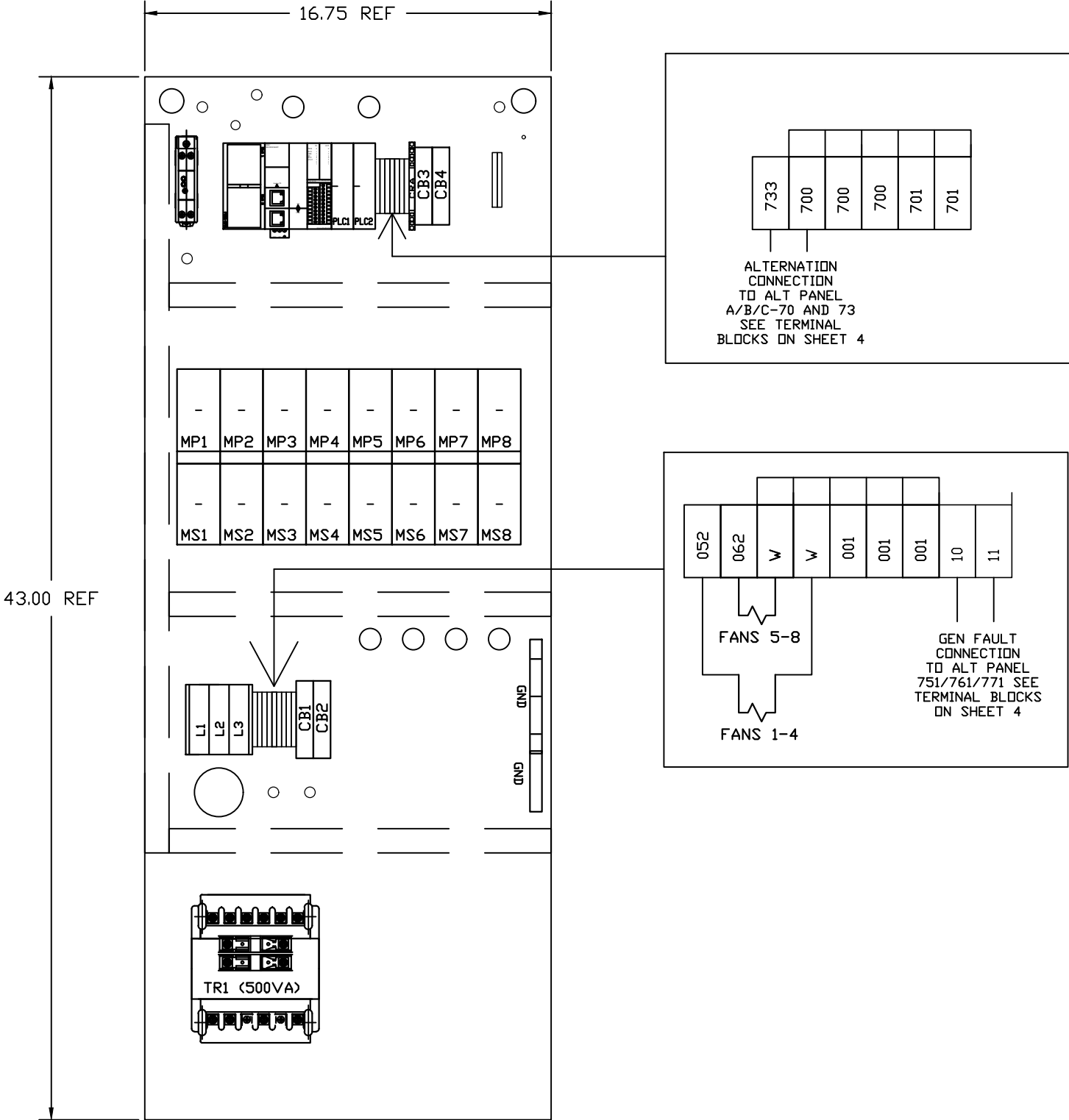
DWG. NO.

PXEM-318

SHEET	SIZE
EXC-1	B

PXEM-318 C1

SEH-SED
UNITS



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

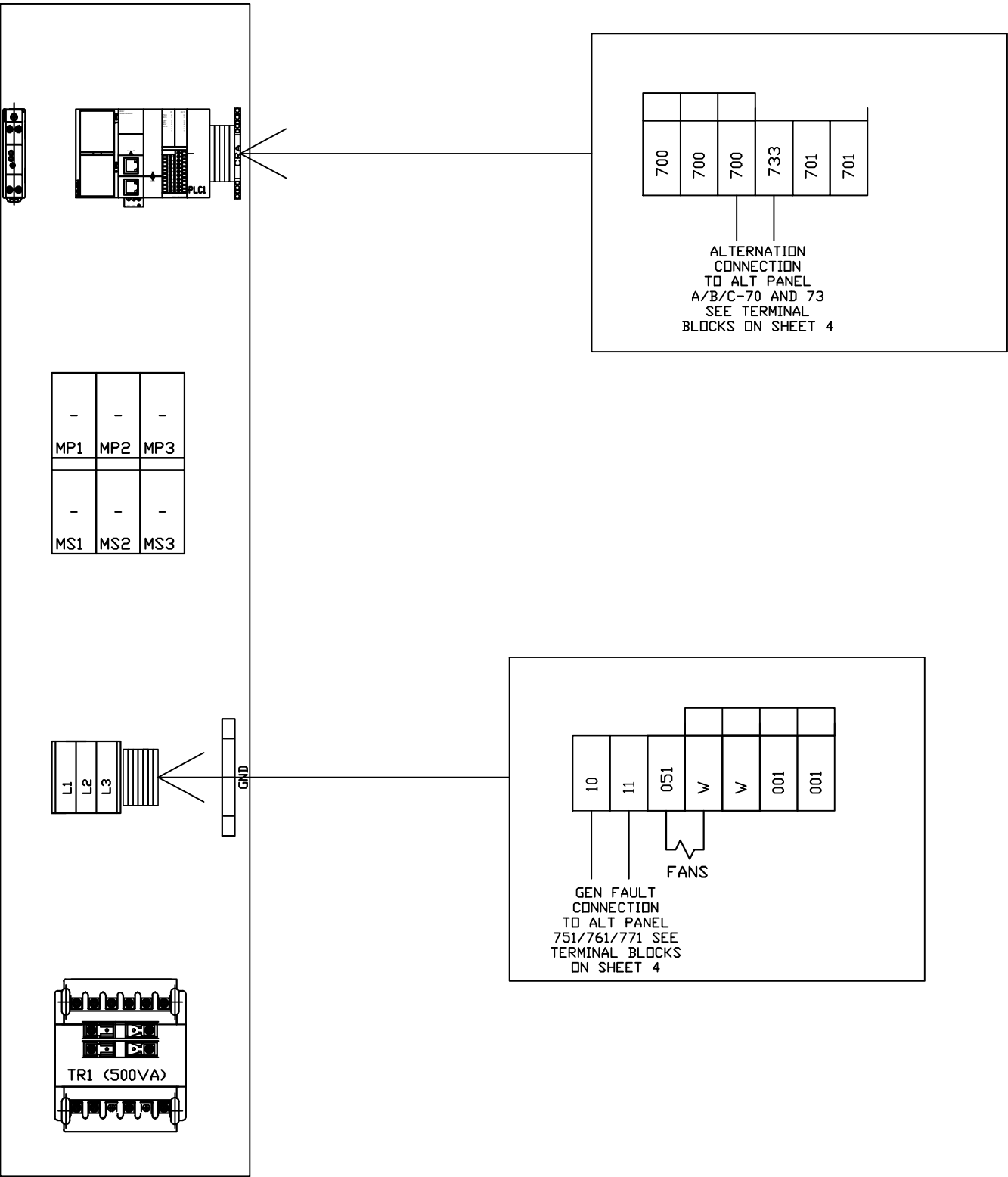
DWG. TYPE WIRING

DWG. NO.

PXEM-318

SHEET	SIZE
EXC-2	B

PXEM-318 C1



7.5&10 HP SED-SET
UNITS

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE WIRING

DWG. NO.
PXEM-318

SHEET	SIZE
EXC-3	B

PXEM-318 C1

3-PHASE POWER IS SOURCED FROM THE MAIN ALT PANEL VIA DIST BLOCKS (SEE PAGE W-1 & W-4)
3-PHASE CONDUCTORS SHOULD BE SIZED BASED ON TFLA OF EACH SCROLL ENCLOSURE (SEE SCROLL
ENCLOSURE RATINGS)

"CALL FOR" AND "GEN FAULT" SIGNALS ARE SOURCED 24VDC NO EXTERNAL VOLTAGE IS REQUIRED.
LOW VOLTAGE CONDUCTORS 16-20 AWG (THHN, MTW TYPE) ARE SUFFICIENT.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

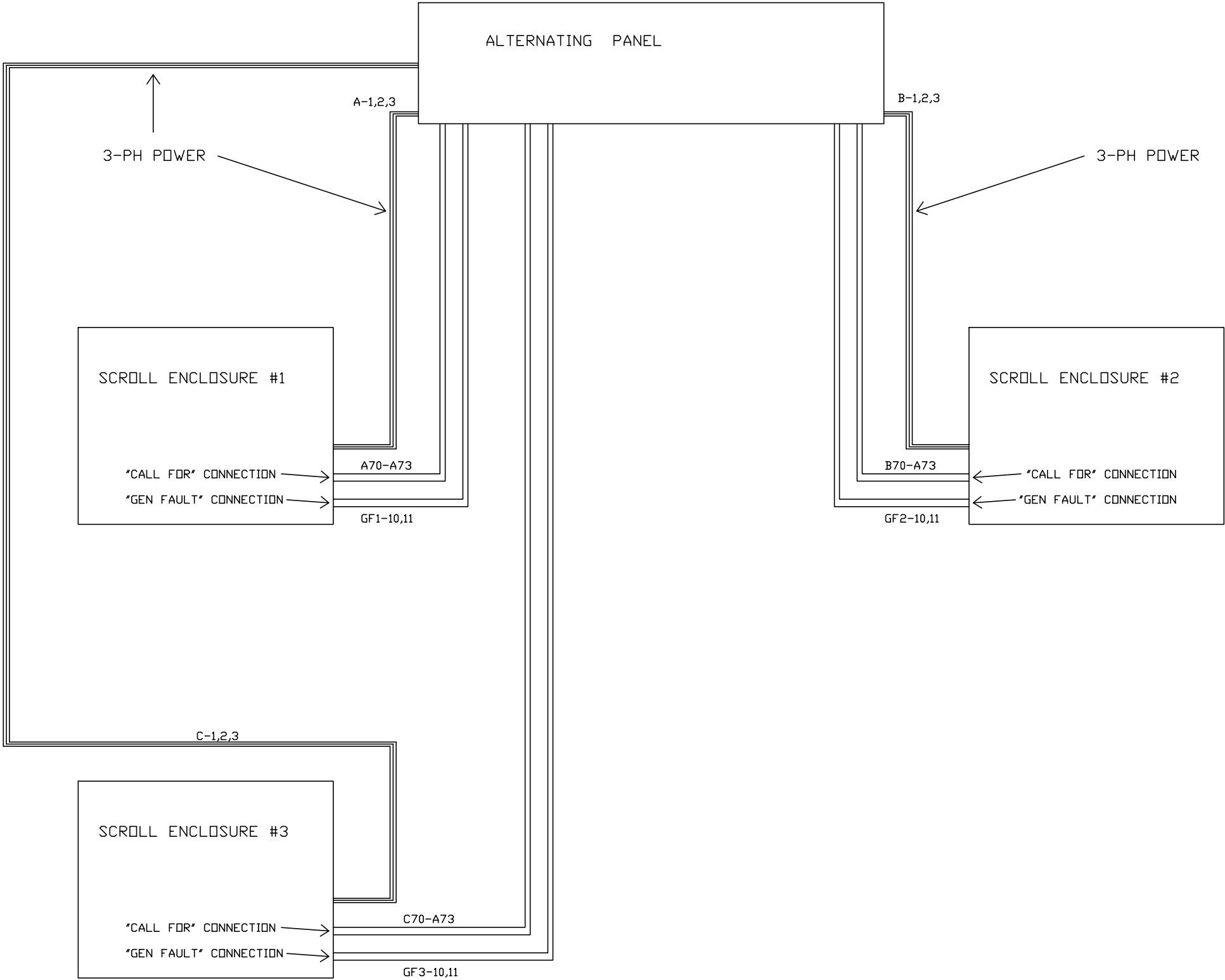
PANEL TYPE
NFPA ENCL SCRL TRI
MAIN ALT PANEL

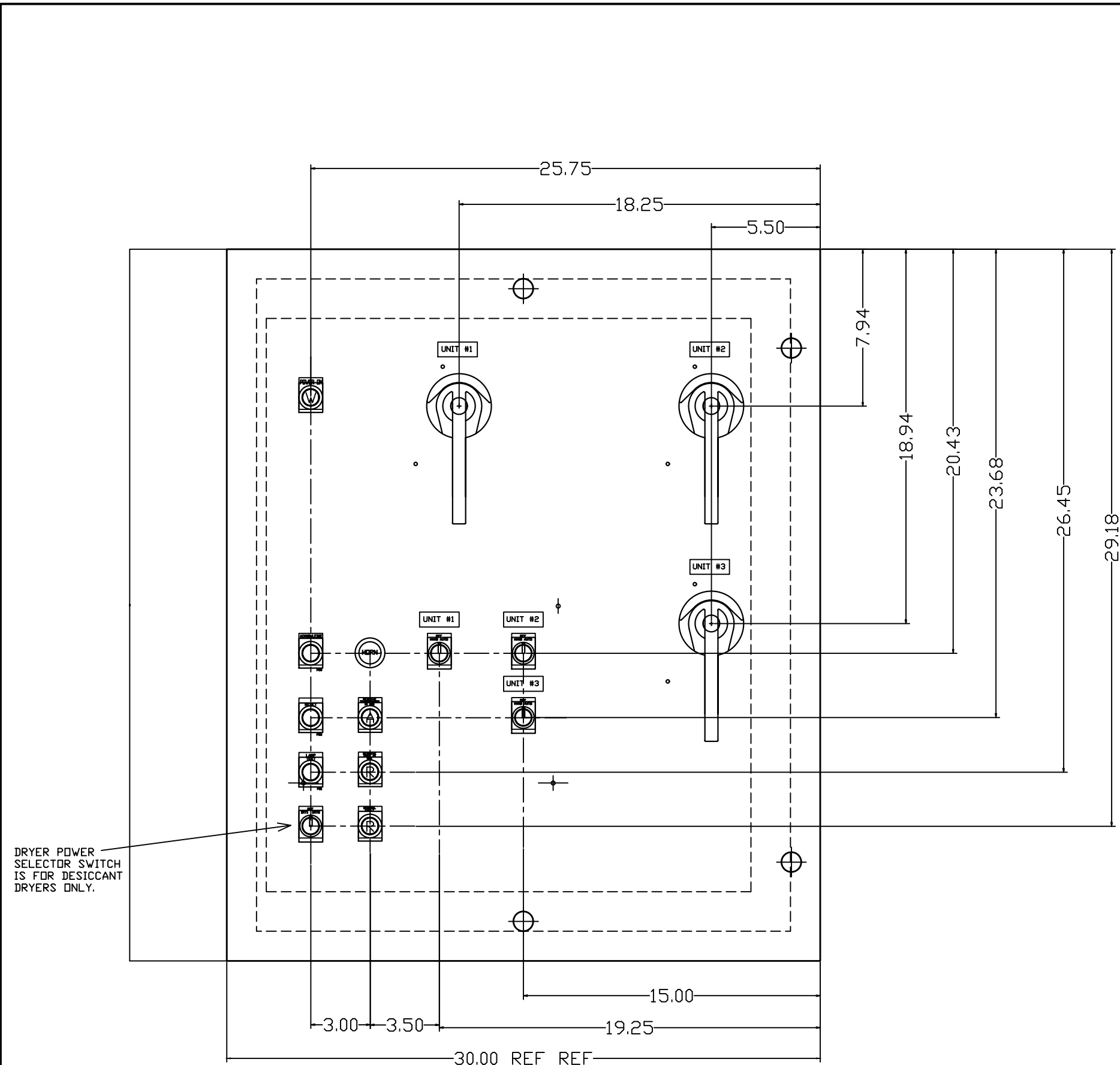
DWG. TYPE EX CON 1

DWG. NO.
PXEM-318

SHEET	SIZE
EX-1	B

PXEM-318 C1





REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

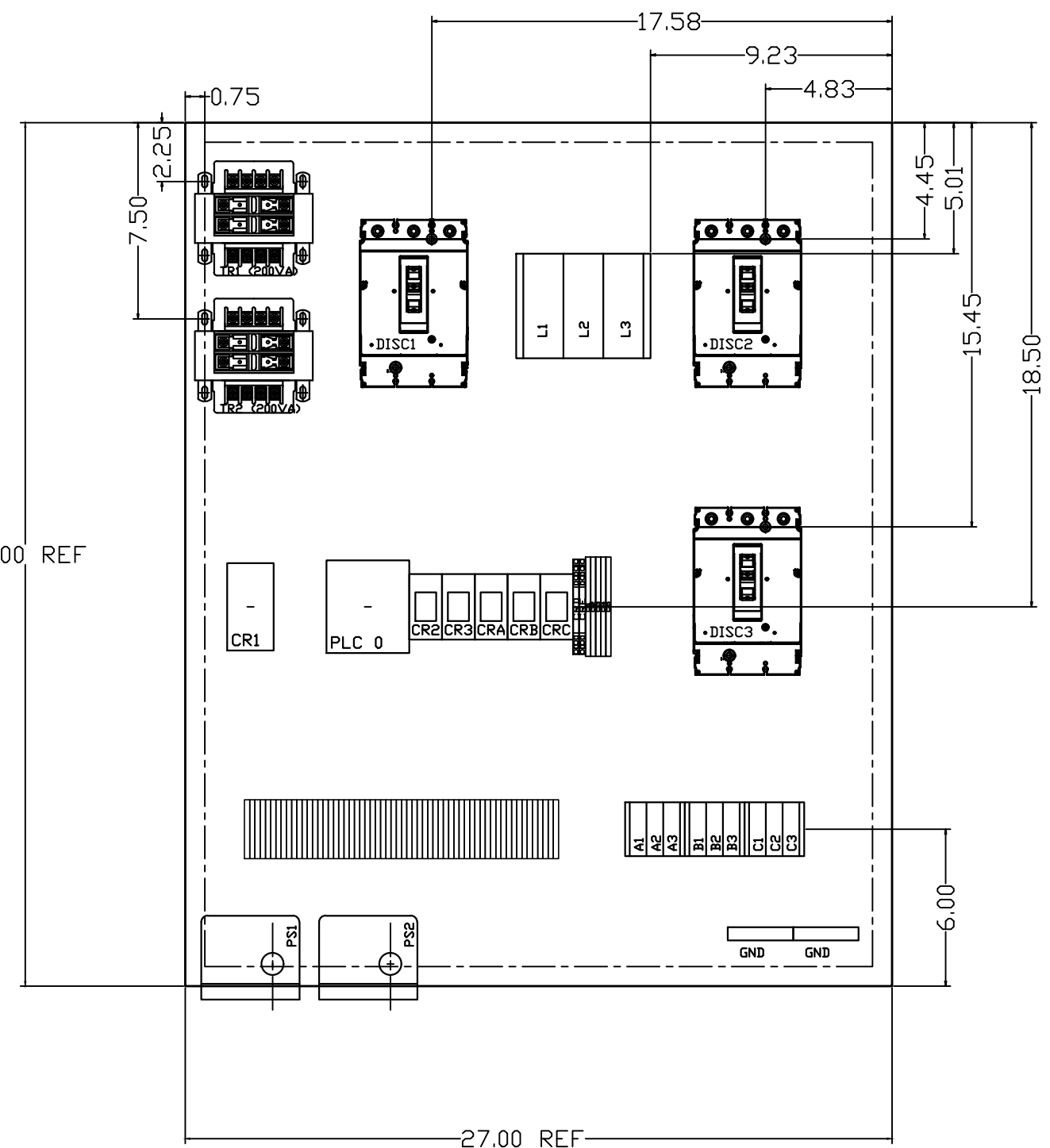
DWG. TYPE WIRING

DWG. NO.

PXEM-318

SHEET	SIZE
L-1	B

PXEM-318 C1



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
C-1	UPDATED W-6 SEH/D LAYOUT PER EC#22668	12/13/11	22668	KMD	CHR
D-1	CHANGE DISCONNECTS TO H-FRAME	03/01/12	22737	BFH	CHR
E-1	ADD EXPANDABILITY JUMPERS	01/24/13	PXEC_30	BFH	CHR
F-1	CHANGE DATA TABLE	03/08/13	PXEC0030	CHR	CHR
G-1	CHANGED PLC TO IDEC FC6A	10/30/18	PXEC0200	AJL	KMD
H-1	ADDED ISOLATION RELAYS	02/18/21	PXEC0414	AJL	KMD
I-1	RELABELED LAMP TEST PB	04/15/24	PXEC0616	VAG	JRD
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE

WIRING

DWG. NO.

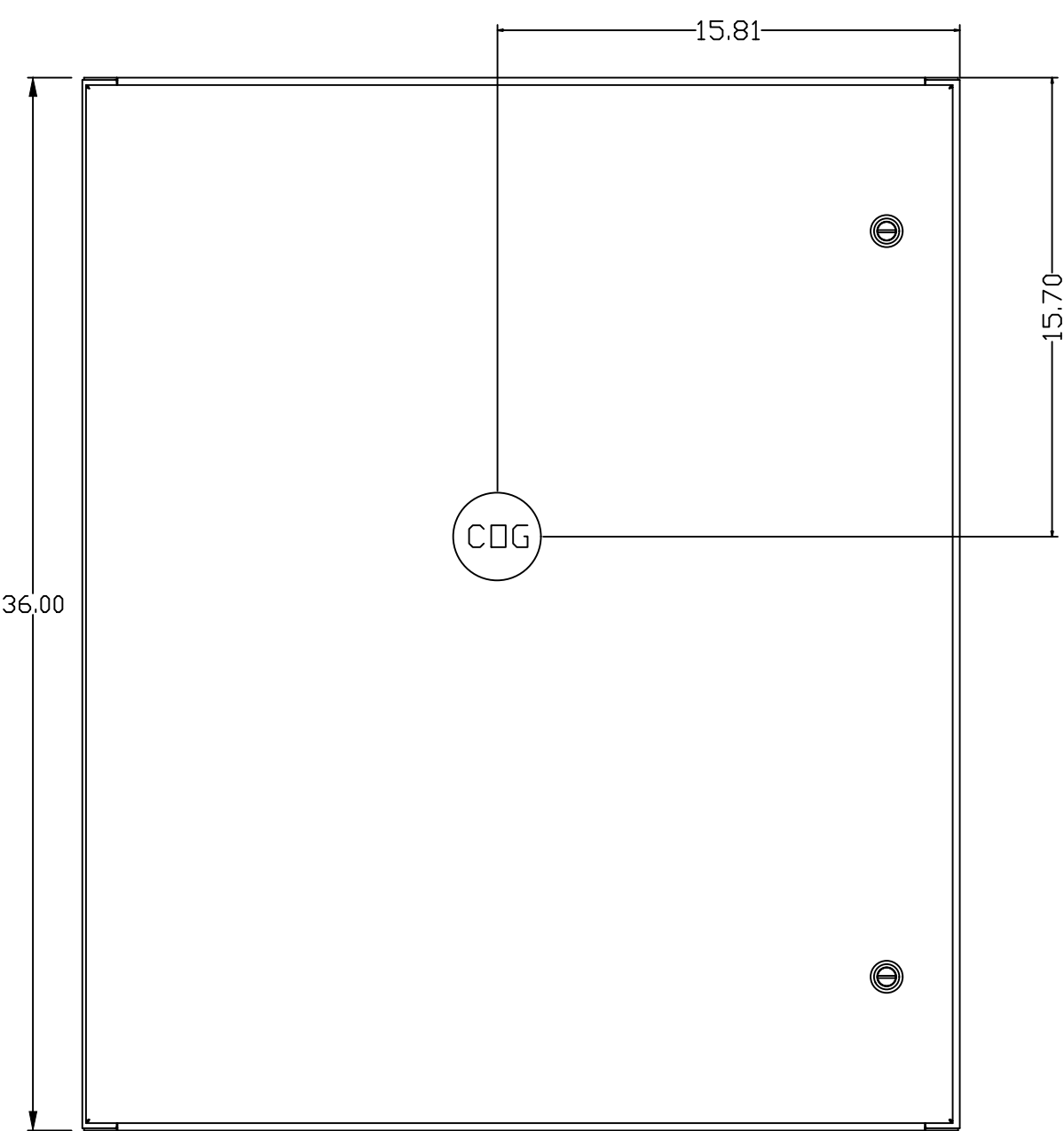
PXEM-318

SHEET	SIZE
L-2	B

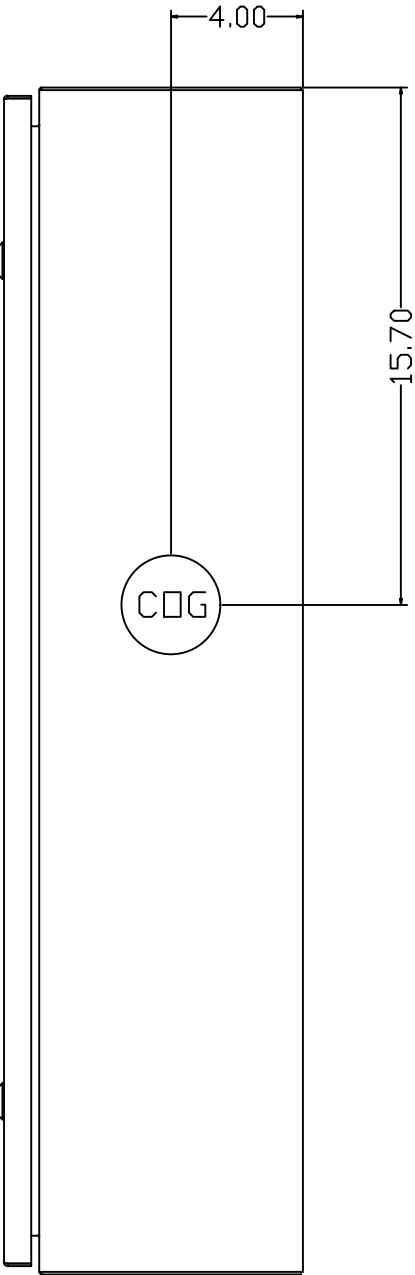
PXEM-318 C1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	11/20/12	22722	BFH	
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

ESTIMATED WEIGHT: 140lbs



FRONT VIEW



RIGHT SIDE VIEW

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH		
11/20/12		

PANEL TYPE
NFPA ENCL SCRL TRI
MAIN ALT PANEL COG

DWG. TYPE	COG
DWG. NO.	PXEM-318

SHEET	C-1	SIZE	B
-------	-----	------	---

PXEM-318 C1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

TABLE 1

PANEL DATA 3Ø – 50/60 Hz 200VA CONTROL CIRCUIT							
(A) LOAD SPECIFICATIONS					(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
(A) POWER (V/PH)	PANEL PART NUMBER	# OF MOTORS	LARGEST MOTOR LOAD (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
208V/3Ø	A2AJ	6	14.9	90.5	125A	100A	125A
	F2AJ	9	14.9	135	175A	150A	175A
	G2AJ	12	14.9	180	225A	200A	200A
	I2AJ	18	14.9	269	300A	275A	300A
	K2AJ	24	14.9	359	375A	375A	375A
230V/3Ø	A3AJ	6	13.0	79	125A	100A	100A
	F3AJ	9	13.0	118	150A	150A	150A
	G3AJ	12	13.0	157	200A	175A	175A
	I3AJ	18	13.0	234	275A	250A	275A
	K3AJ	24	13.0	313	350A	325A	350A
460V/3Ø	A4AJ	6	6.49	40	60A	50A	50A
	F4AJ	9	6.49	60	75A	65A	70A
	G4AJ	12	6.49	79	95A	90A	90A
	I4AJ	18	6.49	118	150A	125A	150A
	K4AJ	24	6.49	157	175A	175A	175A
NOTE– ADJUST OVERCURRENT PROTECTION DEVICE TO 115% OF MOTOR NAMEPLATE FLA VALUE							

NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED. SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING TIME DELAY (CLASS J) FUSES, PANEL SCCR IS 65KA. OTHERWISE, PANEL SCCR IS 5KA.
4. ALL WIRES MUST BE LABELED ON BOTH ENDS
5. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
6. △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
7. TEST MODE JUMPER WILL CHANGE ALTERNATION CYCLE AND MINIMUM RUM TIMERS. USE WITH-OUT AUTHORIZATION MAY CAUSE UNSTABLE OPERATION. CONSULT FACTORY BEFORE USE.

FIELD WIRING NOTES ON PAGE W-8.

TABLE 2

CONTROL TRANSFORMERS - 200VA								
FUSE		208	230	460	WIRE TYPE TABLE			
TYPE		VOLT	VOLT	VOLT				
FU1,2A FU1,2B	FNQR	4A	4A	2A	VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
FU3A,B	FNM	2.5A	2.5A	2.5A	120VAC	001-699	16-18AWG	RED/BLK
					0VAC	W	16-18AWG	WHT/BLK
					24VDC	700-999	16-18AWG	PURPLE
PRIMARY FUSE CDNNECT (HN)	H2	H3	H4		0VDC	701	16-18AWG	PURPLE
					GND	-	VARIES	GREEN
					CUSTOMER SUPPLY	01-99	16AWG	YELLOW

OPTIONAL:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE DATA

DWG. NO.

PXEM-318

SHEET	SIZE
D-1	B
PXEM-318 C1	

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	05/24/11	22545	CHR	BFH
J-1	ADD CB TO EXTERNAL DEVICES & DISCONNECT TO INPUT POWER	07/22/24	PXEC0628	SEK	JRD

TABLE 1

PANEL DATA 3Ø – 50/60 Hz 200VA CONTROL CIRCUIT							
(A) LOAD SPECIFICATIONS					(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
(A) POWER (V/PH)	PANEL PART NUMBER	# OF MOTORS	LARGEST MOTOR LOAD (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
460V/3Ø	J4AJ K4AJ	3 4	11.5 11.5	106 144	150A 175A	125A 175A	125A 175A
NOTE– ADJUST OVERCURRENT PROTECTION DEVICE TO 115% OF MOTOR NAMEPLATE FLA VALUE							

NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED. SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING TIME DELAY (CLASS J) FUSES, PANEL SCCR IS 65KA. OTHERWISE, PANEL SCCR IS 5KA.
4. ALL WIRES MUST BE LABELED ON BOTH ENDS
5. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
6. Δ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
7. TEST MODE JUMPER WILL CHANGE ALTERNATION CYCLE AND MINIMUM RUM TIMERS. USE WITH-OUT AUTHORIZATION MAY CAUSE UNSTABLE OPERATION. CONSULT FACTORY BEFORE USE.

FIELD WIRING NOTES ON PAGE W-8.

TABLE 2

CONTROL TRANSFORMERS - 200VA								
FUSE		208	230	460	WIRE TYPE TABLE			
TYPE		VOLT	VOLT	380 VOLT				
FU1,2A FU1,2B	FNQR	4A	4A	2A	VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
FU3A,B	FNM	2.5A	2.5A	2.5A	120VAC	001-699	16-18AWG	RED/BLK
					0VAC	W	16-18AWG	WHT/BLK
					24VDC	700-999	16-18AWG	PURPLE
					0VDC	701	16-18AWG	PURPLE
					GND	-	VARIES	GREEN
					CUSTOMER SUPPLY	01-99	16AWG	YELLOW
PRIMARY FUSE CONNECT (HN)		H2	H3	H4				

OPTIONAL:



150 PRODUCTION DRIVE, HARRISON, OHIO 45030
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	BFH	DMS
05/24/11	11/8/11	11/9/11

PANEL TYPE

NFPA ENCL SCRL TRI
MAIN ALT PANEL

DWG. TYPE 7. 5 10 DATA

DWG. NO.

PXEM-318

SHEET	SIZE
D-1	B

PXEM-318 C1