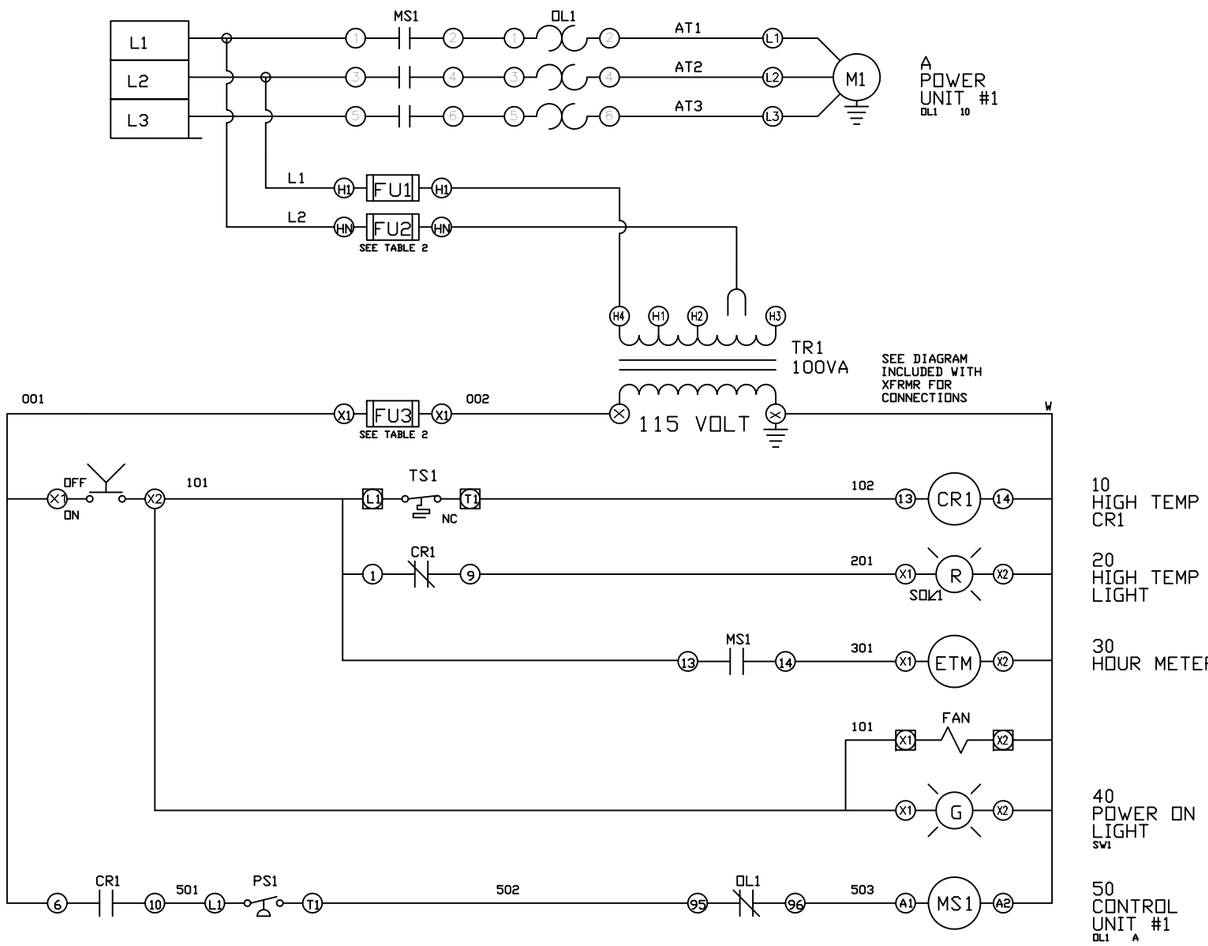
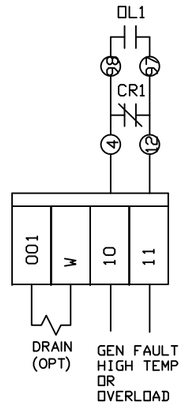




REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/29/08	21906	CHR	DMS
R	MOVED OUT OF TC AND UPDATED 230/1/50 FLA	08/02/22	PXEC0495	VAG	MKD
S	ADDED MC304307AV DATA	08/09/22	PXEC0495	VAG	MKD
T	UPDATED 460 3PH DATA AND SPEC MOTOR DATA	08/13/22	PXEC0495	VAG	MKD
U	UPDATED 2HP 3 PHASE DATA	01/10/23	PXEC0559	VAG	VAG
V	DWG READABILITY UPDATE	02/24/23	PXEC0559	VAG	VAG
W-1	ADDED MC304237AV DATA	05/16/23	PXEC0559	VAG	VAG
W-2	UPDATED 5HP 208/3 & 230/3 DATA	11/08/23	PXEC0559	VAG	VAG
X-1	REORGANIZED DATA TABLES; ADDED 200/3	07/05/24	PXEC0631	VAG	VAG
X-2	FURTHER CONSOLIDATION FOR 208V/3PH	07/15/24	PXEC0631	VAG	VAG
Y-1	UPDATING TERMINAL BLOCKS	11/18/25	PXEC0718	MJV	JA
Z-1	UPDATED FLA INFO & PANEL/MOTOR PART NUMBERS	08/03/2026	PXEC0753	LG	JA

NOTES:

1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
   208–575 VOLT POWER 35 POUND INCHES
   115 VOLT POWER, CONTROL
   AND LOW VOLTAGE 20 POUND INCHES
2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR EACH MOTOR CIRCUIT IN THIS ELECTRICAL ASSEMBLY. SEE TABLE 1
4. ALL WIRES MUST BE LABELED ON BOTH ENDS

TABLE 2

CONTROL TRANSFORMERS - 100VA

	FUSE TYPE	208 VOLT	230 VOLT	380/460 VOLT	575 VOLT
FU1,2	FNQR	1.25A	1.25A	0.5A	0.5A
FU3	FNM	1.25A	1.25A	1.25A	1.25A

WIRE TYPE TABLE

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120VAC	001–599	14 AWG	RED/BLK
0VAC	W	14 AWG	WHITE
24VDC	700–999	16–18AWG	PURPLE
0VDC	701	16–18AWG	PURPLE
GND	—	VARIES	GREEN
CUSTOMER SUPPLY	01–99	16–18AWG	YELLOW

OPTIONAL:

POWEREX
150 PRODUCTION DRIVE, HARRISON, OHIO 45030
Ph: 888-769-7979 Fax: (513) 367-3125

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
09/29/08	01/11/10	01/11/10

PANEL TYPE
SCROLL ENCLOSED SIMPLEX

DWG. TYPE 3PH WIRING

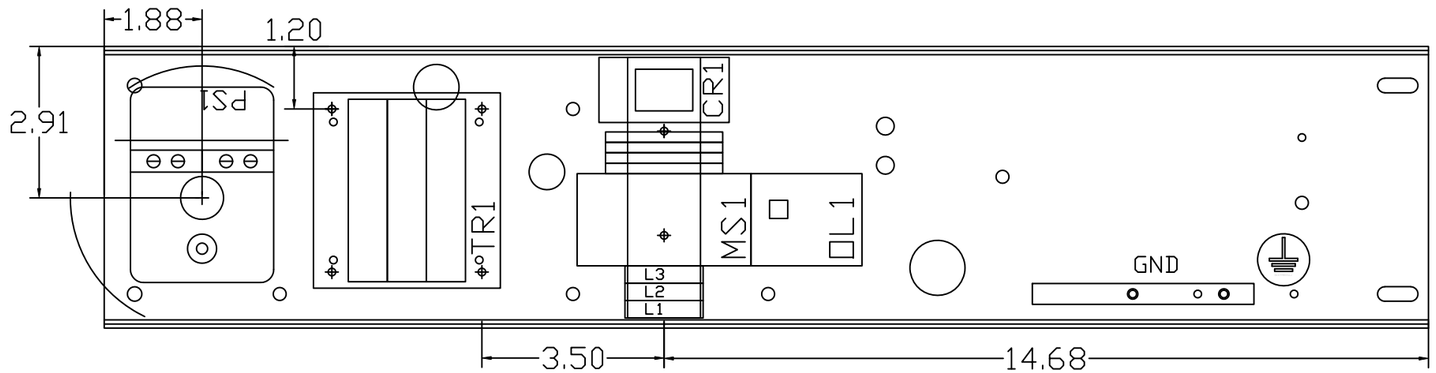
DWG. NO.
PEI-100

SHEET 1 OF 3

SIZE B

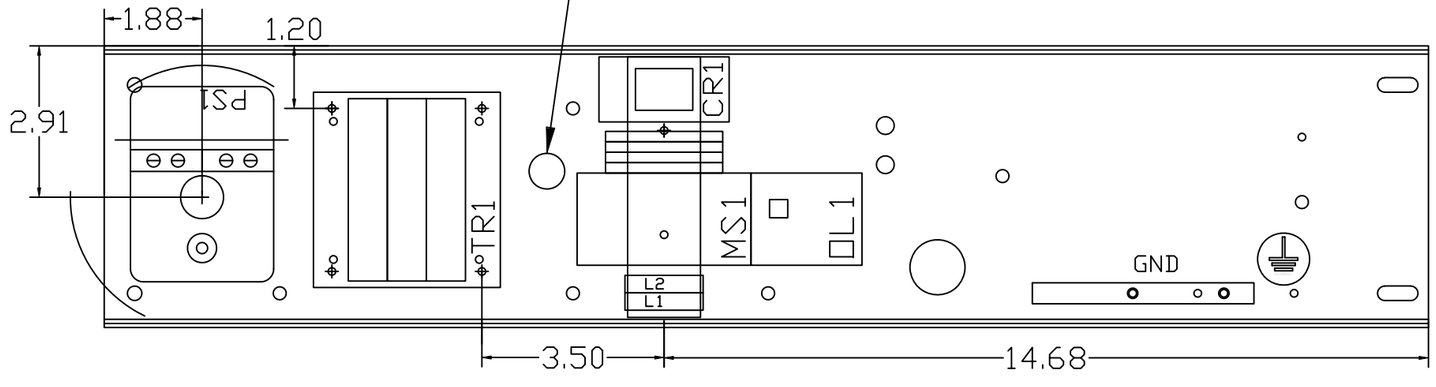
PEI-100 B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/29/08	21906	CHR	DMS
R	MOVED OUT OF TC AND UPDATED 230/1/50 FLA	08/02/22	PXEC0495	VAG	MKD
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Z-1	UPDATED FLA INFO & PANEL/MOTOR PART NUMBERS	08/03/2026	PXEC0753	LG	JA



THREE PHASE LAYOUT

FOR SF1309 SERIES ONLY:
1/2" DUAL CORD STRAIN RELIEF
USE FOR: ELECTRIC AUTO DRAIN &
TEMPERATURE SWITCH



SINGLE PHASE LAYOUT

OPTIONAL:

POWEREX™

150 PRODUCTION DRIVE, HARRISON, OHIO 45030
Ph: 888-769-7979 Fax: (513) 367-3125

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
09/29/08	01/11/10	01/11/10

PANEL TYPE
SCROLL ENCLOSED SIMPLEX

DWG. TYPE LAYOUT

DWG. NO.
PEI-100

SHEET 2 OF 3

SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	09/29/08	21906	CHR	DMS
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TABLE 1
PANEL DATA - 60Hz 100VA CONTROL CIRCUIT

(A) LOAD SPECIFICATIONS						(B) BRANCH CIRCUIT PROTECTION – PROVIDED BY INSTALLER		
SYSTEM TYPE	MOTOR SIZE EA	POWER (V/PH)	PANEL P/N	MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NONTIME DELAY FUSE (A)	TIME-DELAY FUSE (A)	INVERSE-TIME CIRCUIT BREAKER (A)
3	3	208/3ø	PEI10032AJ	8.8	9.3	30	20	25
	3	230/3ø	PEI10033AJ	7.72	8.2	25	15	20
	3	460/3ø	PEI10034AJ	3.86	4.1	15	10	10
5	5	208/3ø	PEI10052AJ	14.6	15.1	45	30	40
	5	230/3ø	PEI10053AJ	12.7	13.1	40	25	35
	5	460/3ø	PEI10054AJ	6.33	6.5	20	15	20
NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE								

NOTES:

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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
09/29/08	01/11/10	01/11/10

PANEL TYPE
SCROLL ENCLOSED SIMPLEX

DWG. TYPE 3PH DATA

DWG. NO.
PEI-100

SHEET 3 OF 3

SIZE B