

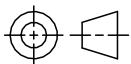
THERMAFLO

ENGINEERING COMPANY

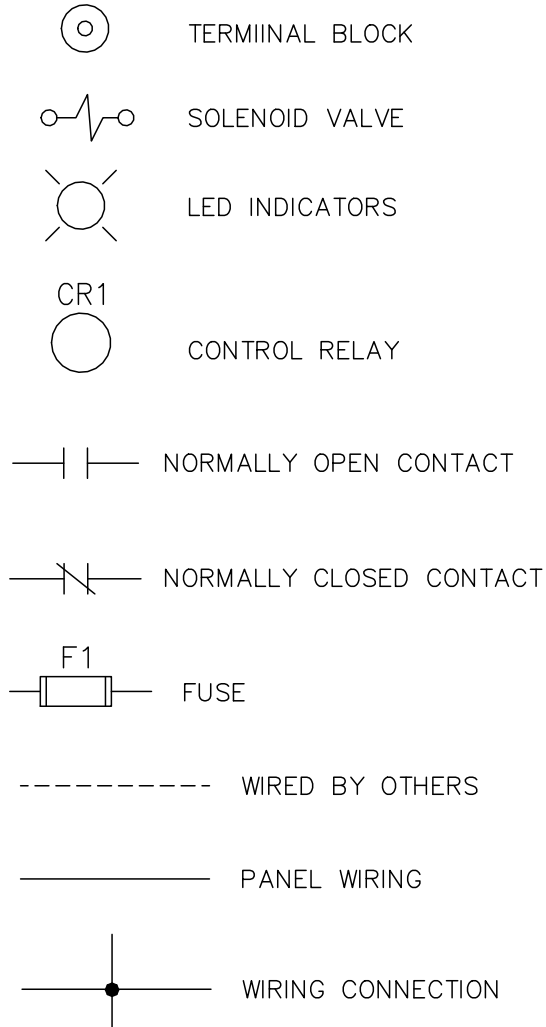
Pneumatic Temperature & Pump Control Panel

Model: EC-800-PN-PM6

ELECTRICAL SCHEMATICS


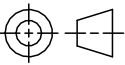
 DO NOT SCALE DRAWING	THERMAFLO ENGINEERING COMPANY <small>MANUFACTURERS of STEAM FIRED SPECIALTY EQUIPMENT</small>		<small>Since 1986</small>	<small>CHK'D BY</small> AS	<small>TITLE</small> ThermaFlo Engineering Co.		
	<small>DRAWING TYPE</small> Electrical Schematics		<small>DATE ISSUED</small> 04/13/10	<small>SCALE</small> N.T.S.	<small>DRAWING NUMBER</small> S03233-1	<small>REV</small> 0	<small>SHEET</small> 1
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SYMBOLS LEGEND:



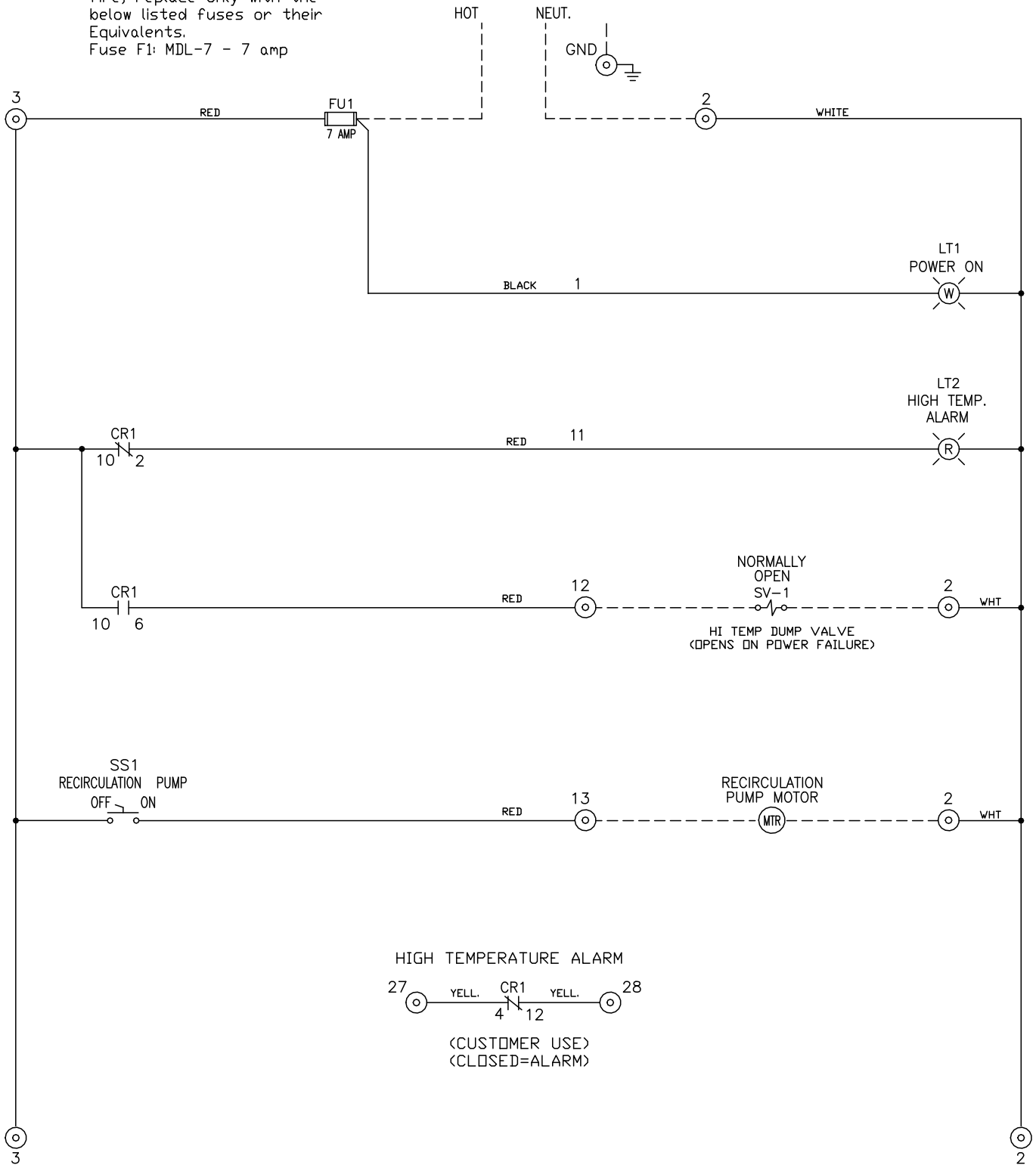
NOTES:

1. Panel wiring to be 18 AWG
Field wiring to be 14 GA THHN or larger
2. Wire numbers are the same as therminal numbers except where noted.
3. 5. Main circuit breaker to be 10 amp by others.

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WARNING: To reduce risk of fire, replace only with the below listed fuses or their Equivalents.
Fuse F1: MDL-7 - 7 amp

**120VAC 1 Phase 60hz
(Protected By 10 Amp Breaker)**



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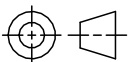
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TITLE

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**Pneu. & Temp.
Pump Control Panel**



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WATLOW CONTROLLER PM6C1FJ-1RFAAAA PIN SCRIPTIIONS

SLOT A

OUTPUT 1 0-10 VDC 0-20MA	{	F1	VOLTS- / CURRENT-
		G1	VOLTS+
		H1	CURRENT+
OUTPUT 2 RELAY	{	L2	NORMALLY OPEN
		K2	COMMON
INPUT 1 ANALOG	{	T1	RTD+ / CURRENT +
		S1	RTD- / CURRENT- / VOLTS-
		R1	RTD+ / THERMOCOUPLE+ / VOLTS+

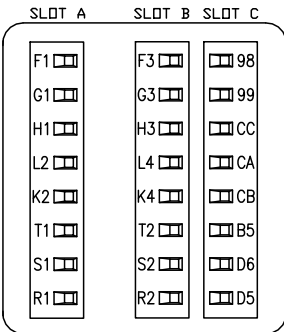
SLOT B

OUTPUT 3 0-10 VDC 0-20MA	{	F3	VOLTS- / CURRENT-
		G3	VOLTS+
		H3	CURRENT+
NONE	{	L4	
		K4	
INPUT 2 ANALOG	{	T2	RTD+ / CURRENT +
		S2	RTD- / CURRENT- / VOLTS-
		R2	RTD+ / THERMOCOUPLE+ / VOLTS+

SLOT C

120VAC POWER	{	98	POWER - 120VAC HOT
		99	POWER - 120VAC NEUTRAL
EIA 485 MODBUS RTU	{	CC	COMMON
		CA	T-/R-
		CB	T+/R+
		B5	
		D6	
		D5	

WATLOW CONTROLLER SLOT LOCATIONS



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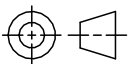
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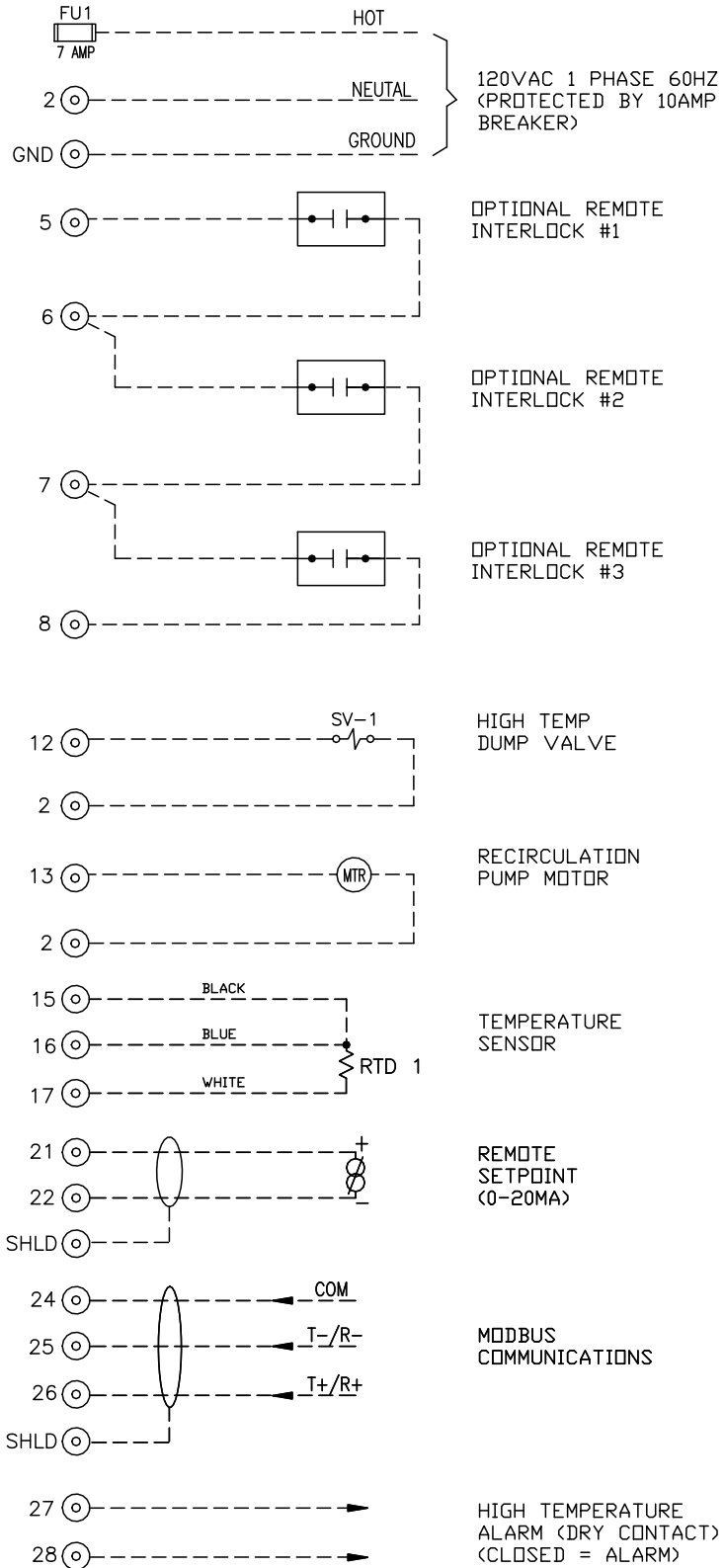
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REV	0	SHEET	5
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CONTROL PANEL EXTERNAL CONNECTIONS



NOTE

⊙ CONTROL PANEL TERMINAL BLOCK SYMBOL

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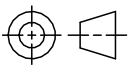
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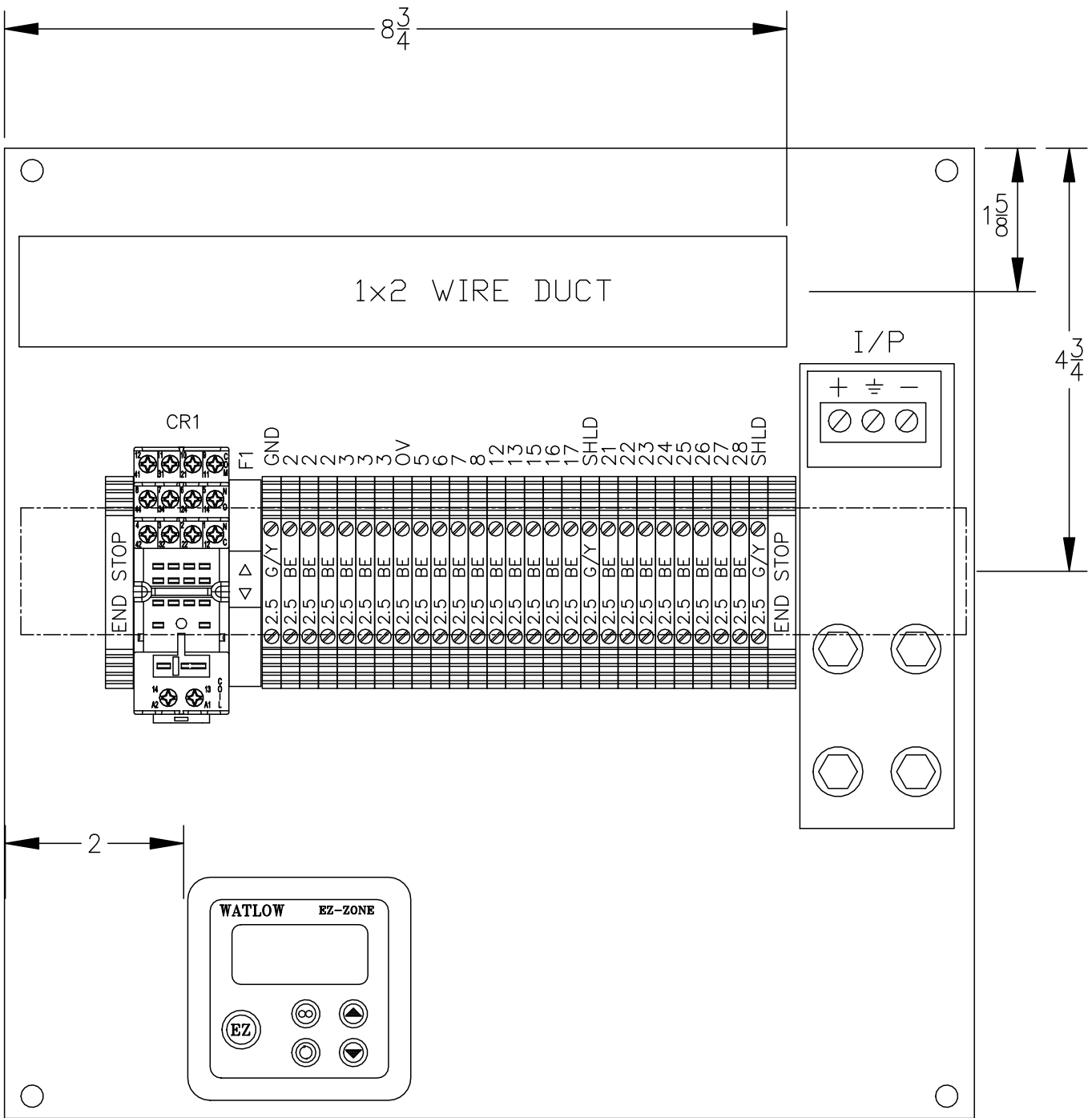
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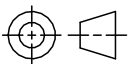
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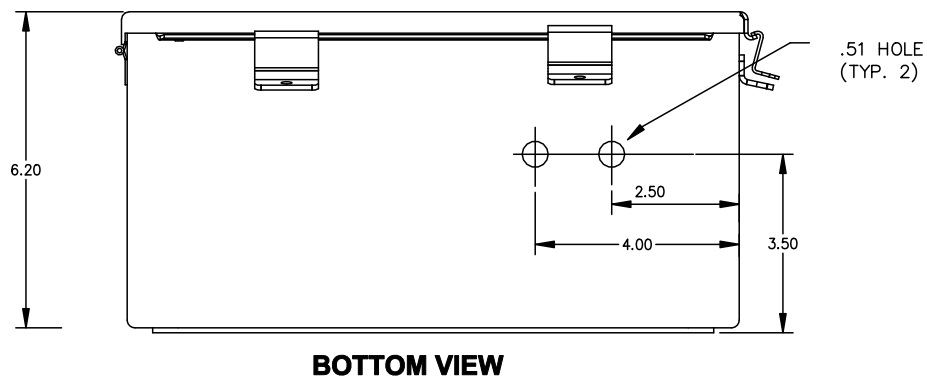
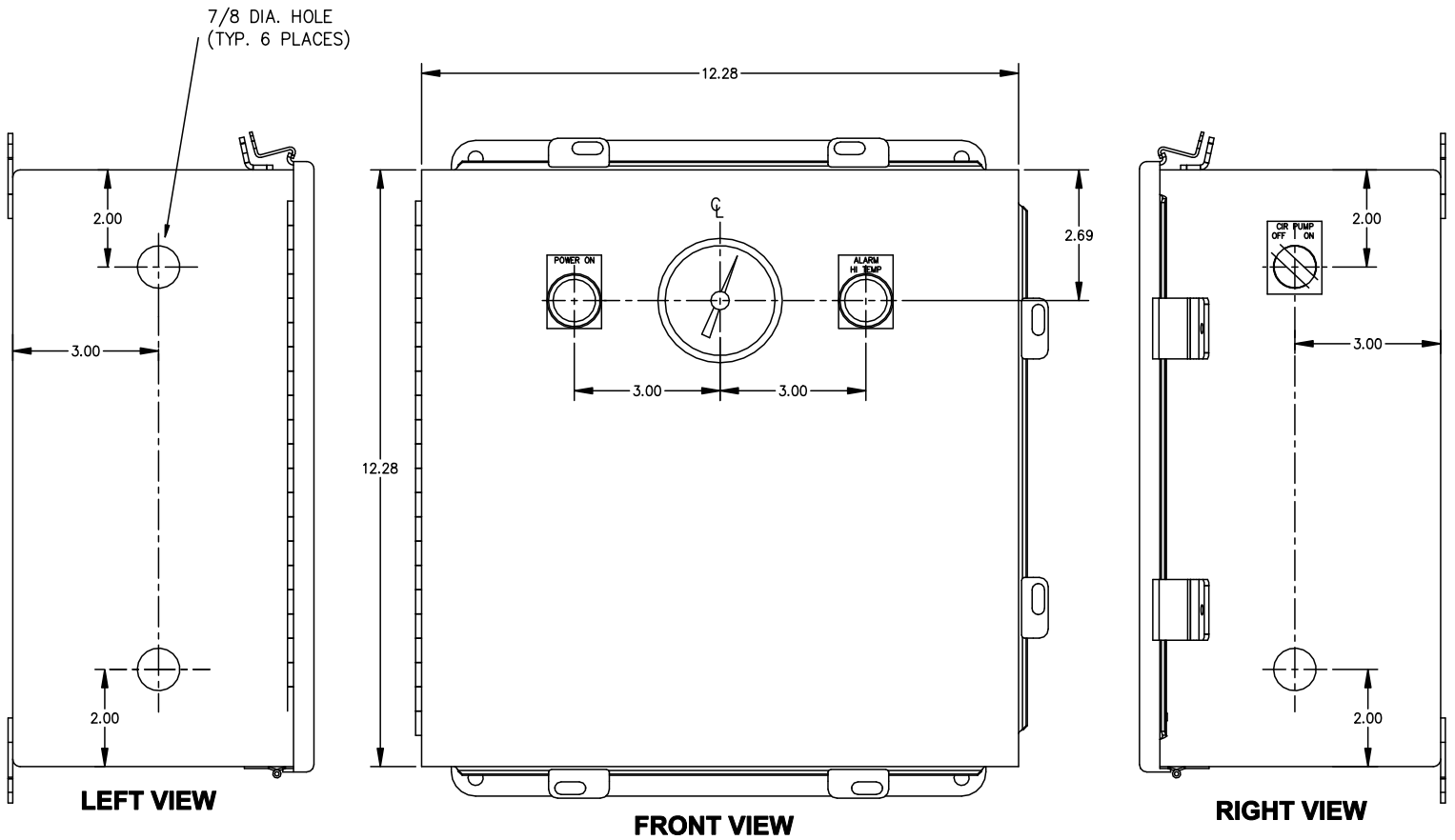
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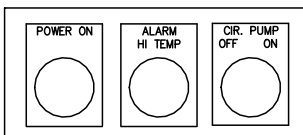
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LEGEND PLATES



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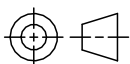
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Pump Control Panel**



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DRAWING TYPE Electrical Schematics

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