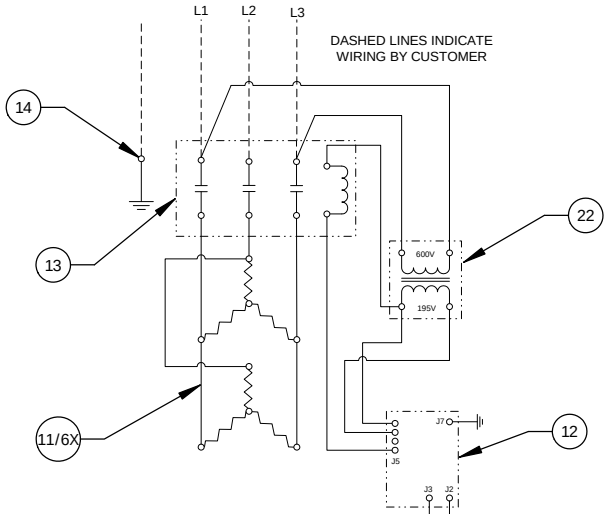
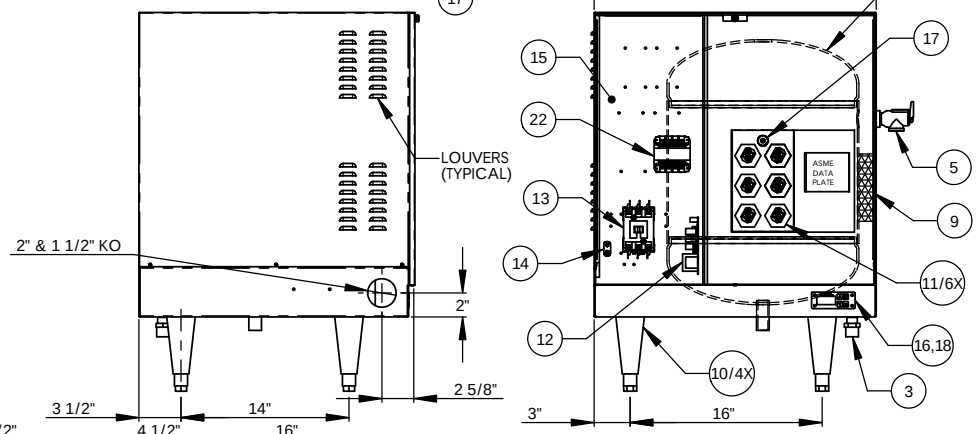
45kW - 600V - 3Ø - 42.2A



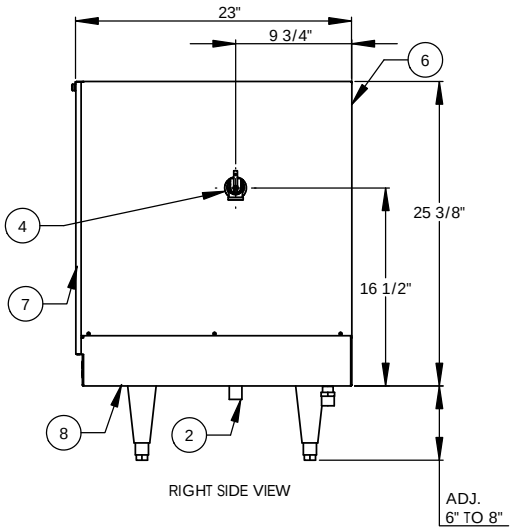
VOLTAGE ACROSS INDIVIDUAL
ELEMENTS IS 347V.

ITEM NO.	QTY.	PART NO.	MATERIAL	DESCRIPTION
1	1	J16-6 TANK	304L S/S	16 GALLON VESSEL ASSEMBLY
2	1	J16 INLET	304 S/S	3/4" MNPT INLET
3	1	J16 OUTLET	COPPER	3/4" MNPT OUTLET
4	1		304L S/S	3/4" FNPT FOR RELIEF VALVE
5	1	100XL .75 150LB	BRONZE	RELIEF VALVE SET AT 150PSI, 210°F
6	1	J16 JACKET	304 S/S	TOP COVER ASSEMBLY
7	1	J16 FRONT COVER	304 S/S	FRONT COVER ASSEMBLY
8	1	J16 BASE	304 S/S	BASE ASSEMBLY
9	1		FOAM	INSULATION
10	4	61649NOBN5T4	PLASTIC	ADJUSTABLE LEGS
11	6	C1315-13	BRASS PLUG & COPPER SHEATH	HEATING ELEMENT - 1-7/8" HEX 3500W @ 240V/7317W @ 600V
12	1	T1000	VARIOUS	CONTROL MODULE
13	1	C25DNF340B	VARIOUS	MAGNETIC CONTACTOR 50A (RESISTIVE) - 240V
14	1	KA4C	COPPER	GROUND LUG
15	1	J16 CONTROL PLATE	GALVANEEL	ELECTRICAL MOUNTING PANEL
16	1	TD1000	VARIOUS	DIGITAL DISPLAY MODULE
17	1	P65	VARIOUS	PROBE ASSEMBLY
18	1	OVERLAY J MODEL	LEXAN	OVERLAY FOR DISPLAY MODULE
19	1		VARIOUS	LEAK DETECTION SENSOR
20	1	TTD405	VARIOUS	T&P GAUGE 30-240°F/0-200PSI
21	1	N45BU	BRONZE	PRESS REDUCING VALVE 25-75PSI
22	1	B050-3350-3	VARIOUS	TRANSFORMER 50VA 600V/195V

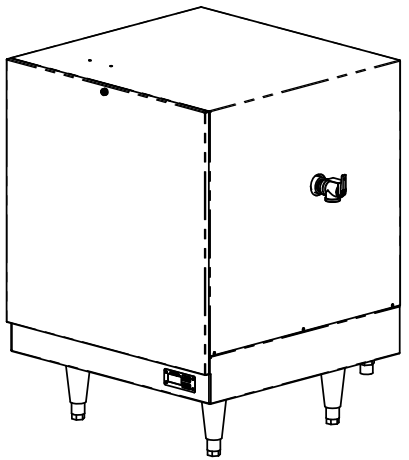
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

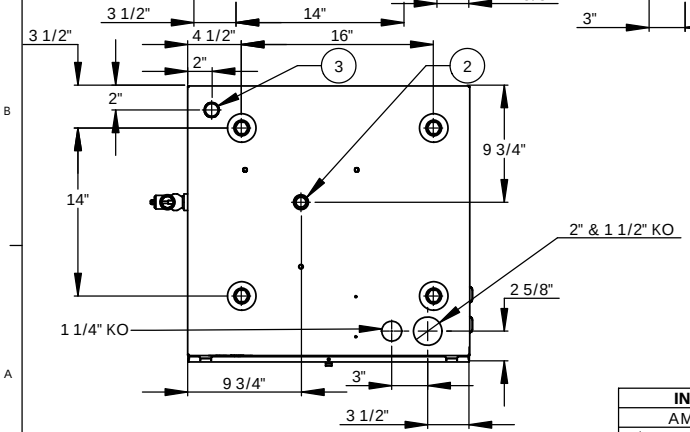


FRONT VIEW
(WITH COVER REMOVED)



RIGHT SIDE VIEW





BOTTOM VIEW

NOTES:
1. TANK IS DESIGNED, FABRICATED, AND STAMPED IAW ASME SECTION VIII CODE, LATEST ADDENDA.
2. TANK IS DESIGNED FOR 150PSI AND PRESSURE TESTED AT 225PSI.
3. PROBE ASSEMBLY (Pc. No. 17) PROVIDES TEMPERATURE CONTROL, HI-LIMIT, AND LOW WATER SENSING.
4. UNIT IS UL, CUL, AND UL EPH LISTED.
5. PIECE NOS. 5, 10, 20, & 21 ARE SHIPPED LOOSE.
6. CONTROL CIRCUIT WIRE TO BE #18 TEFZEL 750 (200°C), POWER CIRCUIT WIRE TO BE #10 TEFZEL 750 (200°C). ELEMENT JUMPER WIRE TO BE #12 TEFZEL 750 (200°C).
7. PHASE TO PHASE RESISTANCE: 16.4 OHMS
8. APPROXIMATE WEIGHT:
   DRY: 131 LBS.
   WET: 264 LBS.
9. DERATE TO 40.32kW FOR 575V.

INSTALLATION REQUIREMENTS	
AMP Draw	42.2
Min. Breaker/Fuse Size	55 AMP
Cu Power Feed Wire	#6 AWG THHN
Min. Power Conduit	3/4"
Wiring Diagram	15

ELECTRICAL NOTES:
1. POWER FEED WIRE SIZING IS BASED ON 75°C Cu THHN WIRE WITH FEEDER BRANCH PROTECTION AT 125%.
2. REFERENCE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.

PROPRIETARY AND CONFIDENTIAL
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DIMENSIONS ARE IN INCHES
TOLERANCES:
(UNLESS OTHERWISE SPECIFIED)
FRACTIONAL ±⅛
ANGULAR: MACH ±½° BEND ±1°
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.005

	DATE	NAME
DRAWN	2/21/05	SCL
CHECKED	2/21/05	WENIII
ENG APPR.	2/21/05	PRD
MFG APPR.	2/21/05	CHD

Hubbell™ Stratford, CT 06615 (203) 378-2659
The Electric Heater Company

Customer:

Description: J MODEL BOOSTER HEATER
J1645T6 - 16 GALLON
45kW - 600V - 3Ø

SIZE	DWG. NO.	REV
C	J1645T6	

SCALE: 1:8 | FSCM: 19857 | SHEET 1 OF 1