

Accessory 44 Strip Heater

for ASCO® Automatic Transfer Switches

Accessory 44 Strip Heater is designed to keep humidity and/or temperature within the ATS enclosure at acceptable levels. This accessory consists of a mounting bracket with strip heater, thermostat, and terminal block. A transformer with fuses is included when the power for the assembly is derived from the ATS. The 120 V ac customer powered assembly does not include a transformer. This accessory is available factory installed or in kit form. If already installed, turn the thermostat's dial to required setting.

⚠ DANGER

De-energize all power to the Transfer Switch before opening the enclosure. Hazardous voltage capable of causing shock, burns, or death is used in this switch.

Mounting

1. After de-energizing both Normal and Emergency power sources and the Load, open the enclosure door. Carefully use a voltmeter to verify that all power is de-energized at the Transfer Switch power terminals
2. **Hole Drilling Data Sheets** are shown in this publication. They are not drilling templates. They specify locations and sizes of the strip heater assembly mounting holes for each ampere rating size ATS (not for J-design). Drill two holes into the enclosure as indicated.

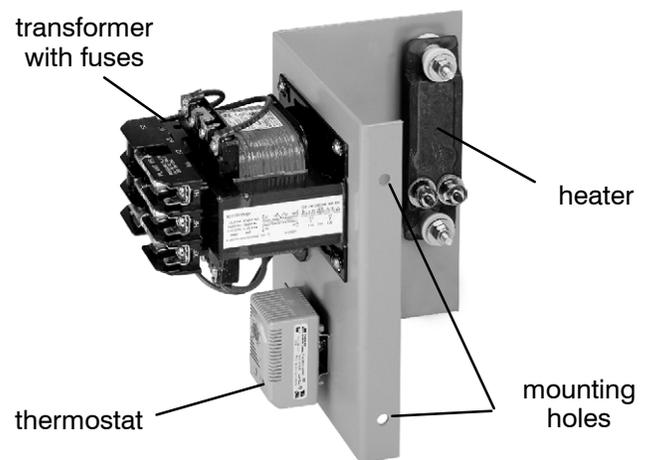
⚠ CAUTION

Protect the transfer switch from metal chips when drilling the holes. Clean up all debris inside the enclosure after drilling.

3. Use the kit hardware supplied to mount the bracket to the inside of the enclosure. The thermostat should face the front of the enclosure after mounting the assembly. For J-design ATSS refer to the installation drawing.

⚠ DANGER

De-energize the conductors before making any connections. Open the Normal and Emergency source circuit breakers and be sure that the load is also de-energized.



Wiring

1. A **Mounting Data** drawing is included on the back page. Select the appropriate wiring diagram and illustration according to Transfer Switch ampere rating size. If 120 V ac customer-furnished power will be used, go to step 2. If power will be from the Transfer Switch go to step 3.
2. **120 V ac customer-furnished power.** Run the 120 V ac line into the enclosure and connect the wires to TB terminals TB-1 and TB-2 on the strip heater assembly.
3. **Transfer Switch derived power.** Use #14 stranded wire to make a two-wire harness (not provided). Select the appropriate illustration on the **Mounting Data** diagram (back page) according to Transfer Switch ampere rating size. Follow it to connect the Transfer Switch to the strip heater assembly. Connect one wire from transfer switch Load terminal LA to the strip heater assembly's fuse block terminal HI; connect the other wire from Load terminal LC to terminal HF on the fuse block. Double check all wiring before continuing.

⚠ CAUTION

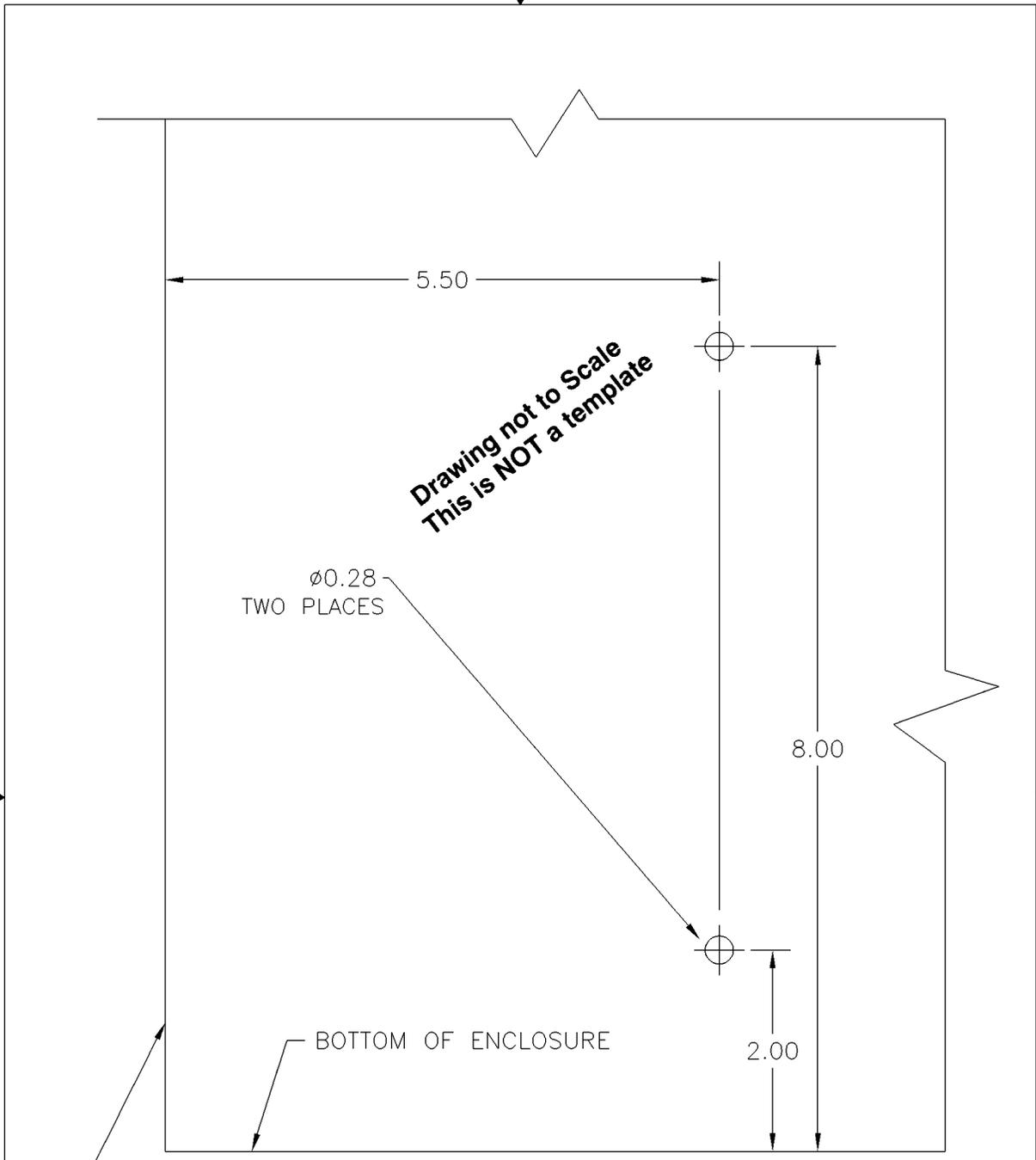
Keep all wiring away from the heater surface.

4. Turn the thermostat's dial to desired setting. Then close the enclosure door.
5. After the door is closed, reenergize the ATS (close Normal and Emergency source circuit breakers and reenergize the load). If a separate 120 V ac line was used for the accessory, energize that line.



⚠ WARNING

To avoid burns, do not touch the heater surface which becomes hot during operation.

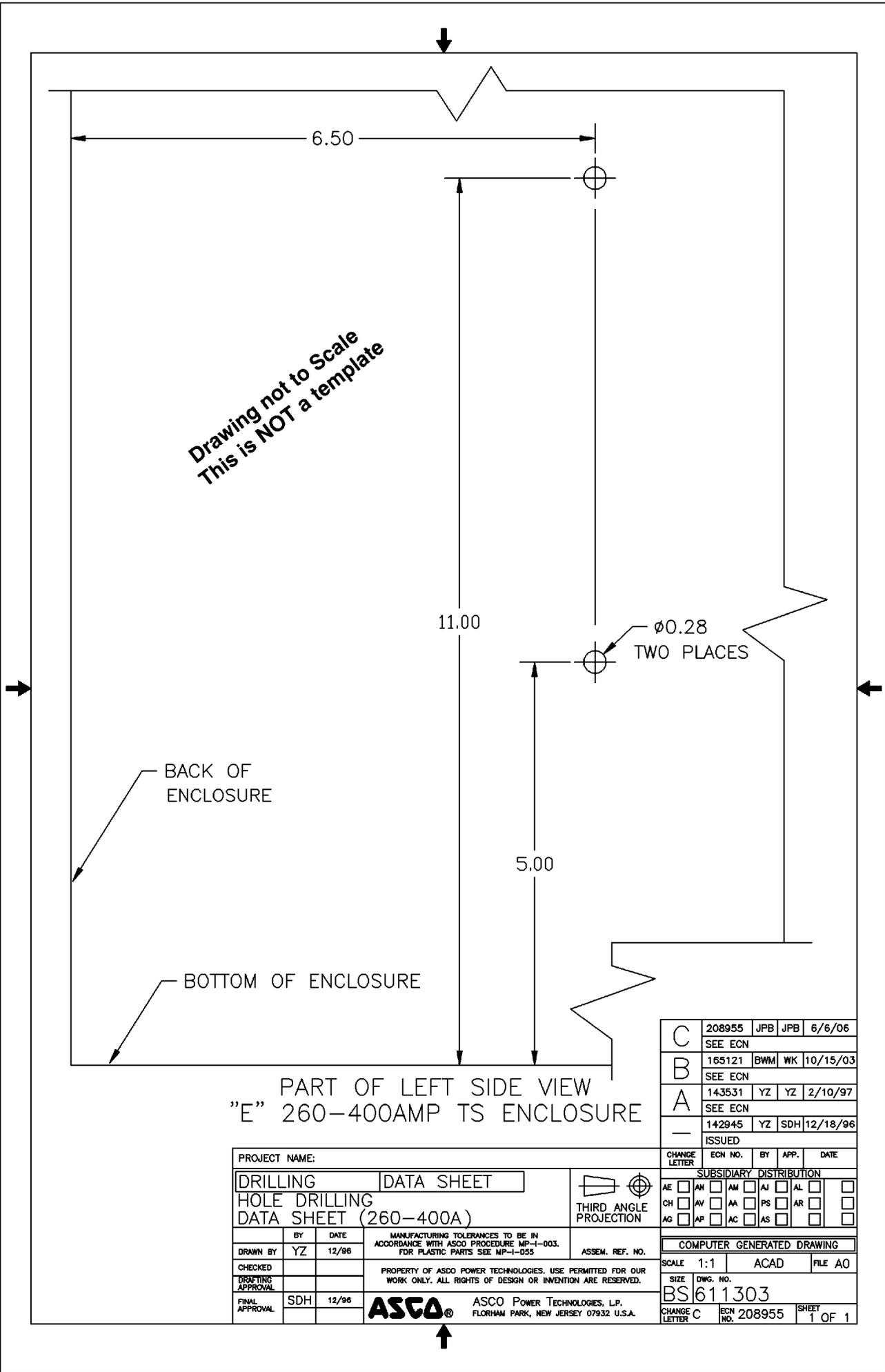


PART OF LEFT SIDE VIEW
30-230 AMP TS ENCLOSURE

D	165121	BWM	WK	10/15/03
	SEE ECN			
C	153671	BWM	WK	1/13/00
	SEE ECN			
B	144996	YZ	YZ	6/97
	SEE ECN			
A	143531	YZ	YZ	2/10/97
	SEE ECN			
-	142945	YZ	SDH	12/18/96
	ISSUED			

PROJECT NAME:			CHANGE LETTER	ECN NO.	BY	APP.	DATE	
DRILLING DATA SHEET			SUBSIDIARY DISTRIBUTION					
HOLE DRILLING DATA SHEET (30-230 AMP TS)			AE	<input type="checkbox"/>	AN	<input type="checkbox"/>	AM	<input type="checkbox"/>
			CH	<input type="checkbox"/>	AV	<input type="checkbox"/>	AA	<input type="checkbox"/>
			AG	<input type="checkbox"/>	AP	<input type="checkbox"/>	AC	<input type="checkbox"/>
			AS	<input type="checkbox"/>	AT	<input type="checkbox"/>	AW	<input type="checkbox"/>
			AX	<input type="checkbox"/>	AY	<input type="checkbox"/>	AZ	<input type="checkbox"/>
MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055.			COMPUTER GENERATED DRAWING					
ASSEMB. REF. NO.			SCALE 1:1 ACAD FILE AO					
PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			SIZE DWG. NO.					
SDH 12/96			BS 611302					
FINAL APPROVAL			CHANGE LETTER D ECN NO. 165121 SHEET 1 OF 1					

ASCO ASCO POWER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.



Drawing not to Scale
This is NOT a template

PART OF LEFT SIDE VIEW
"E" 260-400AMP TS ENCLOSURE

C	208955	JPB	JPB	6/6/06
	SEE ECN			
B	165121	BWM	WK	10/15/03
	SEE ECN			
A	143531	YZ	YZ	2/10/97
	SEE ECN			
-	142945	YZ	SDH	12/18/96
	ISSUED			

PROJECT NAME:

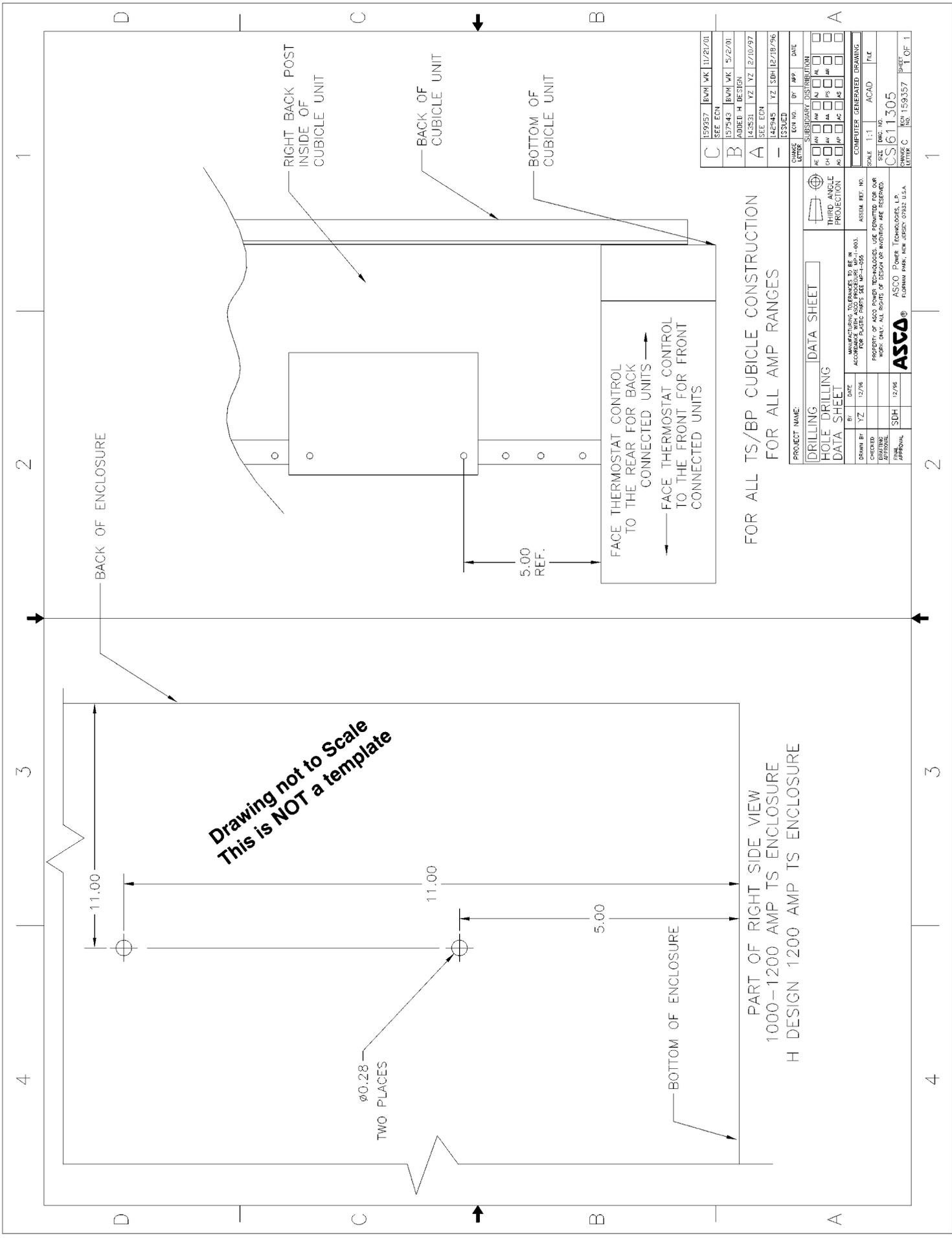
DRILLING DATA SHEET
HOLE DRILLING
DATA SHEET (260-400A)



DRAWN BY	YZ	DATE	12/96	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-035	ASSEM. REF. NO.
CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
DRAFTING APPROVAL					
FINAL APPROVAL	SDH	DATE	12/96		

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CHANGE LETTER	ECN NO.	BY	APP.	DATE
SUBSIDIARY DISTRIBUTION				
AE	AM	AN	AO	AP
CH	AV	AA	PS	AR
AG	AP	AC	AS	
COMPUTER GENERATED DRAWING				
SCALE	1:1	ACAD	FILE	A0
SIZE	DWG. NO.			
BS611303				
CHANGE LETTER	ECN NO.	208955	SHEET	1 OF 1



**Drawing not to Scale
This is NOT a template**

PART OF RIGHT SIDE VIEW
1000-1200 AMP TS ENCLOSURE
H DESIGN 1200 AMP TS ENCLOSURE

C	159357	BVM/VK	11/21/01
	SEE EGN		
B	157543	BVM/VK	5/2/01
	ADDED H DESIGN		
A	143531	YZ/YZ	2/10/97
	SEE EGN		
-	142945	YZ/SDH	12/19/96
	ISSUED		
CHANGE LETTER	CON NO.	BY	DATE
SUBSIDIARY DISTRIBUTION			
AC	AM	AN	AL
AD	AW	AA	AP
AG	AC	AE	AF
COMPUTER GENERATED DRAWING			
SCALE	1:1	ACAD	FILE
SIZE	DWG. NO.	CS611305	
CHANGE C	NO.	159357	
LETTER		SHEET 1 OF 1	

FOR ALL TS/BP CUBICLE CONSTRUCTION
FOR ALL AMP RANGES

PROJECT NAME:	DRILLING DATA SHEET
THIRD ANGLE PROJECTION	
DATE	12/96
BY	YZ
CHECKED	
DESIGNED	
APPROVAL	
ASSEMB. REF. NO.	
MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASME Y14.5	
PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
ASCO	ASCOPower Technologies, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.

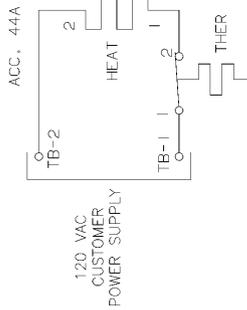


DIAGRAM (CUSTOMER SUPPLY 120V)

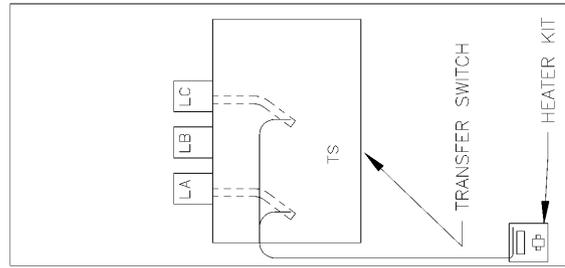


DIAGRAM (208-240V & 440-480V)



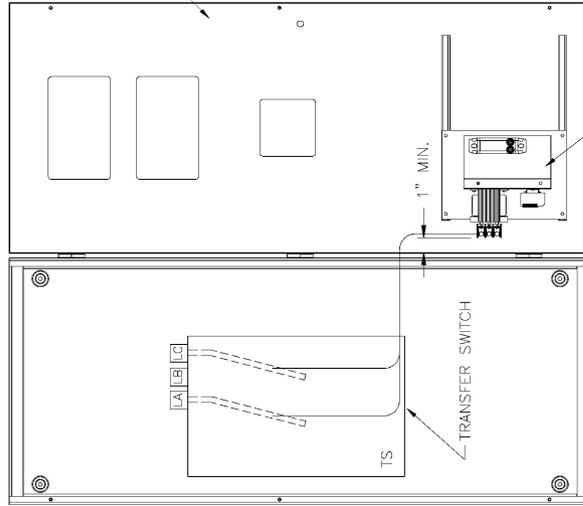
DIAGRAM (380V & 550-600V)

VOLTS	FUSE (PRIMARY)
208-240V	1 1/2 AMP
380V	8/10 AMP
460-480V	6/10 AMP
550-600V	6/10 AMP



FRONT VIEW
WITHOUT DOOR
600-800 AMPS TS

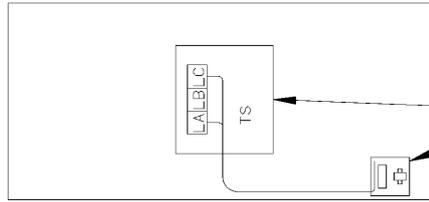
"H" DESIGN 600-1000 AMPS TS



FRONT VIEW
WITH DOOR
150-600 AMPS TS

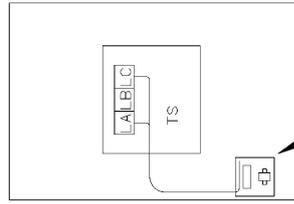
"J" DESIGN 150-600 AMPS TS

(ALSO E7ATB, 150-400 AMPS, MOUNTING LOCATION ON DOOR AS APPLICABLE)



FRONT VIEW
WITHOUT DOOR
260-400 AMPS TS (ATS)

"E" 260-400 AMPS TS (ATS)



FRONT VIEW
WITHOUT DOOR
30-230 AMPS TS

REV	BY	CHK	DATE
1	145931	YZ	2/7/97
2	157543	BMW	6/12/01
3	159537	BMW	11/29/01
4	165131	BMW	10/15/03
5	169255	JPH	3/21/08
6	211548	MRE	8/7/09/07
7	215925	BMW	8/7/09/07
8	215925	BMW	8/7/09/07

NOTE:

1. DRAWINGS ARE NOT TO SCALE
2. USE EXISTING HOLES ON ENCLOSURE TO MOUNT HEATER KIT FOR 1600-3000 AMPS TS ENCLOSURE.

PROJECT NAME:	REV	BY	CHK	DATE
INSTRUCTION	1	145931	YZ	2/7/07
ROUTING DATA FOR	2	157543	BMW	6/12/01
HEATER KIT	3	159537	BMW	11/29/01
ENCLOSURE	4	165131	BMW	10/15/03
TERMINALS	5	169255	JPH	3/21/08
WARRANTY	6	211548	MRE	8/7/09/07
REVISIONS	7	215925	BMW	8/7/09/07
REVISIONS	8	215925	BMW	8/7/09/07

REV	DATE	BY	CHK
1	145931	YZ	2/7/07
2	157543	BMW	6/12/01
3	159537	BMW	11/29/01
4	165131	BMW	10/15/03
5	169255	JPH	3/21/08
6	211548	MRE	8/7/09/07
7	215925	BMW	8/7/09/07
8	215925	BMW	8/7/09/07

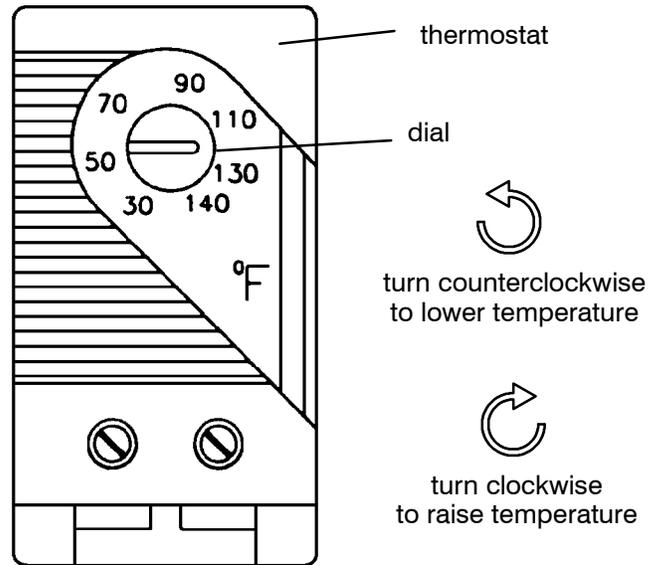
ASCO Power Technologies, Inc.
111911
POWER F 021 2002 10072

⚠ DANGER

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Operation

1. After de-energizing both Normal and Emergency power sources and the Load, open the enclosure door. Carefully use a voltmeter to verify that all power is de-energized at the Transfer Switch power terminals
2. Turn the thermostat's dial to desired setting. Then close the enclosure door.
3. After the door is closed, reenergize the ATS (close Normal and Emergency source circuit breakers and reenergize the load). If a separate 120 V ac line was used for the accessory, energize that line.



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