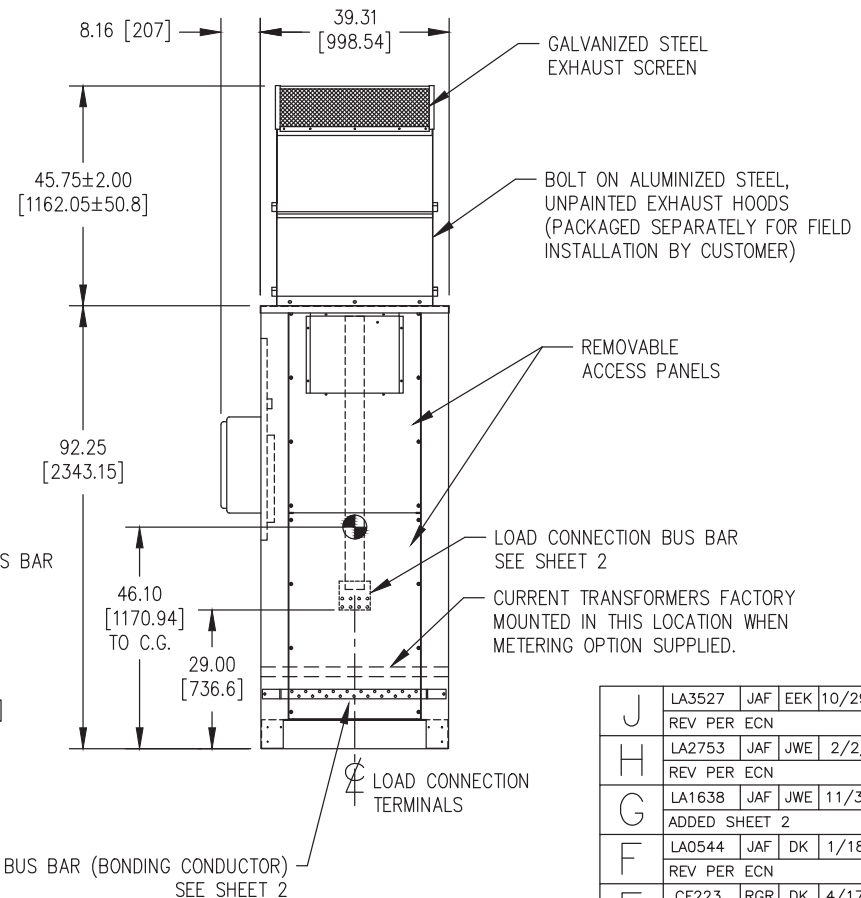
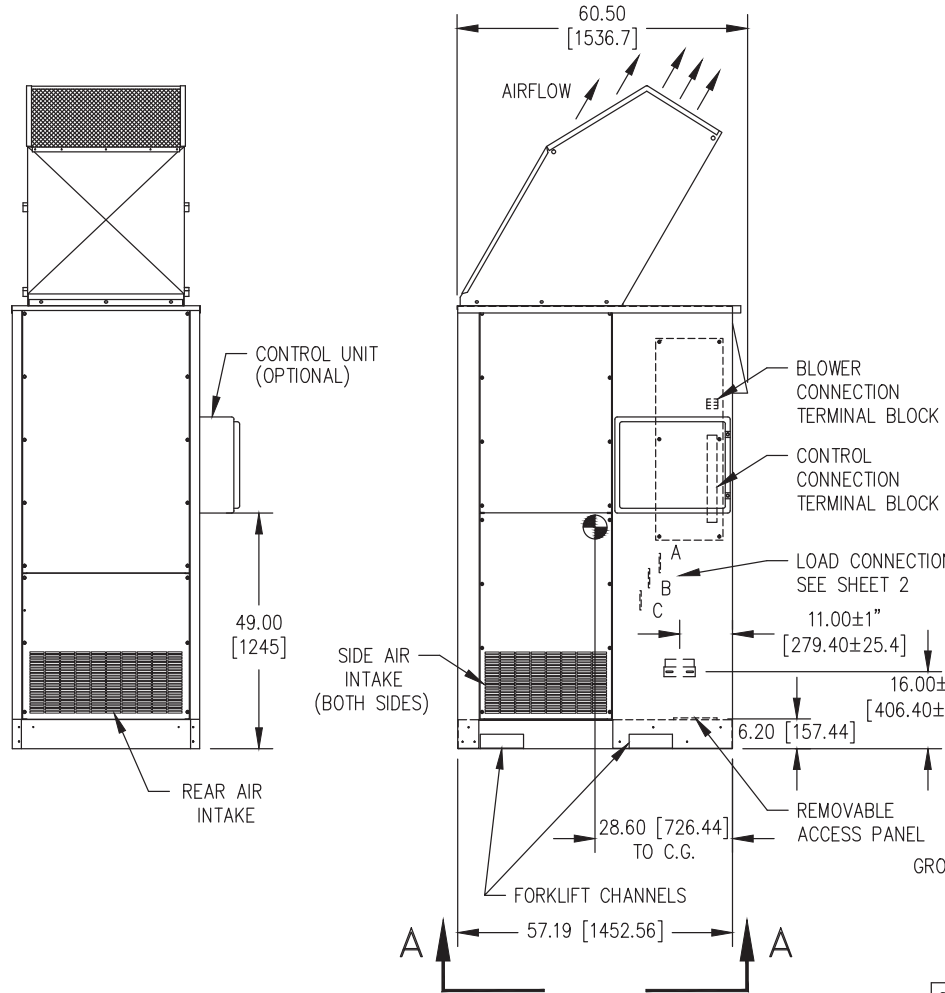


DRAWINGS

PROPRIETARY NOTE

This document contains information PROPRIETARY TO Avtron Load Bank branded products and systems by ASCO Power Technologies, LP. It is furnished solely to provide information sufficient for instruction, operation, maintenance, evaluation, and testing of the equipment herein disclosed; is not to be used for manufacturing or procurement; and is not to be disclosed to anyone other than persons in the Division, or the Company, or the Government, as the case may be, responsible for action relating to this document without the express written permission of ASCO Power Technologies, LP.

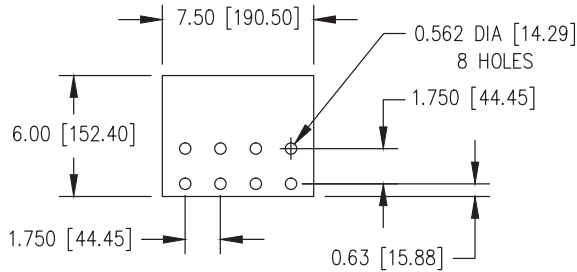


J	LA3527	JAF	EK	10/29/18
REV PER ECN				
H	LA2753	JAF	JWE	2/2/17
REV PER ECN				
G	LA1638	JAF	JWE	11/3/14
ADDED SHEET 2				
F	LA0544	JAF	DK	1/18/11
REV PER ECN				
E	CF223	RGR	DK	4/17/08
ADDED METRIC DIMS				
D	CD917	JAF	DK	1/7/05
ADDED C.T. BKT. DIMS.				

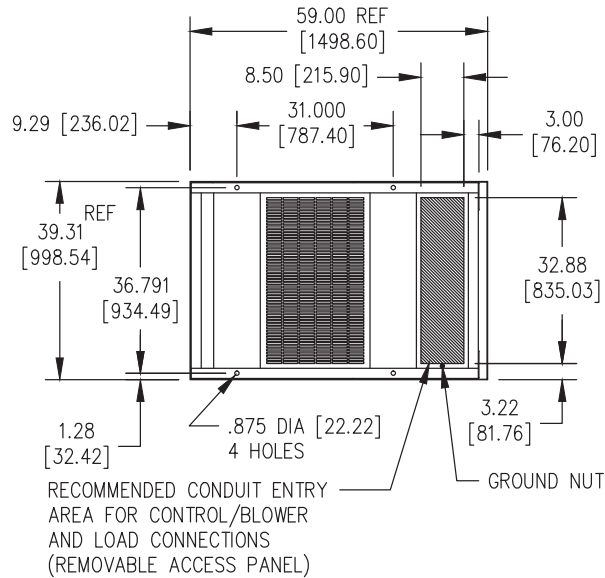
FOR APPLICATION ENGINEERING USAGE ONLY

PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
4810 LOAD BANK, OUTDOOR, (1) SINGLE BAY				 THIRD ANGLE PROJECTION				
DRAWN BY	BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.		COMPUTER GENERATED DRAWING		
CHECKED	JJF	5/4/98	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE 25:7		SIZE	BS	
PROJECT APPROVAL	DK	5/4/98		DWG. NO.	SB2793		SHEET 1 OF 2	
FINAL APPROVAL			ASCO ® ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV.	ECN NO.	LA3527	

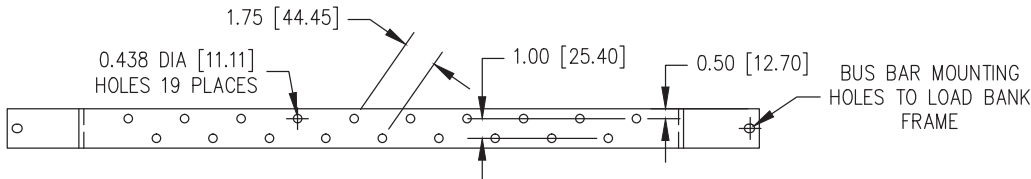
5. AS A GENERAL GUIDE, THE MINIMUM CLEARANCE REQUIRED FROM ANY OBSTRUCTION IS 6 FEET.
4. PROVIDE A CLEAR VERTICAL EXHAUST FIELD. REVIEW MANUAL FOR DETAILED INSTALLATION AND SITE CONDITIONS.
3. MAXIMUM INTAKE AIR TEMPERATURE IS 120°F. INTAKE AIR IS DRAWN IN FROM SIDES, END AND BOTTOM OF UNIT.
2. ALL DIMENSIONS ARE APPROX. IN INCHES [mm]
1. WEIGHT: 1500 LBS APPROX [680 Kg]



LOAD CONNECTION BUS BAR DETAIL
 BUS BARS ARE 0.25 [6.35] THICK
 TIN PLATED COPPER
 TYPICAL FOR ALL THREE PHASES
 (SCALE: NONE)



VIEW A-A



GROUND BUS BAR DETAIL
 GROUND BUS BAR IS
 0.25 [6.35] THICK COPPER
 (SCALE: NONE)

FOR APPLICATION ENGINEERING USAGE ONLY

PROJECT NAME:

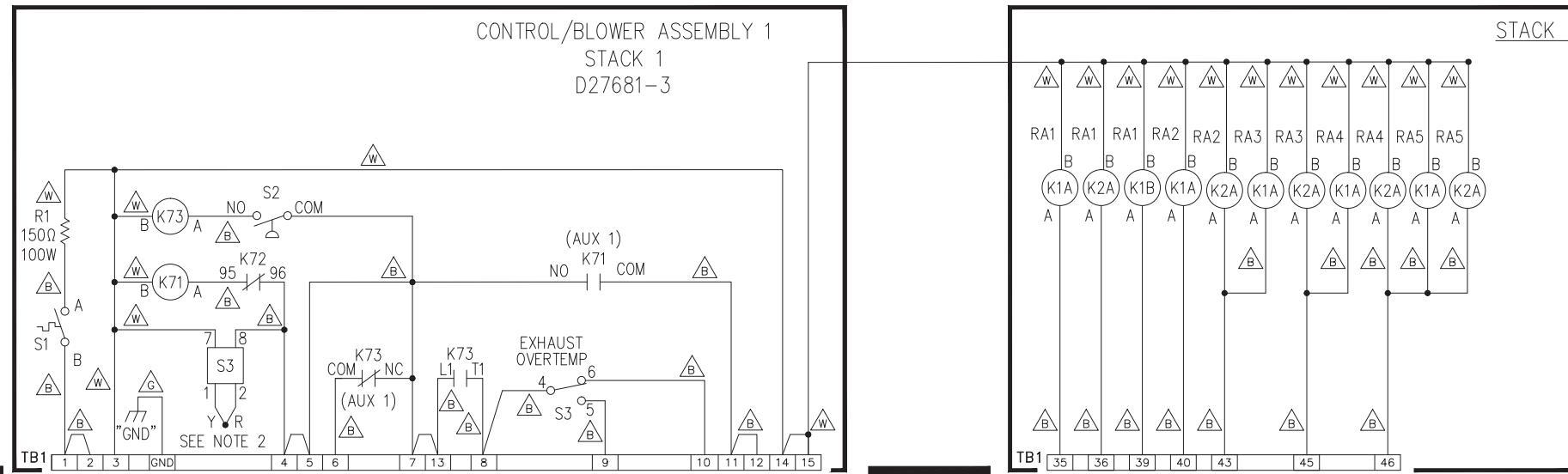
4810 LOAD BANK, OUTDOOR (1) SINGLE BAY

H	LA2753	JAF	JWE	2/2/17
REV PER ECN				
G	LA1638	JAF	JWE	11/3/14
ADDED THIS SHEET				
REV. TO SHEET	ECN NO.	BY	APP.	DATE

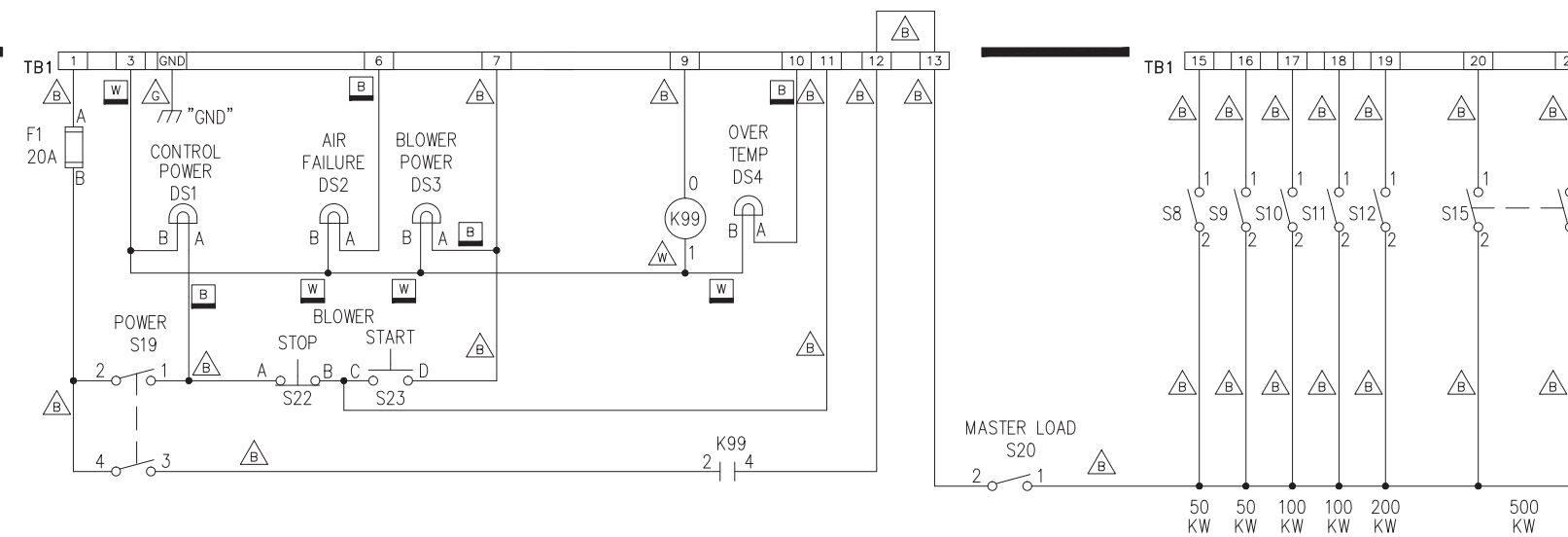


DRAWN BY		JJF	5/4/98	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING		
CHECKED		JJF	5/4/98			SCALE 24.5	SIZE BS	
PROJECT APPROVAL		DK	5/4/98	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO. SB2793		
FINAL APPROVAL				ASCO ® ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV. J	ECN NO. LA3527	SHEET 2 OF 2

LOAD BANK 4810/D29440-4

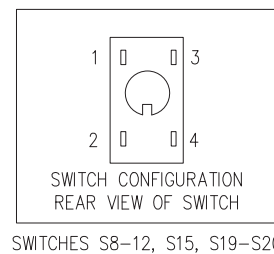


REFERENCE DRAWING D29814 FOR INTERCONNECTION WIRING BETWEEN LOAD BANK AND CONTROL PANEL D29743-7.



CONTROL PANEL D29743-7

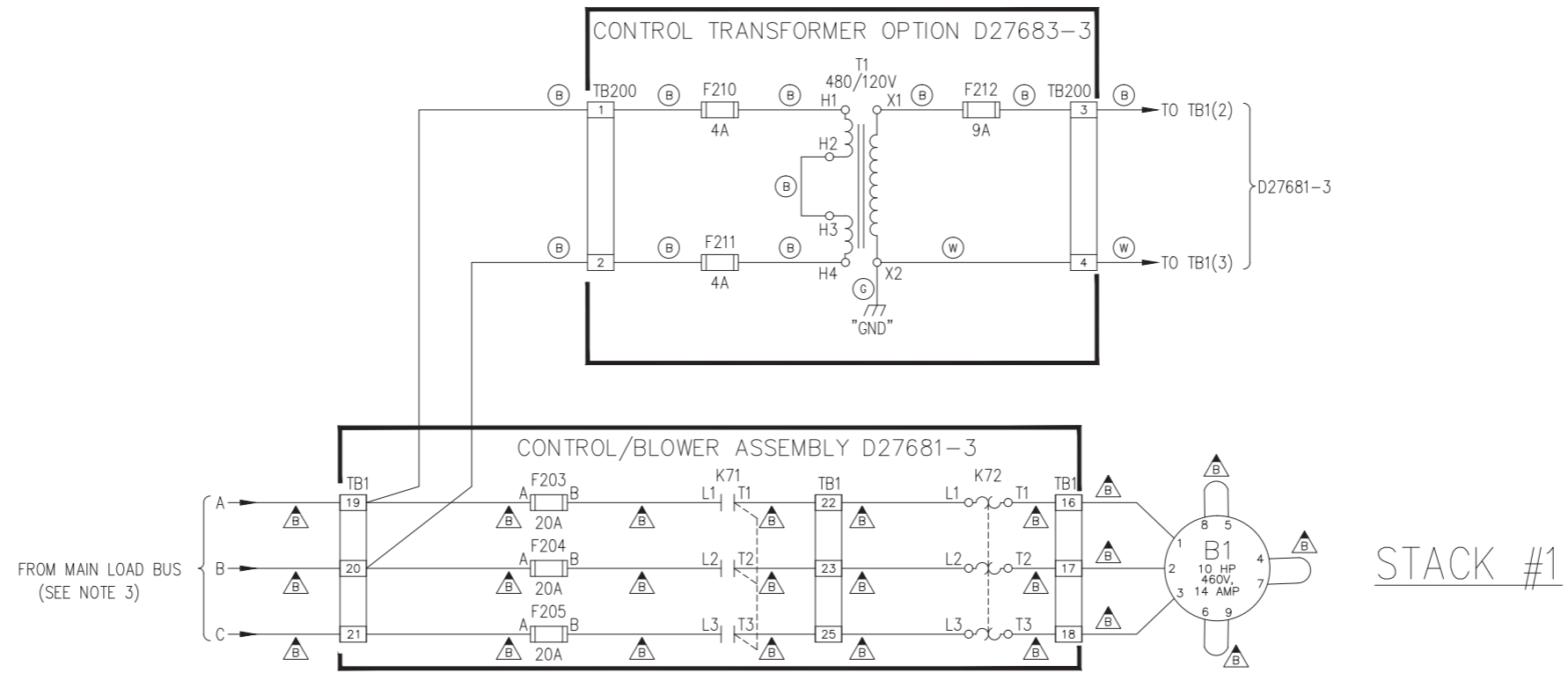
- 3) IF EXTERNAL POWER IS REQUIRED, REMOVE WIRING BETWEEN TB1(19-21) AND THE MAIN BUS. CONNECT EXTERNAL SUPPLY TO TB1 (19-21).
- 2) THERMOCOUPLE A24741 IS WIRED AT TOP ASSEMBLY. SET THERMOCOUPLES TO 375°.
- 1) **WIRE CODE**
INDICATOR LIGHTS (DS1-DS4) ONLY CAN BE #16-#22 AWG.
 - ⊠ INDICATES WIRE TO BE BLACK #16 AWG (PN 390008)
 - ⊠ INDICATES WIRE TO BE WHITE #16 AWG (PN 390008)
 - ⊠ INDICATES WIRE TO BE GREEN #16 AWG (PN 390008)
 - ⊠ INDICATES WIRE TO BE BLACK #14 AWG (PN 390011)
 - ⊠ INDICATES WIRE TO BE WHITE #14 AWG (PN 390011)
 - ⊠ INDICATES WIRE TO BE BLACK #12 AWG (PN 390014)
 - ⊠ INDICATES WIRE TO BE WHITE #18 AWG (PN 390005)
 - ⊠ INDICATES WIRE TO BE BLACK #6 AWG (PN 390323)
 - ⊠ INDICATES WIRE TO BE BLACK #2 AWG (PN 390325)
 - ⊠ INDICATES WIRE TO BE BLACK #22 AWG (PN 390001)
 - ⊠ INDICATES WIRE TO BE WHITE #22 AWG (PN 390001)



E	LA3394	SJ	GG	8/17/18
D	LA2903	AVC	GG	7/28/17
C	CC681	JAF	KAK	5/17/01
B	CB281	DT	KAK	9/2/99
A	CB213	JAF	KAK	7/30/99

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
SCHEMATIC DIAGRAM, LOAD BANK (1000KW, 480V)						
DRAWN BY	JAF	DATE	5/3/99	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
CHECKED	JJF	DATE	5/7/99	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 1:1 SIZE DS
PROJECT APPROVAL	KAK	DATE	5/8/99	ASCO POWER TECHNOLOGIES, L.P.		DWG. NO. D29813
FINAL APPROVAL	CB	DATE	5/10/99	FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV. E ECN NO. LA3394 SHEET 1 OF 3

LOAD BANK 4810/D29440-4



STACK #1

SEE SHEET 1 FOR WIRE CODE

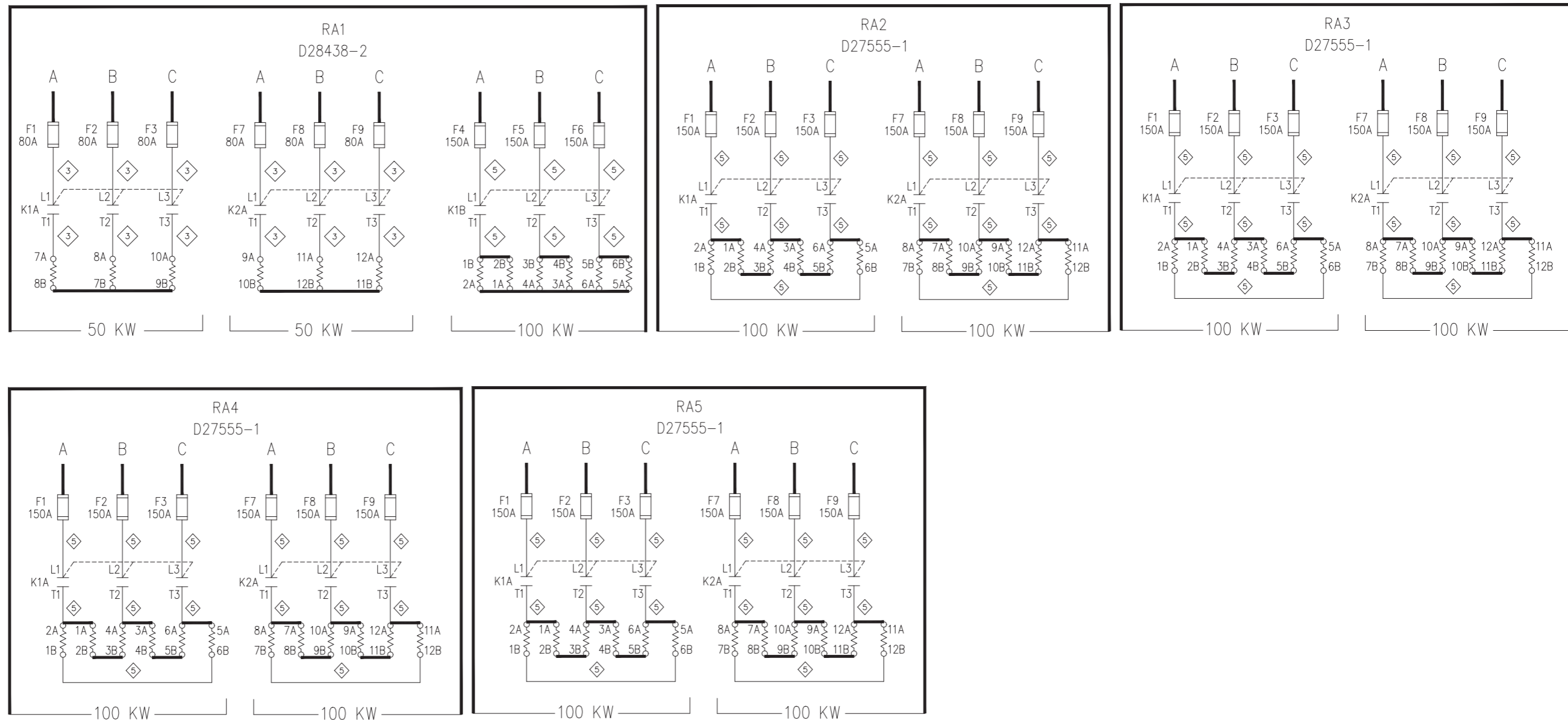
D	LA2903	AVC	GG	7/28/17
C	CC681	JAF	KAK	5/17/01
A	CB213	JAF	KAK	7/30/99

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
SCHEMATIC DIAGRAM, LOAD BANK (1000KW, 480V)						
DRAWN BY JAF 5/3/99	CHECKED JJF 5/7/99	PROJECT APPROVAL KAK 5/8/99	FINAL APPROVAL CB 5/10/99	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING SCALE 1:1 SIZE DS
PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		
D29813		DRAWING REV. E		ECN NO. LA3394		SHEET 2 OF 3

LOAD BANK 4810/D29440-4

STACK #1

MAIN LOAD BUS INPUT
1000 KW, 480 V
3 PH, 60 HZ,
1202 AMP/PHASE



SEE SHEET 1 FOR WIRE CODE

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
SCHEMATIC DIAGRAM, LOAD BANK (1000KW, 480V)						THIRD ANGLE PROJECTION
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055		ASSEM. REF. NO.		COMPUTER GENERATED DRAWING
DRAWN BY	JAF	5/3/99			SCALE	1:1 SIZE DS
CHECKED	JJF	5/7/99	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO.	D29813
PROJECT APPROVAL	KAK	5/8/99			REV.	E
FINAL APPROVAL	CB	5/10/99	ASCO POWER TECHNOLOGIES, LP. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		ECN NO.	LA3394
						SHEET 3 OF 3

8 7 6 5 4 3 2 1

D

D

C

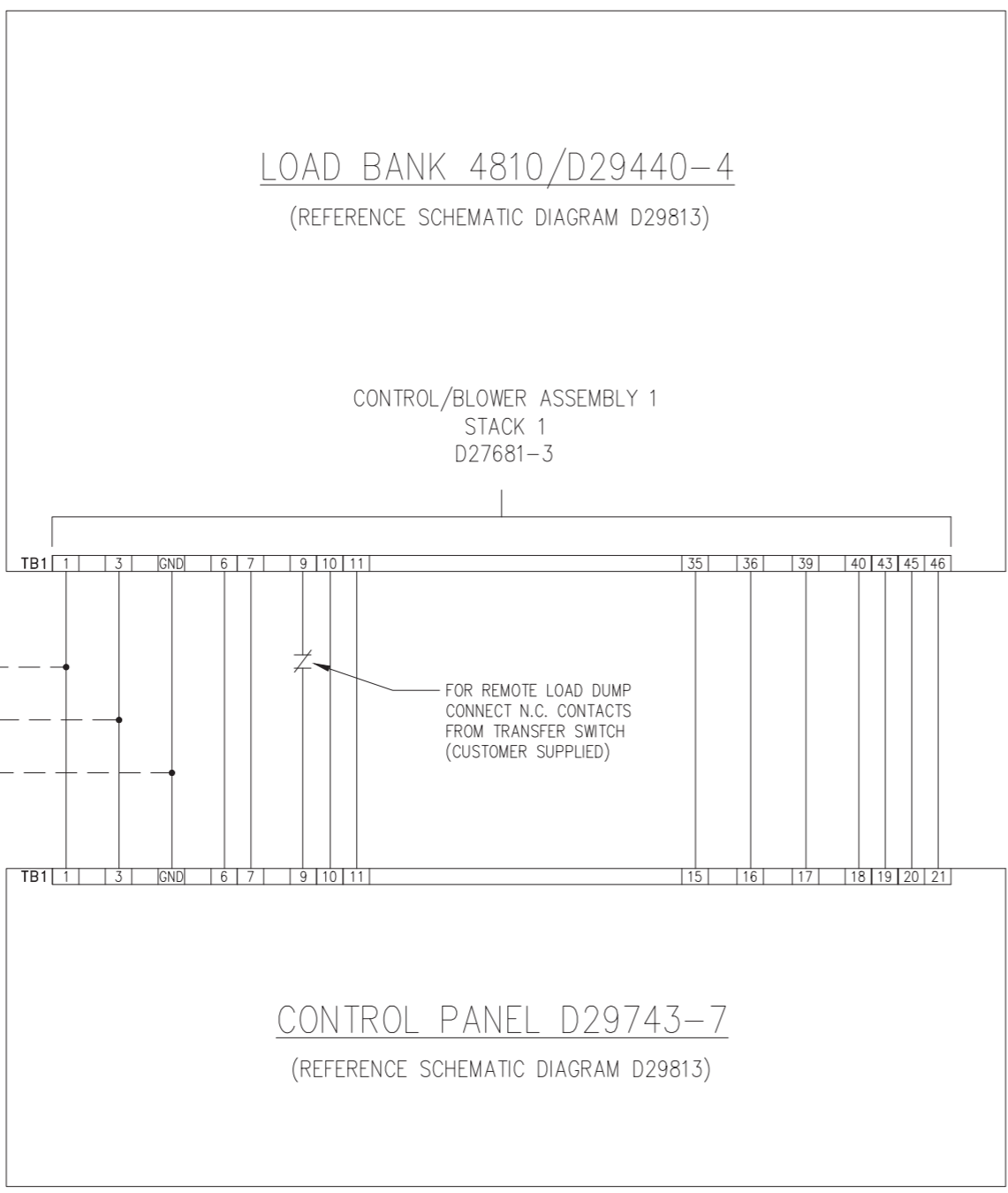
C

B

B

A

A



120 VAC, 60 HZ
1 PH, 20 AMP
SEE NOTE 1

FOR REMOTE LOAD DUMP
CONNECT N.C. CONTACTS
FROM TRANSFER SWITCH
(CUSTOMER SUPPLIED)

2. THIS DRAWING SHOWS ONLY THE CUSTOMER INTERCONNECTION WIRING BETWEEN THE LOAD BANK AND THE CONTROL PANEL. ADDITIONAL CUSTOMER INTERCONNECTION WIRING MAY BE REQUIRED IF METERING OR OTHER OPTIONAL EQUIPMENT IS PROVIDED.
1. 120 VAC CONTROL POWER IS REQUIRED IF THE CONTROL TRANSFORMER OPTION IS NOT USED.

D	LA3394	SJ	GG	8/16/18
C	LA2903	AVC	GG	7/28/17
B	CC927	JAF	DK	1/31/02
A	CB281	DT	KAK	9/1/99

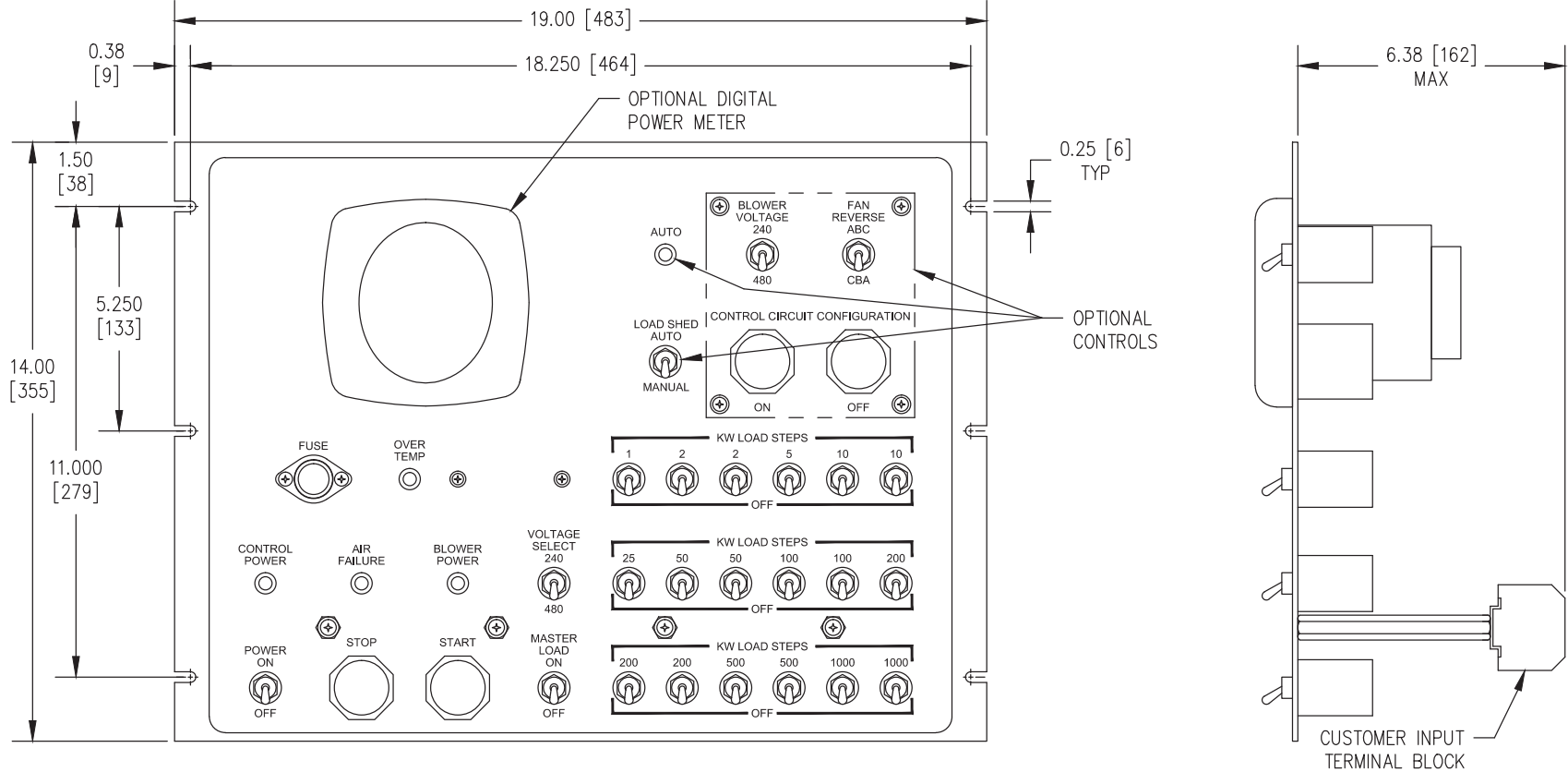
PROJECT NAME: _____

INTERCONNECTION DIAGRAM,
LOAD BANK, CONTROL PANEL

BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
DRAWN BY	JAF	5/3/99		SCALE 1:1 SIZE DS
CHECKED	JJF	5/8/99		DWG. NO. D29814
PROJECT APPROVAL	KAK	5/8/99		DRAWING REV. D ECN NO. LA3394 SHEET 1 OF 1
FINAL APPROVAL	CB	5/10/99		

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

8 7 6 5 4 3 2 1



2. ALL DIMENSIONS ARE APPROX. IN STANDARD & [METRIC]
 1. WEIGHT: 15 LBS [6.8 KGS]

FOR APPLICATION ENGINEERING USAGE ONLY

PROJECT NAME:

CONTROL PANEL (OUTLINE)

B	LA2191	JRF	JPH	9/16/15
REVISED TITLEBLOCK				
A	CE414	JAF	PPP	4/13/06
REVISED PER ECN				
REV. TO SHEET	ECN NO.	BY	APP.	DATE



DRAWN BY	JJF	DATE	6/23/99	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING					
CHECKED	JJF	DATE	6/24/99	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	2.6666	SIZE	BS		
PROJECT APPROVAL	DK	DATE	6/24/99			DWG. NO. SB2950					
FINAL APPROVAL				ASCO ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV.	B	ECN NO.	LA2191	SHEET	1 OF 1

D

C

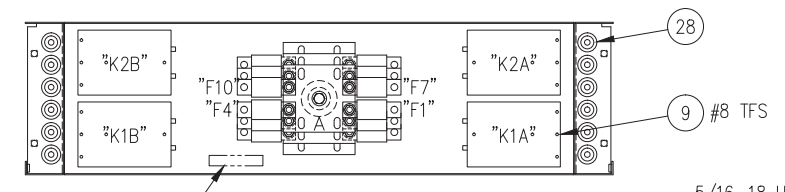
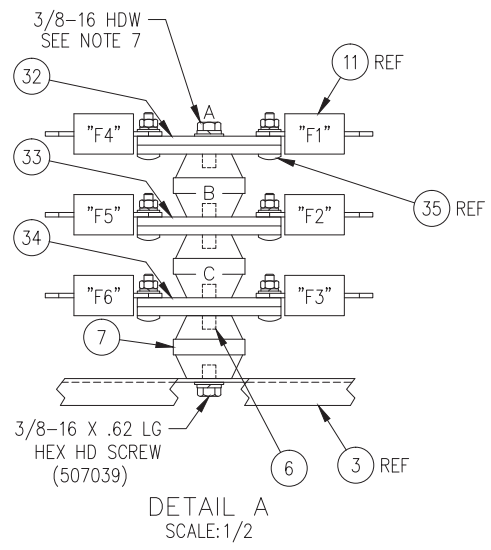
B

A

200 KW @ 240/480 V LOAD STEPS: 100,100			200 KW @ 480 V LOAD STEPS: 100,100			200 KW @ 240/480 V LOAD STEPS: 100,100			200 KW @ 240/480 V LOAD STEPS: 100,100			200 KW @ 480 V LOAD STEPS: 100,100			ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL
	1	1031256		1	1031253		1	1031256		1	1031256		1	1031253	38			WIRE SET	
		NR		2	B26529			NR			NR		2	B26529	37			PLATE, SEAL	SEE NOTE 4
	4	A25691		4	A25691		4	A25691		4	A25691		4	A25691	36			CABLE SUPPORT	
	12	508283		6	508284		12	508283		12	508284		6	508283	35			CARRIAGE BOLT, 5/16-18	
C	1	1123448	C	2	B25881	C	1	B25881	C	2	B25881	C	1	B25881	34			BUS BAR	
B	1	1123446	B	2	B25880	B	1	B25880	B	2	B25880	B	1	B25880	33			BUS BAR	
A	1	1123445	A	2	B25879	A	1	B25879	A	2	B25879	A	1	B25879	32			BUS BAR	
															31			WIRE, ELECTRICAL, 2 AWG	
	48	516110		48	516110		48	516110		48	516110		48	516110	30			JAM NUT (SST)	
	24	532582		24	532582		24	532582		24	532582		24	532582	29			WASHER, LOCK, 3/8 (SST)	
	12	A24612		6	A24612		12	A24612		12	A24612		6	A24612	28			GROMMET/WIRE SEAL (.33 I.D.)	
	72	532772		72	532772		72	532772		72	532772		72	532772	27			WASHER, FLAT, 3/8 (SST) .040 THK	
															26				
															25				
	48	411147		48	411147		48	411147		48	411147		48	411147	24			INSULATOR	
	24	411146		24	411146		24	411146		24	411146		24	411146	23			INSULATOR	
	24	411188		24	411188		24	411188		24	411188		24	411188	22			INSULATOR (.50 LG)	
	156	411187		156	411187		156	411187		156	411187		156	411187	21			INSULATOR (2.00 LG)	
	24	461156		24	461156		24	461156		24	461156		24	461156	20			PIN, SPRING CLIP	
	24	473042		24	473042		24	473042		24	473042		24	473042	19			SPRING, COMPRESSION	
	24	530075		24	530075		24	530075		24	530075		24	530075	18			WASHER, FLAT, 5/16 (SST)	
	24	A21179		24	A21179		24	A21179		24	A21179		24	A21179	17			SUPPORT ROD BUSHING	
	12	A23968		12	A23968		12	A23968		12	A23968		12	A23968	16			ROD, ELEMENT SUPPORT	
	1	D27513-2		1	D27513-2		1	D27513-2		1	D27513-2		1	D27513-2	15			TERMINAL PANEL	
	12	A23914		12	A23914		12	A23914		12	A23914		12	A23914	14			RESISTANCE ELEMENT, 100 KW	
															13				
															12				
	F1-F12	324463		F1-F3,7-9	324463		F1-F12	324463		F1-F12	324463		F1-F3,7-9	324463	11			FUSE, 150A	
															10				
K1A&B,K2A&B	4	351885	K1A,K2A	2	351885	K1A&B,K2A&B	4	351885	K1A&B,K2A&B	4	351885	K1A,K2A	2	351885	9			RELAY	
	16	540212		16	540212		16	540212		16	540212		16	540212	8			RIVET	
	3	450217		3	450217		3	450217		3	450217		3	450217	7			INSULATOR, STANDOFF	
	2	660221-2		2	660221-3		2	660221-2		2	660221-3		2	660221-2	6			STUD, THD, 3/8-16	
	4	A23989-2		4	A23989-2		4	A23989-2		4	A23989-2		4	A23989-2	5			BUS LINK	
	6	A23989-1		6	A23989-1		6	A23989-1		6	A23989-1		6	A23989-1	4			BUS LINK	
	1	C23647		1	C23647		1	C23647		1	C23647		1	C23647	3			RELAY PANEL, MACH	
	2	C23649		2	C23649		2	C23649		2	C23649		2	C23649	2			END PANEL	
	1	D27513-1		1	D27513-1		1	D27513-1		1	D27513-1		1	D27513-1	1			TERMINAL PANEL	
REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL
		D27555-5			D27555-4			D27555-3			D27555-2			D27555-1				LIST OF MATERIAL	

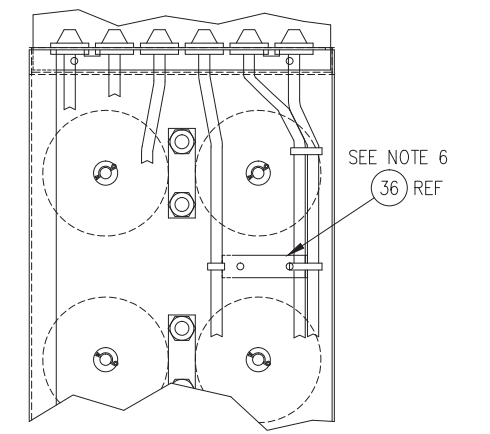
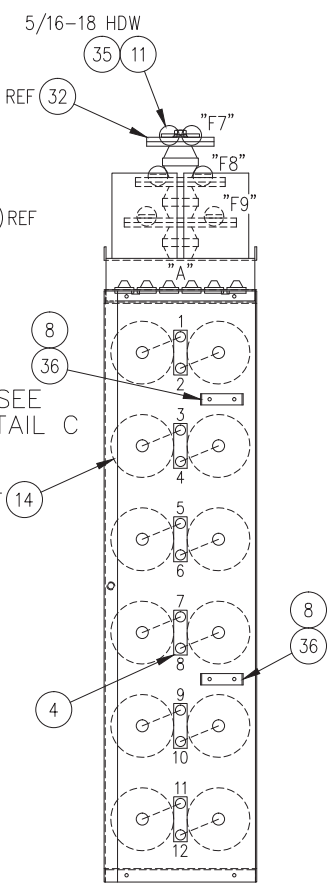
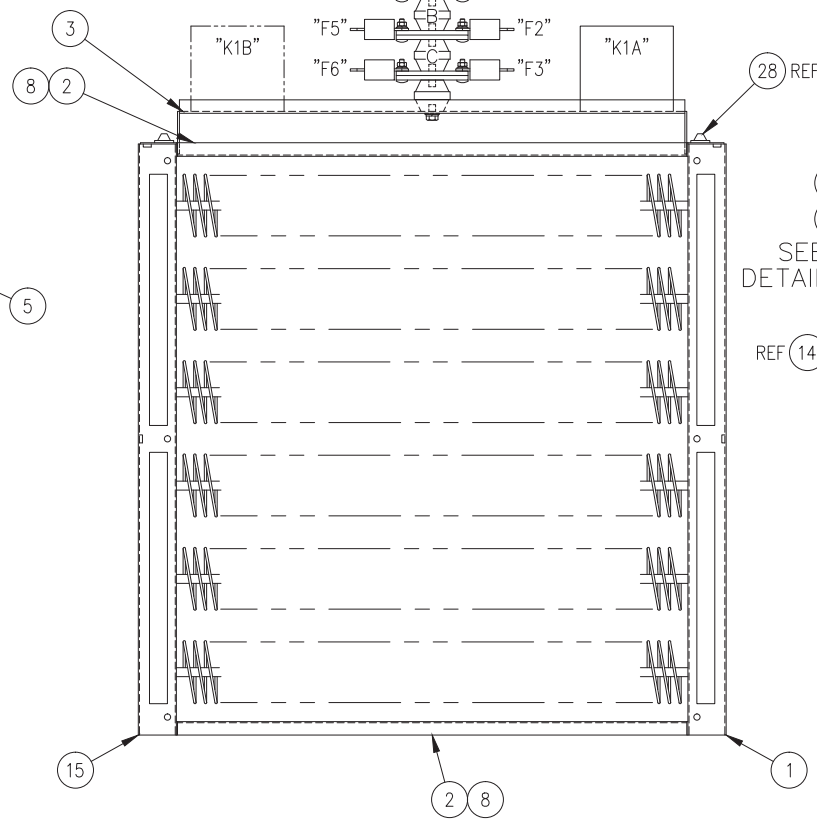
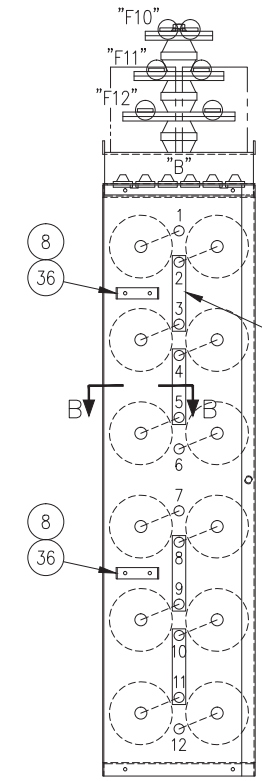
REV. TO SHEET	ECN NO.	BY	APP.	DATE
PROJECT NAME:				
RESISTOR ASSEMBLY				
THIRD ANGLE PROJECTION				
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005		ASSEM. REF. NO.
DRAWN BY	JJF 7/17/97			
CHECKED	JJF 8/13/14	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 3/16" = 1" SIZE DS
PROJECT APPROVAL	DK 8/13/97			DWG. NO. D27555
FINAL APPROVAL	GW 8/19/97			DRWING AF ECN LA2869 SHEET 1 OF 3
ASCO ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.				

SEE SHEET 2 FOR NOTES AND SHEET 3 FOR SCHEMATIC UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY

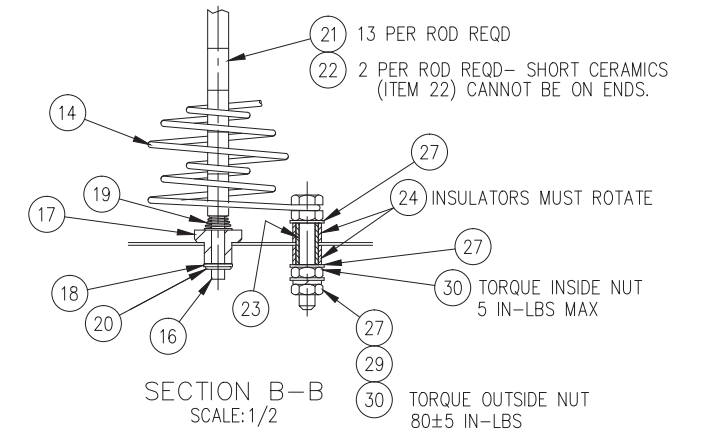


PART MARK .12 HIGH MIN ON THIS SIDE. WHEN A D27555-3 CASE IS USED, ALTER THE ORIGINAL PART MARK TO SUIT.

SEE DETAIL A



DETAIL C
SCALE: 1/2

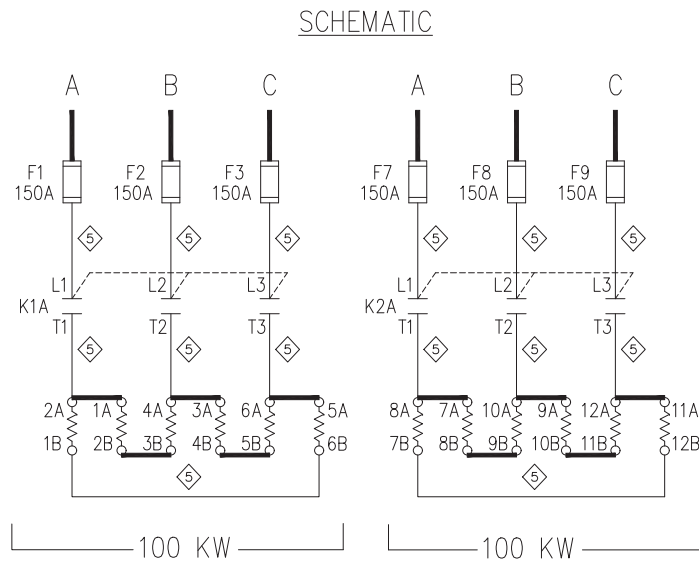


SECTION B-B
SCALE: 1/2

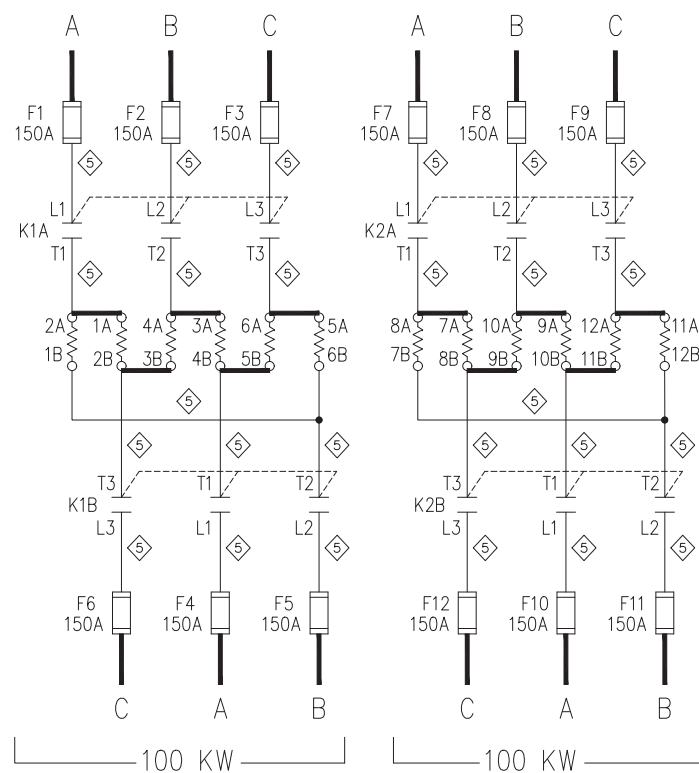
8. ADD A 1/4" BEAD OF SEALANT (910006) BETWEEN TERMINAL PANELS AND END PANEL BEFORE RIVETING. CONTACTOR SIDE ONLY.
7. ON D27555-1, D27555-3 AND D27555-5 CASES, USE SINGLE BUS BARS (ITEMS 32,33 & 34) WITH .75" LG HDW (507040). ON D27555-2 AND D27555-4 CASES, USE DOUBLE BUS BARS WITH 1.00" LG HDW (507042) ON TOP.
6. ROUTE LOAD WIRING APPROX AS SHOWN IN DETAIL C. SECURE TO ITEM 36 USING CABLE TIES.
- 5.
4. ADD SEAL PLATES (ITEM 37) ON OPEN GROMMET HOLES. USE TWO PLATES PER LOCATION, ONE IN FRONT AND ONE IN BACK OF WIRING HOLES.
3. LOAD WIRING CANNOT TOUCH TERMINATION SIDE OF ITEMS 1 OR 15. ALSO, WIRING CANNOT TOUCH SUPPORT RODS (ITEM 16) OR OTHER TERMINATION HARDWARE.
2. SEE SHEET 3 FOR SCHEMATIC/WIRE LIST.
1. MARK REFERENCE DESIGNATORS .12 HIGH MINIMUM USING PRODUCTION DECALS, PERMANENT MARKER AND OR INK STAMPING. REFERENCE DESIGNATORS SHALL BE LOCATED DESIGNATORS ADJACENT TO COMPONENTS SO THAT THEY REMAIN VISIBLE AFTER WIRING.

UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE																									
RESISTOR ASSEMBLY		<table border="1"> <tr> <td>AF</td> <td>LA2869</td> <td>RGR</td> <td>DK</td> <td>5/16/17</td> </tr> <tr> <td>P</td> <td>CC782</td> <td>JAF</td> <td>JWE</td> <td>8/23/01</td> </tr> <tr> <td>N</td> <td>CC517</td> <td>JWF</td> <td>JWE</td> <td>1/31/01</td> </tr> <tr> <td>J</td> <td>CC180</td> <td>JWF</td> <td>DK</td> <td>5/26/00</td> </tr> </table>					AF	LA2869	RGR	DK	5/16/17	P	CC782	JAF	JWE	8/23/01	N	CC517	JWF	JWE	1/31/01	J	CC180	JWF	DK	5/26/00					
AF	LA2869	RGR	DK	5/16/17																											
P	CC782	JAF	JWE	8/23/01																											
N	CC517	JWF	JWE	1/31/01																											
J	CC180	JWF	DK	5/26/00																											
<table border="1"> <tr> <th>BY</th> <th>DATE</th> <th>MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.</th> <th>ASSEM. REF. NO.</th> <th>COMPUTER GENERATED DRAWING</th> </tr> <tr> <td>JWF</td> <td>7/17/97</td> <td></td> <td></td> <td>SCALE 3/16" = 1" SIZE DS</td> </tr> <tr> <td>JWF</td> <td>8/13/14</td> <td>PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.</td> <td></td> <td>DWG. NO. D27555</td> </tr> <tr> <td>DK</td> <td>8/13/97</td> <td></td> <td></td> <td>DRAWING AF ECN LA2869</td> </tr> <tr> <td>GW</td> <td>8/19/97</td> <td></td> <td></td> <td>SHEET 2 OF 3</td> </tr> </table>		BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING	JWF	7/17/97			SCALE 3/16" = 1" SIZE DS	JWF	8/13/14	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO. D27555	DK	8/13/97			DRAWING AF ECN LA2869	GW	8/19/97			SHEET 2 OF 3	<p>THIRD ANGLE PROJECTION</p> <p>ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.</p>				
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING																											
JWF	7/17/97			SCALE 3/16" = 1" SIZE DS																											
JWF	8/13/14	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO. D27555																											
DK	8/13/97			DRAWING AF ECN LA2869																											
GW	8/19/97			SHEET 2 OF 3																											



D27555-1 & D27555-4



D27555-2, D27555-3 & D27555-5

WIRE LIST

REF NO.	WIRE PART NO.	GAGE	COLOR	WIRE LENGTH	START STRIP LENGTH	END STRIP LENGTH	START LUG	FINISH LUG	START LOCATION	FINISH LOCATION
1	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F1	K1A(L1)
2	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F2	K1A(L2)
3	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F3	K1A(L3)
4	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F7	K2A(L1)
5	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F8	K2A(L2)
6	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F9	K2A(L3)
7	991330-002	2	BLACK	11.0	.50	.50	366039	366041	K1A(T1)	2A
8	991330-003	2	BLACK	16.0	.50	.50	366039	366041	K1A(T2)	4A
9	991330-006	2	BLACK	22.0	.50	.50	366039	366041	K1A(T3)	6A
10	991330-007	2	BLACK	26.5	.50	.50	366039	366041	K2A(T1)	8A
11	991330-008	2	BLACK	32.0	.50	.50	366039	366041	K2A(T2)	10A
12	991330-009	2	BLACK	38.0	.50	.50	366039	366041	K2A(T3)	12A
13	991330-004	2	BLACK	18.5	.50	.50	366041	366041	1B	6B
14	991330-004	2	BLACK	18.5	.50	.50	366041	366041	7B	12B
15	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F6	K1B(L3)
16	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F4	K1B(L1)
17	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F5	K1B(L2)
18	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F12	K2B(L3)
19	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F10	K2B(L1)
20	991330-001	2	BLACK	6.5	.50	.50	366040	366039	F11	K2B(L2)
21	991330-003	2	BLACK	16.0	.50	.50	366039	366041	K1B(T3)	2B
22	991330-006	2	BLACK	22.0	.50	.50	366039	366041	K1B(T1)	4B
23	991330-002	2	BLACK	11.0	.50	.50	366039	366041	K1B(T2)	1B
24	991330-008	2	BLACK	32.0	.50	.50	366039	366041	K2B(T3)	8B
25	991330-009	2	BLACK	38.0	.50	.50	366039	366041	K2B(T1)	10B
26	991330-007	2	BLACK	26.5	.50	.50	366039	366041	K2B(T2)	7B

WIRE LIST
D27555-1,
D27555-4

WIRE LIST
D27555-2,
D27555-3
& D27555-5

AF	LA2869	RGR	DK	5/16/17
ADD	-5			
AE	LA1696	DGT	JPH	8/14/14
REVISED	WIRE LIST PER ECN			
AD	LA1666	DGT	JPH	7/21/14
REVISED	PER ECN			
AC	LA0412	RGR	CMK	9/3/10
REVISE	WIRE LENGTHS PER ECN			
AA	LA0053	JJF	DK	10/30/09
ADDED	NOTE TO WIRE LIST			
Y	CF772	RGR	DK	6/4/09
REVISED	WIRE LENGTH PER ECN			
T	AN103	RAF	JP	3/4/04
REVISED	WIRE LIST PER ECN			
K	CC312	JAF	RM	9/7/00
REVISED	WIRE LIST PER ECN			
J	CC180	JJF	DK	5/26/00
REVISED	PER ECN			
H	CC056	JJF	JWE	2/10/00
ADDED	WIRE LIST			
E	CB067	JAF	DK	3/15/99
ADDED	WIRE CODE			
B	CA739	JJF	JWE	8/4/98
REVISED	PER ECN			

PROJECT NAME: RESISTOR ASSEMBLY

REV. TO SHEET: _____ ECN NO.: _____ BY: _____ APP.: _____ DATE: _____

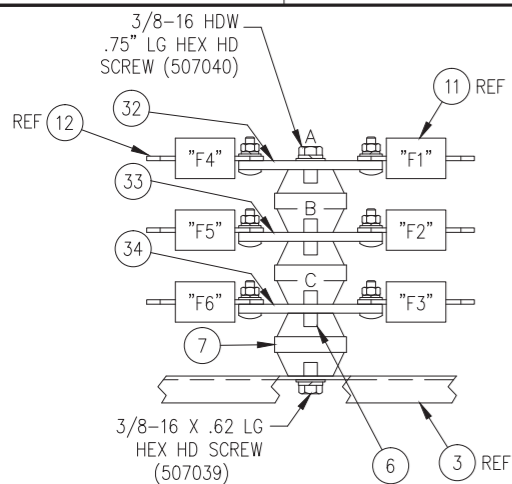
THIRD ANGLE PROJECTION

DRAWN BY	JJF	DATE	7/17/97	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
CHECKED	JJF	8/13/14		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE: 1:1 SIZE: DS
PROJECT APPROVAL	DK	8/13/97				DWG. NO. D27555
FINAL APPROVAL	GW	8/19/97				DRAWING ECN: LA2869 SHEET 3 OF 3

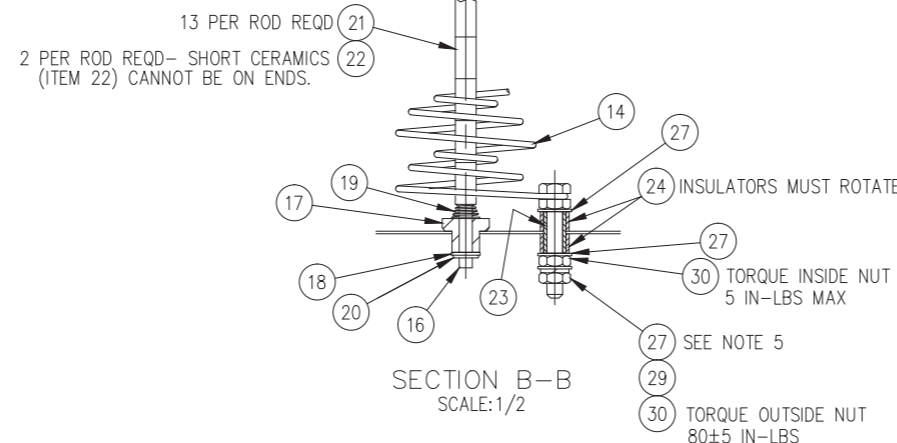
ASCO ASCO POWER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.

1. WIRE CODE:
⊠ - INDICATES WIRE TO BE BLACK #2 AWG (PN 390325).

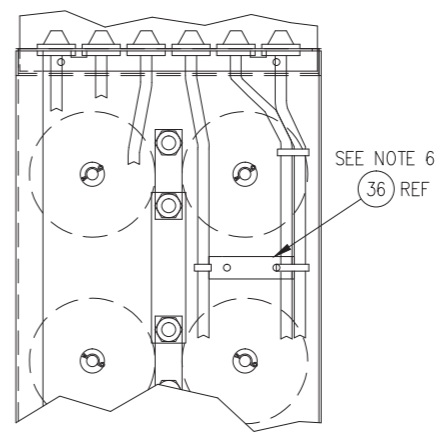
UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY



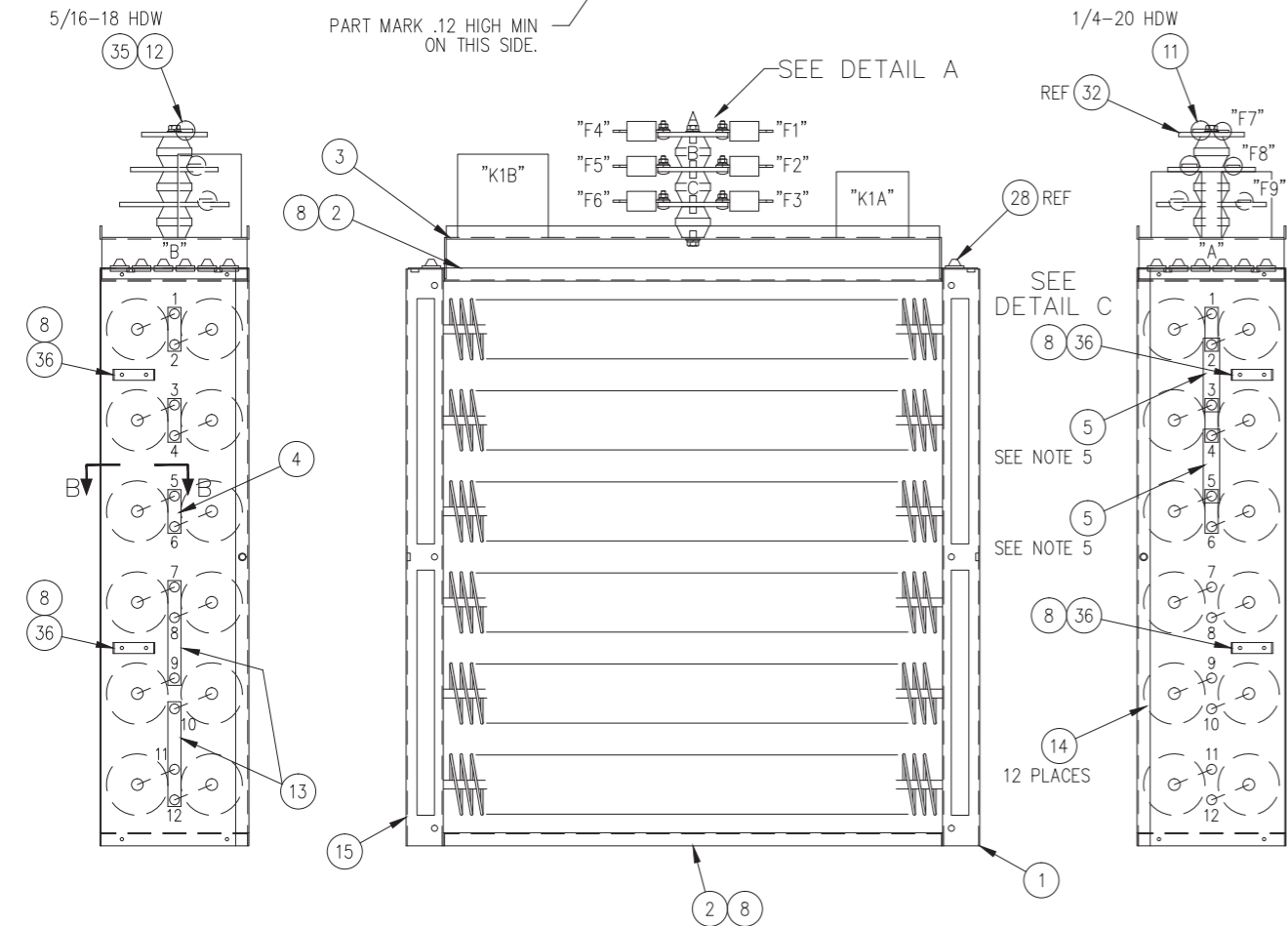
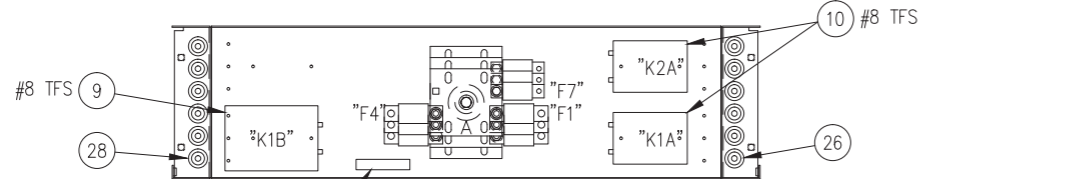
DETAIL A
SCALE:1/2



SECTION B-B
SCALE:1/2



DETAIL C
SCALE:1/2



200 KW @ 480 V LOAD STEPS: 50,50,100			200 KW @ 575 V LOAD STEPS: 50,50,100								
REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL	
						39	←	←	WIRE, ELECTRICAL, 2 AWG		
						38	←	←	WIRE, ELECTRICAL, 6 AWG		
						37	←	←	WASHER, LOCK, INTERNAL TOOTH	SEE NOTE 5	
						36	←	←	CABLE SUPPORT		
						35	←	←	CARRIAGE BOLT, 5/16-18		
						34	←	←	BUS BAR		
						33	←	←	BUS BAR		
						32	←	←	BUS BAR		
						31	←	←	SILASTIC	SEE NOTE 7	
						30	←	←	JAM NUT (SST)		
						29	←	←	WASHER, LOCK, 3/8 (SST)		
						28	←	←	GROMMET/WIRE SEAL (.33 I.D.)		
						27	←	←	WASHER, FLAT, 3/8 (SST) .040 THK		
						26	←	←	GROMMET, WIRE SEAL, (.25 I.D.)		
						25	←	←			
						24	←	←	INSULATOR		
						23	←	←	INSULATOR		
						22	←	←	INSULATOR (.50 LG)		
						21	←	←	INSULATOR (2.00 LG)		
						20	←	←	PIN, SPRING CLIP		
						19	←	←	SPRING, COMPRESSION		
						18	←	←	WASHER, FLAT, 5/16 (SST)		
						17	←	←	SUPPORT ROD BUSHING		
						16	←	←	ROD, ELEMENT SUPPORT		
						15	←	←	TERMINAL PANEL		
						14	←	←	RESISTANCE ELEMENT		
						13	←	←	BUS LINK		
						12	←	←	FUSE		
						11	←	←	FUSE		
						10	←	←	RELAY		
						9	←	←	RELAY		
						8	←	←	RIVET		
						7	←	←	INSULATOR, STANDOFF		
						6	←	←	STUD, THD, 3/8-16		
						5	←	←	BUS LINK		
						4	←	←	BUS LINK		
						3	←	←	RELAY PANEL, MACH		
						2	←	←	END PANEL		
						1	←	←	TERMINAL PANEL		

- MARK REFERENCE DESIGNATORS .12 HIGH MINIMUM USING PRODUCTION DECALS, PERMANENT MARKER AND OR INK STAMPING. REFERENCE DESIGNATORS SHALL BE LOCATED ADJACENT TO COMPONENTS SO THAT THEY REMAIN VISIBLE AFTER WIRING.
- SEE SHEET 2 FOR SCHEMATIC/WIRE LIST.
- LOAD WIRING CANNOT TOUCH TERMINATION SIDE OF ITEMS 1 OR 15. ALSO, WIRING CANNOT TOUCH SUPPORT RODS (ITEM 16) OR OTHER TERMINATION HARDWARE.
- APPLY SEALANT (ITEM 31) TO UNUSED GROMMETS TO SEAL AIR GAP TO HEATER CASE TERMINATION AREA.

- ADD A 1/4" BEAD OF SEALANT (910006) BETWEEN TERMINAL PANELS AND END PANEL BEFORE RIVETING. CONTACTOR SIDE ONLY.
- ROUTE LOAD WIRING APPROX AS SHOWN IN DETAIL C. SECURE TO ITEM 36 USING CABLE TIES.
- ONLY AT CONNECTIONS WHERE BUS LINKS (ITEMS 4 & 5) LAP, REPLACE CONVENTIONAL FLAT & LOCK WASHERS (ITEMS 27 & 29) WITH TOOTH WASHER (ITEM 37).

LA2191 JRF JPH 9/14/15
REVISED TITLEBLOCK

LA0308 JAF JWE 6/14/10
ADDED NOTE 7

CE828 RGR DK 6/21/07
ITEM 7 WAS 450216 ON -1 & -2

CC800 JZ JWE 9/14/01
ITEM 27 WAS 530076 ON -1 & -2

REV. TO SHEET ECN NO. BY APP. DATE

PROJECT NAME: _____

RESISTOR ASSEMBLY

THIRD ANGLE PROJECTION

BY DATE MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055. ASSEM. REF. NO. COMPUTER GENERATED DRAWING

DRAWN BY JJF 4/4/98

CHECKED JJF 4/7/98

PROJECT APPROVAL DK 4/7/98

FINAL APPROVAL GW 4/8/98

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SCALE: 3/16" = 1" SIZE DS

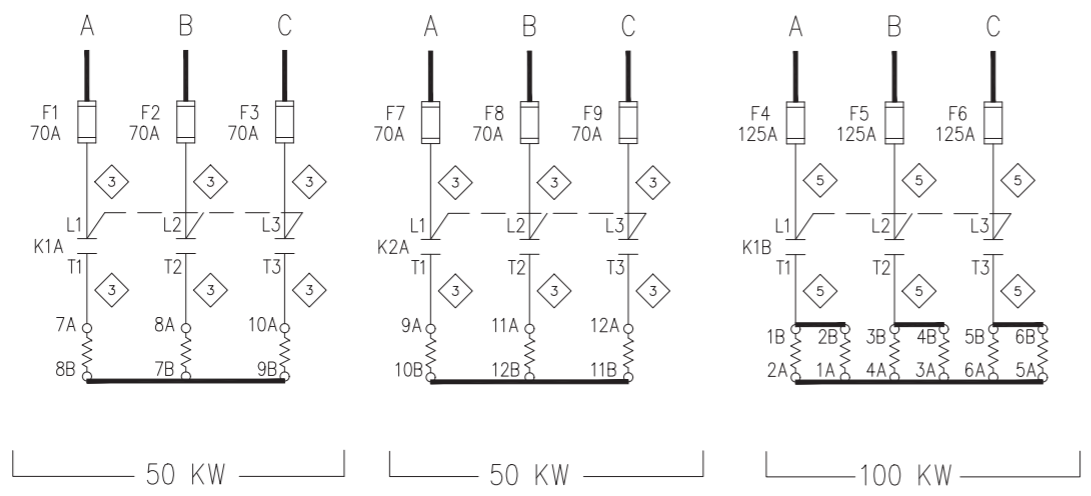
DWG. NO. D28438

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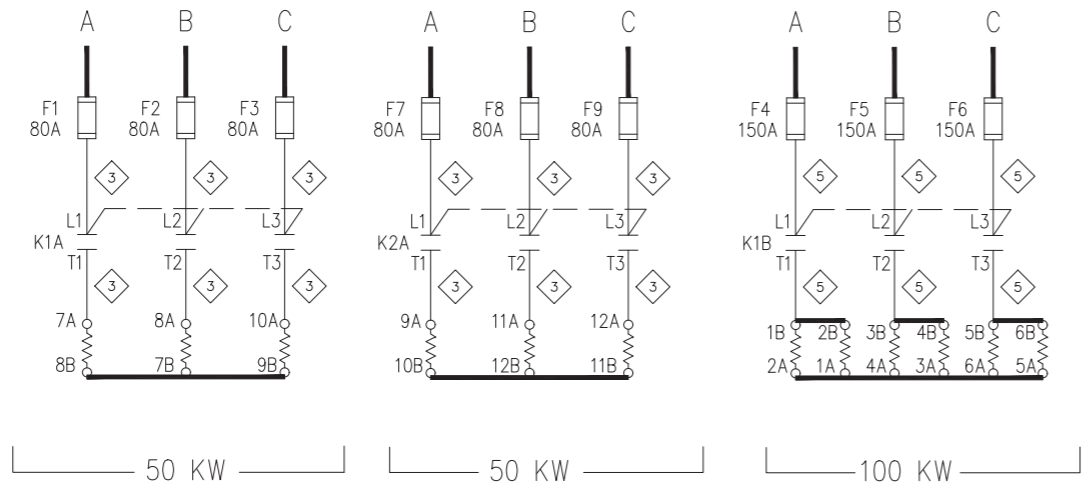
DRAWING V ECN NO. LA2191 SHEET 1 OF 2

◇3 INDICATES WIRE TO BE BLACK #6 AWG (PN 390323)
 ◇5 INDICATES WIRE TO BE BLACK #2 AWG (PN 390325)

SCHEMATIC



D28438-1



D28438-2

WIRE LIST

REF NO.	WIRE PART NO.	GAGE	COLOR	WIRE LENGTH	START STRIP LENGTH	END STRIP LENGTH	START LUG	FINISH LUG	START LOCATION	FINISH LOCATION
1	390323	6	BLK	6.5	.44	.44	366028	366028	F1	K1A(L1)
2	390323	6	BLK	6.5	.44	.44	366028	366028	F2	K1A(L2)
3	390323	6	BLK	6.5	.44	.44	366028	366028	F3	K1A(L3)
4	390323	6	BLK	6.5	.44	.44	366028	366028	F7	K2A(L1)
5	390323	6	BLK	6.5	.44	.44	366028	366028	F8	K2A(L2)
6	390323	6	BLK	6.5	.44	.44	366028	366028	F9	K2A(L3)
7	390323	6	BLK	27.5	.44	.44	366028	366030	K1A(T1)	7A
8	390323	6	BLK	31.0	.44	.44	366028	366030	K1A(T2)	8A
9	390323	6	BLK	34.0	.44	.44	366028	366030	K1A(T3)	10A
10	390323	6	BLK	32.0	.44	.44	366028	366030	K2A(T1)	9A
11	390323	6	BLK	37.0	.44	.44	366028	366030	K2A(T2)	11A
12	390323	6	BLK	41.0	.44	.44	366028	366030	K2A(T3)	12A
13	390325	2	BLK	6.5	.50	.50	366040	366039	F4	K1B(L1)
14	390325	2	BLK	6.5	.50	.50	366040	366039	F5	K1B(L2)
15	390325	2	BLK	6.5	.50	.50	366040	366039	F6	K1B(L3)
16	390325	2	BLK	11.0	.50	.50	366039	366041	K1B(T1)	1B
17	390325	2	BLK	15.8	.50	.50	366039	366041	K1B(T2)	3B
18	390325	2	BLK	21.5	.50	.50	366039	366041	K1B(T3)	5B
19	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-

D28438 -1 & -2

V	LA2191	JRF	JPH	9/15/15
K	CC353	MJ	DK	10/16/00
H	CC176	JWE	JWE	6/1/00
B	CA739	JJF	JWE	8/4/98
A	CA647	JJF	DK	5/12/98

PROJECT NAME: _____

RESISTOR ASSEMBLY

BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
DRAWN BY	JJF	4/4/98		SCALE 1:1 SIZE DS
CHECKED	JJF	4/7/98		DWG. NO. D28438
PROJECT APPROVAL	DK	4/7/98		REV. V ECN NO. LA2191
FINAL APPROVAL	GW	4/8/98		SHEET 2 OF 2

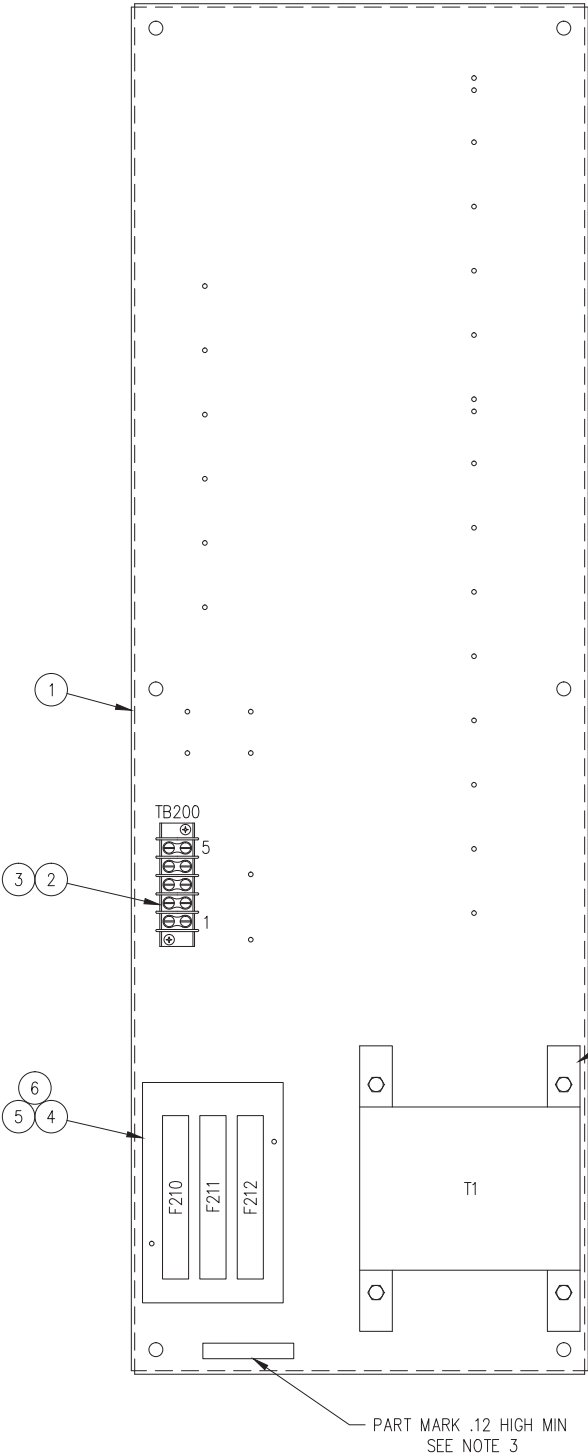
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 FLORHAM PARK, NEW JERSEY 07932 U.S.A.

D

C

B

A

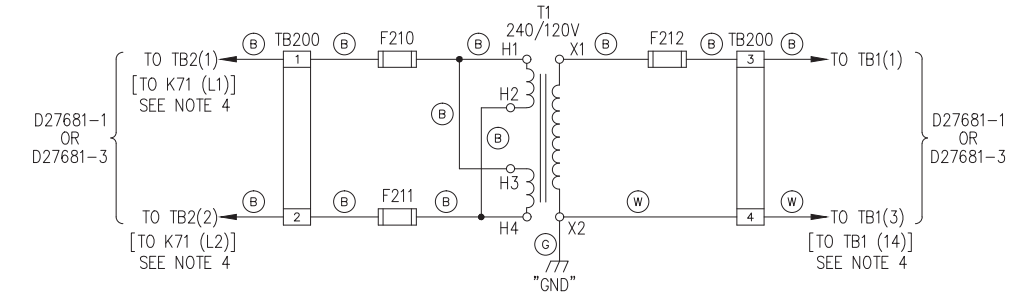


PART MARK .12 HIGH MIN
SEE NOTE 3

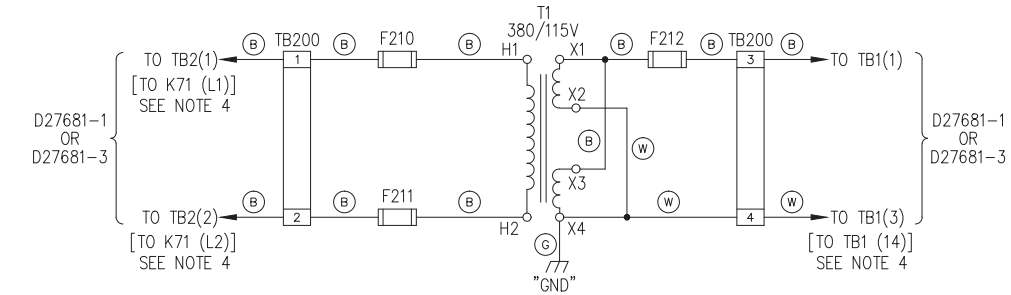
ASSEMBLY INSTRUCTIONS

- A) MOUNT THE OPTION PANEL ONTO THE RIGHT SIDE OF THE LOAD BANK OF STACK 1.
- B) INTERCONNECT OPTION PANEL FROM TB200 TO TB2 AS SHOWN ON SCHEMATIC.
- C) MARK IDENT PLATE WITH OPTION NUMBER.

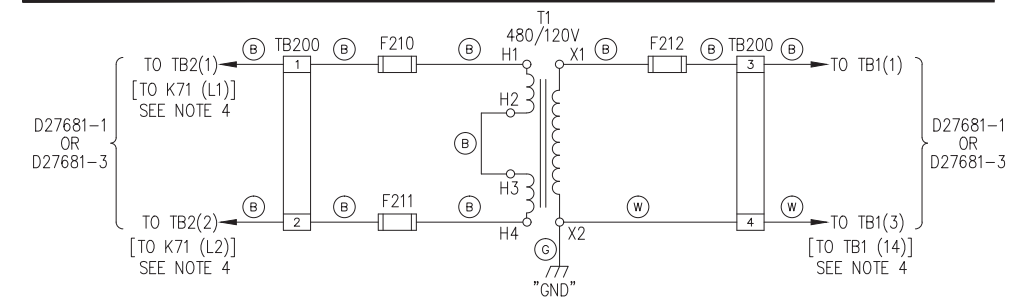
SCHEMATIC FOR
D27683-1



SCHEMATIC FOR
D27683-2 & -8



SCHEMATIC FOR
D27683-3 THRU -5



- (B) INDICATES WIRE TO BE BLACK #14 AWG (PN 390011)
- (W) INDICATES WIRE TO BE WHITE #14 AWG (PN 390011)
- (G) INDICATES WIRE TO BE GREEN #14 AWG (PN 390011)

2501 TO 3000 KW LOAD BANKS (480/120 V CONTROL TRANSFORMER OPTION 5)			2001 TO 2500 KW LOAD BANKS (480/120 V CONTROL TRANSFORMER OPTION 4)			500 TO 2000 KW LOAD BANKS (480/120 V CONTROL TRANSFORMER OPTION 3)			500 TO 2000 KW LOAD BANKS (380/110 V CONTROL TRANSFORMER OPTION 2)			500 TO 2000 KW LOAD BANKS (240/120 V CONTROL TRANSFORMER OPTION 1)		
REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.
T1	1	371085	T1	1	370258	T1	1	371148	T1	1	370940	T1	1	371148
F210,F211	2	324697	F210,F211	2	324394	F210,F211	2	324424	F210,F211	2	324394	F210,F211	2	324699
F212	1	324432	F212	1	324468	F212	1	324431	F212	1	324431	F212	1	324431
XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496
XTB200	1	450141	XTB200	1	450141	XTB200	1	450141	XTB200	1	450141	XTB200	1	450141
TB200	1	364051	TB200	1	364051	TB200	1	364051	TB200	1	364051	TB200	1	364051
	1	D27680		1	D27680		1	D27680		1	D27680		1	D27680

ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL
10	←	←		
9	←	←		
8	←	←		
7	←	←	TRANSFORMER	
6	←	←	FUSE	
5	←	←	FUSE	
4	←	←	FUSEHOLDER	
3	←	←	INSULATOR, TERMINAL BOARD	
2	←	←	TERMINAL BOARD	
1	←	←	PANEL, COMPONENT MOUNTING	

- 4. USE CONNECTIONS IN BRACKETS FOR SINGLE STACK LOAD BANKS ONLY.
- 3. INK STAMP PART No. .12 MIN HIGH & SPRAY OVER WITH CLEAR ACRYLIC LACQUER OR USE DEVICE LABEL.
- 2. USE #8-32 TFS TO MOUNT DEVICES UNLESS OTHERWISE NOTED.
- 1. MARK REFERENCE DESIGNATORS .12 HIGH MINIMUM USING PRODUCTION DECALS AND OR INK STAMPING. SPRAY OVER INK STAMPING WITH CLEAR ACRYLIC LACQUER. REFERENCE DESIGNATORS SHALL BE LOCATED ADJACENT TO COMPONENTS SO THAT THEY REMAIN VISIBLE AFTER WIRING.

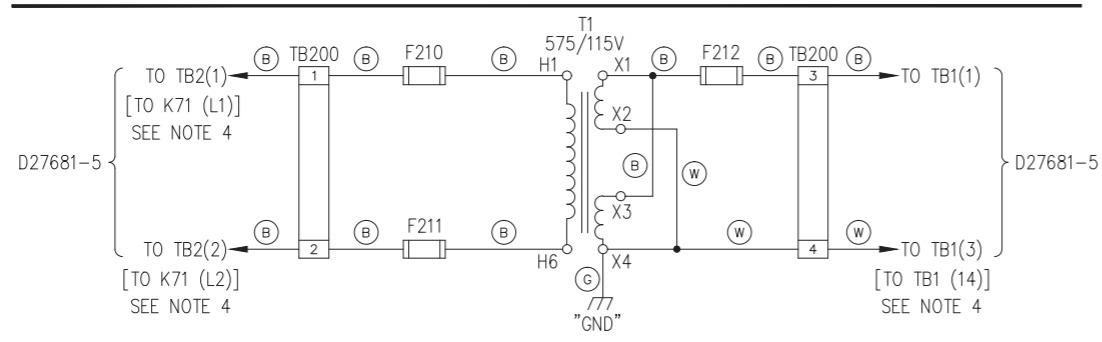
PROJECT NAME: _____

CONTROL TRANSFORMER OPTION

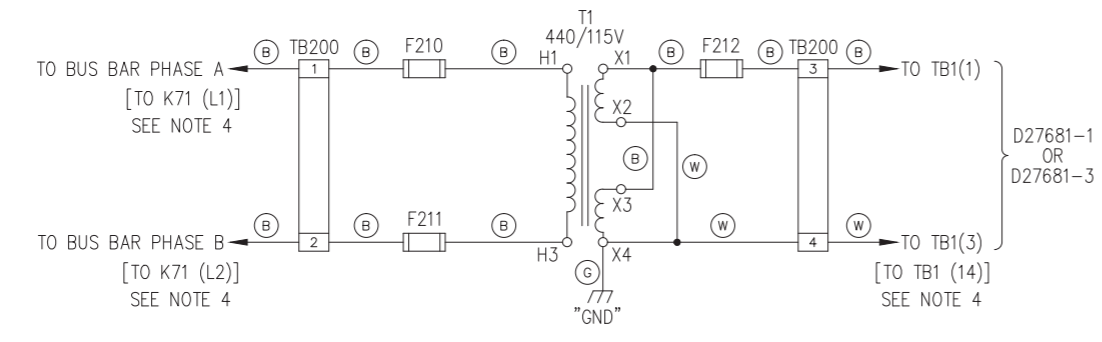
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
DRAWN BY	JJF 9/03/97			SCALE 1:1 SIZE DS
CHECKED	JJF 11/19/97	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO. D27683
PROJECT APPROVAL	DK 11/19/97			DRAWING W/REV. LA3511
FINAL APPROVAL	TP 11/26/97			SHEET 1 OF 2

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

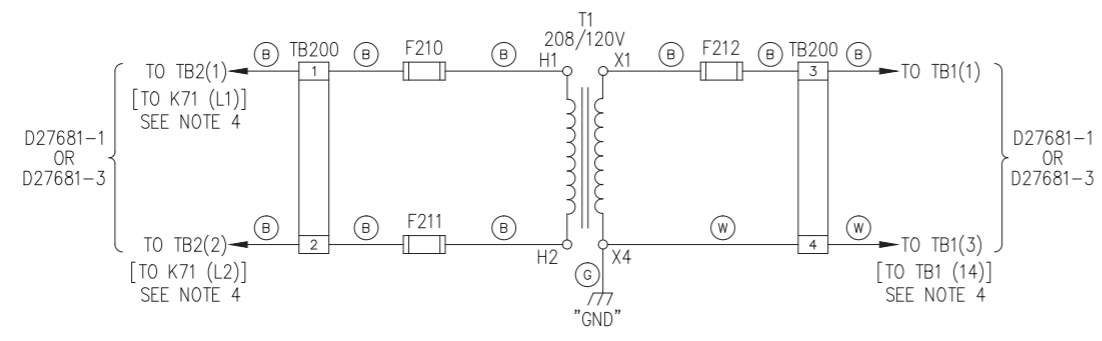
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D27683-6



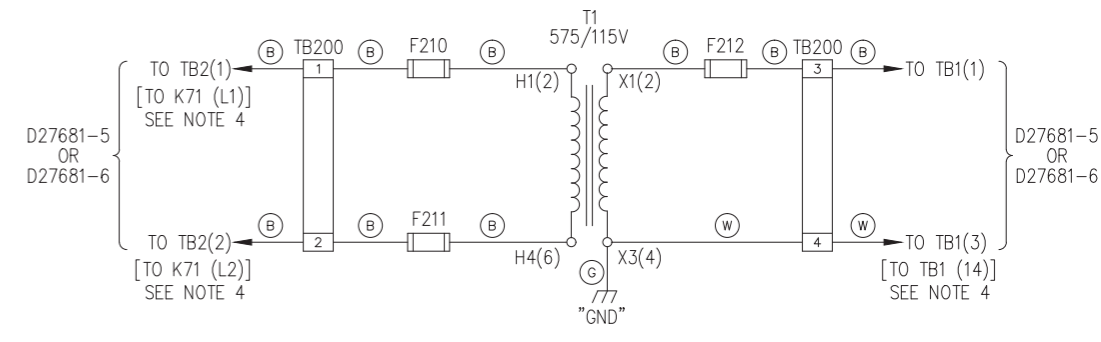
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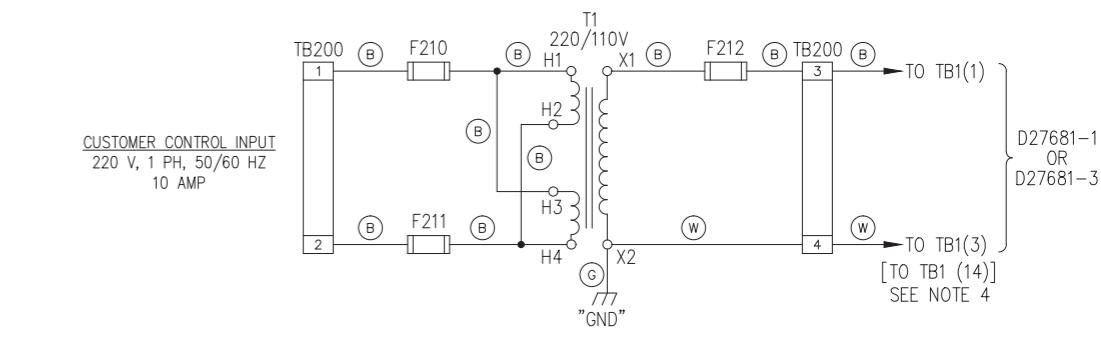
SCHEMATIC FOR
D27683-9



SCHEMATIC FOR
D27683-10



SCHEMATIC FOR
D27683-11



500 TO 2000 KW LOAD BANKS (220/110 V CONTROL TRANSFORMER OPTION 70)			500 TO 1000 KW LOAD BANKS (575/115 V CONTROL TRANSFORMER OPTION 61)			500 TO 2000 KW LOAD BANKS (208/115 V CONTROL TRANSFORMER OPTION 51)			2001 TO 2500 KW LOAD BANKS (380/115 V CONTROL TRANSFORMER OPTION 41)			500 TO 2000 KW LOAD BANKS (440/115 V CONTROL TRANSFORMER OPTION 20)			1001 TO 3000 KW LOAD BANKS (575/115 V CONTROL TRANSFORMER OPTION 6)		
REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.	REF DES	NO. REQD	PART NO.
T1	1	371148	T1	1	371088	T1	1	371319	T1	1	370824	T1	1	370940	T1	1	370294
F210,F211	2	324059	F210,F211	2	324424	F210,F211	2	324143	F210,F211	2	324697	F210,F211	2	324394	F210,F211	2	324394
F212	1	324468	F212	1	324468	F212	1	324346	F212	1	324468	F212	1	324431	F212	1	324432
XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496	XF210-212	1	324496
XTB200	1	450141	XTB200	1	450141	XTB200	1	450141	XTB200	1	450141	XTB200	1	450141	XTB200	1	450141
TB200	1	364051	TB200	1	364051	TB200	1	364051	TB200	1	364051	TB200	1	364051	TB200	1	364051
	1	D27680		1	D27680		1	D27680		1	D27680		1	D27680		1	D27680
D27683-11			D27683-10			D27683-9			D27683-8			D27683-7			D27683-6		

ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL
10	←	←		
9	←	←		
8	←	←		
7	←	←	TRANSFORMER	
6	←	←	FUSE	
5	←	←	FUSE	
4	←	←	FUSEHOLDER	
3	←	←	INSULATOR, TERMINAL BOARD	
2	←	←	TERMINAL BOARD	
1	←	←	PANEL, COMPONENT MOUNTING	

LIST OF MATERIAL

PROJECT NAME: _____

CONTROL TRANSFORMER OPTION

BY: JUF DATE: 9/23/97

CHECKED: JUF DATE: 11/19/97

PROJECT APPROVAL: DK DATE: 11/19/97

FINAL APPROVAL: TP DATE: 11/26/97

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055

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SCALE: 1:1 SIZE: DS

COMPUTER GENERATED DRAWING

DWG. NO. D27683

REV. ECN NO. LA3511 SHEET 2 OF 2

D

C

B

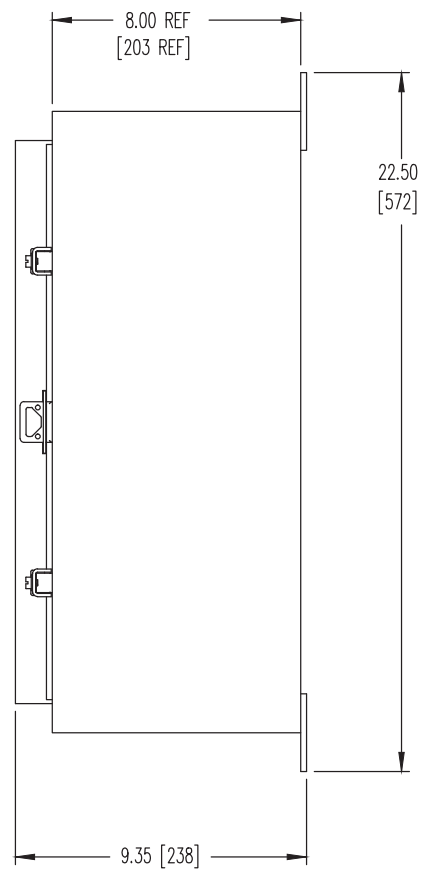
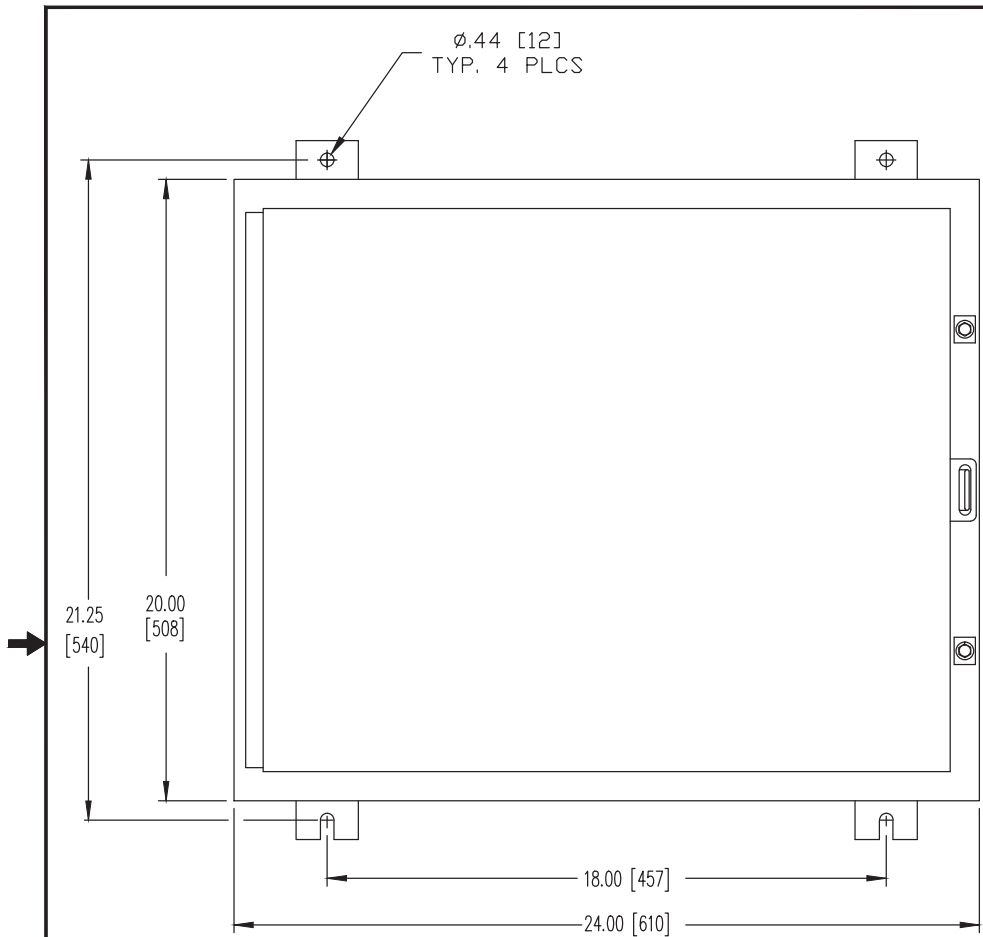
A

D

C

B

A



FOR APPLICATION ENGINEERING USAGE ONLY

- NOTES:
3. DIMENSION ARE IN INCHES [mm].
 2. ALL DIMENSIONS ARE APPROX.
 1. WEIGHT: 60 LBS [27.2 KG]

B	LA2849	AVC	JPH	6/2/17
ADD METRIC DIMENSIONS				
A	CF709	RGR	DK	4/22/09
ADD METRIC DIMENSIONS				

PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE		
ENCLOSURE, WALL MOUNT, TYPE NEMA 4										
DRAWN BY BH				DATE 4/27/92		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055			ASSEM. REF. NO.	
CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.					COMPUTER GENERATED DRAWING	
PROJECT APPROVAL AM				DATE 4/27/92		SCALE 1:1			SIZE BS	
FINAL APPROVAL				 THIRD ANGLE PROJECTION					DWG. NO. SB2196	
									 ASCOS [®] ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.	
				DRAWING REV. B					ECN NO. LA2849	SHEET 1 OF 1