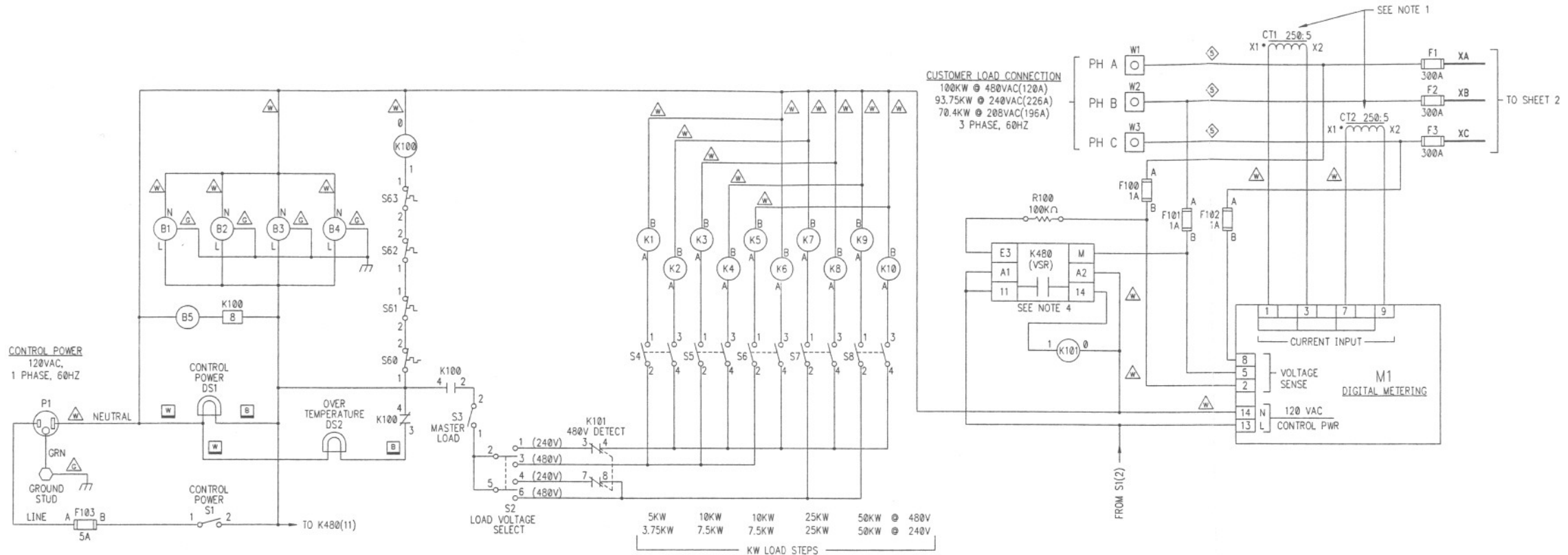


REVISIONS			
EN	NO.	REV	DESCRIPTION
			DATE
			APPROVED

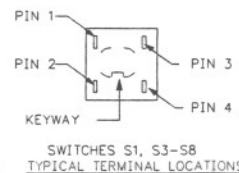
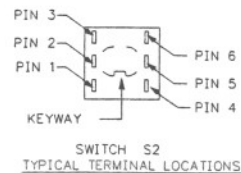
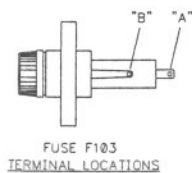


- 4- PRESET VOLTAGE SENSE RELAY (K480) TO 270V BUS VOLTS, 0% HYS.
- 3- WIRE LEGEND: (WIRE CODE TYPICAL FOR ALL SHEETS)
ALL UNMARKED WIRE TO BE BLACK #18 AWG (P/N 390005)
- △ INDICATES WIRE TO BE BLACK #16 AWG (PN 390008)
 - △ INDICATES WIRE TO BE WHITE #18 AWG (PN 390005)
 - △ INDICATES WIRE TO BE GREEN #18 AWG (PN 390005)
 - △ INDICATES WIRE TO BE BLACK #14 AWG (PN 390011)
 - △ INDICATES WIRE TO BE BLACK #8 AWG (PN 390019)
 - △ INDICATES WIRE TO BE BLACK #6 AWG (PN 390020)
 - △ INDICATES WIRE TO BE BLACK #1/0 AWG (PN 390025)
 - △ INDICATES WIRE TO BE BLACK #2 AWG (PN 390001)
 - △ INDICATES WIRE TO BE WHITE #22 AWG (PN 390001)

2- DO NOT RUN POWER WIRING IN THE SAME BUNDLE AS CONTROL PANEL WIRING.

1- CT1 & CT2 LEADS SHOULD BE THE SAME LENGTH.

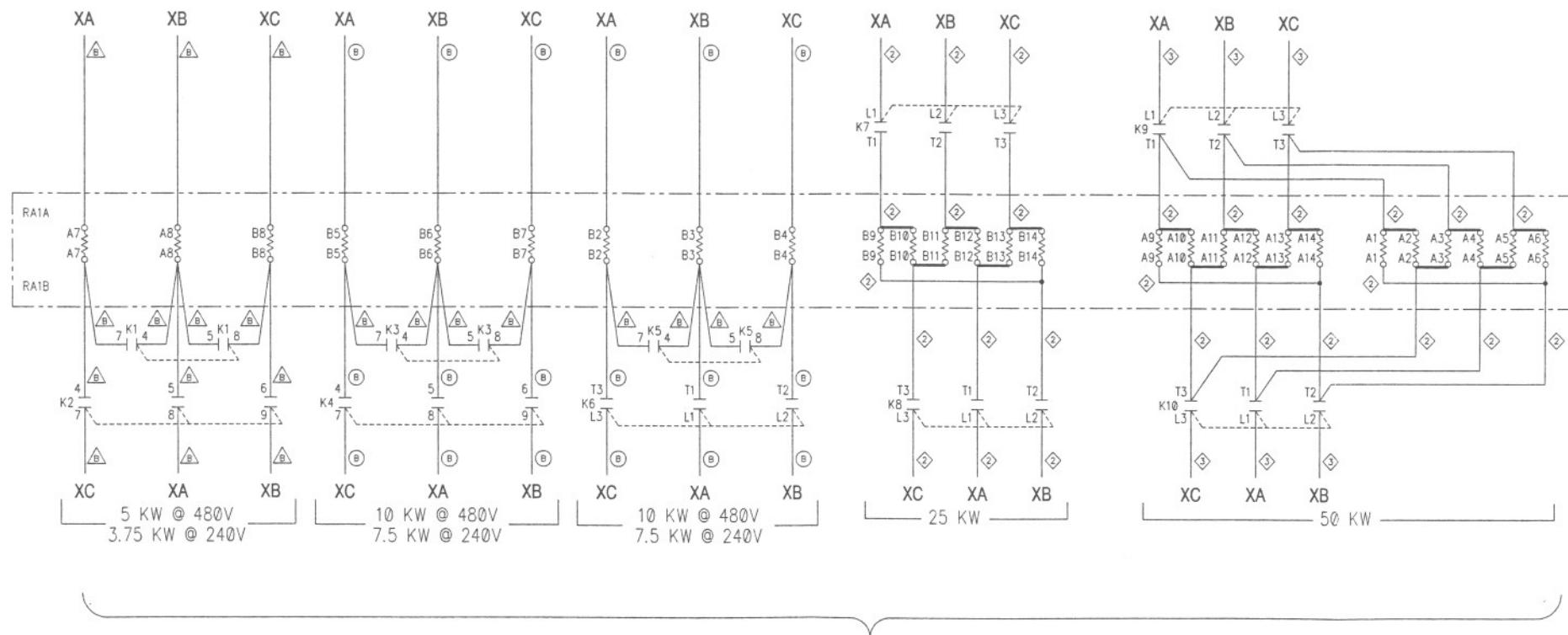
UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN	FACKELMANN	DATE	5/12/03
TOLERANCES: DECIMALS .XXX ANGLES ±1°		CHECKED	J.FLAUTO	5/12/03	
FINISH		ENG APP'D	D.KOZAR	5/13/03	
PAINT PER PS		APPRO'D	A.VYSOTSKY	5/13/03	
PLATE PER					
COAT PER PS					
ANODIZED PER					
OTHER					
APPLICATION					
NEXT ASSY	USED ON				
LPH100 D34963	LPH100 D34963				
AVTRON MANUFACTURING INC.		7980 E. PLEASANT VALLEY ROAD		INDEPENDENCE, OH 44131-5529	
SCHEMATIC/INTERCONNECTION DIAGRAM, LOAD BANK		SIZE		D 01014	
SCALE		MODEL		LPH 100	
SHEET		1 OF 2			

REVISIONS				
ECN NO.	REV	DESCRIPTION	DATE	APPROVED

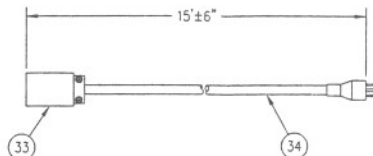


| | |
 XA XB XC
 FROM SHEET 1

SEE SHEET 1 FOR WIRE CODE AND NOTES.
UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY

 AVTRON MANUFACTURING INC. 7000 E. PLEASANT VALLEY ROAD INDEPENDENCE, OH 44131-5529		SCHEMATIC/INTERCONNECTION DIAGRAM, LOAD BANK		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF AVTRON MFG., INC. AND MAY NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING PURPOSES WITHOUT THE WRITTEN CONSENT OF AVTRON MFG.	SIZE D	CAGE NO. 01014	DWG. NO. D34965	REV
SCALE NONE	MODEL	LPH 100	SHEET 2	

REVISIONS					
ECN NO.	REV	DESCRIPTION	DATE	APPROVED	
CD410	A	REVISED SHEET 3 PER ECN	FACKELMANN	6/30/03	J HUDSON
CD698	B	REVISED NOTE 3 PER ECN. SEE SH 2 & 3	J.FLAUTO	5-17-04	J HUDSON
AN830	C	ITEM 31 WAS 660135	HARFORD	8/12/04	J.PALINKAS
CD809	D	ADD "240/480V" TO TITLE BLK; REV SHTS 2&3	MJ	10/01/04	J HUDSON
CE211	E	ADDED ITEM 15, ITEM 44 WAS 324615, FACKELMANN		12/5/05	J HUDSON
		REVISED SHEET 3 PER ECN			



LINE CORD
MAKE LINE CORD AS SHOWN AND
SHIP LOOSE WITH LOAD BANK

	80	AR	905396	TAPE, TRANSFER, DOUBLE FACED	
	79	2	905120	POLYESTER FILM, .015 THK (12.5" X 18")	
	78				
	77	4	540215	RIVET, BLIND, 1/8	
	76	12	540212	RIVET, BLIND, 3/16	
	75	3	532732	WASHER, BELLEVILLE, #1/2	
	74	54	530076	WASHER, FLAT #3/8	
	73	54	530075	WASHER, FLAT #5/16	
	72	108	530073	WASHER, FLAT #10	
	71	3	516022	NUT, HEX, 1/2-13	
	70	6	505036	SCREW, OVAL HD, B2, 10-24 X .88	
	69	108	523205	NUT, ASSEMBLED WASHER	
	68	54	473042	SPRING, COMPRESSION	
	67	1	469004	GROMMET	
	66	54	461159	PIN, SPRING CLIP	
	65	2	440108	HANDLE	
	64	4	417074	CASTER	
	63	6	411505	INSULATOR, STANDOFF	
	62	14	411270	BUSHING, SNAP IN	
	61	108	411182	TUBE, INSULATOR	
	60	54	411181	TUBE, INSULATOR	
	59	27	411145	TUBE, INSULATOR	
	58	216	411141	TUBE, INSULATOR	
XK480	57	3.5"	408189	RAIL, MOUNTING	
	56	3FT	390025	WIRE, ELECTRICAL, 1/0 AWG	
CT1,CT2	55	2	371220	TRANSFORMER, CURRENT	
XK480	54	2	364291	END BLOCK	
S2	53	1	360747	SWITCH, TOGGLE	
S1,S3-S8	52	7	360589	SWITCH, TOGGLE	
S60-S63	51	4	491021	SWITCH, TEMP	
REF DES	ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL

K1-K5	50	5	350982	RELAY	
K480	49	1	351653	RELAY, VOLT SENSE	
K100,K101	48	2	350539	RELAY	
M1	47	1	336992	METER	
DS2	46	1	329682	LAMP, INDICATOR	
DS1	45	1	329681	LAMP, INDICATOR	
XF100-XF102	44	1	324998	FUSEBLOCK	
F100-F102	43	3	324449	FUSE, 1A	
F1,F2,F3	42	3	324386	FUSE, 300A	
XF103	41	1	324985	FUSEHOLDER	
F103	40	1	324475	FUSE, 5A, 600V	
B5	39	1	322212	FAN	
B1-B4	38	4	322186	FAN	
XW1,XW2,XW3	37	3	315001	CONNECTOR, FEMALE	SHIPPED LOOSE
W1,W2,W3	36	3	314900	CONNECTOR, MALE STUD	
P1	35	1	314431	CONNECTOR, RECEPTACLE	
	34	1	390819	CABLE ASSY, LINE CORD	SHIPPED LOOSE
	33	1	313832	CONNECTOR, RECEPTACLE	SHIPPED LOOSE
R100	32	1	110048	RESISTOR, 100K, 1/2W	
	31	6	510011	STUD, 3/8-16 X 2.50	
	30				
	29	15	A17912	BUS BAR	
	28	54	A21179	BUSHING, SUPPORT ROD	
	27	1	A29405	PLATE, IDENTIFICATION	
	26	27	A27897	SUPPORT ROD, ELEMENT	
	25	18	A27896-6	RESISTANCE ELEMENT (25 KW)	
	24				
	23	6	A27896-5	RESISTANCE ELEMENT (10 KW)	
	22	3	A27896-1	RESISTANCE ELEMENT (5 KW)	
	21				
	20	2	B15905	LABEL, INSTRUCTION, WARNING	
	19	2	B15896	LABEL, INSTRUCTION, WARNING	
	18	1	B15871	PLATE, INSTRUCTION, WARNING	
K9,K10	17	2	B14796	RELAY	
K6,K7,K8	16	3	B14795	RELAY	
XW1-3	15	3	428375	SNAP BACK COVER	
	14	1	C25804	PANEL, CONTROL	
	13	1	C25303	PANEL, CONNECTION	
	12	2	C25302	PANEL, ACCESS	
	11	1	C25301	SUPPORT, COMPONENT	
	10	1	C25300	HEAT SHIELD	
	9				
	8	1	D33080	HEAT SHIELD, FAN	
	7	1	D34965	SCHEMATIC	
	6	1	D32803	COVER, TOP	
	5	1	D32802	PANEL, EXHAUST	
	4	1	D32801	PANEL, INTAKE	
	3	1	D32800-2	SUPPORT, ELEMENT	
	2	1	D32800-1	SUPPORT, ELEMENT	
	1	1	D32799	BASE, LOAD BANK	
REF DES	ITEM NO.	NO. REQD	PART NO.	DESCRIPTION	MATERIAL

RELAY TERMINAL REFERENCE DESIGNATORS ARE FOR SCHEMATIC REFERENCE. THESE REFERENCES SUPERSEDE ANY MARKINGS THAT MAY APPEAR ON THE RELAY TERMINAL COVERS.

WHEN WIRING FANS "B1-B4", RUN A SINGLE WHITE, BLACK, AND GREEN CONDUCTOR FROM THE FAN ASSEMBLY TO THE CONTROL CIRCUIT. LEAVE A SERVICE LOOP SUCH THAT PANEL (ITEM 4) CAN BE REMOVED AND FANS ACCESSED. USE CABLE CLAMPS 422008 & 422009 AS NECESSARY TO SECURE WIRE TO FANS.

STACK WIRES UNDER FUSE WITH LARGER WIRES CLOSER TO FUSE.

INK STAMP OR LABEL TEMPERATURE SWITCH DESIGNATIONS "S60-S63" AS SHOWN.

ALL EXTERIOR HARDWARE TO BE STAINLESS STEEL.

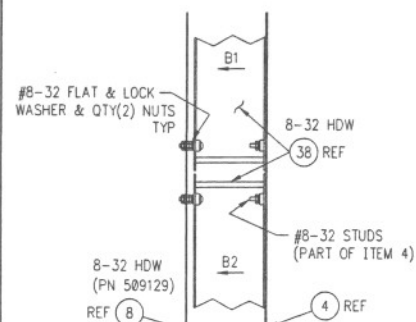
MARK REFERENCE DESIGNATORS .12 HIGH MINIMUM USING PRODUCTION DECALS AND OR INK STAMPING. SPRAY OVER INK STAMPING WITH CLEAR ACRYLIC LACQUER. REFERENCE DESIGNATORS SHALL BE LOCATED ADJACENT TO COMPONENTS SO THAT THEY REMAIN VISIBLE AFTER WIRING.

IF OTHERWISE SPECIFIED THE ABOVE NOTES APPLY

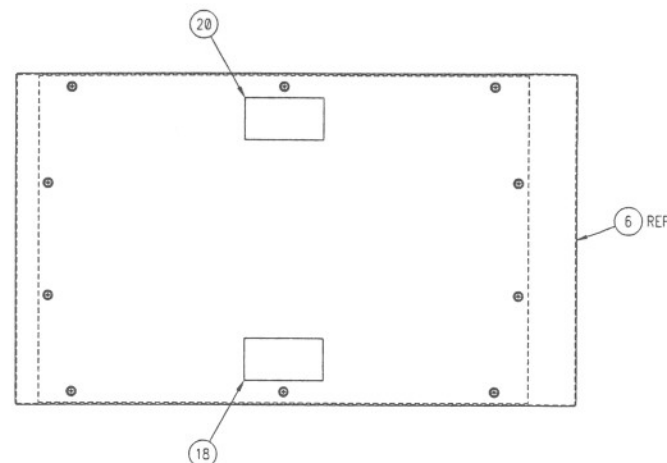
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS .003 .005 .015 FINISH PAINT PER PS PLATE PER COAT PER PS ANODIZED PER OTHER	DRAWN FACKELMANN CHECKED J.FLAUTO ENG APVD D.KOZAR APVD PRG A.VYSOTSKY	DATE 5/12/03 5/12/03 5/13/03 5/13/03	7900 E.PLEASANT VALLEY ROAD INDEPENDENCE, OH 44131-5529 LOAD BANK, PORTABLE, INDOOR, 240/480V (OUTLINE DWG SB3192)	SCALE 1/1 MODEL LPH100 SHEET 1 OF 3	REV E
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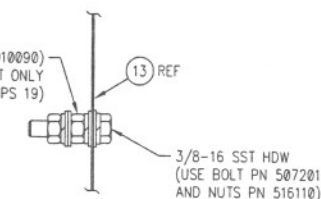
REVISIONS				
ECN NO.	REV	DESCRIPTION	DATE	APPROVED
CD410	A	REVISED DETAIL D PER ECN	6/30/03	J. HUDSON
CD698	B	REVISED GND PICTORIAL ON RIGHT SIDE VIEW. J. FLAUTO	5-17-04	J. HUDSON
CD809	D	REV "REF B" IN DETAIL C; REV PICTORIAL & TITLE BLK M.J. CHNG EFFECT S.N. 169,170,173 & ABOVE	10/01/04	J. HUDSON
CE211	E	REVISED PICTORIAL PER ECN	12/5/05	J. HUDSON



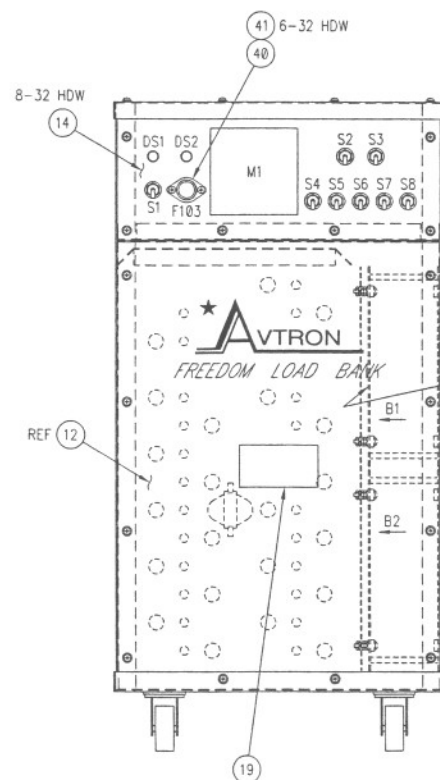
DETAIL C
SEE NOTE 5



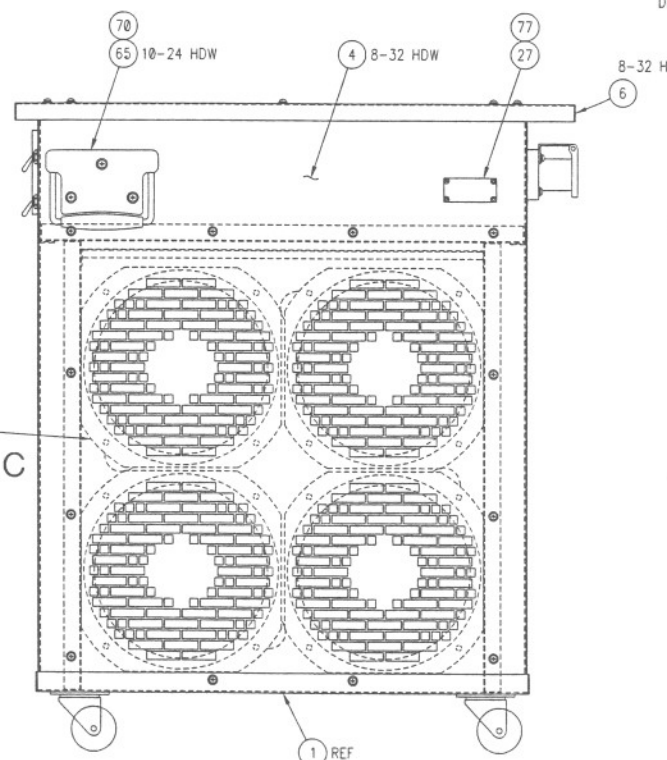
APPLY THREADLOCKER (PN 910090)
TO THREADS ON FIRST NUT ONLY
(REF. PS 19)



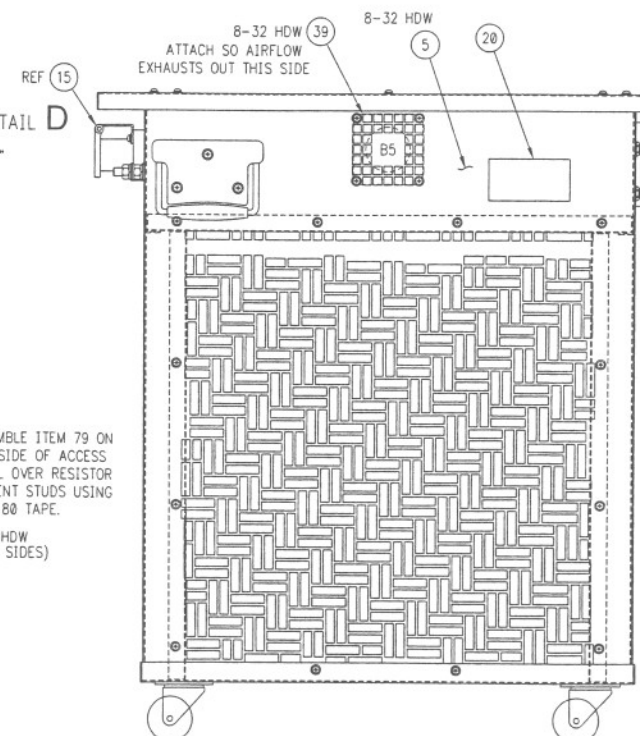
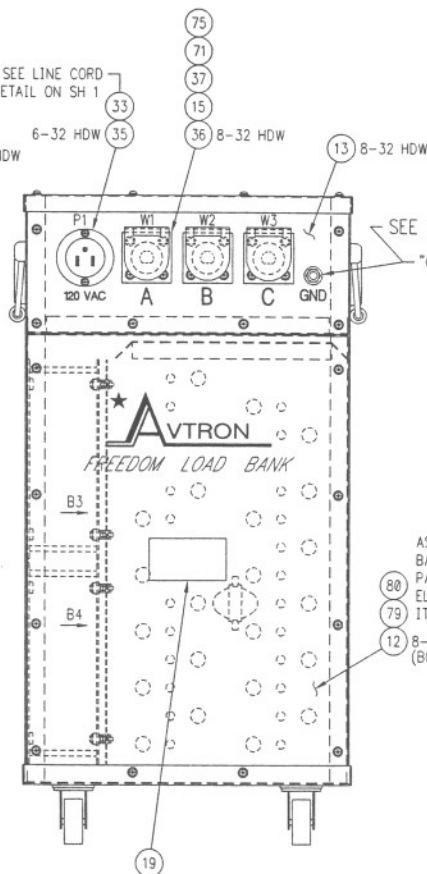
DETAIL D
SCALE 5/8



8-32 HDW
(38) (8)
SEE DETAIL C



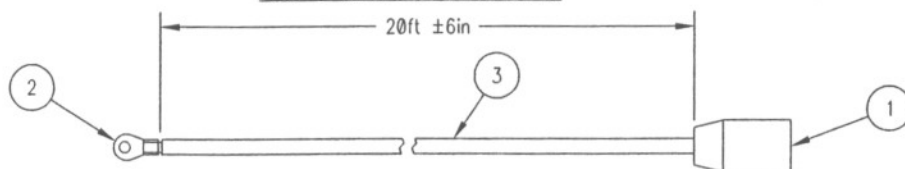
SEE LINE CORD
DETAIL ON SH 1



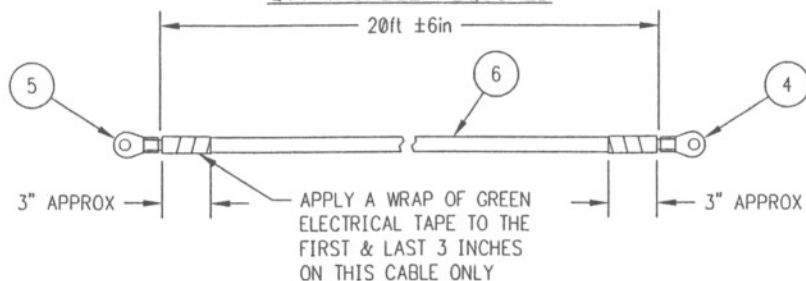
SEE SHEET 1 FOR NOTES
UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY

		LOAD BANK, PORTABLE, INDOOR, 240/480V	
7900 E. PLEASANT VALLEY ROAD INDEPENDENCE, OH 44131-5529	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF AVTRON MFG., INC. AND MAY NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING PURPOSES WITHOUT THE WRITTEN CONSENT OF AVTRON MFG.	SIZE D	QTY 1014
DWG. NO. LPH100 D34963	SCALE 5/16	MODEL LPH 100	SHEET 3

QTY 3 CABLES REQUIRED



QTY 1 CABLE REQUIRED



REVISIONS			
ECN NO.	LTR	DESCRIPTION	DATE

6	20' 6"	390022	WIRE, ELECT, #2 AWG	
5	1	366043	TERMINAL, LUG, #2 AWG, 1/2 SCREW	
4	1	366041	TERMINAL, LUG, #2 AWG, 3/8 SCREW	
3	61' 6"	390026	WIRE, ELECT, #2/0 AWG	
2	3	366053	TERMINAL, LUG, #2/0 AWG, 1/2 SCREW	
1	3	315001	CONNECTOR, PLUG,(FEMALE)	
ITEM NO.	NO. REQ'D	PART NO.	DESCRIPTION	MATERIAL

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN	J.FLAUTO	DATE	1/4/02	 7900 E. PLEASANT VALLEY ROAD INDEPENDENCE, OH 44131-5529	
TOLERANCES:		CHECKED	J.FLAUTO	1-7-02			
DECIMALS .XXX± .015		ENG APP'D	J.HUDSON	1-7-02			
ANGLES±1' .XX± .03		APP'D PROD	A.VYSOTSKY	1/8/02			
FINISH		S. O. NO.		NO REQ'D		CABLE SET-20 FT (OPTION 1)	
PAINT PER PS						SIZE	CAGE NO.
ZINC PLATE PER						B	01014
COAT PER PS						DRAWING NO.	B28571
ANODIZE PER						SCALE	1/1
OTHER						MODEL	LPH 105

- REF: THIS CABLE SET IS FOR USE WITH THE LPH 105 LOAD BANK.
- PACKAGE ALL 4 CABLES TOGETHER AND PART MARK .12 MIN HIGH ON OUTSIDE OF PACKAGE.

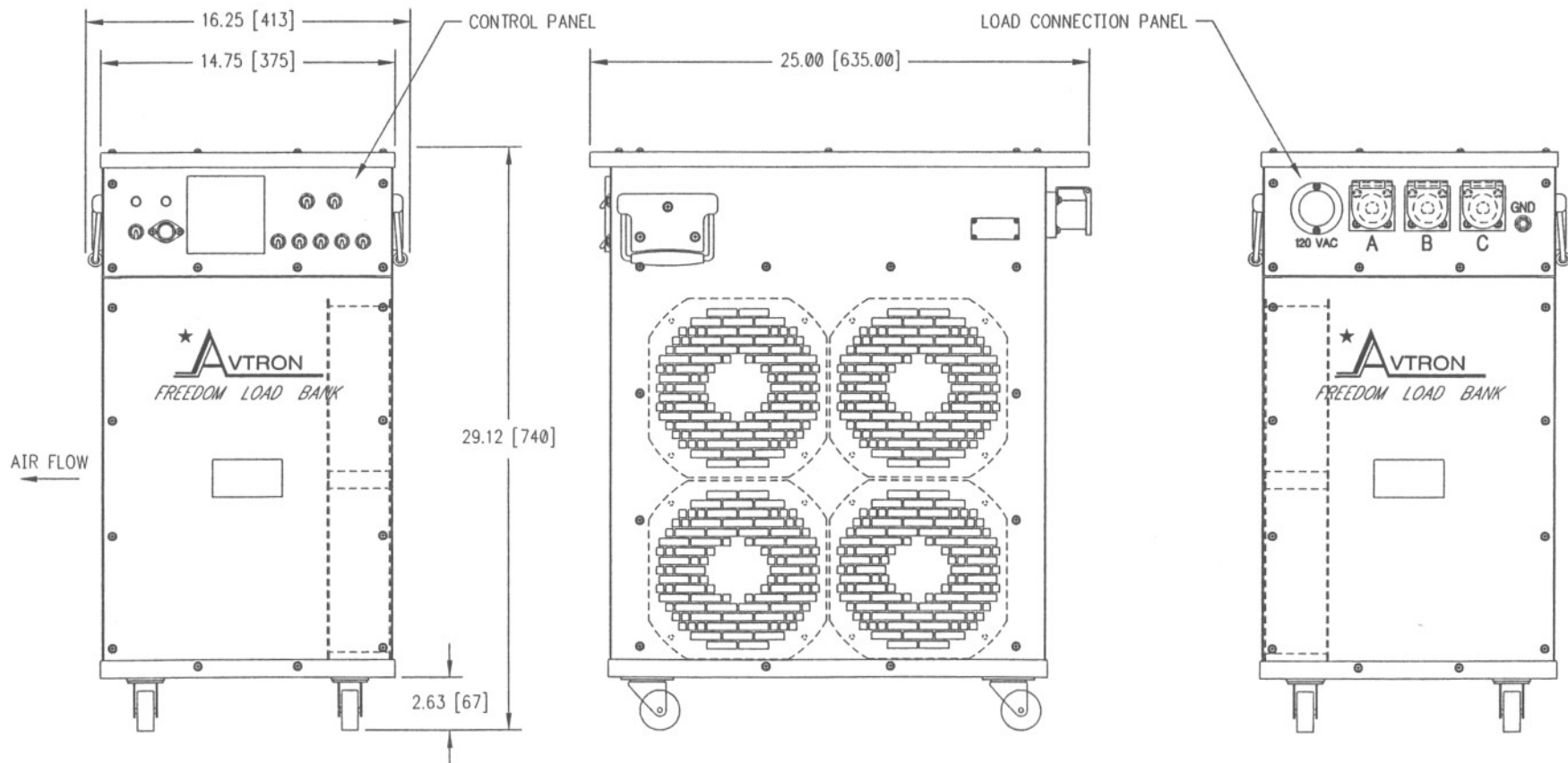
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LPH 105	LPH 105
NEXT ASSY	USED ON

IMF
PSF
REV. LTR.

SHEET 1 OF 1



FOR APPLICATION ENGINEERING USAGE ONLY

3. UNIT IS SUPPLIED WITH A 15 FT. [4.7 M], 120 V LINE CORD (NOT SHOWN).
 2. ALL DIMENSIONS ARE APPROX. INCH [METRIC].
 1. WEIGHT: 105 LBS, [48 KG] APPROX
- NOTES:

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CE211	B	REV PER ECN	Fackelmann	12/5/05	HUDSON
CD100	A	WEIGHT WAS 118 LBS S.N. 42 AND OLDER	Fackelmann	6/24/02	HUDSON
ECN NO.	REV LET.	CHANGE	CHG'D	CHK'D	

DRAWN	J.FLAUTO	DATE	10/18/01
CHECKED	J.FLAUTO	SCALE	1/3/02
APPROVED	J.HUDSON	SCALE	3/16

AVTRON	MANUFACTURING, INC.
	INDEPENDENCE, OH
LOAD BANK, PORTABLE, INDOOR	

DRAWING NUMBER
SB3192
SHT 1 OF 1
OUTLINE DRAWING