

BLEEDERS WARD LEONARD VITROHM & RIBFLEX 11/24/40	MODEL	VOLTAGE RANGE	ACC.	MULT.	3 F.T.	D.F.S.	CYCLING UNIT	M. P.	CONST. T.R.	PRINTER	INITIAL CLEAR	REG.	TOTALS	MAIN DRAIN	BLEEDER DRAIN	SAFETY FACTOR	TOTAL	VOLTS	SURGE CURRENT
3-2.05Ω FRAMES - 3-1.65Ω FRAMES	A	550-230		300	1,940			60				± 2 1/2%	2,300		23.	8	31.	270	
2-20Ω FIXED 1-15Ω FIXED 1-10Ω RIBFLEX 2-20Ω VARIABLE	G	100-150			2,220							± 2 1/2%	2,220	2.2	2.5	1.5	6.	250	
4-5Ω RIBFLEX	B	285-150		350	500			300				± 2 1/2%	850	.9	6.5	2.6	10.	135	
2-100Ω VITROHM	T	225-0	3,400	60	1,930	40	30	120	320			± 5%	5,900	5.9	1.	3.1	9.	225	4.5 #1940 8mh
6-7Ω RIBFLEX	W	200-20								3,000 1,500		± 5% or worse	3,000 1,500	3.	4.5		7.5	180	2.3 #1953 12.5mh
7-20Ω FIXED	C	150-110	4,630	400	270	30	160	740				± 2 1/2%	6,230	6.2	1.9	0.9	9.	40	1.5 #1953
1-10Ω RIBFLEX	D	110-75	5,390	50	320	60	400	1,180				± 2 1/2%	7,320	7.3	3.5	4.2	15.	35	1.5 #1953
1-22Ω RIBFLEX	E	75-20	7,490	50	550	60	420	1,200	50			± 2 1/2%	9,820	9.8	2.5	0.4	13.	55	2. #1989 8mh
2-100Ω VITROHM	F	110-85	11,800	25		25	150	1,490				± 2 1/2%	13,490	13.5	1.0	2.7	17.2	195	
1-60Ω VITROHM	R	20-40	2,800		20	50	20	60				± 2 1/2%	2,950	3.	1.0		4.	60	
1K & W.	Z	-85-115	4			1						± 2 1/2%	5	.005	.030	.005	.040	30	
1-20Ω RIBFLEX	V	55-0								28,300		± 5% or worse	28,300	28.3	2.75	0.7	31.7	55	28.5 #2057 1/4mh
IN THIS ORDER, TOP TO BOTTOM: 2-2-5Ω RIBFLEX 1-5Ω RIBFLEX 1-1-35Ω FRAMES 7-5Ω RIBFLEX	H	50-130	10,500	500	3,270	400	100	1,200	780			± 2 1/2%	16,754	16.8	4.7	3.5	25.	180	
1-20Ω RIBFLEX	S	-130-175		10	310	10						± 2 1/2%	2,770	2.9	2.2	0.2	5.2	45	
1-7Ω RIBFLEX	Y	20-0	4,100	230	700	60	160	700				± 5%	5,950	6.	2.9	1.1	10.	20	.8 #1953
2-3.52Ω FRAMES 1-2.05Ω FRAME	I	25-180	4,700	5,100	270	1,600						± 2 1/2%	10,370	10.3	22.5	5.6	58.4	215	
2-5Ω RIBFLEX	J	-35-180	350	150	500	100	40		475			± 2 1/2%	1,170	1.5	5.5		7.0	55	
1-7Ω RIBFLEX	X	-180-200	400	200	2,000	100	30		225			± 5%	3,700	3.7	2.9	1.0	7.6	20	
1-2000Ω VITROHM	U	-120-345					1,100					± 5%	1,100	1.1	(1.1)	.7	2.	225	
1-20Ω RIBFLEX	K	-200-235	6,000	500	2000	400	70		840		6,100	± 2 1/2%	5,000	5.	1.7	3.5	10.	35	.6 #1953
3-2Ω RIBFLEX	L	-235-295	1,030	500	1,500	320	120		710		6,100	± 2 1/2%	4,180	4.2	9.	6.	19.2	60	.6 #1953
1-3.52Ω FRAME	M	-295-360	1,340	610	2,800	320	70		1,640		6,100	± 2 1/2%	6,780	6.8	16.	9.2	32.	65	.6 #1943 12.5mh
2-22Ω RIBFLEX	Q	-240-320	700		360	90			550		2,500	± 2 1/2%	1,700	1.7	1.8	0.5	5.	80	.8 #1965 25mh
4-15Ω RIBFLEX	P	-290-475				40						± 2 1/2%	4,000	4.	3.	3.	10.	185	
1-3.52Ω FRAME 1-2.05Ω FRAME	N	-360-450	2,950	450	3,200	400	50		250			± 2 1/2%	7,300	7.3	14.	7.7	29.	90	
2-22Ω RIBFLEX	O	-450-555	2,300	240	800	360	20		165			± 2 1/2%	3,885	3.9	2.4		6.3	105	
3-20Ω RIBFLEX	AA	-555-620			600							± 2 1/2%	600	.6	1.	.9	2.5	65	
4-15Ω RIBFLEX	BB	-620-815			300							± 2 1/2%	300	.9	3.	1.1	3.	175	
3-60Ω VITROHM	CC	-775-920			300							± 2 1/2%	300	.4	1.2	0.9	2.5	175	

1	2	3	4	5	6	7	8	9
REVISED	REVISED	REVISED	REVISED	CHANGES ON E, K, & O. Z ADDED.	CHANGED RESISTORS ON V & H.	REVISIONS ON C & F.	REVISIONS ON J SUPPLY	CHART CHANGED TO AGREE WITH BLEEDER RESISTOR CHANGE VS SUPPLY CHANGE WAS #1988-2MH F. ENG. MICHAEL 12-6-46
AWB 3/14/45	AWB 3/24/45	AWB 4/14/45	AWB 4/21/45					

MOORE SCHOOL OF ELECTRICAL ENGINEERING
UNIVERSITY OF PENNSYLVANIA

POWER SUPPLY DRAINS

MATERIAL	FINISH	SCALE
Drawn By: <i>gfp</i>	Checked By: <i>F.R. Jones</i>	Approved By: <i>AWB</i>
2/21/45		3-26-45

PX-13-103