

ENGINEERING

TESTING

ELEMENT TYPE	PART NUMBER	OHMS	VOLTAGE	WATTAGE	QTY	TOTAL WATTS
A		107.37	300	833	6	5,000
B		53.52	300	1,667	12	20,000
C		21.19	300	4166	6	25,000
D		10.51	300	8,333	354	2,950,000

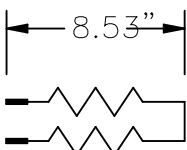
OHMS	CALCULATED WATTS V^2/R	TOTAL WATTS

TOTAL WATTS FOR LOAD BANK 3,000,000

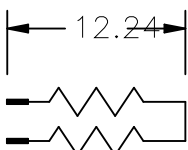
TOTAL WATTS FOR LOAD BANK

COMPARE

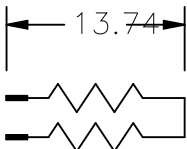
A. LR1–LR6
833W @ 300V
.025 DIA. WIRE
107.37 OHMS COLD
POWER–WEB



B. LR7–LR18
1667W @ 300V
.036 DIA. WIRE
53.52 OHMS COLD
POWER–WEB



C. LR19–LR24
4,166W @ 300V
.051 DIA. WIRE
21.191 OHMS COLD
POWER–WEB



D. LR25–LR378
8,333W @ 300V
.072 DIA. WIRE
10.51 OHMS COLD
POWER–WEB



INSTRUCTIONS:

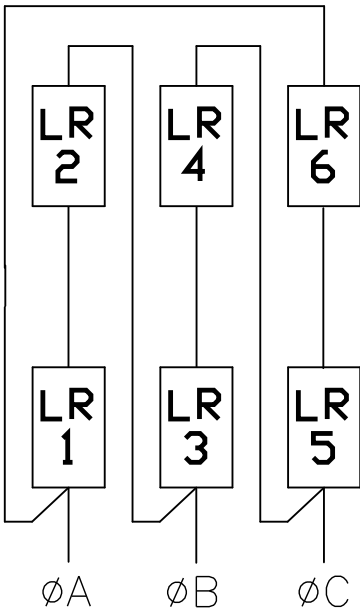
ENGINEERING DEPARTMENT–
FILL OUT ONE OF THESE FORMS FOR ALL LOAD BANKS USING
NON–STANDARD ELEMENTS. FIND ELEMENT(S) USED IN TABLE
AT LEFT AND TRANSFER ELEMENT DATA TO TABLE ABOVE.
COMPUTE TOTAL WATTS FOR THE LOAD BANK AND SIGN BELOW.

TESTING DEPARTMENT–
MEASURE LOAD ELEMENT RESISTANCE, CALCULATE WATTAGE FOR
EACH ELEMENT TYPE, MULTIPLY TIMES QUANTITY AND CALCULATE
LOAD BANK TOTAL WATTAGE. COMPARE TO ENGINEERING LOAD
ELEMENT DATA ABOVE. FILL OUT TABLE AT ABOVE RIGHT AND
SIGN BELOW.

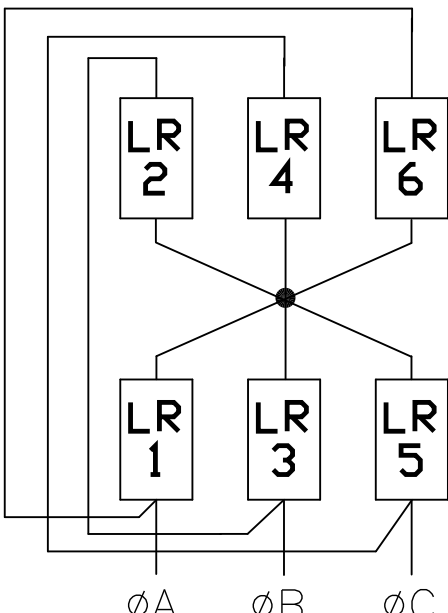
ENGINEER JPC

ENGINEER APPROVAL

TEST TECH.



600 V CONFIGURATION
300 V PER ELEMENT



480 V CONFIGURATION
277 V PER ELEMENT
85.3% OF 600 V RATING

CORRECTED ELEMENT DESCR.		DRAWN BY : AZM	
		DATE :3/29/07	
SIMPLX ®			
SPRINGFIELD, ILLINOIS			
SCALE :	APPROVED BY :	DRAWN BY : JPC	
DATE :3/23/07		REVISED :	
RESISTIVE LOAD BANK SATURN–3000 DV			
2560KW/3000KW,480V/600V,3Ø,60HZ ELEMENTS			
W.O. #3798–07–43/2			DRAWING NUMBER
			47B164477A