

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		26.08	300	4166	6	25,000
D		8.09	300	8,333	354	2,950,000

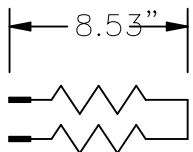
OHMS	CALCULATED WATTS V^2/R	TOTAL WATTS

TOTAL WATTS FOR LOAD BANK3,000,000

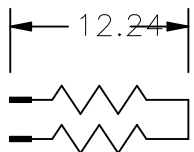
TOTAL WATTS FOR LOAD BANK

COMPARE

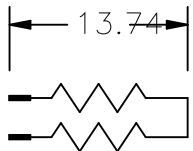
A. LR1–LR6
833W @ 300V
.025 DIA. WIRE
107.37 OHMS COLD
POWER–WEB



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
.051 DIA. WIRE
10.021 OHMS COLD
POWER–WEB

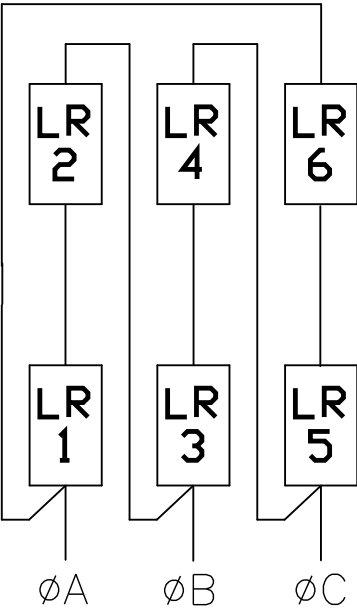


INSTRUCTIONS:

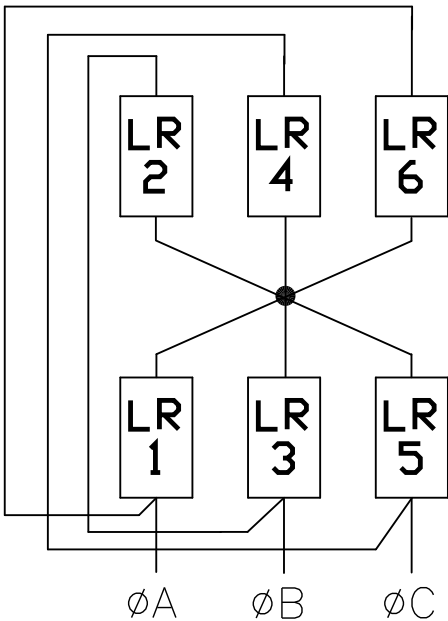
ENGINEERING DEPARTMENT–
FILL OUT ONE OF THESE FORMS FOR ALL LOAD BANKS USING
NON–STANDARD ELEMENTS. FIND ELEMENT(S) USED IN TABLE
AT LEFT AND TRANSFER ELEMENT DATA TO TABLE ABOVE.
COMPUTE TOTAL WATTS FOR THE LOAD BANK AND SIGN BELOW.

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

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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 47B164477