

GENERAL SPECIFICATIONS TYPE 4724 VAR TRANSDUCERS

CATALOG NUMBERS	50-472415MNDD	50-472420MNDD	50-472425MNDD	50-472430MNDD
Number of Elements	1 1/2	2	2 1/2	3
Application	1 phase or 3-phase 3-wire balanced load	3 phase 3 wire unbalanced load	3 phase 4 wire balanced voltage	3-phase 4-wire unbalanced load
Full-Scale Calibration, Vars Single-Phase Connection Three-Phase Connection	$\pm 500$ $\pm 1000$	$\pm 1000$	$\pm 1500$	$\pm 1500$
Potential Input, Nominal (External Power Option) <sup>1</sup> Overload Withstand, Continuous Burden, Maximum (External Power Option) <sup>2</sup>	85-150 vac (0-150 vac) 175 vac 4 va (1 va)	85-150 vac (0-150 vac) 175 vac 4 va (1 va)	85-150 vac (0-150 vac) 175 vac 4 va (1 va)	85-150 vac (0-150 vac) 175 vac 4 va (1 va)
Current Input, Nominal Overload Withstand, Continuous Overload Withstand, 1 Second Burden, Maximum	0-6.25 a 10 a 250 a 0.25 va	0-6.25 a 10 a 250 a 0.25 va	0-6.25 a 10 a 250 a 0.25 va	0-6.25 a 10 a 250 a 0.25 va
Output, Full Scale	$\pm 1$ ma dc	$\pm 1$ ma dc	$\pm 1$ ma dc	$\pm 1$ ma dc
Accuracy, % of F.S.*	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Operating Temperature Range	-20 to +65°C	-20 to +65°C	-20 to +65°C	-20 to +65°C
Temperature Influence, Maximum	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Operating Humidity	0-90%	0-90%	0-90%	0-90%
Output Load	0-10K $\Omega$	0-10K $\Omega$	0-10K $\Omega$	0-10K $\Omega$
Output Ripple, Peak	<1%	<1%	<1%	<1%
Response Time (to 99%)	<400 ms	<400 ms	<400 ms	<400 ms
Frequency, Nominal (Optional Frequency) <sup>3</sup>	60 Hz (50 Hz)	60 Hz (50 Hz)	60 Hz (50 Hz)	60 Hz (50 Hz)
Power Factor Range	Unity to Lead or Lag zero			
Dielectric Test, Vrms	1500	1500	1500	1500
Surge Withstand	Withstands IEEE SWC Test, 2.5KV crest value, 1.5 M Hz oscillatory decay			
Size	See outline dimensions			
Calibrate Adjustment <sup>4</sup> (Optional Calib. Range) <sup>5</sup> (Optional Calib. Range) <sup>5</sup>	$\pm 10\%$ (50 to 125%) (75 to 200%)			
Zero Adjustment	$\pm 2\%$			
Special Requirements	Consult Factory			
Weight	3 lbs/1.35 kg	3.6 lbs/1.6 kg	3.6 lbs/1.6 kg	4.2 lbs/1.58 kg

3. Calibration Options:

Third letter in Cat. No. may be specified as follows:

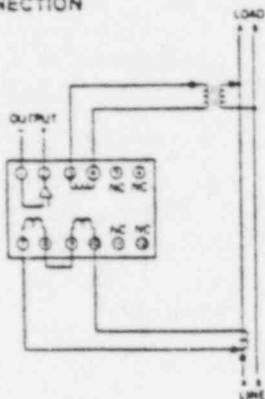
D- Standard  $\pm 10\%$

M- 50 to 125%

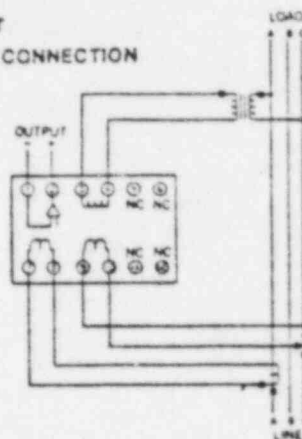
V- 75 to 200%. Calibration adjustment is defined as a percentage of full scale output for a constant full scale calibrating input power.

4. Accuracy is specified within the full scale input rating at 23°C and nominal frequency over the range 0-6.25 a, 85-150 vac, 0-10K load resistance, 0-90% relative humidity and at any power factor, unity to zero, lead or lag.

## WATT &amp; VAR TRANSDUCERS

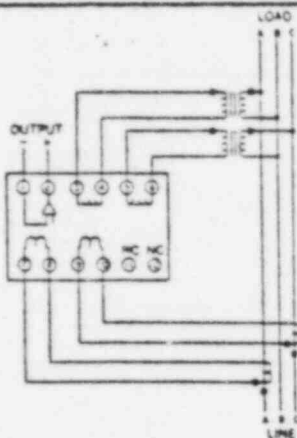
1 1/2 ELEMENT  
SINGLE-PHASE CONNECTION

With external power option, connect external power to terminals 11 and 12.

1 1/2 ELEMENT  
THREE-PHASE CONNECTION

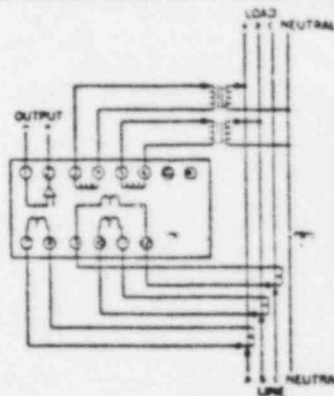
With external power option, connect external power to terminals 11 & 12.

## 2 ELEMENT



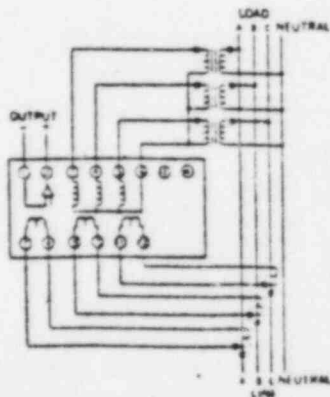
With external power option, connect external power to terminals 11 & 12.

## 2 1/2 ELEMENT



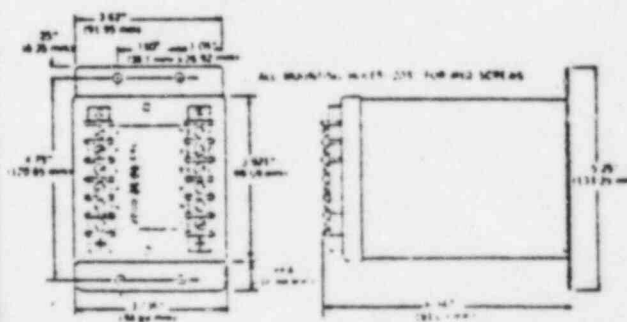
With external power option, connect external power to terminals 13 and 14. An 8-point terminal block is furnished with this option.

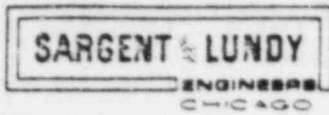
## 3 ELEMENT



With external power option, connect external power to terminals 13 and 14. An 8-point terminal block is furnished with this option.

## OUTLINE DIMENSIONS, ALL MODELS





Calcs. For 1422-1071 AND 1422-1072	
RPIS MULTIPLEXING CABINETS	
<input checked="" type="checkbox"/> Safety-Related	<input type="checkbox"/> Non-Safety-Related

Calc. No. 19-ED-10	
Rev. 1	Date 2-26-85
Page 1	of 5

Client ILLINOIS POWER COMPANY	
Project CLINTON	
Proj. No. 4536	Equip. No.

Prepared by J. J. Stebbins	Date 2-22-85
Reviewed by J. B. [unclear]	Date 2-25-85
Approved by Mark F. [unclear]	Date 2-26-85

RESPONSIBLE DIVISION: EPED

FILE NO.: 19BD

### Revision Status

Rev 0	6-1-84	Pages 1 through 4 (Original issue)
Rev 1	2-22-85	Pages 1 through 5 (Revised per new dist. and configuration)

## FOR REFERENCE ONLY

## UNCONTROLLED COPY

### REVIEW METHOD

Original Rev 1 in [unclear]

Client ILLINOIS POWER COMPANY  
Project CHINTON  
Proj. No. 4536-00 Equip. No. 1H22-P071/P072

Prepared by

Date

Reviewed by

Date

Approved by

Date

### Purpose

The purpose of this Calculation is to assess how the failure of 1H22-P071 and 1H22-P072 would adversely affect the performance of this class VIE power supplies.

### References:

1) Interoffice Memorandum from S.L. Hendon to J.S. Steele dated 4-12-84

2) Drawings

E02-1R099-001 Rev-J

E02-1R099-003 Rev-E

E02-1R099-004 Rev-E

GE FOI SKSO Rev 0

GE ECN NT 53566

3. Telephone conversation between J.S. Steele and M. Hays dated 6-1-84

Client

Prepared by

Date

Project

Reviewed by

Date

Proj. No. 4536

Equip No.

Approved by

Date

Assumptions

A) Per reference 1

1) The multiplexers are "black boxes". We assume the multiplexers will fail. We will not identify the cause of failure nor the probability of failure.

2) The analysis will identify the consequences of the multiplexer failure on the Class IE power supply.

B) Panels 1H13-P651 and 1H13-P652 and all components are Class IE. (Per E02-12099-001 NW-J)