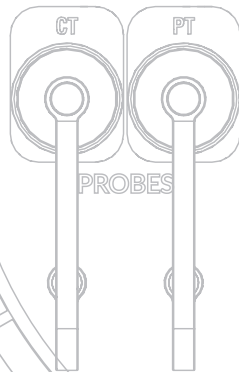




# PROBEWELL

MAKING FIELD TESTING EASY

## FORM COMPATIBILITIES AND CONFIGURATION BOOKLET



MODEL NO:	ST-3/XT3	<input type="checkbox"/>
FORM:	38/48/68/88	<input type="checkbox"/>
SERIAL NO:	12345678	<input type="checkbox"/>
LINE:	100-000V, 60-62Hz	<input type="checkbox"/>
SSID:	PW-XT3-12345678-AP	<input type="checkbox"/>
MAC:	0C B2 D8 18 22 06	<input type="checkbox"/>



**ST-3/XT3**  
TRANSFORMER RATED SITE TESTER



IT IS ESSENTIAL THAT OPERATORS THOROUGHLY READ THIS INSTRUCTION BOOKLET **BEFORE PUTTING THIS PRODUCT INTO SERVICE.**





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## Limited Warranty

Your XT series site tester comes with a two-year hardware warranty. Probewell Lab Inc. (Probewell) warrants XT series site tester against defects in material and workmanship for a period of two (2) years from the date of purchase from Probewell. This warranty applies only to the original purchaser of the XT series site tester and is not transferable.

For additional information regarding your tester warranty, please refer to the related XT series site tester user guide.

PROBEWELL IS NOT RESPONSIBLE FOR ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE, OR INABILITY TO USE, OF THIS PRODUCT. THIS INCLUDES DAMAGE TO PROPERTY AND DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Features and specifications are subject to change without notice.

# Table of Contents

Limited Warranty .....	2
Disclaimer .....	2
Table of Contents .....	3

## Chapter 1

Form Configurations .....	5
---------------------------	---

## Chapter 2

Compatible Meter Forms Installations .....	7
Form 3S .....	8
Form 3S Fitzall™ (1CT 1PT) .....	9
Form 3S Fitzall™ (1CT) .....	10
Form 3S Fitzall™ (1CT 1PT) .....	11
Form 3S Fitzall™ (1CT) .....	12
Form 4S (2CT) .....	13
Form 4S Fitzall™ (2CT 2PT) .....	14
Form 4S Fitzall™ (2CT) .....	15
Form 5S (N 2CT) .....	16
Form 5S (3Δ 2CT) .....	17
Form 5S (3Δ 2CT 2PT) .....	18
Form 5S (4Δ 2CT) .....	19
Form 5S (4Y 3CT) .....	20
Form 5S (4Y 2CT) .....	21
Form 5S, 35S & 45S Fitzall™ (3Δ 2CT) .....	22
Form 5S, 35S & 45S Fitzall™ (3Δ 2CT 2PT) .....	23
Form 5S, 35S & 45S Fitzall™ (4Δ 2CT) .....	24
Form 5S, 35S & 45S Fitzall™ (N 2CT) .....	25
Form 5S, 35S & 45S Fitzall™ (N 2CT 2PT) .....	26
Form 5S, 35S & 45S Fitzall™ (4Y 2CT 2PT) .....	27
Form 5S, 35S & 45S Fitzall™ (4Y 2CT) .....	28
Form 5S, 35S & 45S Fitzall™ (4Y 3CT 2PT) .....	29
Form 5S, 35S & 45S Fitzall™ (4Δ 3CT) .....	30
Form 6S (36S, 46S) (4Y 3CT) .....	31
Form 6S (36S, 46S) (4Y 3CT 2PT) .....	32
Form 6S (36S, 46S) Fitzall™ (4Y 3CT) .....	33
Form 6S (36S, 46S) Fitzall™ (4Y 3CT 2PT) .....	34
Form 8S (4Δ 3CT) .....	35
Form 8S Fitzall™ (4Δ 3CT) .....	36
Form 9S (4Δ 3CT) .....	37
Form 9S (4Y 3CT) .....	38
Form 9S (4Y 3CT 3PT) .....	39
Form 35S (3Δ 2CT) .....	40
Form 45S (4Δ 2CT) .....	41
Form 45S (4Y 2CT 2PT) .....	42



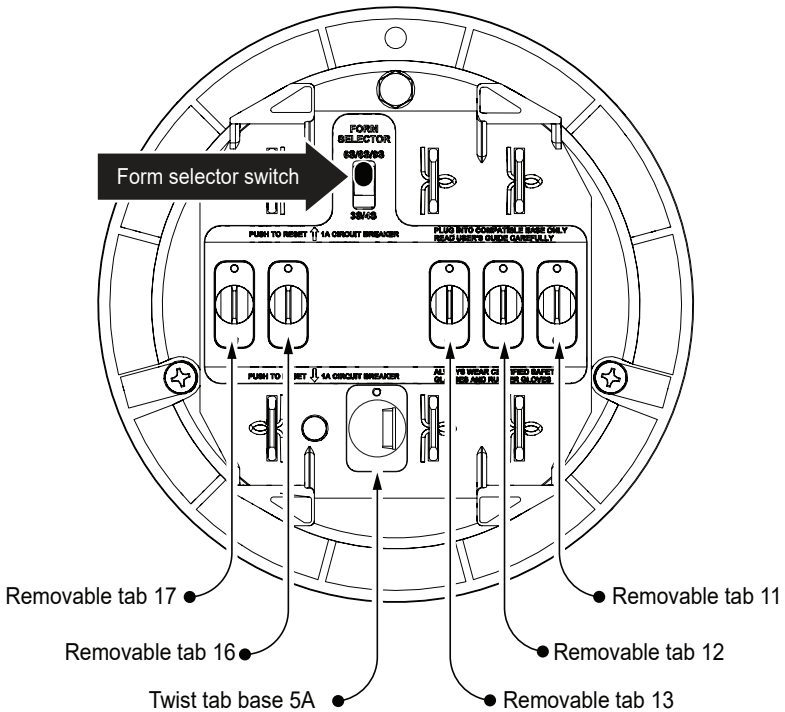
## Chapter 1

# Form Configurations



**Caution: This procedure involves high voltage.** Use extreme caution in working with and making connections. Always wear appropriate protective equipment.

The ST-3/XT3 allows for several tab configurations depending on the base in which it will be inserted. Use the graphic below as a reference to identify the position of the different ports needed to properly configure your device.







## Chapter 2


# Compatible Meter Installations


This chapter covers meter installations compatible with the ST-3/XT3. For each installation, an illustration showing the positions of the removable twist tabs appears at the top left of the page, the electrical service is shown at the top center and an internal meter schematic at the top right. The wiring connection between the meter, the line and the load is also shown on the bottom part of the page.

Before proceeding with a field test, make sure that the connections to the socket for a given form are like those shown hereafter.


The symbols used are described here:

### Circuit

  
Current conductor

  
Voltage conductor

  
Ground

  
No connection


  
Connection

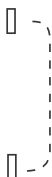
### Meter & meter socket

  
Current coil


  
Tab (meter)

  
Voltage coil

  
Jaw  
(meter socket)

  
Circuit-closing device

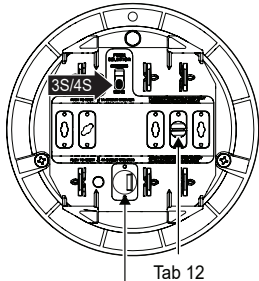
### Instrument transformer

  
Current transformer (CT)  
with polarity marks

  
Potential Transformer  
With Polarity Marks

# Form 3S (1CT)

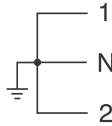
**ST-3/XT3  
Rear view**



Tab 5A

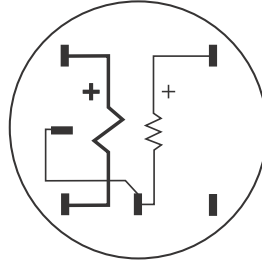
Tab 12

**Single-phase  
three-wire  
with CT**

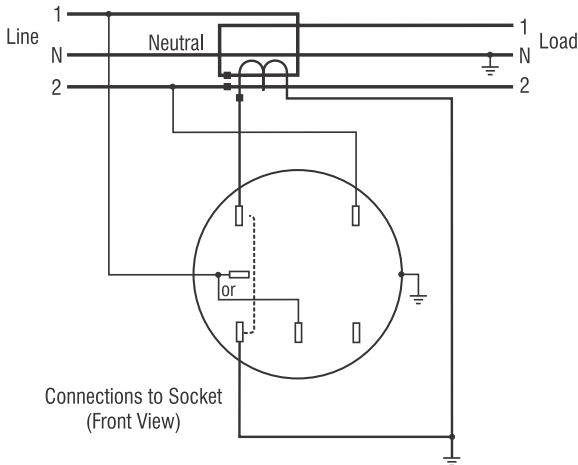


120 volts line-to-neutral  
240 volts line-to-line

**Form 3S**



Meter Internal Wiring  
(Front View)

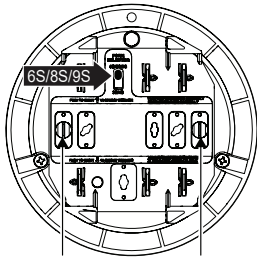


Form 3S single-phase, 120 volts two-wire with CT is also compatible.

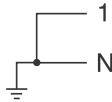
**Caution:** Never open a circuit-closing device if current is flowing in the CT primary. Serious personal injury may result.

# Form 3S Fitzall™ (1CT 1PT)

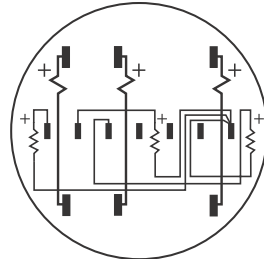
**ST-3/XT3  
Rear view**



**Single-phase  
two-wire  
with CT and PT**

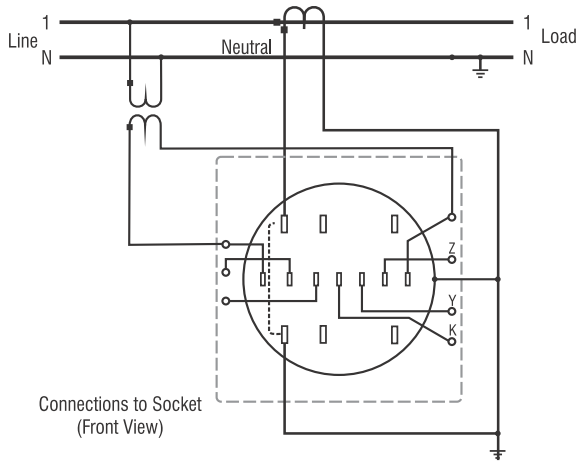


**FITZALL  
Form 3S**



**Meter Internal Wiring  
(Front View)**

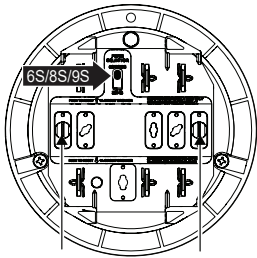
480 volts line-to-neutral



**Caution:** Never open a circuit-closing device if current is flowing in the CT primary. Serious personal injury may result.

# Form 3S Fitzall™ (1CT)

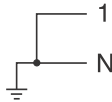
**ST-3/XT3  
Rear view**



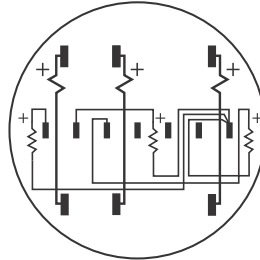
Tab 17

Tab 11

**Single-phase  
two-wire  
with CT**

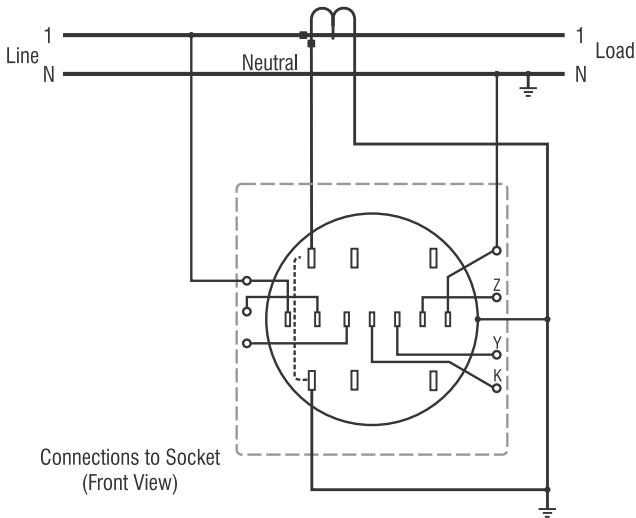


**FITZALL  
Form 3S**



Meter Internal Wiring  
(Front View)

120 or 240 volts line-to-neutral

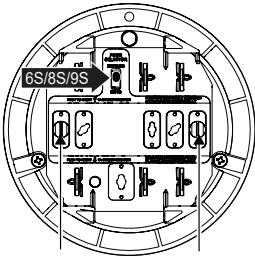


Connections to Socket  
(Front View)

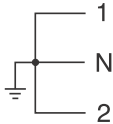
**Caution:** Never open a circuit-closing device if current is flowing in the CT primary. Serious personal injury may result.

# Form 3S Fitzall™ (1CT 1PT)

**ST-3/XT3  
Rear view**

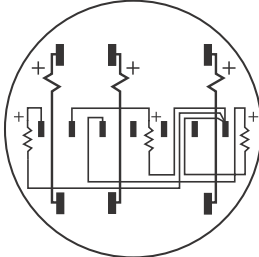


**Single-phase  
three-wire  
with CT and PT**

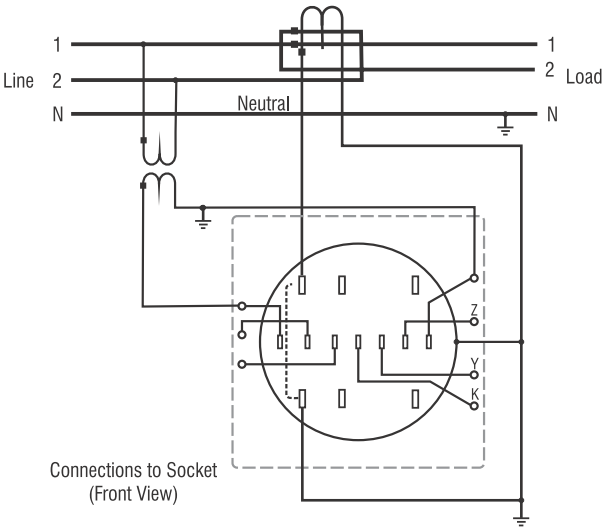


120 volts line-to-neutral  
240 volts line-to-line

**FITZALL  
Form 3S**



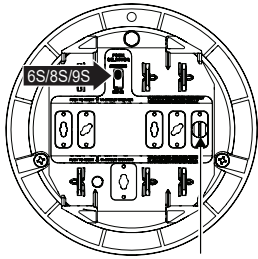
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in the CT primary. Serious personal injury may result.

# Form 3S Fitzall™ (1CT)

**ST-3/XT3  
Rear view**

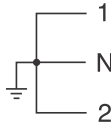


Tab 11



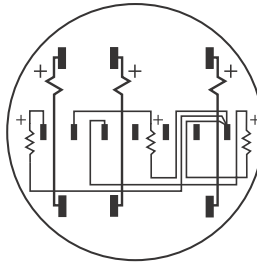
Remember to remove tab 17

**Single-phase  
three-wire  
with CT**

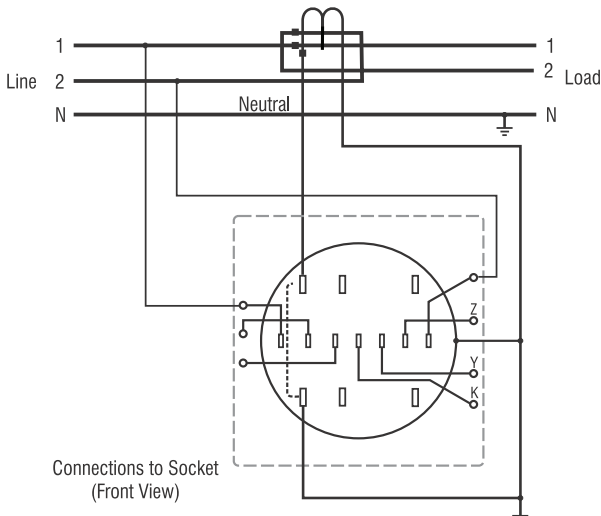


**240 volt line-to-line  
120 line-neutral**

**FITZALL  
Form 3S**



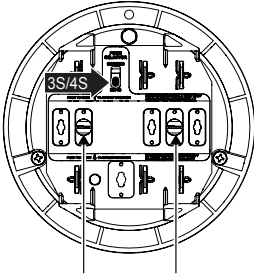
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in the CT primary. Serious personal injury may result.

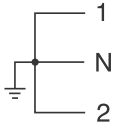
# Form 4S (2 CT)

**ST-3/XT3  
Rear view**



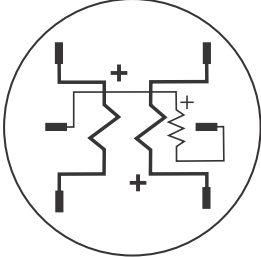
Tab 16    Tab 12

**Single-phase  
three-wire  
with two CTs**

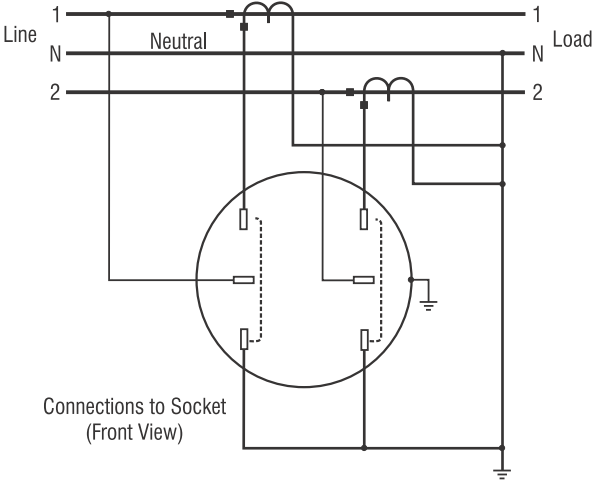


120 volts line-to-neutral  
240 volts line-to-line

**Form 4S**



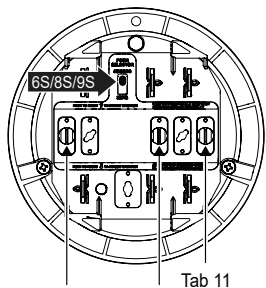
Meter Internal Wiring  
(Front View)



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

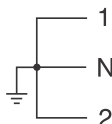
# Form 4S Fitzall™ (2CT 2PT)

**ST-3/XT3  
Rear view**



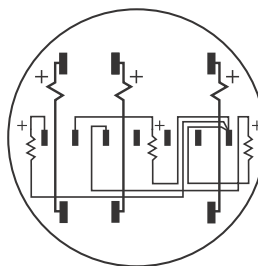
Tab 17      Tab 13

**Single-phase  
three-wire with  
two CTs and two PTs**

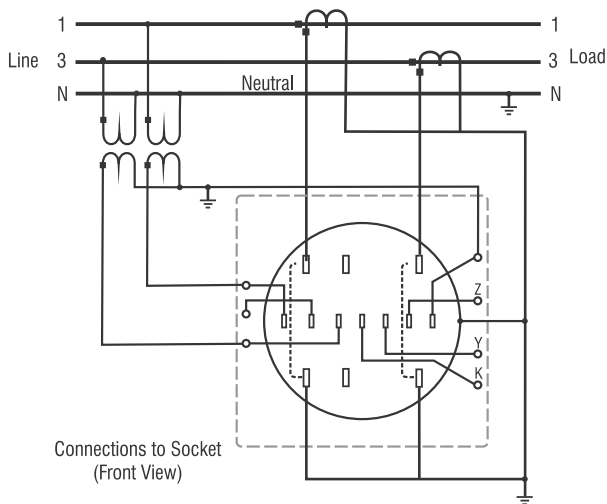


120 volts line-to-neutral  
240 volts line-to-line

**FITZALL  
Form 4S**



Meter Internal Wiring  
(Front View)

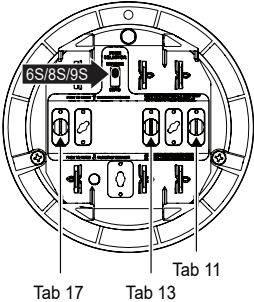


**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

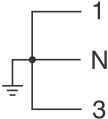


# Form 4S Fitzall™ (2CT)

**ST-3/XT3  
Rear view**

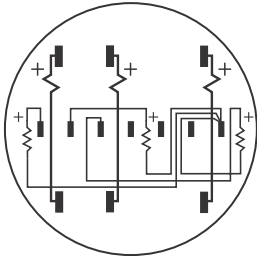


**Single-phase  
three-wire  
with two CTs**

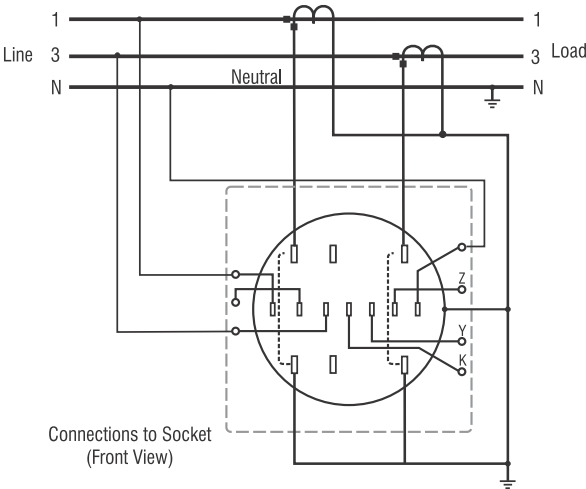


120 volts line-to-line  
240 volts line-to-line

**FITZALL  
Form 4S**



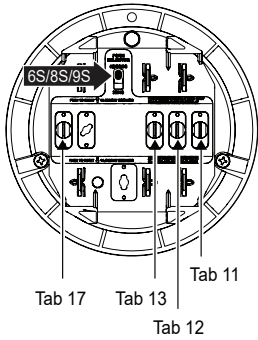
Meter Internal Wiring  
(Front View)



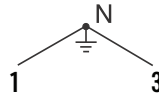
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S (N 2CT)

**ST-3/XT3  
Rear view**

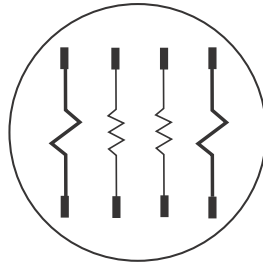


**Three-wire network  
with two CTs**

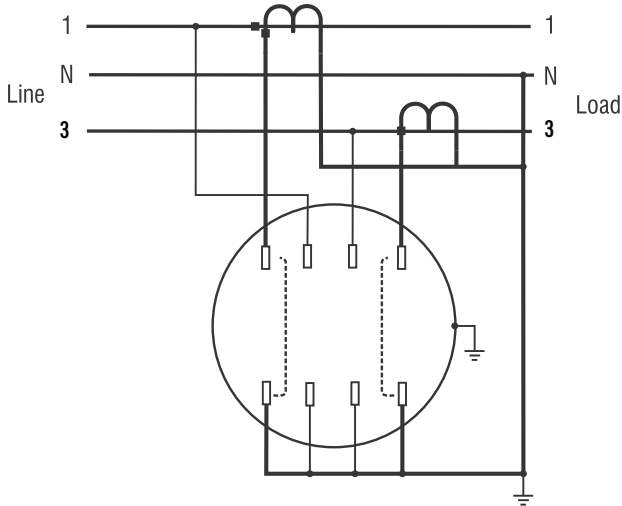


120 volts line-to-neutral  
208 volts line-to-line

**Form 5S**



**Meter Internal Wiring  
(Front View)**

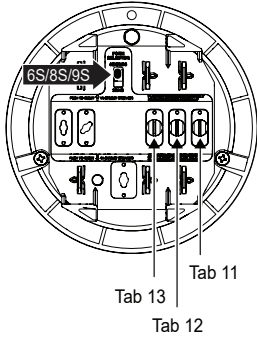


**Connections to Socket  
(Front View)**

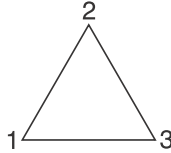
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 5S (3 $\Delta$ 2CT)

**ST-3/XT3  
Rear view**

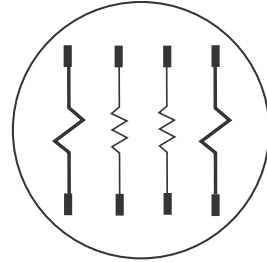


**Three-phase  
three-wire delta  
with two CTs**



240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

**Form 5S**



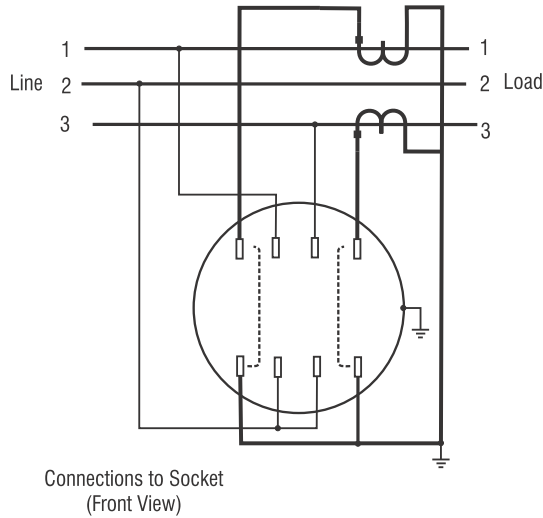
**Meter Internal Wiring  
(Front View)**



Must use  
5S adapter



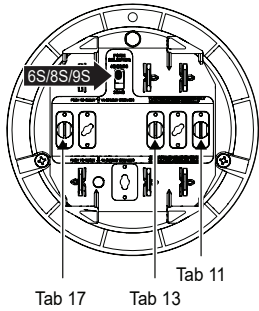
Remember to  
remove tab 17



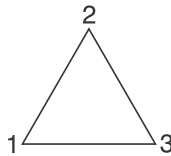
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S (3Δ 2CT 2PT)

**ST-3/XT3  
Rear view**

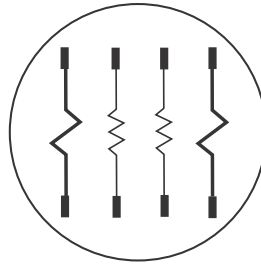


**Three-phase  
three-wire delta  
with two CTs  
and two PTs**



240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

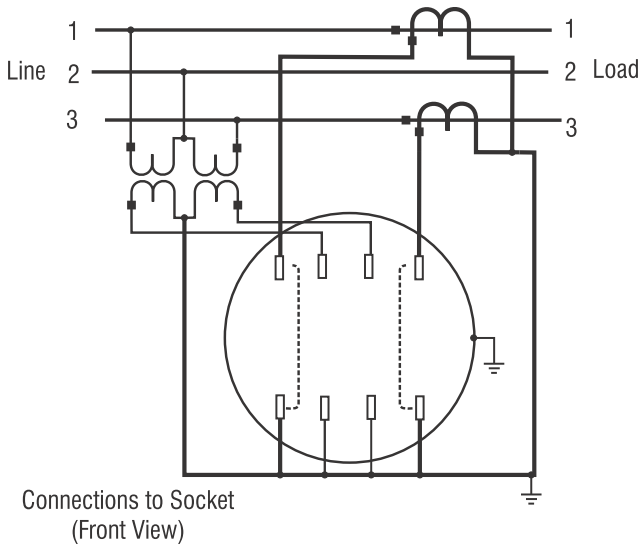
**Form 5S**



Meter Internal Wiring  
(Front View)



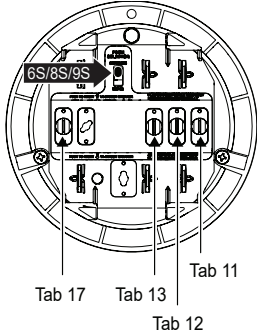
Must use  
5S adapter



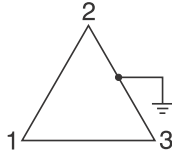
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 5S (4Δ 2CT)

**ST-3/XT3  
Rear view**

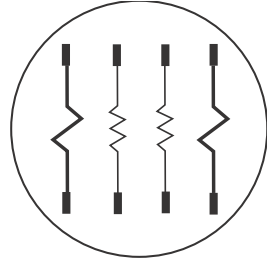


**Three-phase  
four-wire delta with  
two equal-ratio CTs**



240 volts: 1 to 2, 2 to 3, 3 to 1  
120 volts: 2 to neutral, 3 to neutral  
208 Volts: 1 to neutral

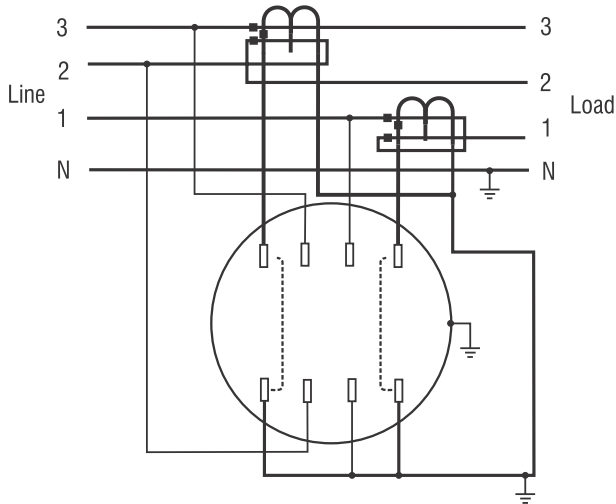
**Form 5S**



**Meter Internal Wiring  
(Front View)**



*Must use  
5S adapter*

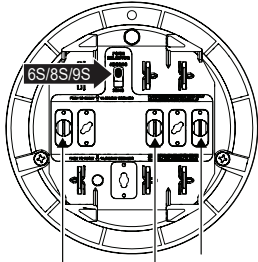


**Connections to Socket  
(Front View)**

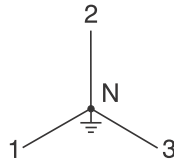
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S (4Y 3CT)

**ST-3/XT3  
Rear view**

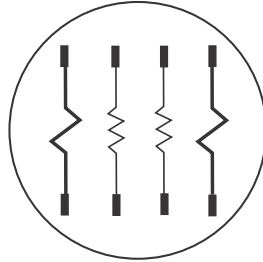


**Three-phase  
four-wire wye  
with three CTs**

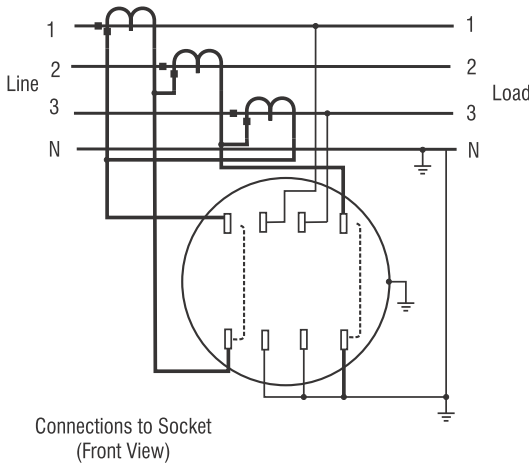


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**Form 5S**



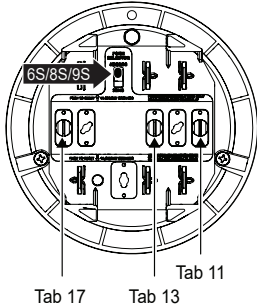
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

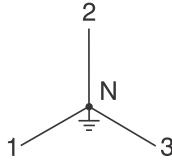
# Form 5S (4Y 2CT)

**ST-3/XT3  
Rear view**



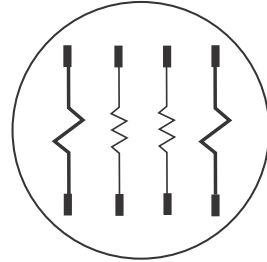
Must use  
5S adapter

**Three-phase  
four-wire wye with  
two equal-ratio CTs**

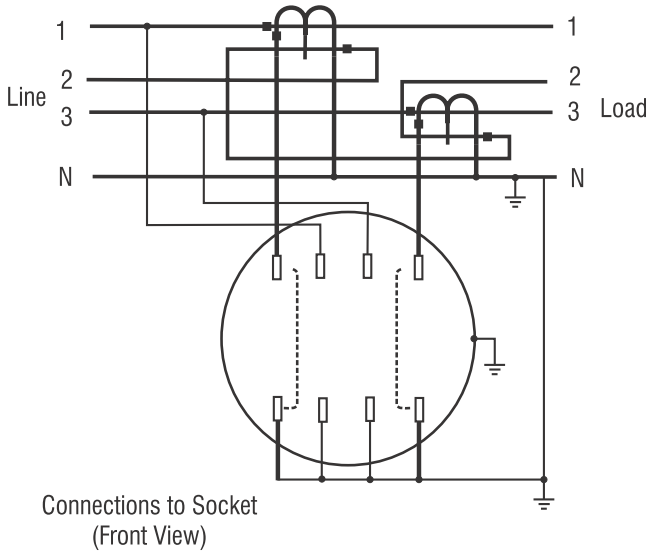


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**Form 5S**



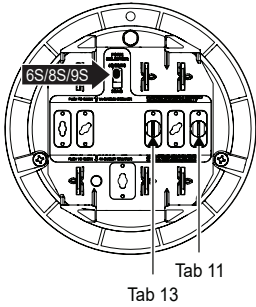
Meter Internal Wiring  
(Front View)



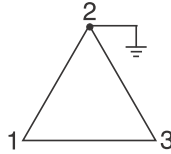
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S, 35S & 45S Fitzall™ (3Δ 2CT)

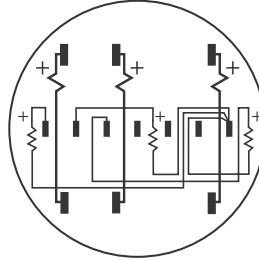
**ST-3/XT3  
Rear view**



**Three-phase  
three-wire delta  
with two CTs**

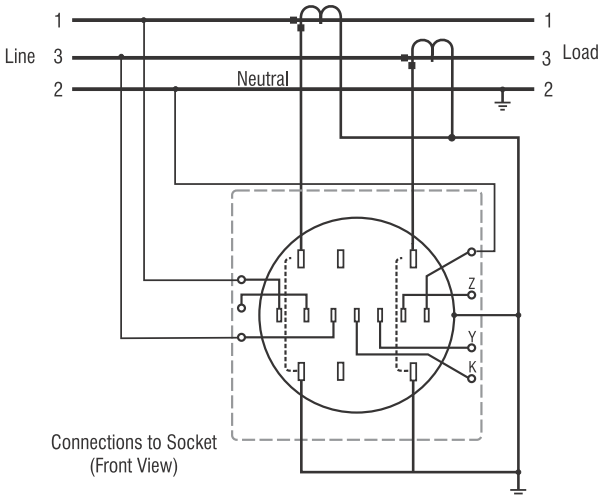


**FITZALL Form  
5S, 45S**



**Meter Internal Wiring  
(Front View)**

**!** Remember to remove tab 17

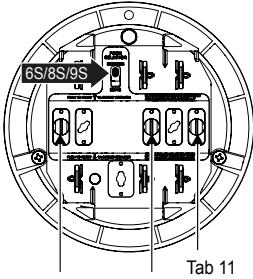


**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.



## Form 5S, 35S & 45S Fitzall™ (3Δ 2CT 2PT)

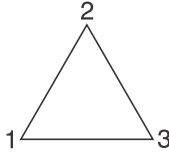
**ST-3/XT3  
Rear view**



Tab 17 Tab 13

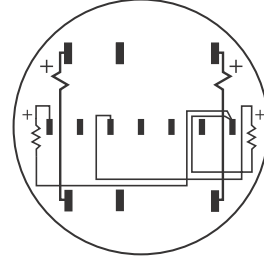
Tab 11

**Three-phase  
three-wire delta  
with two CTs  
and two PTs**

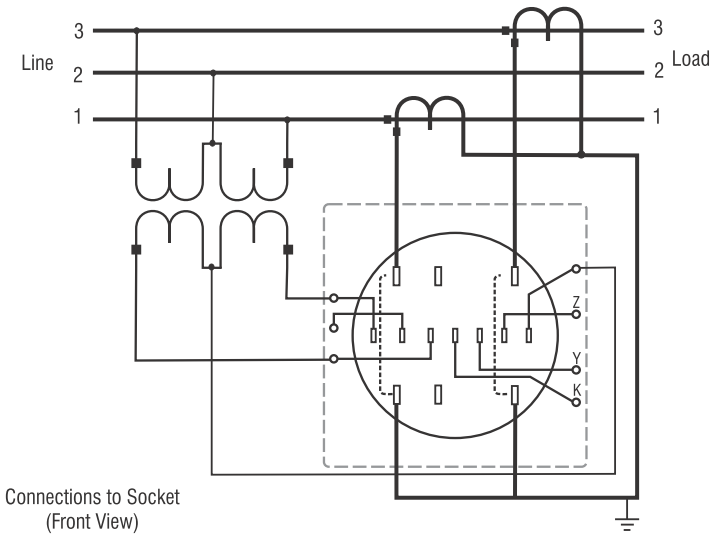


240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

**FITZALL Form  
5S, 35S, 45S**



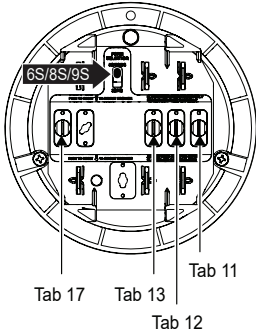
Meter Internal Wiring  
(Front View)



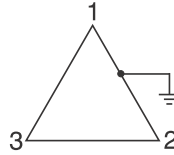
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S, 35S & 45S Fitzall™ (4Δ 2CT)

**ST-3/XT3  
Rear view**

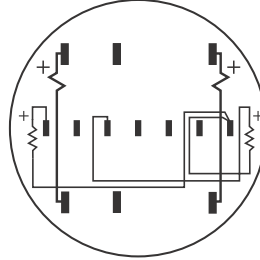


**Three-phase  
four-wire delta  
with two CTs**

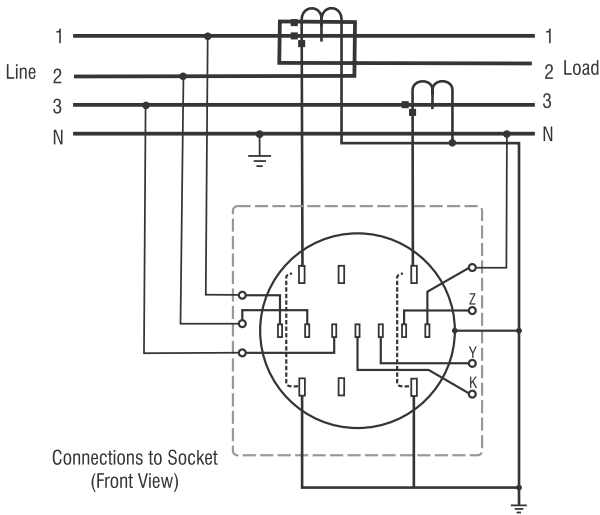


240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

**FITZALL Form  
5S, 45S**



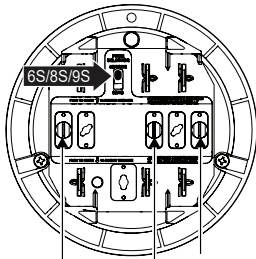
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

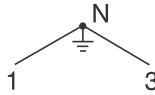
## Form 5S, 35S & 45S Fitzall™ (N 2CT)

**ST-3/XT3  
Rear view**



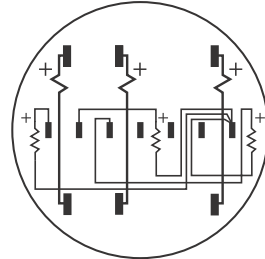
Tab 17      Tab 13      Tab 11

**Three-wire network  
with two CTs**

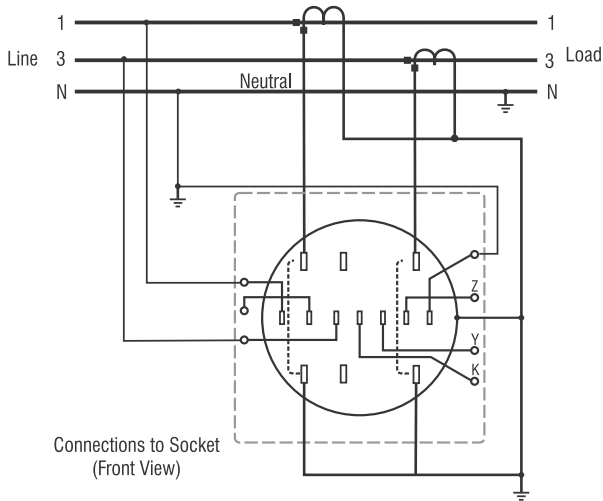


120 volts line-to-neutral  
208 volts line-to-line

**FITZALL Form  
5S, 35S, 45S**



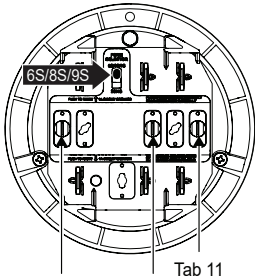
Meter Internal Wiring  
(Front View)



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

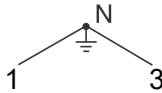
# Form 5S, 35S & 45S Fitzall™ (N 2CT 2PT)

**ST-3/XT3  
Rear view**



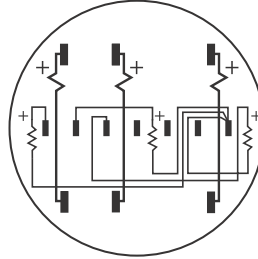
Tab 17      Tab 13      Tab 11

**Three-wire network  
with two CTs  
and two PTs**

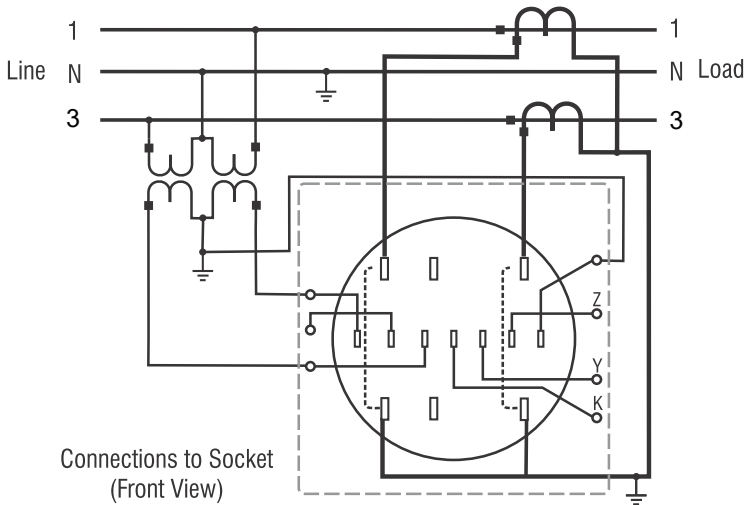


120 volts line-to-neutral  
208 volts line-to-line

**FITZALL Form  
5S, 35S, 45S**



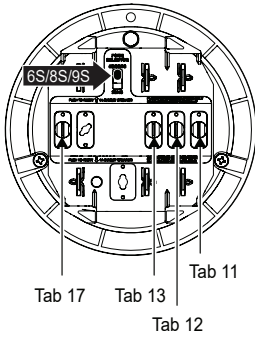
Meter Internal Wiring  
(Front View)



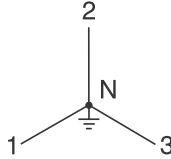
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 5S, 35S & 45S Fitzall™ (4Y 2CT 2PT)

**ST-3/XT3  
Rear view**

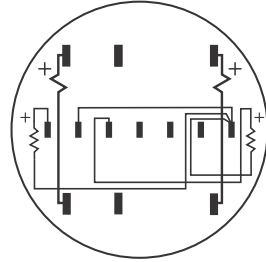


**Three-phase  
four-wire wye  
with two CTs  
and two PTs**

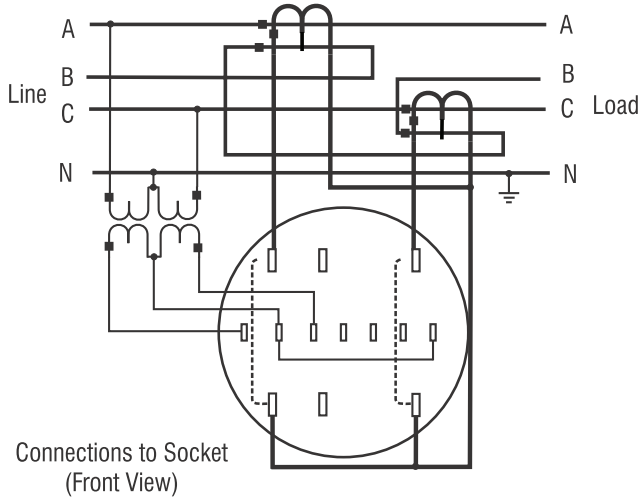


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**FITZALL Form  
5S, 35S, 45S**



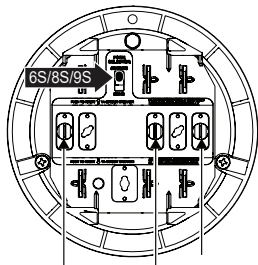
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

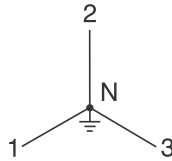
## Form 5S, 35S & 45S Fitzall™ (4Y 2CT)

**ST-3/XT3  
Rear view**



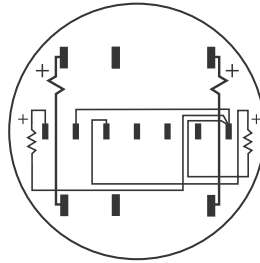
Tab 17      Tab 13

**Three-phase  
four-wire wye  
with two  
equal-ratio CTs**

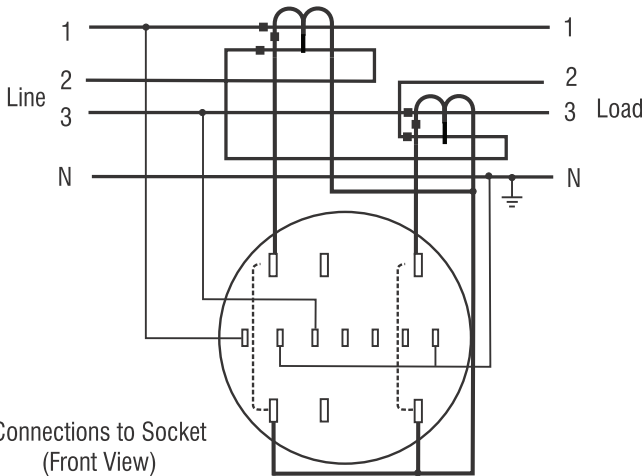


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**FITZALL Form  
5S, 35S, 45S**



**Meter Internal Wiring  
(Front View)**

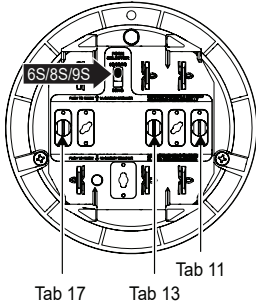


**Connections to Socket  
(Front View)**

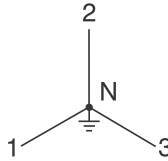
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 5S, 35S & 45S Fitzall™ (4Y 3CT 2PT)

**ST-3/XT3  
Rear view**

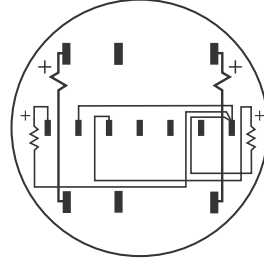


**Three-phase  
four-wire wye  
with three CTs  
and two PTs**

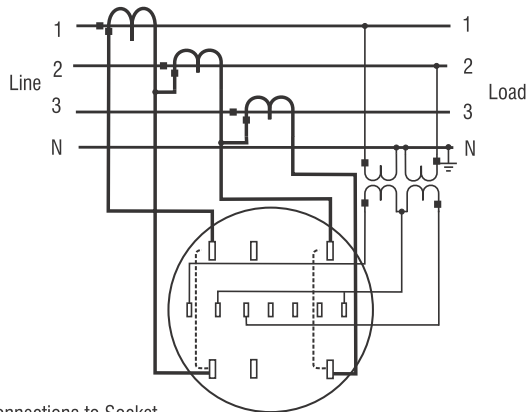


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**FITZALL Form  
5S, 35S, 45S**



**Meter Internal Wiring  
(Front View)**

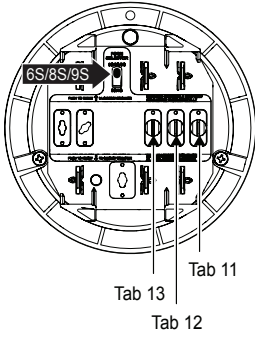


**Connections to Socket  
(Front View)**

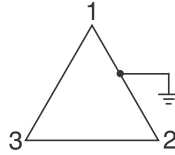
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 5S, 35S & 45S Fitzall™ (4Δ 3CT)

**ST-3/XT3  
Rear view**

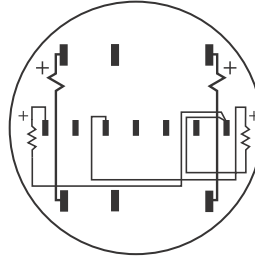


**Three-phase  
four-wire delta  
with three CTs**

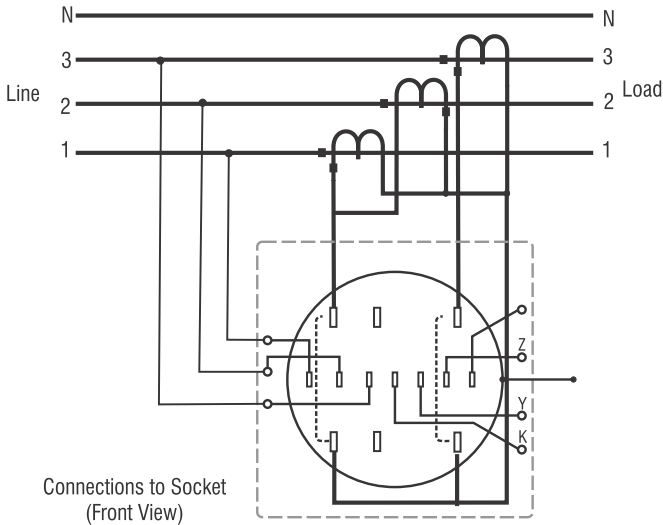


240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

**FITZALL Form  
5S, 45S**



**Meter Internal Wiring  
(Front View)**

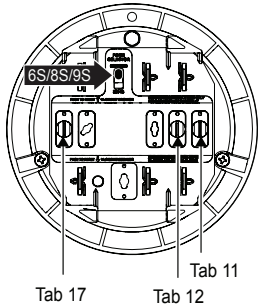


**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

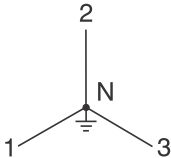


# Form 6S (36S, 46S) (4Y 3CT)

**ST-3/XT3  
Rear view**

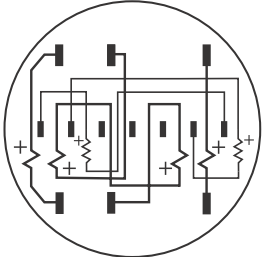


**Three-phase  
four-wire wye  
with three CTs**

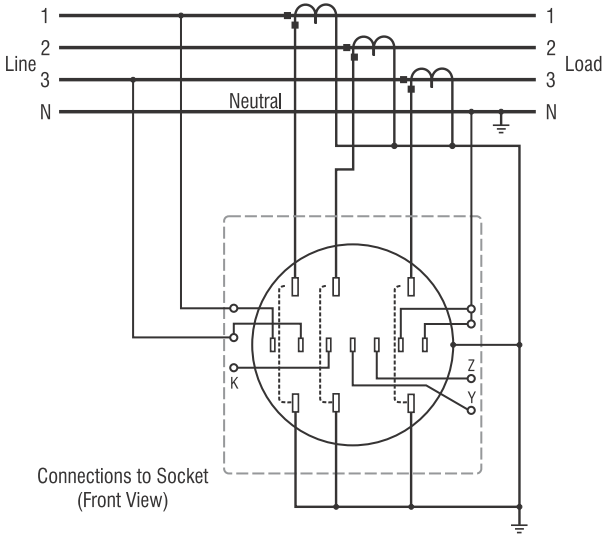


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**Form 6S**



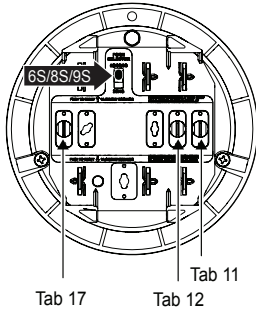
**Meter Internal Wiring  
(Front View)**



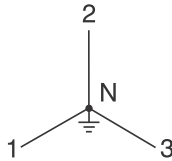
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 6S (36S, 46S) (4Y 3CT 2PT)

**ST-3/XT3  
Rear view**

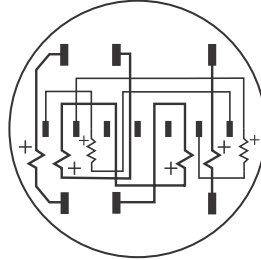


**Three-phase  
four-wire wye  
with three CTs  
and two PTs**

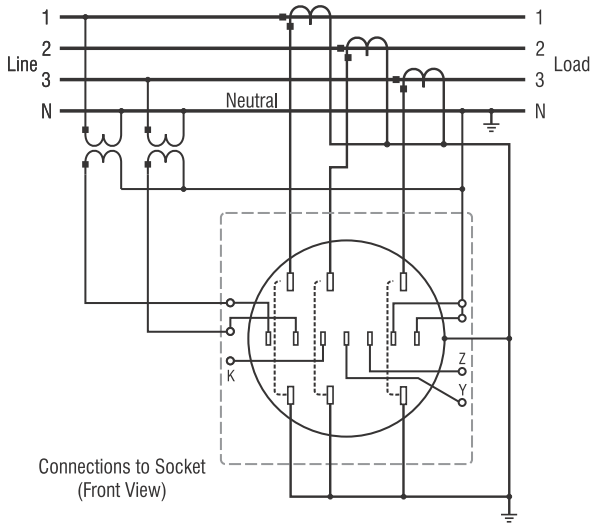


For high voltages.  
The VTs apply reduced  
voltages to the meter.

**Form 6S**



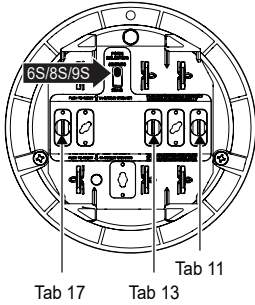
**Meter Internal Wiring  
(Front View)**



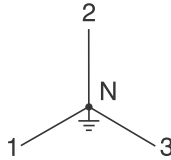
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 6S (36S, 46S) Fitzall™ (4Y 3CT)

**ST-3/XT3  
Rear view**

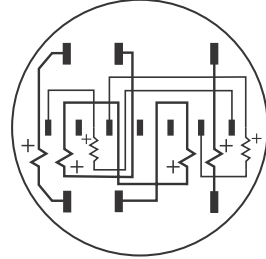


**Three-phase  
four-wire wye  
with three CTs**

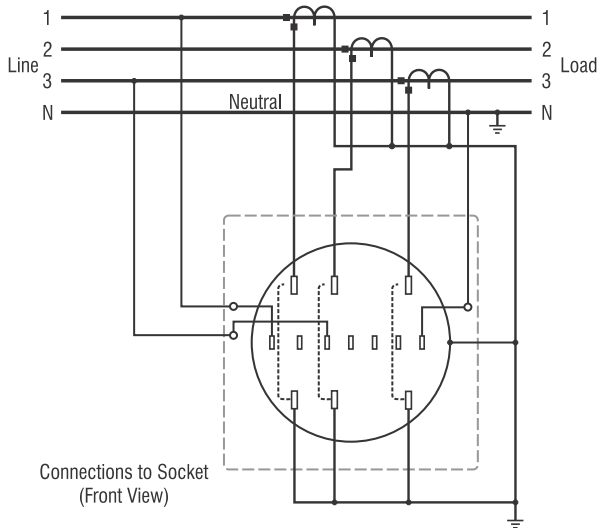


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**FITZALL  
Form 6S**



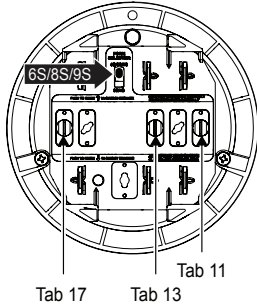
**Meter Internal Wiring  
(Front View)**



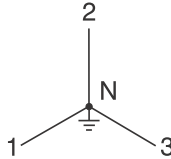
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 6S (36S, 46S) Fitzall™ (4Y 3CT 2PT)

**ST-3/XT3  
Rear view**

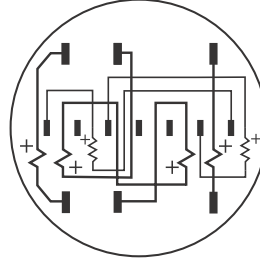


**Three-phase  
four-wire wye  
with three CTs  
and two PTs**

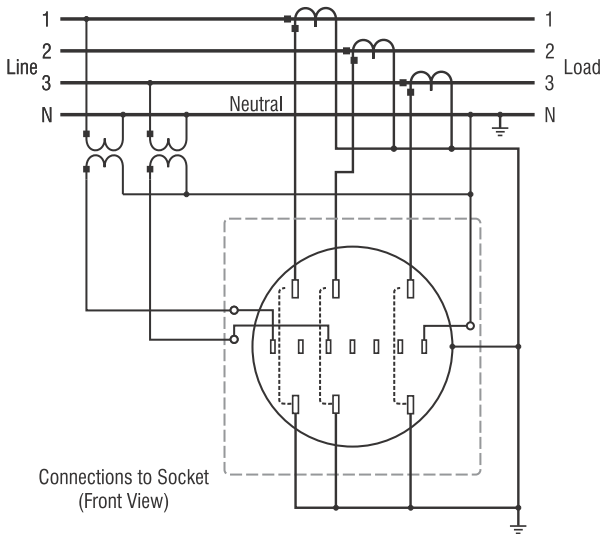


For high voltages.  
The VTs apply reduced  
voltages to the meter.

**FITZALL  
Form 6S**



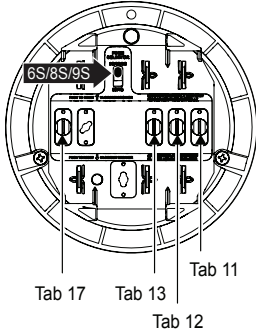
**Meter Internal Wiring  
(Front View)**



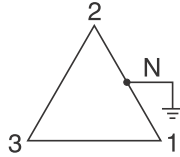
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries.  
Serious personal injury may result.

# Form 8S (4Δ 3CT)

**ST-3/XT3  
Rear view**

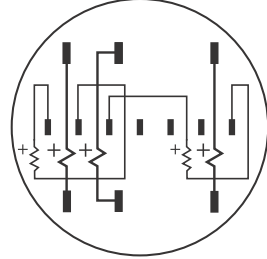


**Three-phase  
four-wire delta  
with three CTs**

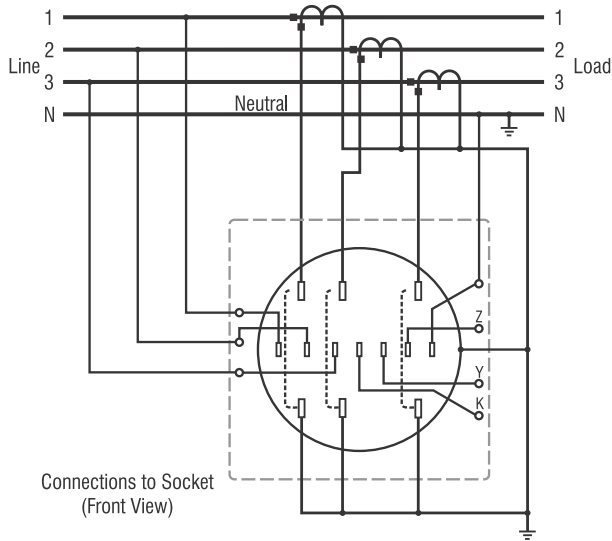


240 volts: 1 to 2, 2 to 3, 3 to 1  
120 volts: 1 to neutral, 2 to neutral  
208 volts: 3 to neutral

**Form 8S**



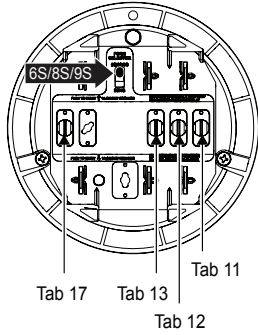
**Meter Internal Wiring  
(Front View)**



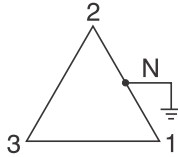
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 8S Fitzall™ (4Δ 3CT)

**ST-3/XT3  
Rear view**

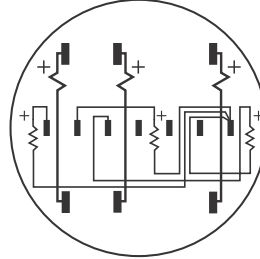


**Three-phase  
four-wire delta  
with three CTs**

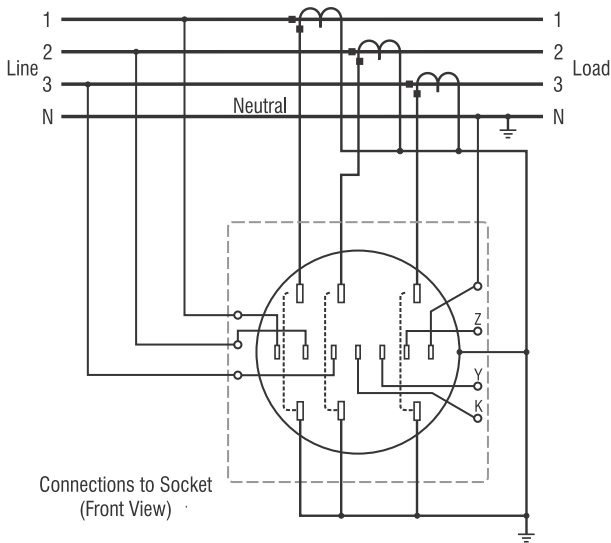


240 volts: 1 to 2, 2 to 3, 3 to 1  
120 volts: 1 to neutral, 2 to neutral  
208 volts: 3 to neutral

**FITZALL  
Form 8S**



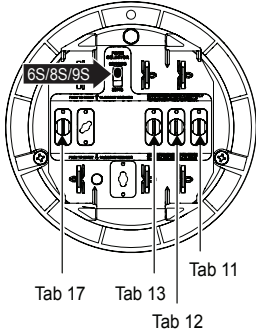
**Meter Internal Wiring  
(Front View)**



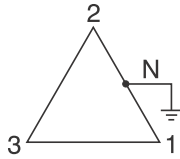
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## Form 9S (4Δ 3CT)

**ST-3/XT3  
Rear view**

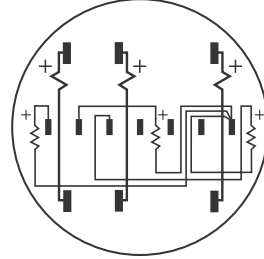


**Three-phase  
four-wire delta  
with three CTs**

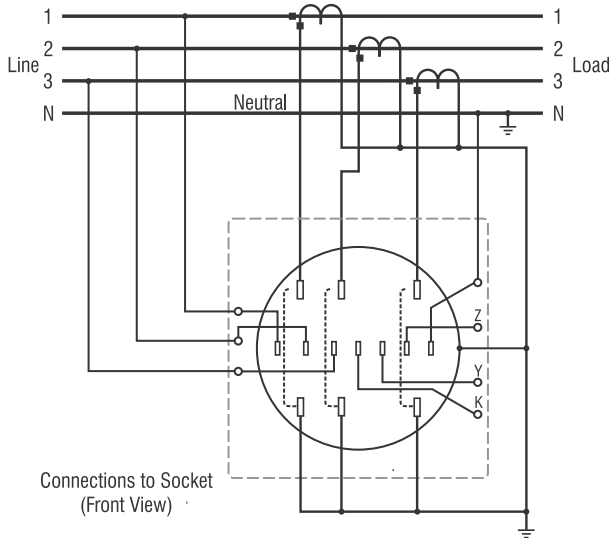


240 volts: 1 to 2, 2 to 3, 3 to 1  
120 volts: 1 to neutral, 2 to neutral  
208 volts: 3 to neutral

**Form 9S**



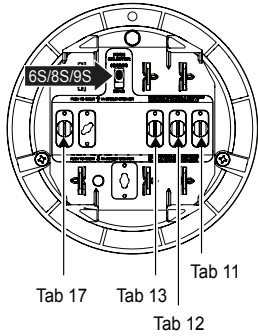
**Meter Internal Wiring  
(Front View)**



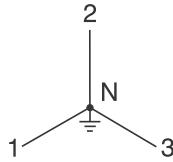
**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 9S (4Y 3CT)

**ST-3/XT3  
Rear view**

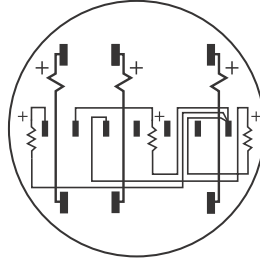


**Three-phase  
four-wire wye  
with three CTs**

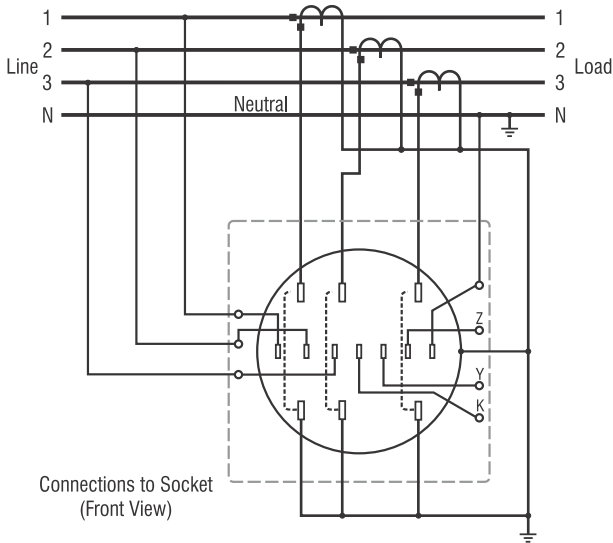


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**Form 9S**



**Meter Internal Wiring  
(Front View)**

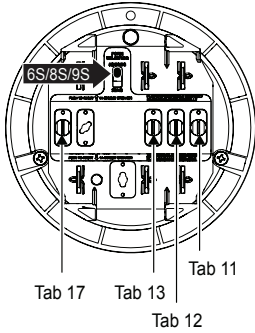


**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

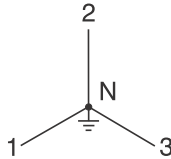


## Form 9S (4Y 3CT 3PT)

**ST-3/XT3  
Rear view**

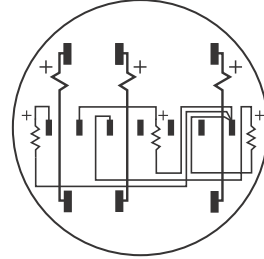


**Three-phase  
four-wire wye  
with three CTs  
and three PTs**

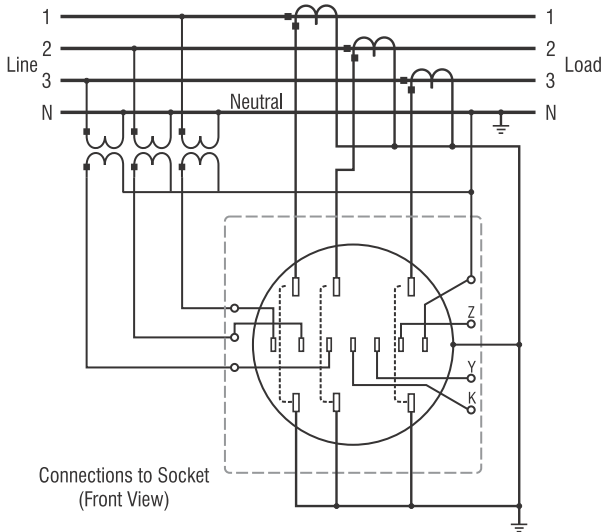


For high voltages.  
The VTs apply reduced  
voltages to the meter.

**Form 9S**



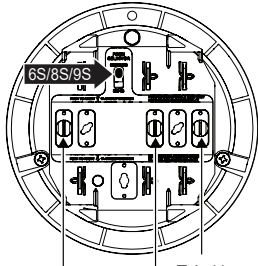
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 35S (3Δ 2CT)

**ST-3/XT3  
Rear view**



Tab 17      Tab 13      Tab 11

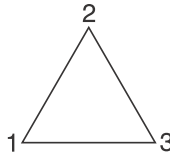


**Must use  
5S adapter**



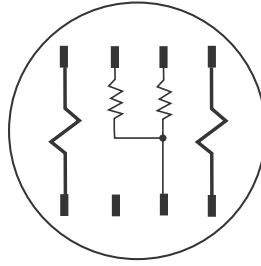
**Remember to  
remove tab 17**

**Three-phase  
three-wire delta  
with two CTs**

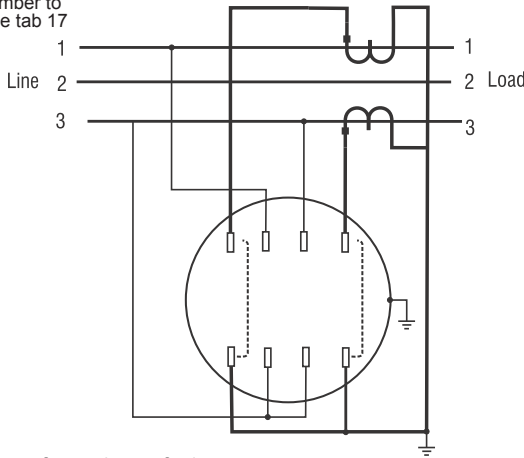


240 volts line-to-line  
or 480 volts line-to-line  
or 120 volts line-to-line

**Form 35S**



**Meter Internal Wiring  
(Front View)**

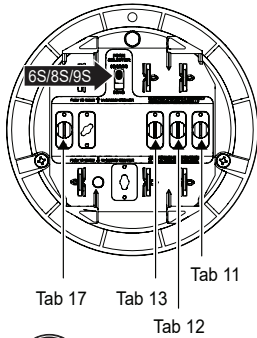


**Connections to Socket  
(Front View)**

**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

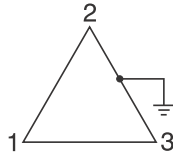
# Form 45S (4Δ 2CT)

**ST-3/XT3  
Rear view**



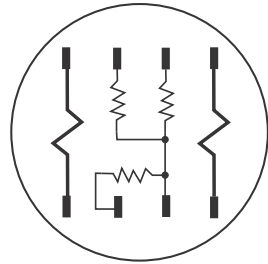
Must use  
5S adapter

**Three-phase  
four-wire delta  
with two  
equal-ratio CTs**

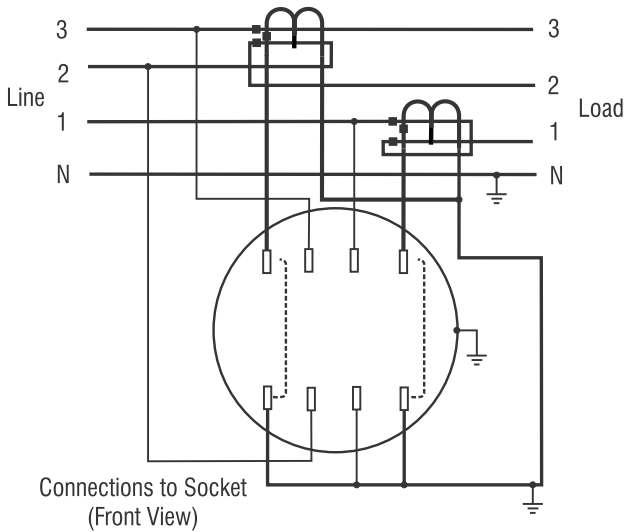


240 volts: 1 to 2, 2 to 3, 3 to 1  
120 volts: 2 to neutral, 3 to neutral  
208 Volts: 1 to neutral

**Form 45S**



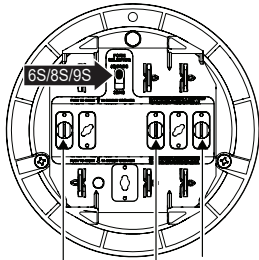
**Meter Internal Wiring  
(Front View)**



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

# Form 45S (4Y 2CT 2PT)

**ST-3/XT3  
Rear view**

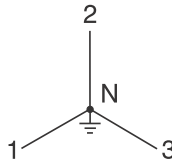


Tab 17      Tab 13      Tab 11



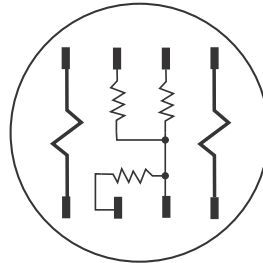
Must use  
5S adapter

**Three-phase  
four-wire wye with  
two equal-ratio CTs  
and two PTs**

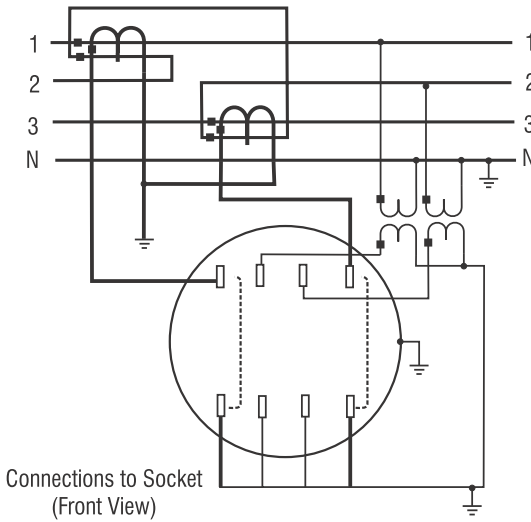


208 volts line-to-line  
120 volts line-to-neutral  
or  
480 volts line-to-line  
277 volts line-to-neutral

**Form 45S**



Meter Internal Wiring  
(Front View)



**Caution:** Never open a circuit-closing device if current is flowing in either CT primaries. Serious personal injury may result.

## CHAPTER 2: Compatible Meter Forms Installations



**PROBEWELL**  
MAKING FIELD TESTING EASY

**We believe that field testers should be easy to use, portable and safe.**

Probewell generates added value for electric utility companies and their customers by means of innovative metering solutions that provide accurate data-driven insight as well as flexibility and efficiency.

Through our expertise and constant innovation, we develop cutting-edge field testing technologies that deliver a premier solution for utility companies when it comes to quality, ease of use, sturdiness and customer satisfaction.

Leverage proven technologies to streamline your testing.

### **Probewell Lab Inc.**

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