

## ACTIVE & REACTIVE POWER



T25-WB is a combined watt and var electronic transducer utilising the time-division (TDM) principle of computing the AC active & reactive power input to produce two corresponding DC output value from a single unit. , available for Unidirectional and Bidirectional.

### Models

T25-WB12	-	3ph 3w balanced load watt & var transducer
T25-WB13	-	3ph 4w balanced load watt & var transducer
T25-WB20	-	3ph 3w unbalanced load watt & var transducer
T25-WB30	-	3ph 4w unbalanced load watt & var transducer

### General Specifications

#### Test voltage

4kV AC rms 1 min between terminal/case  
2kV AC rms 1 min between input/output/  
auxiliary according to IEC801-4

#### Impulse test

5kV, 1.2/50µs according to IEC 255-4

#### Noise test

2.5kV, 1MHz according to IEC 255-22-1

#### Radio Screening

RFI degree complies with VDE0875

#### Working condition

-5 °C to 60 °C, 20-99% RH

#### applicable

non condensing

#### Storage condition

-20 °C to 70 °C, 20-99% RH

non-condensing

#### Humidity

JWE operation class according to  
DIN 40040

#### Stability

100 ppm / °C, < 0.2% drift per year,  
non cumulative

#### Magnetic effect

< 0.05% change 1M centre 100AT,  
synchronized with line frequency

#### Aux power effect

< 0.005% per volt change

### Technical Specifications

#### Input

##### Voltage

150V, 300V & 500V

415V,  $\pm 25\%$

##### burden

0.2VA

##### permissible overload

1.25 X rated current continuous,

##### Current

1A, 5A

##### burden

0.3VA / element

##### permissible overload

2 X rated continuous,

10 X rated - 10 sec,

25 X rated - 2 sec,

50 X rated - 1 sec,

##### Frequency

50 or 60 Hz  $\pm 2$ Hz

#### Output

0...1 mA into 0-10k $\Omega$

0...5 mA into 0-2k $\Omega$

0...10mA into 0-1k $\Omega$

0...20 mA into 0-500 $\Omega$

4...20 mA into 0-500 $\Omega$

0...1V, min 200 $\Omega$

0...5V, min 1k $\Omega$

0...10V, min 2k $\Omega$

1...5V, min 1k $\Omega$

2...10V, min 2k $\Omega$

(Other ranges on request)

#### Accuracy (23 $\pm 5$ °C)

$\pm 0.2\%$ (avg.)  $\pm 0.4\%$  (RMS)  
according to IEC 688-1

#### Output load

current - 10V drop max.

voltage - 5mA drive max.

#### Ripple Factor

less than 0.5% p-p

#### Response time

<400ms

#### Output Adjustment

span & zero adjustments where

### Auxiliary Power Supply

#### Standard Range

110V or 220V  $\pm 20\%$  50/60Hz,

#### Options

self power and other AC power supplies  
models available at additional costs

### Physical Specifications

#### Dimensions

100W x 78H x 116D mm

#### Enclosure code

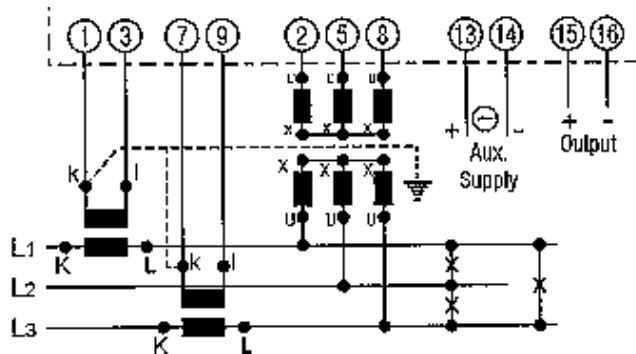
IP 50 (case)

IP 30 (terminal)

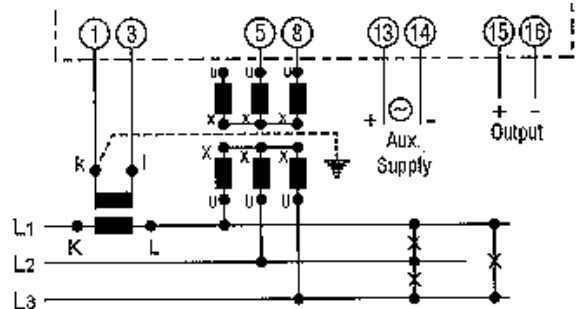
according to IEC 529/DIN40050

## Wiring Connections

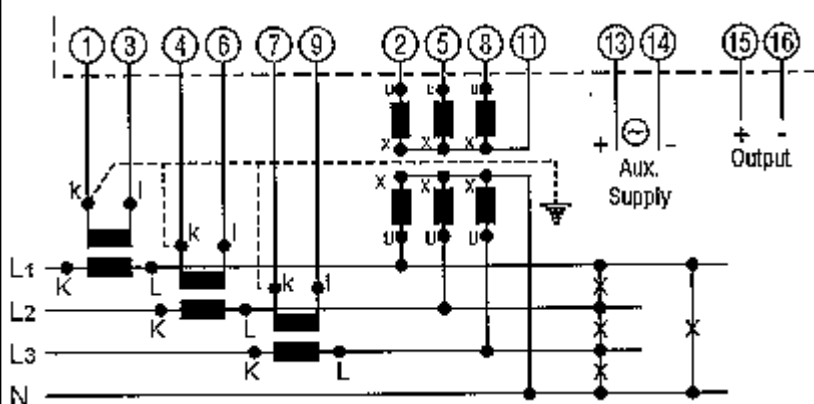
T25-WB..



**3Phase 3 or 4Wire Balanced Load  
T25-B12/B13**



**3Phase 3Wire Unbalanced Load  
T25-B20**



**3Phase 4Wire Unbalanced Load  
T25-B30**

- ★ Voltage Transformers & Auxillary Power Supply are shown where applicable.
- ★ Current Transformer's primary windings are designated in capital K & L which are also commonly represented as P1 & P2 respectively. Its secondary windings are termed k & l which are respectively similar to S1 & S2.

## Dimensional Drawings

