

ACTIVE POWER



Time-division-multiplication (TDM) principle of computing the AC power inputs to a corresponding DC output value. The measurements of active power of single or three phase balanced or unbalanced systems, are presisely converted to a highly accurate linear DC voltage or current output.

Model

T25-W10 - single phase watt transducer

T25-W12 - 3ph 3w balanced load watt transducer
 T25-W13 - 3ph 4 w balanced load watt transducer
 T25-W20 - 3ph 3w unbalanced load watt transducer
 T25-W30 - 3ph 4w unbalanced load watt transducer

General Specifications

Test voltage

4kV AC rms 1min between terminal/case 2kV AC rms 1min between input/output/auxillary 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 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, $< \pm$ 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

69V (3ph 4w), 120V, 240V or 415V, \pm 25%

Burden

0.2VA

permissible overload

1.25 X rated voltage continuous

Current

1A, 5A

Burden

0.3VA typically

permissible overload

2 X rated cotinuous,

10 X rated - 10secs, 25 X rated - 2 secs, 50 X rated - 1 sec.

Frequency

50 or 60 Hz, ± 2hz

Output

Output ranges

 $0 \dots 1 \text{ mA into } 0\text{--}10\text{k}\Omega$

 $0 \dots 5$ mA into 0-2k $\!\Omega$

0 ... 10mA into 0-1kΩ

 $0 \dots 20$ mA into $0\text{-}500\Omega$ $4 \dots 20$ mA into $0\text{-}500\Omega$

 $0 \dots 1V$, min 200Ω

0 ... 5V, min 1kΩ

0 ... 10V, min 2kΩ

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

 $2 \dots 10V$, min $2k\Omega$ (other ranges on request)

Accuracy (23 ± 5 °C)

 \pm 0.2 % RO 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 applicable

Auxillary Power Supply

Standard Range

110V, 220V \pm 20% 50/60Hz, <7VA

Options

self power and other AC power supplies up to 440V ac on request. DC powered models available at additional costs

Physical Specifications

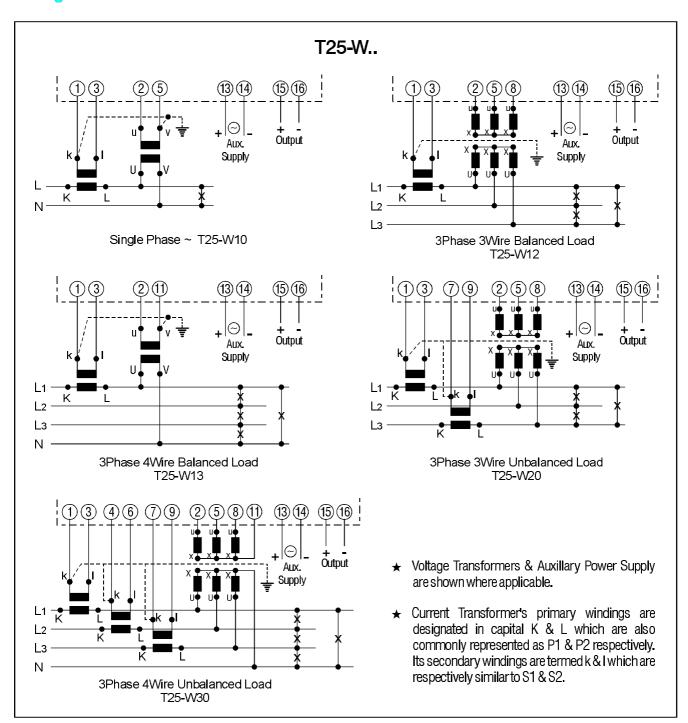
Dimensions

100W x 78H x 116D mm

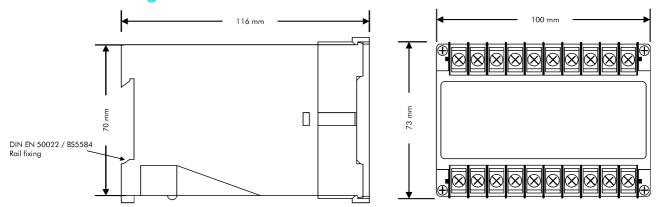
Enclosure code

IP 50 (case)
IP 30 (terminal)
according to IEC 529/DIN40050

Wiring Connections



Dimensional Drawings



11M09JP7

The technical specifications & data given may be ammended without prior notice due to continuous developments of our products.