

VOLTAGE



DAT 25 voltage transducers convert AC input into load independent DC current & voltage output signal. This signal is highly accurate & proportionally linear to the AC input. T25-V versions convert the AC sinusoidal waveforms to linear DC output calibrated to the RMS value.

Models

- T25-VS** - single phase self-powered voltage
- T25-VL** - single phase line-zero voltage
- T25-V3** - three phase voltage
- T25-VR** - single phase RMS voltage

General Specifications

Test voltage

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

Impulse test

5kV, 1.2/50 μ s 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

150V, 300V & 500V

Burden

0.3VA / element
1VA / element (for T25-VS)

permissible overload

1.25 X rated voltage continuouts

Frequency

50 or 60 Hz $\pm$ 2hz

Output

Output ranges

0 ... 1 mA into 0-10k Ω
0 ... 5 mA into 0-2k Ω
0 ... 10mA into 0-1k Ω
0 ... 20 mA into 0-500 Ω
4 ... 20 mA into 0-500 Ω

0 ... 1V, min 200 Ω
0 ... 5V, min 1k Ω
0 ... 10V, min 2k Ω
1 ... 5V, min 1k Ω
2 ... 10V, min 2k Ω
(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 applicable

Auxillary Power Supply

Standard Range

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

<3VA (for T25-VL & T25-VR)

<8VA (for T25-V3)

Options

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

Physical Specifications

Dimensions

T25-VS / T25-VL / T25-VR
45W x 78H x 116D mm

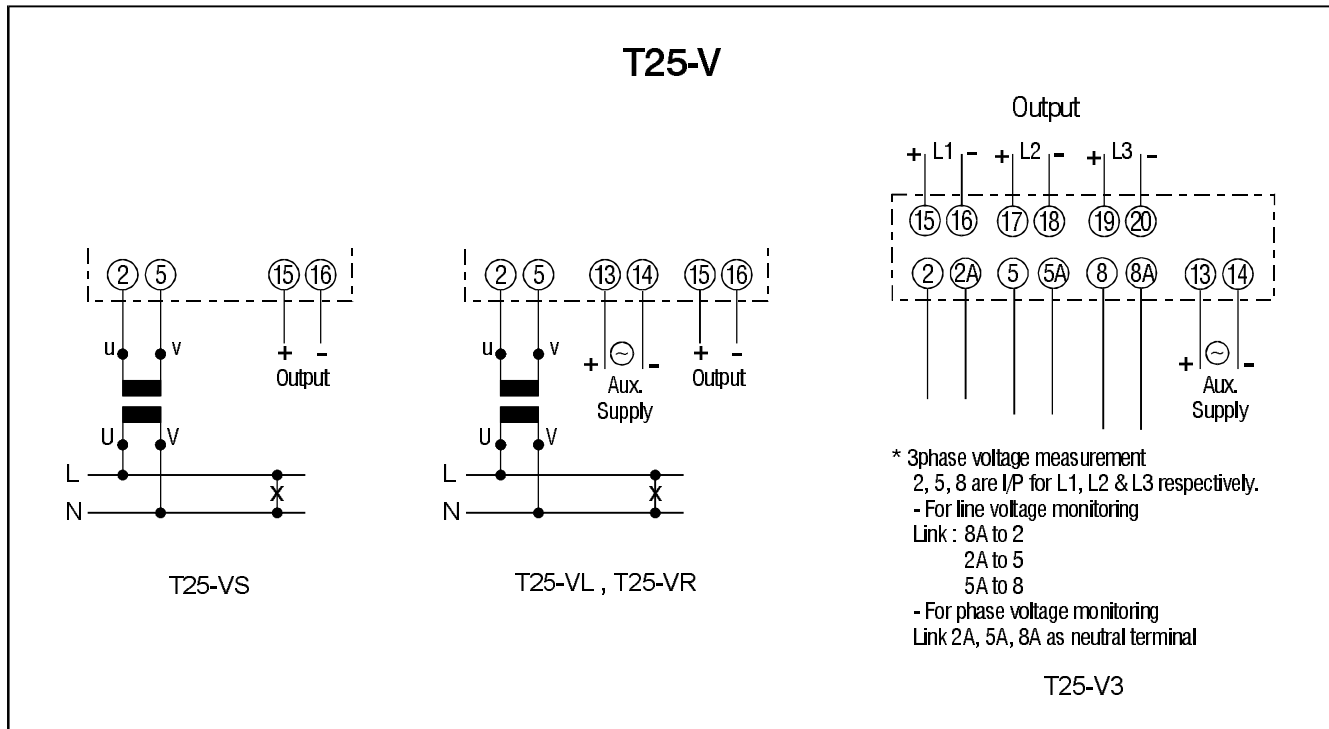
T25-V3

100W x 78H x 116D mm

Enclosure code

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

Wiring Connections



Dimensional Drawings

