DAT 25

POWER-LINE TRANSDUCERS

REACTIVE POWER

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

Models

T25-B12	-	3ph 3w balanced load var transducer
T25-B13	-	3ph 4w balanced load var transducer
T25-B20	-	3ph 3w unbalanced load var transducer
T25-B30	-	3ph 4w unbalanced load vart transducer

General Specfications

Test voltage
- 4kV rms 1min between terminal/case
- 2kV rms 1min between input/output/auxiliary according to IEC 801-4

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 ,< ± 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

Current
- 1A, 5A & 10A (or request)

Burden
- 0.3VA/element
- 1VA/element (for AS)

permissible overload
- 2X rated current continuous,
- 10X rated current - 10secs,
- 25X rated current - 2 secs,
- 50X rated current - 1 sec

Frequency
- 50 or 60 Hz ± 2hz

Output

Output ranges
- 0…1mA into 0-10kΩ
- 0…5mA into 0-2kΩ
- 0…10mA into 0-1kΩ
- 0…20mA into 0-500Ω
- 4…20mA into 0-500Ω

- 0…1V, min 200Ω
- 0…5V, min 1Ω
- 0…10V, min 2kΩ
- 1…5V, min 1kΩ
- 2…10V, min 2kΩ
- (or request)

Accuracy (23 ± 5 °C)
- ± 0.5% (avg.) ±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

Auxiliary power supply

Standard Range
- 110,115,125,220V ± 20% 50/ 60Hz,

- <3VA (for AL)
- <8VA (for 3A)

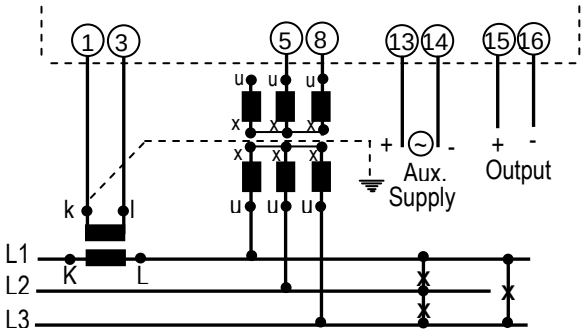
Options
- self power and other AC power supplies up to 440V ac on request.
- DC powered models available at additional costs

Physical Specifications

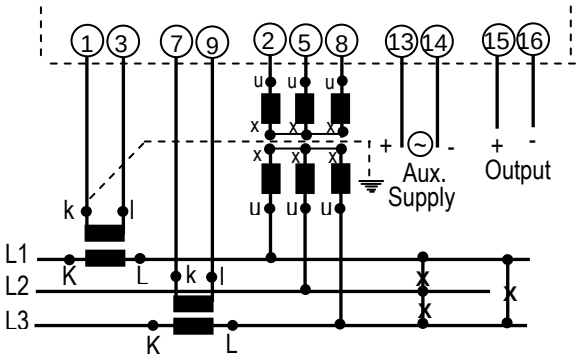
Dimensions
- AS/AL
  - 45Wx78Hx116D mm
- 3A
  - 100Wx78Hx166D mm

Enclosure code
- IP 50 (case)
- IP 30 (terminal)
- IEC 529/DIN 40050

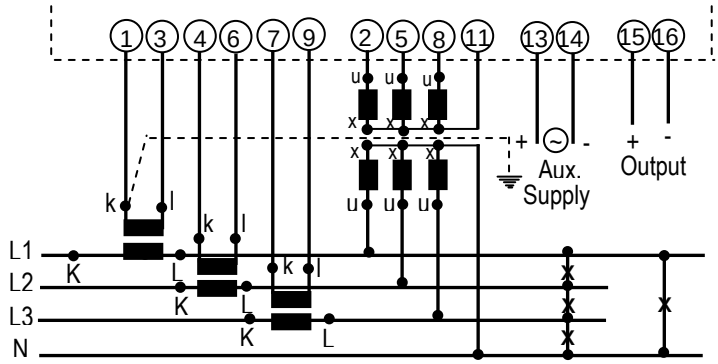
T25-B



3Phase 3 or a Wire Uabalaced Load
T25-B12 / B13



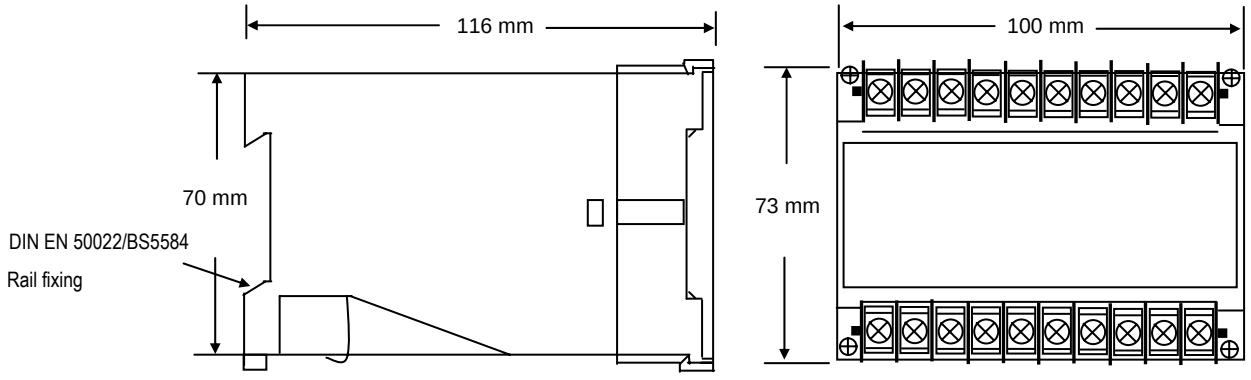
3Phase 3 Wire Uabalaced Load
T25-B20



3Phase 4 Wire Uabalaced 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 termen k & l which are Respectively similar to S1 & S2.

Dimensional Drawings



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