

REACTIVE POWER & ENERGY



The T25-BE are electronic transducers converting reactive power and energy in three phase balanced or unbalanced systems to simultaneously produce an analogue DC output for instantaneous power signal and a digital pulse output for cumulative energy signal. Available for Unidirectional and Bi-directional.

Models

T25-BE12	-	3ph 3w bal. load watt & var-hour transducer
T25-BE13	-	3ph 4w bal. load watt & var-hour transducer
T25-BE20	-	3ph 3w unbalanced load var & var -hour transducer
T25-BE30	-	3ph 4w unbalanced load var & var -hour transducer

General Specifications

Test voltage

4kV AC rms 1min between terminal/case
2kV AC rms 1 min 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

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 continuous,
10 X rated - 10 sec,
25 X rated - 2 sec,
50 X rated - 1sec,

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% RO according to IEC 688-1

Output load

current - 10V drop max.
voltage - 5mA drive max.

Output rating (digital)

Open collector type - max. 30V/30mA;
reed relay type - max. 50V/40mA
export pulse optional

Ripple Factor

less than 0.5% p-p

Response time

< 400ms

Output Adjustment

span & zero adjustments where applicable

Auxiliary Power Supply

Standard Range

110V, 220V \pm 20% 50/60Hz, < 4VA

Options

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

Physical Specifications

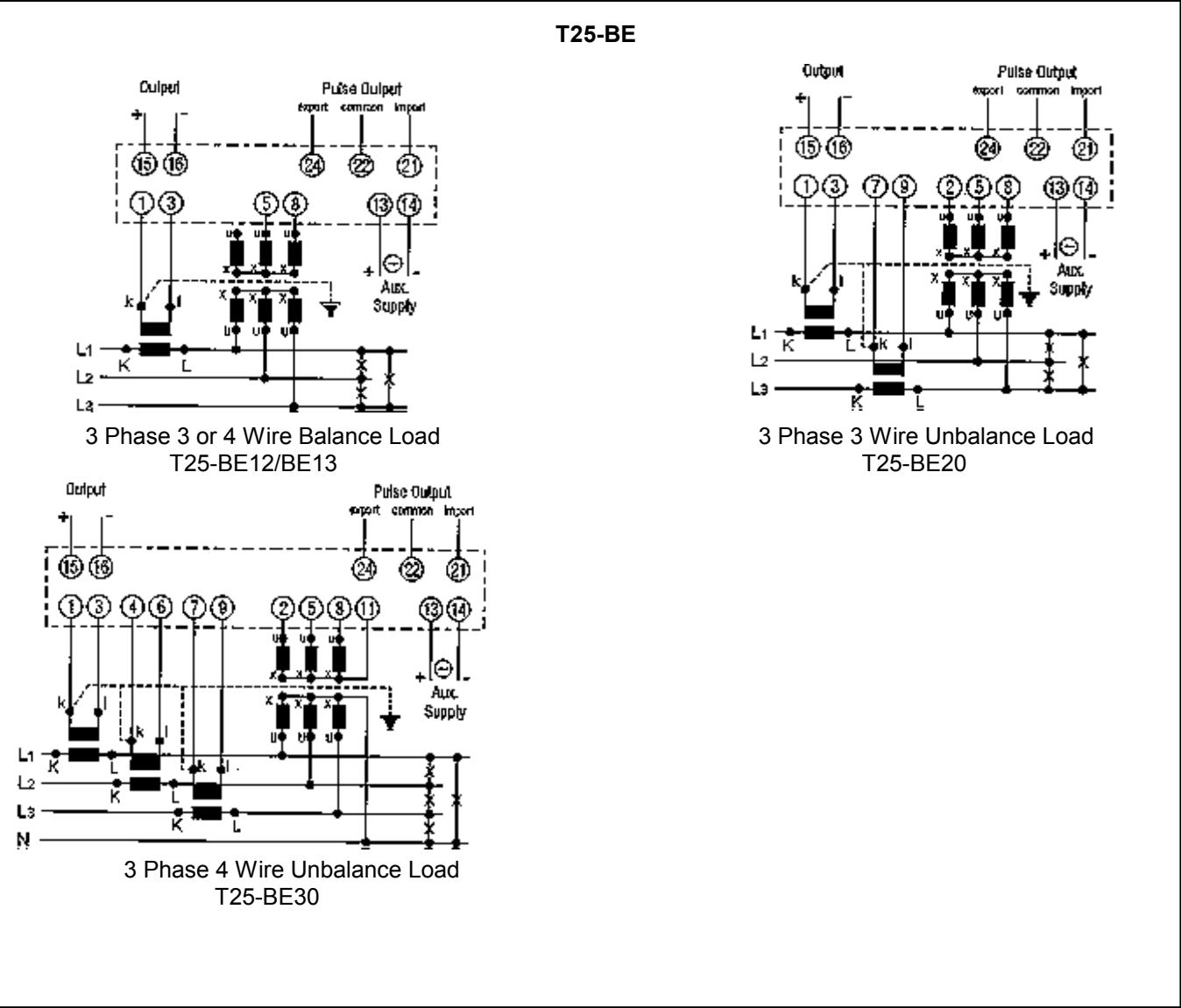
Dimensions

100W x 78H x 116D mm

Enclosure code

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

Wiring Connections



Dimensional Drawings

