

# EXtra<sup>®</sup> Transformer Ex e

3-phase dry type AN, heat impregnated, class F. Vector group Dyn11 (standard), multi tapping possible on both primary and secondary sides



A series of Ex e 3-phase transformers in sizes from 2,5 kVA and up to 275 kVA, voltage range from 115 V up to 11000 V and with possibility for multi tapping of both primary and secondary side.

EXtra<sup>®</sup> transformers are equipped with PT100 sensors in each winding to avoid overheating. The PT100 sensors can be connected to relays, which safely isolates the transformer in the event of faults or the winding temperatures are too high. The monitoring equipment can be a part of the delivery. Monitoring equipment will be mounted on the outside of the cabinet.

By using Ex e transformer, the weight is reduced by 60% compared to Ex d enclosures and reduce the maintenance time compared to oil cooled transformers.

- Suitable for harsh environments incl Oil&Gas installations offshore and tropical humidity
- Ambient Temperature  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
- Natural air cooling
- Winding temperature monitoring
- Low maintenance
- High performance/ low downtime
- Pockets for forklift/ lifting lugs
- 30 years expected life time

**Technical data**

Size range	12,5kVA to 275kVA (Natural air circulation)
Primary	3x115 to 3x11000 VAC
Secondary	3x115 to 3x11000 VAC
Temperature monitoring	Ex e Pt100 sensors in each winding

**Technical data**

Marking	II2G Ex eb IIC T3 / Ex eb IIC T3
Temperature	-40°C ≤ Ta ≤ +60°C
Certification	ATEX II 2G Ex eb IIC T3 Gb IECEX Ex eb IIC T3 Gb
Material	Stainless steel 316L
IP rating	IP66
Ambient Temperature	-40°C to +60°C
Approvals	ATEX, IECEX
Zone	1 & 2
Standards EN/IEC	60079-0, 60079-7

**Variables**

Type	Capacity	Primary	Secondary	Dimensions (WxHxD)	Weight (approx.)	Ambient Temperature
LV/LV	12,5 kVA	110-690 V	110-690 V	65x80x65 cm	250 kg	-40°C to +60°
LV/LV	31,5 kVA	110-690 V	110-690 V	100x110x57 cm	385 kg	-40°C to +45°
LV/LV	45 kVA	110-690 V	110-690 V	120x170x80 cm	490 kg	-20°C to +60°
LV/LV	75 kVA	110-690 V	110-690 V	120x170x80 cm	760 kg	-20°C to +60°
LV/LV	120 kVA	110-690 V	110-690 V	120x170x80 cm	1100 kg	-40°C to +52°
HV/LV	30 kVA	4,16 kV	110-690 V	100x110x57 cm	570 kg	-40°C to +40°
HV/LV	40 kVA	6,6 kV	110-690 V	95x130x70 cm	630 kg	-40°C to +60°

\* Alternative dimensions, voltages and ampere ratings available on request.



### Technical drawing

