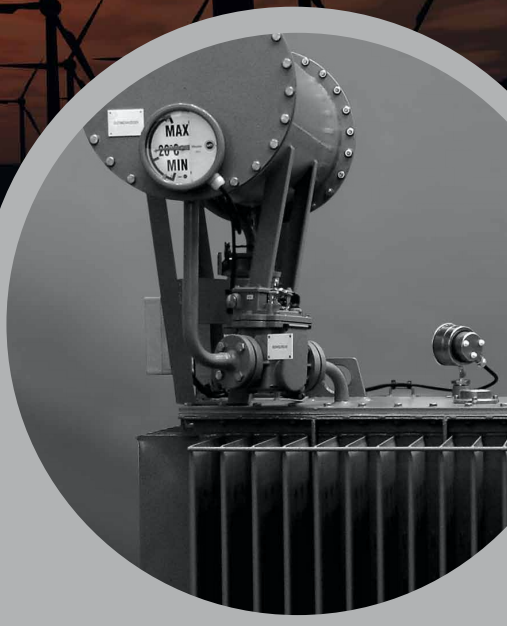
WAYS OF ENERGY



THREE-PHASE SHUNT REACTORS TKFC

EGE

THREE-PHASE SHUNT REACTORS TKFC

TKFC shunt reactors are designed and tested in compliance with the standard of IEC 60076-6.

Typical parameters of TKFC shunt reactors are:
- networks of 6, 10, 15, 20, 35 kV
- power up to 8000 kVA
- connection group Y or YN

TKFC shunt reactors are designed as fixed shunt reactors for a fixed power or with taps and an off-load tap-changer for adjustment to various values of reactive power.

Typical TKFC shunt reactors are accommodated in corrugated tanks hermetically sealed or equipped with an expansion tank & an air breather.

The anticorrosion protection is assured by application of zinc-flake paint, epoxy based paint and polyurethane paints. Total thickness of the three-layer paint system is min. 200 µm. Upon requirement the thickness can be increased up to 240 µm, which corresponds to the harsh environment of C5-M /off-shore environment/ acc. to EN ISO 12944-2.

Alternatively, the tanks are made of steel sheets and equipped with radiators for cooling.

Oil drain valves and oil sampling valves are part of the reactor tanks.

The covers of reactors are tightened with screws to the tanks. Two pairs of high-quality sealing cords assure outstanding protection against oil leakage.

Lugs for lifting the complete reactors are placed on the cover.

Bushings are of various types:
- porcelain bushings
- plug in bushings of Euromold type
- Connex cable connectors

Upon requirement the reactors can be equipped with various monitoring instruments as oil level gauges, thermometers, Buchholz relays from prestigious manufacturers.

Hermetically sealed reactors are equipped with reliable overpressure valves.

Typical transformer oil used in TKFC shunt reactors is Nynas Nytro Libra.

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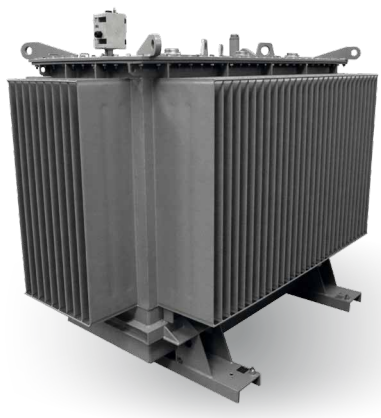

Fig. 1 *TKFC 3-phase shunt reactor – 500 kVA - corrugated tank – hermetically sealed*

Fig. 2 *TKFC 3-phase shunt reactor – corrugated tank with an expansion tank and an air drier*