People Transmit &
Transform Electric



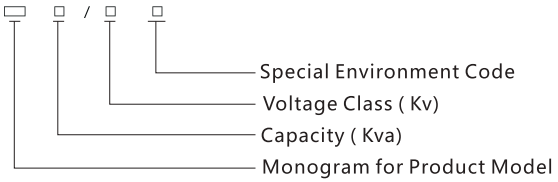
Furnace transformer

Summary

Due to a serials of innovations over material, technology, and structure, the Furnace Transformer features small size, light weight, high efficiency, low loss, low noise, reliable operation and large overloading capacity, etc. The transformer generates good economic returns for it could reduce significantly the power grid loss and bring down substantially the long term operational charges.
The transformer is designed to apply mostly in metallurgy industry for smelting quality alloy steel and iron alloy and in chemical industry for processing yellow phosphorous, calcium carbide and synthetic resin, etc.

The product complies with national standard : GB1094.1-2013《Power Transformer part 1: General》、GB1094.2-2013《Power Transformers part 2: Temperature Rise》, GB1094.3-2003《Power Transformer part 3: Insulation Levels , dielectric tests and external clearance in Air》、GB1094.5-2003《Power Transformer part 5: Ability to withstand Short Circuit》、GB/T6451-2015《Specification and technical requirements for oil-immersed power Transformers》Model and Meaning

Description and model of product



Product model alphabet: several letters arranged in sequence as follows:

Per application :
H (Electric arc furnace)
HC (Electric calcium carbide furnace)
HJ (Steel refining furnace)
HL (Yellow phosphorous furnace)
HT (Iron alloy furnace)
HZ(Electroslag furnace)
HK (Ore smelting furnace)
HG (Induction furnace)

Per number of phase: D (single phase)
S (three phases)

Per cooling mode: F (air cooling)
S (water cooling)
natural cooling to be unmarked

Per recycling mode: P (forced oil circulation)
natural circulation to be unmarked

Per structural feature: K (with series reactor or limited current reactor)

Per voltage regulating type: Z (On-load tap changing)

Operating conditions

Installation: Outdoor
Ambient Temperature: Max temp, +40℃, Min temp ,-30℃(revise if it is beyond the range)
Altitude : ≤1000m (temperature rise and external insulation distance to be modified if >1000m)
Relative humidity : ≤90% (25℃)
External Pollution Class : 4

Product name, type, spec. and major technical data and technical performance indices:

For example: customizing
Type ：HTSSPZ-14000/35
Rated Capacity is 14000KVA and to be reliable operation for long duration 30% overload
Primary voltage: 35Kv
Secondary voltage: 198-153-120v, 27 steps, step voltage: 3v
Vector group symbol: D0/Yd11, high voltage bring out by 6 bushings, with star delta connection variation.
Cooling : forced oil water cooling
Impedance voltage :Max secondary voltage ≤5% (5%-8.7%-12%)
Efficiency ≥99%
Tap changing type: series transformer voltage variation (27 steps)
Number of phase: 3
Rated frequency: 50HZ

Note: We can customize the capacity, operation condition, and technical specifications according to user’ s requirements .The finaldimen sions and technical spec. are subject to the final technical drawings attached with contract.

Product features

Furnace Transformer serves as indispensable processing equipment for metallurgy industry mostly in smelting quality steel and alloy steel. Based on the advanced technologies in the same industry from home and abroad, the iron core are made of high permeability silicon steel sheet with 5-step laminated to reduce no load loss and noise level. The electro magnetic wires adopt high class oxygen free cooper conductors in a special design which makes the transformer subject to high capability of overload and short circuit withstanding.

Outline dimensional drawing

