

FLAMEPROOF TRANSFORMER (SN6 type)

The transformer is determined to transform high voltage, power switching, control and protection of three-phase electric devices or eventually protection of power supply mains 3/PE AC 3300V 50Hz/IT. It can work in potentially explosive atmospheres. The transformer set has the type of protection against explosion I M2(M1) Ex d [ia Ma] I...



DESCRIPTION OF THE PRODUCT

The SN6 type transformer determined to transform high voltage, power switching, control and protection of three-phase electric devices or eventually protection of power supply mains 3/PE AC 3300V 50Hz/IT. It can work in potentially explosive atmospheres

The transformer set has the type of protection against explosion I M2(M1) Ex d [ia Ma] I Mb. The product complies with technical requirements for devices determined for use in potentially explosive atmospheres according to Directive 2014/34/EU (NV 116/2016 Sb.). The product also complies with technical requirements EN 60079-0, EN 60079-1 and EN 60079-11. The high voltage part of the transformer set is among others equipped with pole earthing isolator, overload protection and breaking contactor.

Electric circuits provide power outlet independently with:

Off-switching at short-circuit and short-circuit signalling; protection from thermal effects of overloads and signalling of overloads; off-switching in case the phase fall-out and in case the asymmetry of phases and equipment signalling; blocking the switching in case the reduction of isolation resistance of power outlet is less than 220k Ω and equipment signalling; off-switching in case the reduction of isolation resistance of power outlet is less than 85k Ω and equipment signalling; blocking the switching in case the protective conductor resistance exceeds 50 Ω and equipment signalling; control of the insulating state of circuit cable before on-switching using tester.

TECHNICAL DATA

Nominal voltage: according to requirements from 6000VAC to 6300VAC, 50Hz

Nominal current: according to power output max. 250A

Nominal short-circuit power: 100MVA at 6kV

Nominal off-switching short-circuit current: 10kA při 7,2kV

Off-switching ability, top value: 25kA

Short-circuit resistance, effective value: 10kA (3s)

Time for off-switching: 30÷55ms

Marking: Ex d I Mb

Total weight: 850kg

Technical parameters of transformer VN

Version: dry three-phase transformer

Power output: 1500/1750/2100kVA

Nominal primary voltage: according to requirements from 6000VAC to 6300VAC

Nominal secondary voltage: 3300VAC

Junctions of primary winding: $\pm 5\%$

Frequency: 50Hz

Connection: Dyn5 or Dyn11

Impedance e_k : from 4 to 5%

Type of cooling: using air (ANAN)

Class of insulated winding: H (200°C)

Marking: Ex d I Mb

Total weight (including transformer and enclosure): 7060/8300/8400kg

Weight of transport chassis: 390kg

Technical parameters of secondary part SN18

Nominal voltage: 3300VAC, 50Hz

Total nominal current: according to power max. 367,4A

Maximum number of power outlets: 2

Maximum current of an outlet: 300A

Marking: Ex d [ia] I Mb

Total weight: 630kg

CATEGORY OF THE PRODUCT

Electrical equipment.

Transformer booths

(<https://lb.kompass.com/a/electrical-equipment.-nuclearequipment/39/>)

(<https://lb.kompass.com/a/transformer-booths/39230/>)