



Low risk of mechanical damage during transport, assembly and during operation

Buckle traction insulator ITS-50/3

Very good mechanical and electrical properties with relatively low weight

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APPLICATION

The ITS buckle traction insulator is designed to isolate the contact line elements of different potential, the contact line elements from the supporting structure and the load-bearing structure from the supporting structures. Insulator for rated voltage up to 3 kV DC in traction networks, for outdoor operation. Meets the requirements of the ZN-12 / ITS-1 standard.

CONSTRUCTION

Buckle traction insulator ITS made of composite:

1. The load-bearing element of the insulator is a glass-epoxy yoke, made of glass fiber saturated with epoxy composition, transferring mechanical loads to tensile strength. The ends of the yoke are fitted with ferrules in the shape of sleeves. The yoke is completely covered with silicone rubber, which protects it against aggressive environmental factors.
2. Metal fittings are made of copper, aluminum or other material agreed between the contractor and the recipient.
3. The insulating cover of the load-bearing element is made of LSR silicone rubber, gray color.

ADVANTAGES

1. Very good mechanical and electrical properties with relatively low weight.
2. The hydrophobicity of the silicone rubber insulation cover ensures high resistance to dirt and the ability to self-clean.
3. Increased creepage distance due to the use of diffusers on the insulating part.
4. Low risk of mechanical damage during transport, assembly and during operation.
5. Resistant to UV radiation, ozone, and moisture.
6. Insensitivity to shocks and impacts - can be used in seismic zones.

Technical parameters

Dimensions height / width / thickness	197/65/22 mm
Installation length	140 mm
Mounting hole diameters	ø19,5 mm
The diameters of the mating pins	ø19 mm
Insulator weight	0,18 kg
Working conditions	4th pollution zone
Working temperature	od -40 do +90°C
rated voltage	3 kV DC
lightning impulse withstand dry voltage	26 kV
withstand voltage alternating with power frequency dry	15 kV
AC withstand voltage of mains frequency in rain	15 kV
creep path	140 mm
jump path	102 mm
Rated mechanical tensile strength SML	50 kN