

IKI-LUM-ISO-U

Combined sensor U/I - for air-insulated terminations

The sensor IKI-LUM-ISO-U combines the functionality of the current sensor type IKI-LUM-ISO and the voltage sensor CAPDIS-Sense. The voltage sensor output may only be used in conjunction with voltage detection systems of type CAPDIS. If voltage measurement is required, we recommend cast resin coupling electrodes. The combined sensor is the perfect combination for retrofit applications in combination with the IKI-23 plus CAPDIS_top.



Features

The voltage decoupling of the combination sensor detects the potential of the unshielded part of the cable termination. Capacitive decoupling of the voltage signal is not possible on fully shielded terminations, therefore the combination sensor cannot be used in this case. The voltage output is connected directly to a CAPDIS. The current is measured via a sensor current transformer with transformation ratio 2000/1. The current output is connected directly to an IKI 22, 23, 35 or 50 etc..

Easy retrofit

Current and voltage signal are combined in one sensor

Ideal in combination with the IKI-23

IKI-23 plus CAPDIS_top combine fault direction detection and voltage absence testing in one device.

For air-insulated terminations 6 - 24 kV

For use in air-insulated switchgear on shielded cables. The IKI-LUM-ISO-U combination sensor is installed on the shielded part of the termination, but close to the unshielded part, to detect the electric field.



Versions

Item number	Description
2503382	IKI-LUM-ISO-U Non-screened cable terminations 6 - 13,8 kV
2503382_H001	IKI-LUM-ISO-U Air insulated terminations 6 - 24 kV

Technical Data

General data

Article number	2503382_H001
Product designation	IKI-LUM-ISO-U Air insulated terminations 6 - 24 kV

Operating conditions

Operating temperature	-25°C ... 55°C
Storage temperature	-30°C ... 75°C
Protection class	IP54

Class accuracy	Current: Class 3; Voltage: deviation max. +-20 %
Applicable at nominal frequency	50 Hz, 60 Hz
Inner diameter	92 mm
Transmission ratio	2000 / 0,1
Load power	0,2 VA @ 600 A
Thermal maximum current	27 kA
Maximum continuous thermal current	650 A
Coupling capacitance C1	2 pF
Mounting	For air-insulated cable terminations, 6 - 24 kV
Directional current sensing	✓
Installation location	Non-screened oil cable terminations

Accessories

Article number	Product designation
3504837_S	Connecting cable set pluggable printed Lengths: L1 = 120 cm, L2 = 130 cm, L3 = 140 cm
3503135_S	Connecting cable set pluggable Length = 5,0m



Article number	Product designation
2037611	Adapter cable AK4; 160 mm; M6
2500053	coaxial cable RG58; AK-socket_Sx+; length = 12 m; oLb
2500823	coaxial cable RG58; AK-socket_Sx+; length = 6 m; oLb
2500823_S999	coaxial cable RG58; AK-socket_Sx+; length on request, 1 - 30 m
2500828	coaxial cable RG58; AK-socket_Sx+; length = 3 m; oLB
2502018	Coaxial cable set; RG62; 6 m; Sx+ _Sx; for CAPDIS-Sense
2502018	Coaxial cable set; RG62; 6 m; Sx+ _Sx; for CAPDIS-Sense