

The IKI-30 is a transformer-powered Protection Relay according to IEC 60255, suitable for transformer ratings between 160..12500 kVA, as overload, short-circuit and earth short-circuit protection in combination with circuit breakers or power isolators, as well as overload protection in combination with load disconnectors and HRC fuses.



Self powered protection relay acc. IEC 60255

Applicable for transformers with nominal power between 160 and 12 500 kVA; as overcurrent, short-circuit or earth-fault protection relay in combination with a circuit breaker and as overcurrent protection in combination with load breakers and high voltage fuses

Selectable tripping options

IDMT (ANSI 51)

2 DT (ANSI 51)

Instantaneous overcurrent characteristic (ANSI 50)

External fast tripping without delay

Optional earth fault protection

Release of tripping coil

Low-power coil (no external supply needed)

Standard tripping coil (with separate power storage PSU unit)

Self test

On site test of function by test button

Dry contact for remote transmission of watchdog alarm

Free of maintenance, CT-powered

Power supply buffered by lithium battery (life cycle -> 15 years)

Technical Data

Device data

Article number	2500287_S092_DIW
Product designation	IKI-30 Transformer Monitor Protection Relay according to EN 60254
Standard	IEC 60255-1

Dimensions and installation instructions

Case height x width x depth	48 x 96 x 80 mm
Cutout height x width	45 x 92 mm
Norm cutout dimensions	DIN 43700



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Dimensions and installation instructions

Installation type	Panel mounting
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Operating conditions

Operating temperature	-25°C ... 55°C
Storage temperature	-30°C ... 70°C
Protection class	IP40
Rated frequency	50 Hz, 60 Hz

Technical Data Fault Protection Functions

Reset	2h, automatic after load current restoring, manual
Setting / nominal current setting range	5 .. 260 A
Protection levels	ANSI 50, ANSI 50N, ANSI 51
Intrinsic time	43 ms
Threshold value $I_{>>}/I_n$	8 values settable: 2 .. 20
Delay time $I_{>>}$	8 values settable: 0 .. 2 s or deactivated
Threshold value $UMZ I_{>}$	8 values settable: 1.1 .. 3
Delay time UMZ	16 values settable: 1 .. 300 s
Protection characteristics IDMT	IEC extremely invers, IEC very invers
Start value $I_{>}/I_n$	8 values settable: 1,1 .. 3
Displacement factor $v I_{>}$	8 values settable: 0,05 .. 10 s
Threshold value $I_{e>>}$	8 values settable: 0.1 .. 2
Delay time $t_{I_{e>>}}$	8 values settable: 0 .. 5 s

Interfaces and communication

Remote signalling	2 dry contacts, NC / NO, alarm / tripping
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Power supply

Power supply	24 - 230 V AC/DC +- 10%; Power input < 1 Watt
Battery type	Lithium
CT-supplied	✓
Notes on transformer supply	From primary current of at least 1 A

Article number

Product designation

2512288_H001	split-core CT IKI-LUM_30_d92 (set) non-directional for IKI-30 Ø 92mm
2512288_H003	CT IKI-LUM_30_d92 Split-Core Transducer for C-Cone-Bushings (set) non-directional for IKI-30 Ø 92mm

Article number	Product designation
2512288_H004	CT IKI-LUM_30_d92 Split-Core Transducer for C-Cone-Bushings (set) for Siemens switchgears non-directional for IKI-30 Ø 92mm
2502107	Balanced core CT IKI-GSU_d60_314_diwi pluggable connections 60 x 314 mm

Connecting cables CTs

Article number	Product designation
3503118_S	Connecting cable set pluggable Length = 3,0m
3503135_E	Connecting cable piece pluggable Length = 5,0m
3503135_S999	Connecting cable set pluggable Lengths on request

Accessories

Article number	Product designation
3504837_S	Connecting cable set pluggable printed Lengths: L1 = 120 cm, L2 = 130 cm, L3 = 140 cm
3503135_E	Connecting cable piece pluggable Length = 5,0m
3503135_S999	Connecting cable set pluggable Lengths on request