The IKI-35 is a compact overcurrent protection relay and is suitable 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. The IKI-35 can be parameterized via menu or software.

Current transformer supplied protection relay
- Application as transformer protection
- Availabe with wide range converters
- Overcurrent, short-circuit, and earth fault stage
- Intuitive operation thanks to menu navigation
- Inrush suppression
- Event memory
- Earth fault protection by balance current transformer or calculation from the phase current transformers possible

Trigger characteristics
- DMT I> (ANSI 51)
- IDMT I>, four characteristic curves (ANSI 51)
- 2 short-circuit levels I>>, I>>> (ANSI 50)
- External quick-trigger
- Earth fault level DMT or IDMT Ie> (ANSI 51N or 51G)
- Instant earth fault level Ie>> (ANSI 50N or 50G)

Magnetic trigger selectable
- Low-energy triger,0.02 Ws, without external power supply
- Low-energy trigger,24 V/0.1 Ws, without external power supply
- Standard trigger coil (with additional - external capacitor storage PSU)

Self-test function

Event memory for 20 events
Availabe for download with mini USB cable via software (PC)

Low-maintenance

due to transformer power supply Internal battery life > 15 years without transformer current

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IKI-35

CT-powered Protection Relay (IEC 60255), with LCD and USB

Technical Data

Device data

Article number	2503290_H003
Product designation	IKI-35 Transformer Monitor | Protection Relay according to EN 60255 | LCD and USB | 24V release
Standard	IEC 60255-1

Dimensions and mounting 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
Installation type	Panel mounting

Operating conditions

Operating temperature	-40°C ... 70°C
Storage temperature	-40°C ... 80°C
Protection class	IP40, IP54
Rated frequency	50 Hz, 60 Hz

Technical Data Protection Functions

Reset	settable 2 h / 4 h / 8 h, autom. after load current restoring, manual
Setting / nominal current setting range	10 .. 250 A, 100 .. 400 A
Protection levels	ANSI 50, ANSI 50N, ANSI 51, ANSI 51N
Intrinsic time	43 ms
Threshold value I>>/In	settable 2 .. 32 or deactivated
Delay time I>>	Settable 0 .. 2 s
Threshold value UMZ I>	settable 1.1 .. 3
Delay time UMZ	Settable 0,3 .. 300 s
Protection characteristics IDMT	IEC extremely invers, IEC long time invers, IEC normal invers, IEC very invers
Start value I>/In	settable 1,1 .. 3
Displacement factor v I>	Settable 0,05 .. 10 s
Threshold value Ie>>	settable 0,1 .. 2 or deactivated
Delay time tIe>>	Settable 0 .. 2 s
Threshold value UMZ Ie>	settable 0,1 .. 2
Delay time UMZ Ie>	Settable 0 .. 5 s

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Technical Data Protection Functions

Start value Ie>/In	settable 0,1 .. 2
Displacement factor v Ie>	Settable 0,05 .. 10 s

Interfaces and communication

Remote signalling	2x, settable NO / NC, settable logic: I> + Ie>; I>; Ie>; Trip

Power supply

Power supply	24 - 230 V AC/DC +- 10%; Power input < 1 Watt
Battery type	Lithium battery
CT-supplied	✓

Article number	Product designation
2512106_H001	IKI-LUM_d92 Split-Core Transducer with cable tie (set) | Ø 92mm
2512106_H003	IKI-LUM_d92 Split-Core Transducer for C-Cone-Bushings (set) | Ø 92mm
2512106_H004	IKI-LUM_d92 Split-Core Transducer for SIEMENS-Bushings (set) | 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