

# IKI-35

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

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
- Available 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  $I_{e>}$  (ANSI 51N or 51G)
- Instant earth fault level  $I_{e>>}$  (ANSI 50N or 50G)

### Magnetic trigger selectable

- Low-energy trigger, 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

Available 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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### 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 $I_{>>}/I_n$	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 $I_{>}/I_n$	settable 1,1 .. 3
Displacement factor $v I_{>}$	Settable 0,05 .. 10 s
Threshold value $I_{e>>}$	settable 0,1 .. 2 or deactivated
Delay time $t_{I_{e>>}}$	Settable 0 .. 2 s
Threshold value $UMZ I_{e>}$	settable 0,1 .. 2
Delay time $UMZ I_{e>}$	Settable 0 .. 5 s

### Technical Data Protection Functions

Start value $I_{e>/I_n}$	settable 0,1 .. 2
Displacement factor $v_{Ie>}$	Settable 0,05 .. 10 s

### Interfaces and communication

Remote signalling	2x, settable NO / NC, settable logic: $I_{> + I_{e>}; I_{>}; I_{e>};$ Trip
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### 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)   $\varnothing$ 92mm
2512106_H003	IKI-LUM_d92 Split-Core Transducer for C-Cone-Bushings (set)   $\varnothing$ 92mm
2512106_H004	IKI-LUM_d92 Split-Core Transducer for SIEMENS-Bushings (set)   $\varnothing$ 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