IKI-30

Transformer Monitor & Protection Relay acc. IEC 60255



Transformer Monitor IKI-30

Intelligent transformer monitoring

Applicable for transformers with nominal power Pn: 160..2500kVA (@5-15kV); 250..7500kVA(@20-25kV); 400..12000kVA(@30-36kV)

Application a) Overcurrent- and short circuit/earth fault protection by combination of IKI-30 and circuit breaker/ load breaker

Application b) Overcurrent protection by combination of IKI-30 with load breaker and high voltage fuses; (tripping by IKI-30 disabled in range of short circuit current; disconnection by high voltage fuses)

Selectable tripping options:

- time delayed tripping by independent overcurrent time chracteristic (ANSI 51)
- IDMT inverse definite minimum time; overcurrent depending time chracteristic (ANSI 51)
- instantaneous overcurrent characterisitic (ANSI 50)
- external, fast tripping without delay
- optionally: time delayed earth stage characteristic (ANSI 50N, 51N)

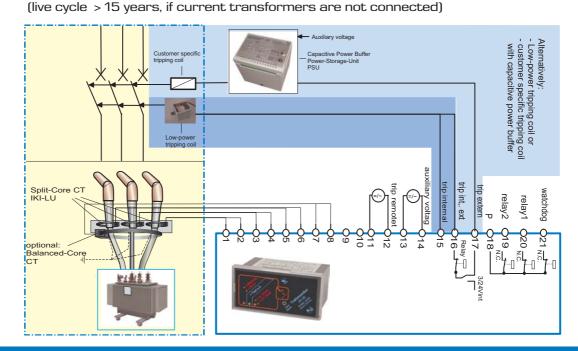
Release of tripping coil optionally:

- low power tripping coil (no external power supply needed)
- standard tripping coil (with separate power storage unit PSU)

-Self test

On-site test of function by test button; dry contact for remote transmission of watchdog alarm

Maintenance-free, power supply by current transformer power supply buffered by lithium battery











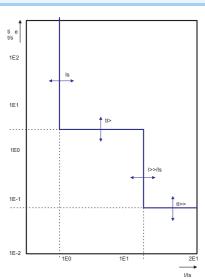
Transformer Monitor & Protection Relay acc. IEC 60255

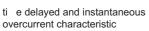


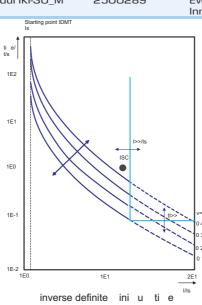
Technical data

User adjustable parameters by DIP-switches behind front cover

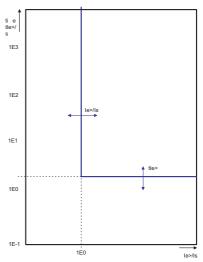
coor adjustable parameters by Bir Switchies Berlina Herio cover				
Pick-up current Is:	3 ranges		range 16 values a 110260 A	adjustable; range 1: 520 A; range 2: 25100A;
Short circuit level l>>: short circuit-threshold short circuit delay time	ratio l>>/Is tl>>) disabling of tripping possible
Overcurrent level l>: - Independent overcurrent delay time - IDMT 1 (IEC very invers) IDMT 2 (IEC extremely invers) characteristic shift:	pick-up value l>/ ls 8 values selectable (1,13) 16 values selectable (1300 start point l>/ ls 8 values selectable (1,13) 8 values selectable (1,13) 8 values selectable (0,051)		s selectable (1300 selectable (1,13) selectable (1,13)	
Optionally earth stage le>: earth fault-pick-up value earth fault delay time	ratio le>/ls 8 values selectable (0,12) tle> 8 values selectable (05 s)			
Frequency: Inherent delay: Reset: Power supply:	50/60 Hz selectable approximately 43 ms after 2h or automatic after current recovery or manual by key by current transformers; if primary current > 1 A; complete supply if primary current > 5A; buffered by lithium battery			
Current transformers:	connected to input 1, 2, 3: optionally to input 4:		split core current transformer type IKI- 30 LU optional with test winding type IKI-30LU-PW balanced current split core transformer type depending on diameter	
According to: Operating/storage temperatur: Housing:	IEC 60255-5 : -25°C +55°C / -30 +70 °C front panel mounting dimension: recommended cut:		(acc. to DIN 43700); IP 40 96 x 48 x 80 mm (w x h x d) 92 x 45 mm (w x h)	
Partnumbers:	- Expansion-Modul IKI-30_M		2500286 2500287 2500994 2500275 2500289	wxhxd = 180x110x137 mm 3 V, 0.02Ws Event recorder; tripping-capacity supervision; Inrush-supression; see additional data sheet
Starting point IDMT Is				











optional: ti e delayed earth stage characteristic