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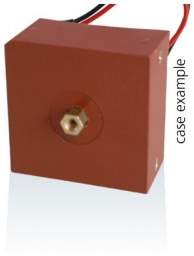
Series IN-I

Pulsed current transformer



Unique Selling Point

- Fully encapsulated
- Glass-fibre reinforced cast housing
- High-precision current measurements Cl 0.2
- Pulsed current measurement (8/20µs surge current pulse)
- Low-loss core (core losses <10W/kg at 20kHz/200mT)
- Housing made of UL-V0 material with inset thread

Description

Because of the materials selected, REO pulsed current transformers in the IN-I series monitor current with high precision and in the appropriate transformation ratio - which makes them particularly suitable for power measurements, current monitoring and analysis, and for use in solar inverters. They are ideal for use in active filters, as they can be designed to measure current surges.

The primary current is measured in a conductor fed through the closed toroidal core.

The magnetic field generated by the flow of current through the conductor is detected by the toroidal core, which, in accordance with the transformation ratio of the secondary winding, generates a smaller current for measurement purposes. By this means, a heavy current to be measured is reduced to a substantially smaller current and is in addition isolated from the primary circuit by safe electrical isolation.

- According to: EN/IEC 61869-1/2
- Primary rated current: 50 - 200 A
- Frequency: 50 - 50.000 Hz

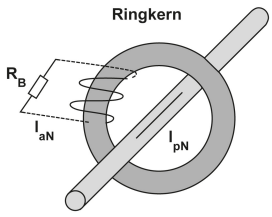
Application area

- Metrology and testing techniques

Technical Data

- Primary rated current : 50 - 200 A

Mode of operation



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Technical data

Type IN-I			50	100	200	
IPN	Primary rated current	r.m.s	0 - 50	0 - 100	0 - 200	[A]
ImaxPN	Max. primary rated current	r.m.s	± 60	± 120	± 240	[A]
IaN	Rated output current	r.m.s	0 - 50	0 - 100	0 - 200	[mA]
Psek	Rated power		0,5	1,0	1,5	[VA]
RB	Load resistance		200	100	37,5	[Ω]
URB	Load voltage	r.m.s		10	7,5	[V]
KN	Ratio	1:		1000		
FU	Measuring accuracy [50 Hz]			± 0,2		[%]
f	Frequency			0,050 bis 50		[kHz]
TA	Ambient temperature			-20 bis +70		[°C]
Vp	Insolation test voltage	r.m.s 50 Hz		3		[kV]
General data						
A	Connection	Strands		150		[mm]
TS	Storage temperature			-25 bis +85		[°C]
RS	Secondary coil resistance	@ TA = 25 °C		11,5	9	[Ω]
m	Weight			0,270		[kg]
	Standards			EN/IEC 61869-1/2		
CTI	Tracking resistance	Housing / Resin		550 / 600M		
dCp	Creepage			10		[mm]
dCl	Air distance			9		[mm]

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Dimension drawings

