Your contact:
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Series IN

Instrument transformers (PIN version)



Unique Selling Point

- PIN connection according to UL 94 V-0
- Current transformers for precise current measurements
- Measurements in the frequency range 16 2/3 to -50kHz
- Use of nanocrystalline and high-quality cores
- High-quality wires temperature class F (155°C), H (180°C)
- High-quality UL listed insulating materials (e.g. UL94-V0)
- Safe electrically isolated primary and secondary circuits
- High reliability
- Non-critical in the event of overload currents
- Robust housing designs (for horizontal/vertical mounting)
- Shock and vibration tests in accordance with DIN EN 61373 Category 1 Class B
- Variable connections: clamps, plugs, flat-cable plugs or cables
- Wide range of housings with various push-through openings

Description

The growing development and spread of electronic devices with high working frequencies requires the use of current transformers with an extended frequency range.

This demand can be met with specially selected materials in conjunction with optimized design.

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

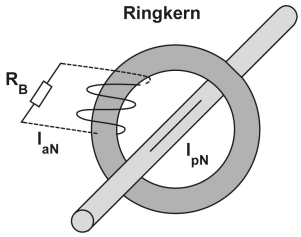
Application area

- Industry
- Renewable energy sources
- Railway engineering
- Metrology and testing techniques
- Energy, automation and building technology

Technical Data

- Primary rated current : 1 - 50 A

Mode of operation



Last modified: 29.01.2020. All data is provided to the best of our knowledge and awareness and is subject to error and amendment.

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Technical data

Type IN		1	3	5	10	25	50	
IPN	Primary rated current	1	3	5	10	25	50	[A]
ImaxPN	Max. Primary rated current	1,2	3,6	6	12	30	60	[A]
IaN	Secondary rated current	20				25	50	[mA]
RB	Load resistance	125				100		[Ω]
URB	Load voltage	2,5					5	[V]
PSek	Rated power	0,05				0,063	0,25	[VA]
KN	Ratio	50	150	250	500	1000		
Vp	Isolation testing voltage Primary/Sekundary / 2sek	3						[kVac]
FU	Accuracy [50 Hz]	≦1						[%]
f	Frequency	0,05 up to 50						[kHz]
TA	Ambient temperature	-25 up to +70						[°C]
Ts	Storage temperature	-25 up to +85						[°C]
General data								
PIN connection		3-4/2-1				NC/2-1		
Weight		0,05					0,07	[kg]
Standards		EN/IEC 61869-1/2						

*as winding transformer only the max. primary current rating is allowed

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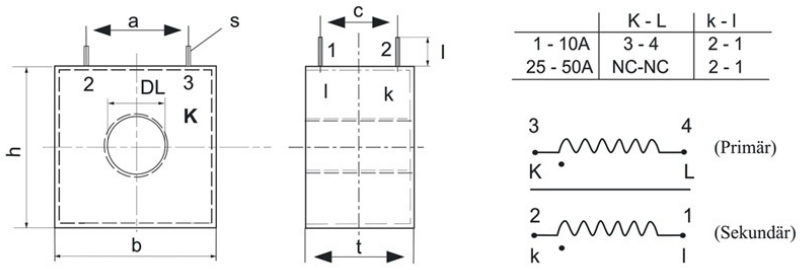
Dimension drawings



Dimensions

Type	PIN Connection	h [mm]	b [mm]	t [mm]	DL [mm]	s [mm]	l [mm]	a [mm]	c [mm]
IN / 1	3-4/2-1	34	33	18	9	1	3,5	27,5	10
IN / 3	3-4/2-1	34	33	18	9	1	3,5	27,5	10
IN / 5	3-4/2-1	34	33	18	9	1	3,5	27,5	10
IN / 10	3-4/2-1	34	33	18	9	1	3,5	27,5	10
IN / 25	NC/2-1	34	33	18	9	1	3,5	27,5	10
IN / 50	NC/2-1	38	38	20	13	1	6,5	30	10

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