Passive current transformer

## **Bushing-type current transformers**

In the case of bushing-type current transformers, the customer's primary wire is pushed through the current transformer opening in the housing. The push-through opening depends on the size of the primary current. Wound primary type current transformers have a primary winding and a secondary winding. Both windings are applied on the closed toroidal core

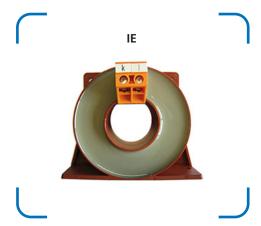
and are isolated from each other by insulation. This principle applies mainly where primary currents are small. Low-voltage current transformers for the proportional transformation of large currents to directly measurable smaller current values

## **Advantages (electrical)**

- Litz wires or terminals according to UL 94 V
- Bushing-type current transformers for direct conductor feedthrough
- Wound primary type current transformer, version for small currents
- Toroidal cores made of high-quality silicon-iron
- Measurement in the low frequency range 16 2/3 to -400Hz
- High core output power and high-quality insulation
- Electrically isolated primary and secondary circuits

## **Advantages (mechanical)**

- Designs for easy installation
- Variable connections, e.g. clamps, plugs, flat-cable plugs, flexible stranded wire or print mounting
- Wide range of housings with various push-through openings
- Very long useful lifetime



## **Technical data**

IE IE								
Туре		50	100	300	500	1000	2000	3000
Primary rated current [A]	I <sub>PN</sub>	50	100	300	500	1000	2000	3000
Max. primary rated current [A]	I <sub>maxPN</sub>	60	120	360	600	1200	2400	3600
Secondary current [mA]	I <sub>aN</sub>	1000	1000	1000	1000	1000	1000	1000
Capacity [VA]	P <sub>sek</sub>	0,5	1,0	2,5	10	15	25	25
Ratio	K <sub>N</sub>	50	100	300	500	1000	2000	3000
Load resistance [ $\Omega$ ]	R <sub>B</sub>	0,5	1,0	2,5	10	15	25	25
Load voltage [V]	U <sub>RB</sub>	0,5	1,0	2,5	10	15	25	25
Measuring accuracy 50 Hz [%]	F <sub>U</sub>	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ambient temperature [°C]	T <sub>A</sub>	-25 to +70						
Frequency [Hz]	f	50 to 400						
Insulation test voltage [kVac]	V <sub>P</sub>	3	3	3	3	3	3	3







Typical applications: Industry, renewable energy sources, railway engineering, energy, automation and building technology

