IE

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

IE

Technical data

IE								
Type		**50**	**100**	**300**	**500**	**1000**	**2000**	**3000**
Primary rated current [A]	I_{PN}	50	100	300	500	1000	2000	3000
Max. primary rated current [A]	I_{maxPN}	60	120	360	600	1200	2400	3600
Secondary current [mA]	I_{aN}	1000	1000	1000	1000	1000	1000	1000
Capacity [VA]	P_{sek}	0,5	1,0	2,5	10	15	25	25
Ratio	K_N	50	100	300	500	1000	2000	3000
Load resistance [Ω]	R_B	0,5	1,0	2,5	10	15	25	25
Load voltage [V]	U_{RB}	0,5	1,0	2,5	10	15	25	25
Measuring accuracy 50 Hz [%]	F_U	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ambient temperature [°C]	T_A	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-25 to +70
Frequency [Hz]	f	50 to 400	50 to 400	50 to 400	50 to 400	50 to 400	50 to 400	50 to 400
Insulation test voltage [kVac]	V_P	3	3	3	3	3	3	3

RoHS COMPLIANT 2011/65/EG

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