

IE modular

Passive current transformer

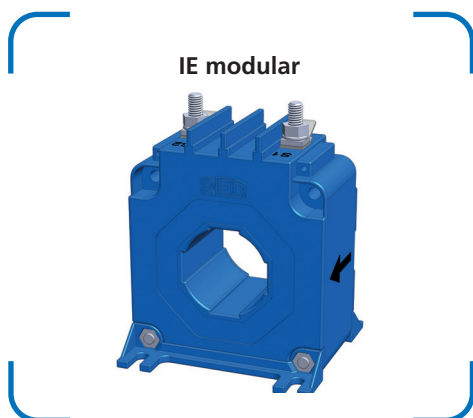
A new REO development of AC current sensors in modular design

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

- Bolts or flat plug connection
- Bushing-type current transformers for direct conductor feedthrough
- Toroidal cores made of high-quality magnetic cores
- Frequency range 16 2/3 to -400Hz optional
- High core output power and high-quality insulation
- Electrically isolated primary and secondary circuits
- Designs for easy installation
- Variable connections, e.g. clamps, plugs, flat-cable plugs, flexible stranded
- Wide range of housings with various push-through openings



Technical data

IE modular							
Type		1	3	5	10	25	50
		2 Windings				Through transformer	
Primary rated current [A]	I_{PN}	1	3	5	10	25	50
Max. primary rated current [A]	I_{maxPN}	1,2	3,6	6	12	30	60
Secondary current [mA]	I_{aN}	20	20	20	20	200	200
Capacity [VA]	P_{sek}	0,1	0,1	0,1	0,1	0,12	0,5
Ratio	K_N	50	150	250	500	1000	1000
Load resistance [Ω]	R_B	250	250	250	250	200	200
Load voltage [V]	U_{RB}	5	5	5	5	5	10
Measuring accuracy 50 Hz [%]	F_U	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Ambient temperature [$^{\circ}C$]	T_A	-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
Insulation test voltage [kVac]	V_P	3	3	3	3	3	3
Connection [mm ²]		3-4 / 2-1	3-4 / 2-1	3-4 / 2-1	3-4 / 2-1	NC / 2-1	NC / 2-1
Weight [kg]		0,05	0,05	0,05	0,05	0,05	0,07
Standards		EN/IEC 61869-1/2					

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

Dimensions in mm

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Type	PIN-connection [A]	h [mm]	b [mm]	t [mm]	DL [mm]	s [mm]	l [mm]	a [mm]	c [mm]
IE/1	3-4/2-1	34	33	18	9	1,0	3,5	27,5	10
IE/3	3-4/2-1	34	33	18	9	1,0	3,5	27,5	10
IE/5	3-4/2-1	34	33	18	9	1,0	3,5	27,5	10
IE/10	3-4/2-1	34	33	18	9	1,0	3,5	27,5	10
IE/25	NC/2-1	34	33	18	9	1,0	3,5	27,5	10
IE/50	NC/2-1	38	38	20	13	1,0	6,5	30	10

