

AC Leakage Current Transformers

CTZF-FL Series

CTZF-FL series leakage current transformer is specially designed for leakage current sampling for the online monitoring devices on the electric equipment. Leakage current normally is rated in mA level, and must be one turn through. This SPA series current transformer based on zero-flux principle, when in working state, it constantly stay in the theoretical "zero-flux" state, thus guarantee the maximum high precision of ratio error and phase error. The temperature, vibration and return loop, etc almost can not affect it.

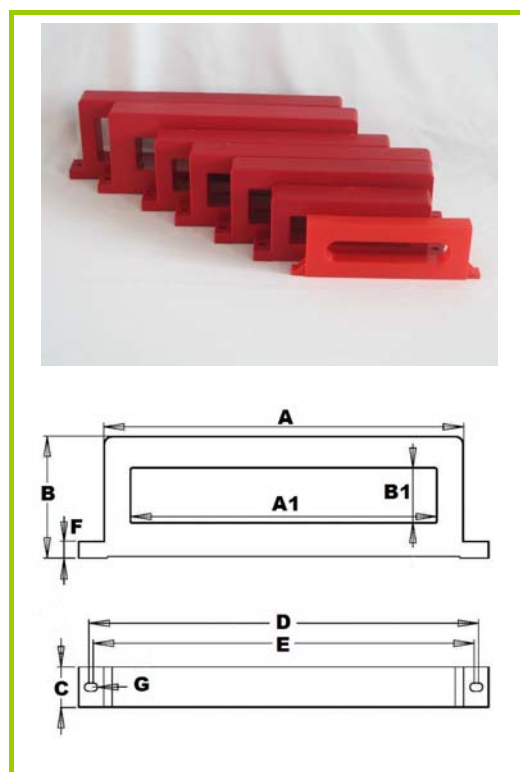
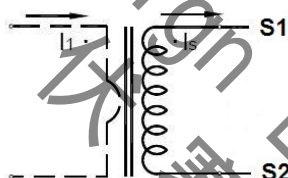
◆ Features

- No power supply, one turn through hole structure, fine stability;
- Adopt hipernik/permalloy, with fine linearity, high sensitivity;
- With special finishing treatment, fine stability, strong anti-interference ability, good for outdoor application.

◆ Applications

Suitable for earth lead current leakage and dielectric loss testing for high voltage electric equipment. Insulation online monitoring device, e.g CT, PT, CVT, main transformer, main core, various arresters, switches.

◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter	
Frequency	50-400Hz
Rated Input	10mA-5A
Measuring range	10%I _n -130%I _n
Rated Output	0-1V(AC) or 0-0.25mA
Ratio	±0.1%
Phase angle	±10分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	ABS /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	Screws
Operating Temp	-25℃~+75℃
Operating Humidity	≤85%
Output Connection	Terminal

◆ Type Selection

Mfg P/N	Input (A)	Output (mA/V)	Accuracy	Dimensions (mm)								
				A1	B1	A	B	C	D	E	F	G
CTZF-FL-1020	0-1A	0-1V	0.1、0.2	100	20	133	50	16	144	140	3	2.0
CTZF-FL-1025	0-1A	0-1V	0.1、0.2	100	25	133	60	24	154	143	9	2.5
CTZF-FL-1432	0-1A	0-1V	0.1、0.2	140	32	172	72	24	189	184	9	2.5
CTZF-FL-1832	0-1A	0-1V	0.1、0.2	180	32	212	72	24	229	224	9	2.5
CTZF-FL-2245	0-1A	0-1V	0.1、0.2	220	45	254	86	24	269	264	11	2.5
CTZF-FL-2645	0-1A	0-1V	0.1、0.2	260	45	294	86	24	309	304	11	2.5
CTZF-FL-3045	0-1A	0-1V	0.1、0.2	300	45	334	86	24	349	344	11	2.5
CTZF-FL-4245	0-1A	0-1V	0.1、0.2	420	45	454	86	24	469	464	11	2.5

AC Leakage Current Transformers

CTZF1-FL Series

CTZF1-FL series leakage current transformer is specially designed for leakage current sampling for the online monitoring devices on the electric equipment. Leakage current normally is rated in mA level, and must be one turn through. This SPA series current transformer based on zero-flux principle, when in working state, it constantly stay in the theoretical “zero-flux” state, thus guarantee the maximum high precision of ratio error and phase error. The temperature, vibration and return loop, etc almost can not affect it.

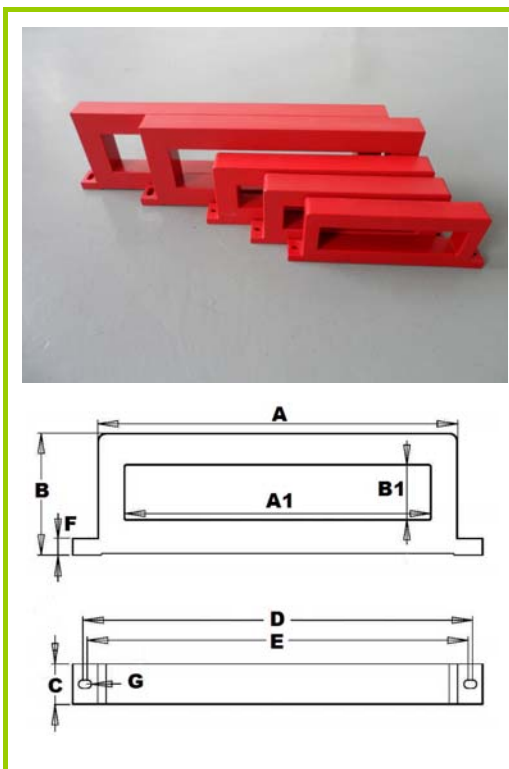
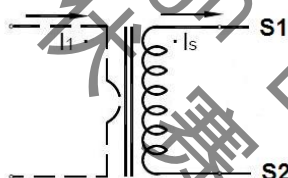
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◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter		Mechanical Parameter	
Frequency	50-400Hz	Case	ABS /UL94-V0
Rated Input	10mA-5A	Bobbin	PBT
Measuring range	10%In-130%In	Core	Permalloy or Nanocrystalline
Rated Output	0-1V(AC) or 0-0.25mA	Internal structure	Epoxy
Ratio	≤± 0.1%	Construction	Screws
Phase angle	≤ ±10 分	Operating Temp	-25℃~+75℃
Dielectric strength	2.5KV/1mA/1min	Operating Humidity	≤85%
Insulation Resistance	DC500V/100MΩ min	Output Connection	Terminal

◆ Type Selection

Mfg P/N	Input (A)	Output (mA/V)	Accuracy	Dimensions (mm)								
				A1	B1	A	B	C	D	E	F	G
CTZF1-FL-1432	0-1A	0-1V	0.1、0.2	140	32	185	79	28	202	198	9	3.5
CTZF1-FL-1832	0-1A	0-1V	0.1、0.2	180	32	231	84	28	248	244	9	3.5
CTZF1-FL-1436	0-1A	0-1V	0.1、0.2	144	36	190	82	28	205	205	11	8.0
CTZF1-FL-2450	0-1A	0-1V	0.1、0.2	244	55	304	114	30	319	319	11	8.0
CTZF1-FL-3050	0-1A	0-1V	0.1、0.2	304	55	364	114	30	379	379	11	8.0

AC Leakage Current Transformers

CTZF2-FL Series

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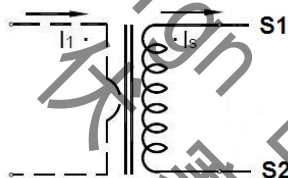
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◆ Circuit connection diagram



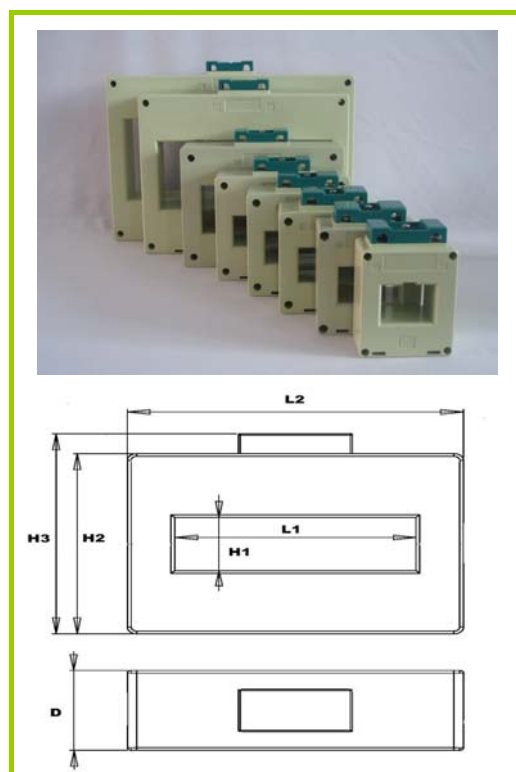
◆ Technique Index

Electrical Parameter	
Frequency	50-400Hz
Rated Input	10mA-5A
Measuring range	10%In-130%In
Rated Output	0-1V(AC) or 0-0.25mA
Ratio	$\leq \pm 0.1\%$
Phase angle	$\leq \pm 10$ 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	ABS /UL94-V0
Bobbins	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	Screws
Operating Temp	-25°C ~ +75°C
Operating Humidity	$\leq 85\%$
Output Connection	Terminal

◆ Type Selection

Mfg P/N	Input (A)	Output (mA/V)	Accuracy	Dimensions (mm)					
				L1	H1	L2	H2	H3	D
CTZF2-FL-1032	0-1A	0-1V	0.1、0.2	102	32	141	106	116	49
CTZF2-FL-1435	0-1A	0-1V	0.1、0.2	142	35	187	116	126	49
CTZF2-FL-1838	0-1A	0-1V	0.1、0.2	182	38	228	100	110	49
CTZF2-FL-2250	0-1A	0-1V	0.1、0.2	225	55	270	150	160	55
CTZF2-FL-1050	0-1A	0-1V	0.1、0.2	102	52	141	133	143	49
CTZF2-FL-1350	0-1A	0-1V	0.1、0.2	135	52	192	138	148	49
CTZF2-FL-2080	0-1A	0-1V	0.1、0.2	202	82	245	208	218	51
CTZF2-FL-26100	0-1A	0-1V	0.1、0.2	265	103	308	227	237	62
CTZF2-FL-15130	0-1A	0-1V	0.1、0.2	150	130	200	230	240	49



AC Leakage Current Transformers

CTZF5-FL Series

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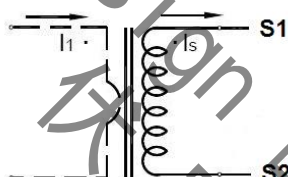
◆ Features

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- Adopt hipernik/permalloy, with fine linearity, high sensitivity;
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◆ Applications

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◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter	
Frequency	50-400Hz
Rated Input	10mA-5A
Measuring range	10%In-130%In
Rated Output	0-1V(AC) or 0-0.25mA
Ratio	± 0.1%
Phase angle	≤ ±10 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	ABS /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	Screws
Operating Temp	-25℃ ~ +75℃
Operating Humidity	≤85%
Output Connection	Terminal

◆ Type Selection

Mfg P/N	Input (A)	Output (mA/V)	Accuracy	Dimensions (mm)				
				L1	H1	L2	H2	D
CTZF5-FL-2680	0-1A	0-1V	0.1、0.2	262	82	360	180	50
CTZF5-FL-4080	0-1A	0-1V	0.1、0.2	402	82	500	180	50
CTZF5-FL-30100	0-1A	0-1V	0.1、0.2	302	102	400	200	50
CTZF5-FL-36150	0-1A	0-1V	0.1、0.2	362	152	460	250	50
CTZF5-FL-45100	0-1A	0-1V	0.1、0.2	452	102	550	200	50
CTZF5-FL-50100	0-1A	0-1V	0.1、0.2	502	102	600	200	50
CTZF5-FL-55100	0-1A	0-1V	0.1、0.2	552	102	600	200	50
CTZF5-FL-60100	0-1A	0-1V	0.1、0.2	602	102	700	200	50
CTZF5-FL-80100	0-1A	0-1V	0.1、0.2	802	102	900	200	50
CTZF5-FL-80450	0-1A	0-1V	0.1、0.2	802	452	900	550	50

