

Approval Sheets

Approved by

Item: Split Core Current Transformer

Description: φ10mm, 70A, 10Ω, 3000:1,

0.5class

Part No.: ZEMCTK05-14B (1.5m)

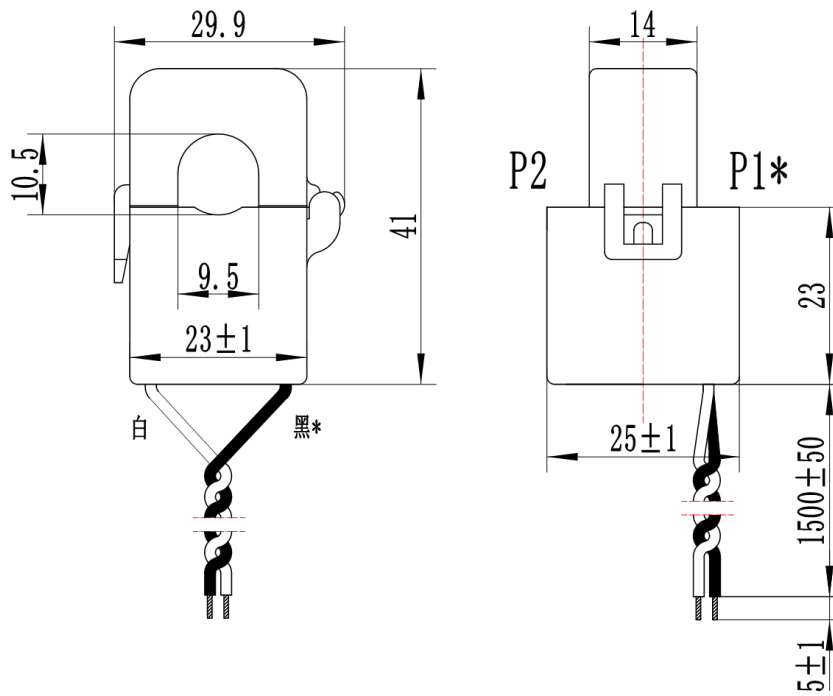
Design by	Check by	Approved by

1.Specification

Characteristics	Values
Primary current I_p	50A
Maximum primary operating current I_{max}	70A
Secondary current	16.67mA
Sampling resistor R_B	10 Ω
Operating frequency	50/60Hz
Operating temperature	-40°C-85°C
Relative humidity	$\leq 95\%$
Turn ratio	3000: 1
Accurate operating current range	$5\%I_p \sim I_{max}$
Accurate class	0.5
Power-frequency Withstand voltage	3kV/1min
Insulation resistance	$\geq 500M\Omega/500VDC$

Accuracy Class	With the percentage(%) of I_p			
	5	20	100	120
Ratio Error($\pm\%$)	1.5	0.75	0.5	0.5
Phase Displacement(\pm')	120	90	90	90

2.Dimension

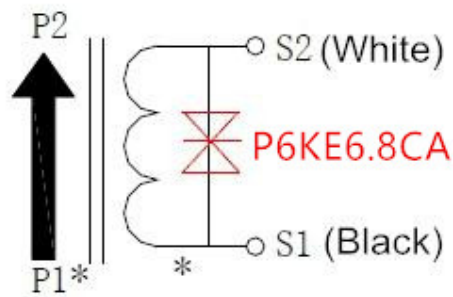


Unit: mm

“•” means “same polarity”

Lead wire: UL1007, 22#, Twisted pair.

3.Schematic Diagram



3. Material List

NO.	Material	Spec, model	UL code	Manufacturer
1	Ferrite core	A10UU20.6L	---	Nantong Zhongxing
2	Bobbin	004, NYLON, 4820	E59481	Huanghuashi Runze hardware
	Cover sheet			
	Plastic case			
3	Tape	14mm, Yellow, HMT803	E328315	Shenzhen Nade Adhesive Technology Co., Ltd.
4	Enamelled wire	Φ0.095, 3000turns, Polysol P155p	E258243	Hangzhou Elektrisola Fine Thread Co., Ltd.
5	Leading wires	UL1007-22#, Black, white twisted pair	E315651	Zhejiang Chengbao wires
6	DIODE	P6KE6.8CA	E465643	BESTBRIGHT ELECTRONICS CO LTD
7	Tin	Lead-free tin bar	---	Zhejiang Yatong Welding Materials Co., Ltd.
8	Leading wires	0.06mm ² red and blue lead (not resistant to high temperature) 1007	E315651	Zhejiang Chengbao wires