



SHAANXI SHINHOM ENTERPRISE CO LTD

Customer		Date	2021-05-24
Name	Low voltage current transforme	Rev.	A/0
Part No.	BT25-500A/0.5A	Drawn	
Drawing No.	021202702001110101	Approve	

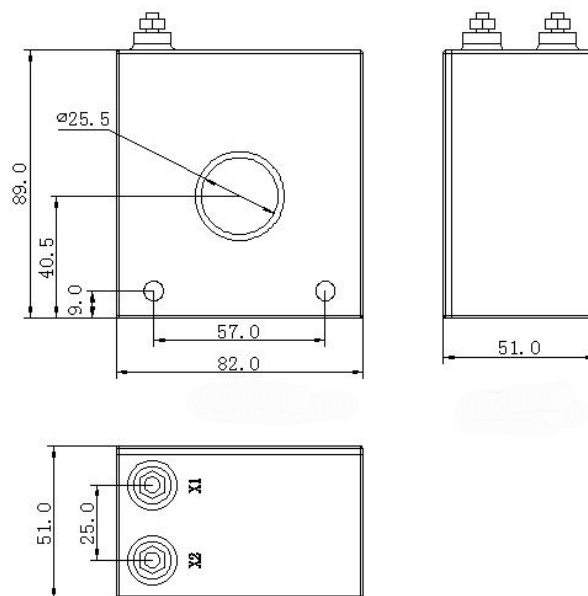


Electrical specification

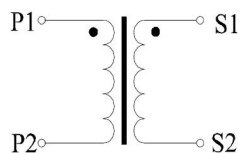
Item		Value	Item		Value
Rated voltage	V	<1000V	Operating frequency	f	25Hz-75Hz
Rated pri current	I _n	0-500A (r. m. s)	Pri turns	-	1Ts
Rated sec current	I _o	0-0.5A (r. m. s)	Accuracy	f	≤ ± 0.5%
Load	Ω	≤ 100 Ω	Phase angle	δ	≤ 30'
Overload capacity	I _n	1.2I _n	Hi-Pot	V	3.0KV/1mA/1min
Sec resistance	DCR	14 ± 10% Ω	Insulation resistance	V _d	500V/100MΩ min
Measuring range	-	5-120% I _n	Operating temperature	Ta	-25℃ — +70℃
Ambient pressure	Pa	10 ⁵ Pa	Storage temperature	Ta	-40℃ — +85℃
Humidity	RH	<90%	Case	-	PBT
Output	L	Terminal	Potting compound	-	Epoxy
Weight	G	650g			
Notes					

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Size($\pm 0.5\text{mm}$)



Winding



Testing data

Number		5% In	20% In	50% In	100% In	120% In	DCR (Ω)	Load
1#	f (%)	-0.198	-0.055	-0.030	-0.030	-0.030	14.4	100 Ω
	δ (')	37.89	23.62	15.85	12.71	13.06		
2#	f (%)	-0.121	0.023	0.119	0.140	0.143	14.1	100 Ω
	δ (')	49.11	31.69	19.49	16.96	17.17		

Material list

NO.	Material	PART NO	SUPPLIER	UL	NOTE
1	Core	Silicon steel	SHANDONG HUANBANG	N/A	
2	Wire	2UEW	ELEKTRISOLA	E258243	
3	Case	PBT	SABIC INNOVATIVE PLASTICS BV	E45329	
4	Potting	Epoxy	TIANJIN XINQIAO	E196959	