

Nanocrystalline core for Current transformer

1、 Features

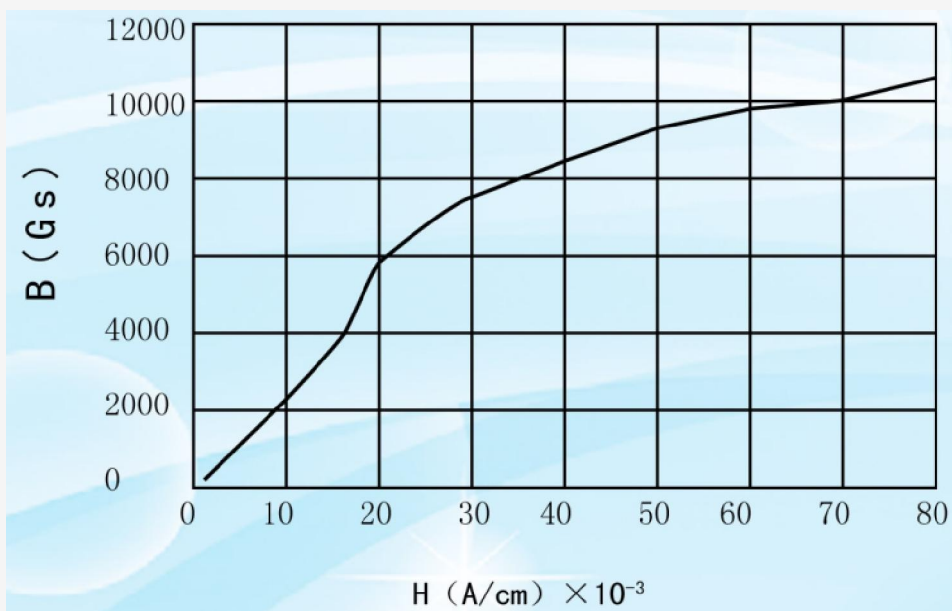
- High saturation magnetic induction BS——Strong anti-saturation
- High permeability—improve the transformer's reduce ratio,tolerance 0.5~0.1
- High cost-effective
- Excellent high temperature properties: working temperature $-55^{\circ}\text{C}\sim 130^{\circ}\text{C}$

2、 Applications

- High precision current and voltage transformer
- Current transformer for transmitter meter

3、 Performance
3.1 parameter

Basic magnetic parameters	NanocrystallineFUO-1	Permalloy
Saturation magnetic flux densityBs (T)	1.20	0.70
Initial permeability (Gs/0e)	50000~100000	50000~100000
Maximum permeability (Gs/0e)	>300000	>200000
Coercivity (A/m)	<1.6	<0.8
Density (g/cm ³)	7.2	8.8
Core fill factor	>0.70	>0.88

3.2 H-B Magnetic curve


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4、 Dimension and electrical parameters

TYPE	CORE SIZE (mm) ID×OD×Ht	dimension (mm) ID×OD×Ht	OUTPUT VOLTAGE (mv)
SR-I101310	9.6×13.2×10	8.5×15.0×12.0	≥0.20
SR-I132210	13.2×21.5×10	11.5×24.0×12.9	≥0.28
SR-I141907	14×19×6.5	12.0×22.1×9.0	≥0.12
SR-I141908	14×19×8	12.1×22.5×10.1	≥0.18
SR-I142010	14×20×10	12.1×22.5×12.2	≥0.25
SR-I152110	15×21×10	12.9×23.5×12.8	≥0.26
SR-I162110	16×21×10	14.0×24.5×12.5	≥0.25
SR-I162308	16×23×8	14.0×24.9×10.9	≥0.20
SR-I162610	16×26×10	14.0×28.1×13.0	≥0.28
SR-I202507	20×25×6.5	18.2×27.4×9.4	≥0.07
SR-I182815	18×28×15	16.2×29.5×17.0	
SR-I203015	20×30×15	17.8×33.1×17.5	
SR-I203210	20×32×10	18.0×34.2×13.1	
SR-I254010	25×40×10	22.5×42.5×13.0	
SR-I254015	25×40×15	21.9×43.2×18.9	
SR-I325015	32×50×15	29.0×53.2×18.2	
SR-I325020	32×50×20	28.5×53.2×23.5	
SR-I406020	40×60×20	37×63×24	
SR-I406420	40×64×20	37×67×24	
SR-I407020	40×70×20	37×73×24	
SR-I508020	50×80×20	47×84×25	
SR-I508025	50×80×25	47×84×29	
SR-I509030	50×90×30	46×94×34	
SR-I5010025	50×100×25	46×104×29	
SR-I7012030	70×120×30	65×125×35	
SR-I8012025	80×120×25	75×125×30	
SR-I9012525	90×125×25	85×130×30	
SR-I9013030	90×130×30	85×135×35	
SR-I10012025	100×120×25	94×126×31	
SR-I10014025	100×140×25	94×146×31	
SR-I12017025	120×170×25	114×176×31	

NOTE: WE CAN PROVIDE DIFFERENT TYPE EXCEPT THE DATAS ABOVE ACCORDING TO CUSTOM.