

Nanocrystalline and Amorphous

Current Transformer made from Fe-based Nanocrystalline Alloy ribbon

Physical parameters of iron core material

Density (g/cm ³) 7.23	Resistivity (μΩ.cm) 80	Curie Temperature °C		Saratuation Magnetostriction 2.1	Saratuation Magnetic Induction (T) 1.15
		AM 320	NC 600		

Product size:

External diameter:D=50~600mm

Internal diameter:d=30~550mm

Height=10~200mm

Measuring method:

Induced voltage measurement may be adopted to measure the performances of magnetic core. The primary and secondary are one turn coils, and the non-load output voltage value of secondary coil may be measured under the primary current as set forth.

Performance index fo typical specification

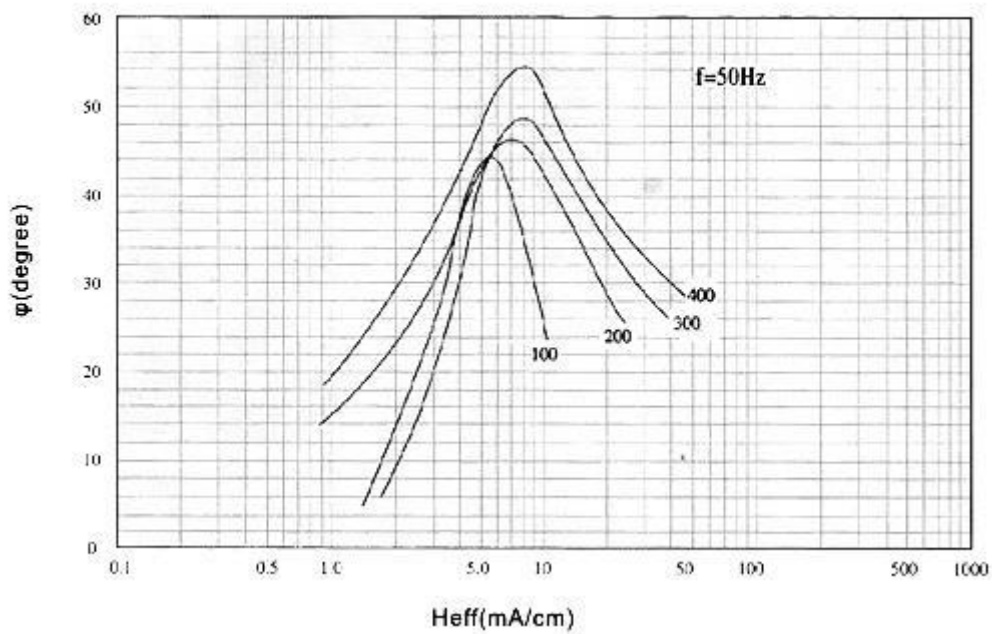
Series	Typical Specification & Perfomance figures					Remark
	Iron Core Size (mm)	Weight W (kg)	Effective Section Area Ae (cm ²)	Exciting CurrentI (mA)	Induced Voltage V (Mv)	
	85/125/25	0.835	3.50	477	54.00	
	85/125/30	1.002	4.20	477	65.00	
TIE-C-AN80	90/130/25	0.874	3.50	500	54.00	D=50~150mm
	90/130/30	1.049	4.20	500	65.00	
	160/240/20	2.540	5.60	180	2.94	
	190/130/25	2.990	6.10	140	2.92	
TIE-C-AN81	200/255/20	1.990	3.85	500	14.70	D=150~275mm
	200/260/30	3.290	6.30	100	1.00	
	214/266/30	2.980	5.50	300	8.00	

TIE-C-AN82	330/390/90	15.450	18.90	300	11.00	D=175~400mm
	280/480/15	9.060	10.50	200	3.50	
TIE-C-AN83	510/590/35	12.240	14.00	600	11.00	D=400~600mm

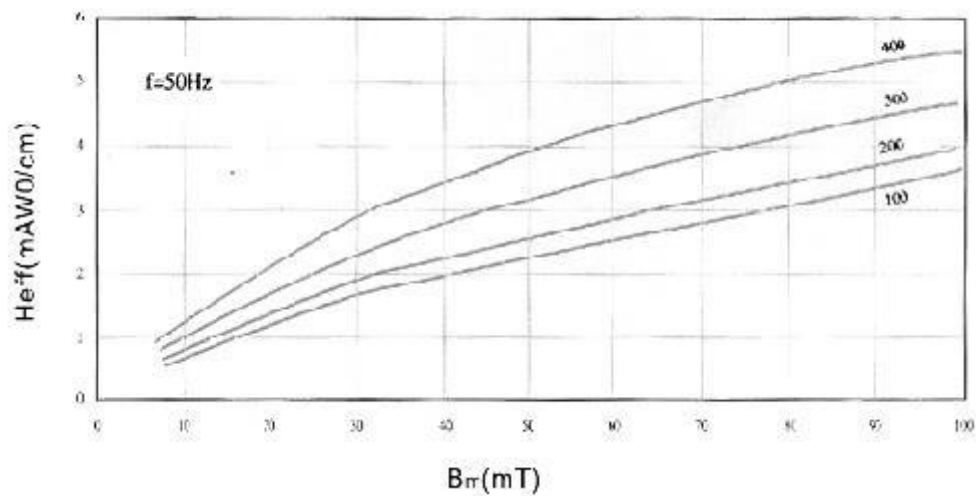
Package

Iron cores should be packed in the copper,alumi-num or plastic protective box.
Loss angle at 50 Hz versus exciting field for nanocrystalline iron core with different diameteres

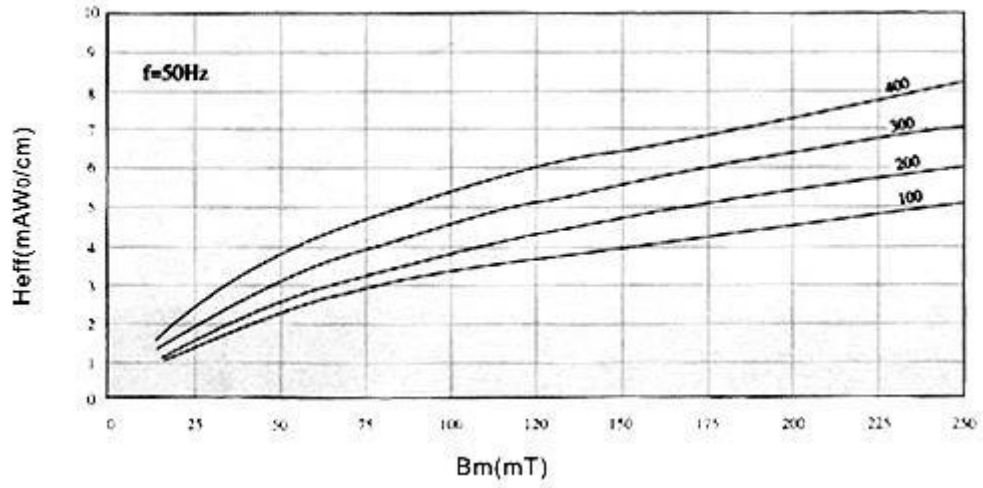
Loss Angular Curve for Microcrystalline Alloy for Mutual Inductor(1)



Loss Angular Curve for Microcrystalline Alloy for Magnetic Inductor(II)



Loss Angular Curve for Microcrystalline Alloy for Magnetic Inductor(III)



Loss Angular Curve for Microcrystalline Alloy for Magnetic Inductor(IV)

