



Toroidal Cores

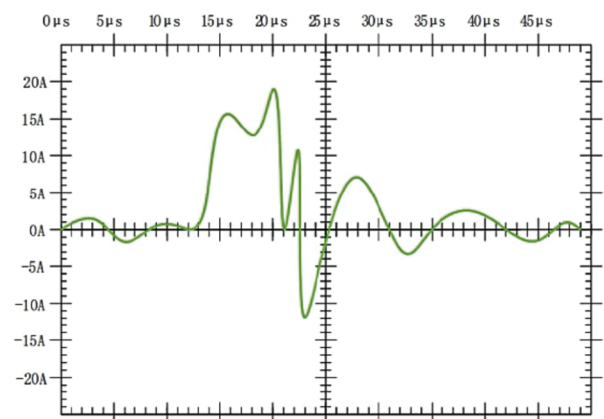
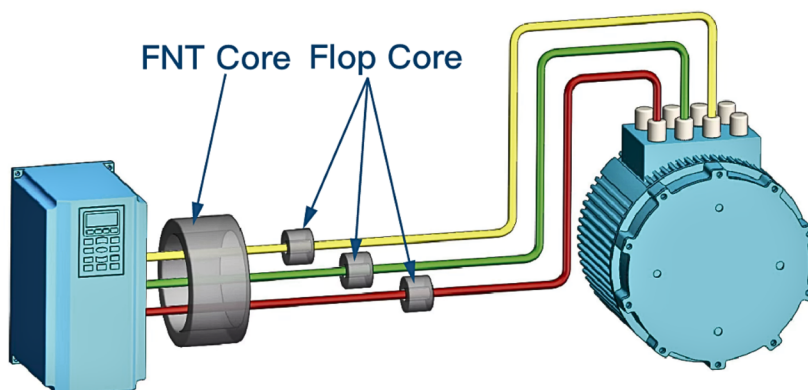
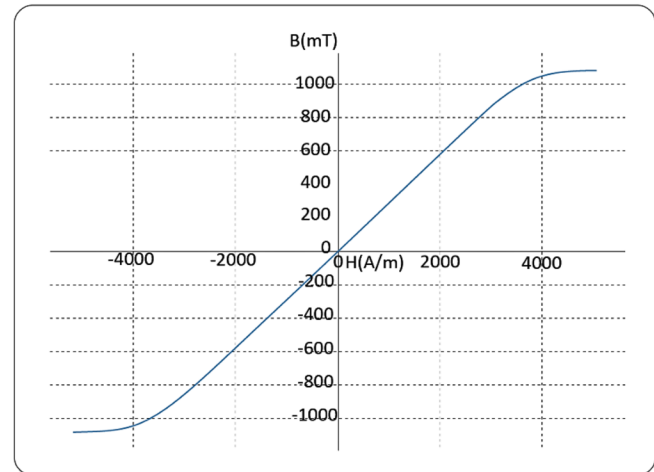
FLOP CORE SERIES features excellent DC bias resistance, outstanding linearity and low core loss. These magnetic cores are widely applied in current transformers, electronic filters, energy storage and motor spindle protection.



X-MAG's capabilities cover magnetic engineering & simulation, automated sustainable manufacturing, comprehensive quality assurance, and advanced magnet R&D.

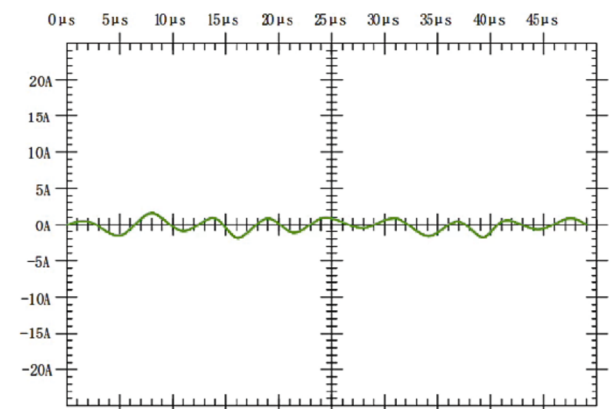
Performance

(Relative permeability) μ	200~3000
(High saturation flux density) B_s^* (T)	1.2
λ (Saturation magnetostriction s ($\times 10^{-6}$))	<1
ρ (Electrical resistivity)($\mu\Omega\text{cm}$)	1.1
(Density) d (kg/m^3)	7.35×10^3
(Core loss)(20KHZ, 0.5T)	<15W/KG
(Core loss)(50KHZ, 0.3T)	<20W/KG
(Width) (mm)	5~30
(Thickness) (μm)	18~24
(remanence) B_r (mT)	10
DC-Bais @200 μ (A/M)	3500



Before

VFDs in combination with motors and generators cause high frequency common and differential mode current. These current propagate through the entire system and cause e.g. bearing damages, errors in the control system, erroneous triggering of RCD and are impacting the environment by electromagnetic radiation.



After

Standard Specification OF FNMB7 Flop Core

Dimension & Performance

Part No	Core dimensions (mm)			Finished dimensions (mm)			Ae (cm ²)	Le (cm)	AL (μ H) Typical
	ID	OD	H	ID	OD	H			100KHz
FLP-301	30	20	10	30.7	19.3	10.8	0.4	7.8	0.67
FLP-302	30	20	10	30.7	19.3	10.8	0.4	7.8	1.31
FLP-304	30	20	10	30.7	19.3	10.8	0.4	7.8	2.6
FLP-401	40	32	15	40.7	31.3	15.8	0.48	11.3	0.52
FLP-402	40	32	15	40.7	31.3	15.8	0.48	11.3	1.1
FLP-404	40	32	15	40.7	31.3	15.8	0.48	11.3	2.2
FLP-621	62	50	30	62.7	49.3	30.8	1.44	17.6	1.05
FLP-622	62	50	30	62.7	49.3	30.8	1.44	17.6	2.1
FLP-624	62	50	30	62.7	49.3	30.8	1.44	17.6	4.1
FLP-621	73	60	30	73.8	59.2	31	1.56	20.9	0.95
FLP-622	73	60	30	73.8	59.2	31	1.56	20.9	1.9
FLP-623	73	60	30	73.8	59.2	31	1.56	20.9	3.2
FLP-801	80	62.4	30	81	61.5	31	2.11	22.2	1.21
FLP-802	80	62.4	30	81	61.5	31	2.11	22.2	2.51
FLP-803	80	62.4	30	81	61.5	31	2.11	22.2	3.64
FLP-901	92	80	25	93	79	26	1.2	27	0.6
FLP-902	92	80	25	93	79	26	1.2	27	1.21
FLP-904	92	80	25	93	79	26	1.2	27	2.45
FLP-1001	106	78	25	107.1	76.9	26.2	2.8	28.9	1.32
FLP-1002	106	78	25	107.1	76.9	26.2	2.8	28.9	2.71
FLP-1003	106	78	25	107.1	76.9	26.2	2.8	28.9	3.98
FLP-1601	130	100	30	135.8	94.4	34.6	3.37	36.1	1.25
FLP-1602	130	100	30	135.8	94.4	34.6	3.37	36.1	2.52
FLP-1603	130	100	30	135.8	94.4	34.6	3.37	36.1	3.62

Note: Customization for any size is supported