

M Nanoperm

Nanoperm LM cores for Current Transformers with DC tolerance



IEC 62053 -21:2020
EN 50470-3:2020
compatible

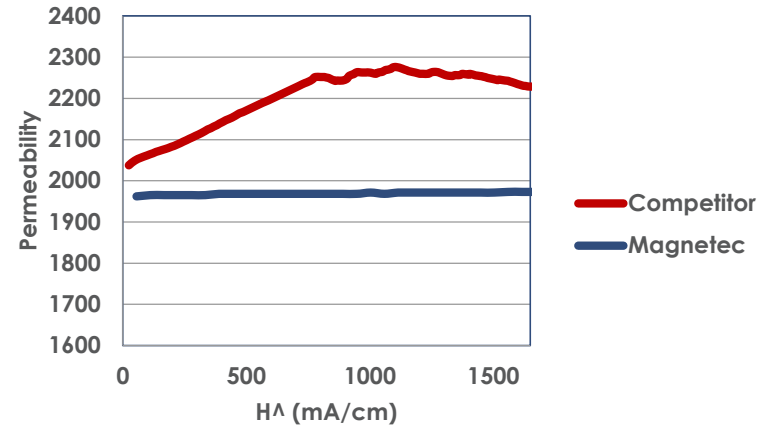
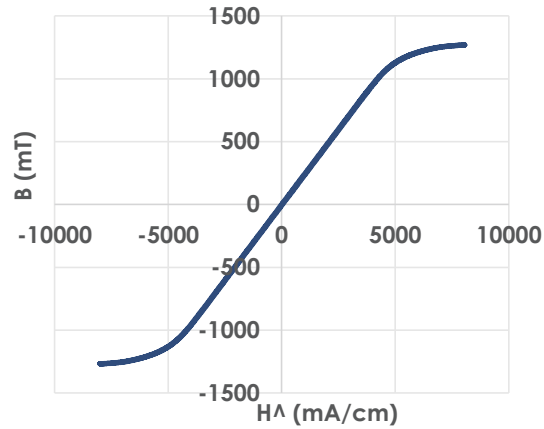
Passes DC test with 0,5
power factor

Low and predictable
temperature drift

Saves calibration
costs

High linearity

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Magnetec offers nanocrystalline tape wound cores from Nanoperm LM (low μ) for smart meter applications where DC tolerance is required. Our cores have a near to constant permeability from zero until saturation which makes them superior to not only hybrid but also to many single core solutions on the market. Due to the extremely high linearity, phase and amplitude errors are very stable and predictable, which lets you save on calibration costs. Besides the standard product line custom designs are also available.

Types	DC capability [A]	Permeability	Nominal dim. [mm] Do x Di x H	Finished dim [mm] Do _{max} xDi _{min} xH _{max}	I _{Fe} [cm]	A _{Fe} [cm ²]
M-389	20	3400	19,1 x 15,2 x 6	20,5 x 13,8 x 7,8	5,4	0,09
M-375	60	2000	22 x 17 x 6	23,4 x 15,8 x 7,8	6,1	0,12
M-880	80	1600	21,5 x 18 x 6	22,9 x 16,8 x 7,8	6,2	0,08
M-361	100	1600	25 x 20,1 x 6	26,5 x 18,8 x 7,8	7,1	0,11
M-391	120	1600	30 x 24,8 x 6	31,4 x 23,6 x 7,6	8,6	0,12
M-433	160	1600	35,5 x 30,5 x 6	37,8 x 28,7 x 8,0	10,4	0,12