

DATA SHEET

3C85

Material grade specification

File under Magnetic Products, MA01

1997 Nov 21

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3C85 SPECIFICATIONS

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.1 mT	2000 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	5500 $\pm 25\%$	
B	25 °C; 10 kHz; 250 A/m 100 °C; 10 kHz; 250 A/m	≥ 400 ≥ 330	mT
P_V	100 °C; 25 kHz; 200 mT 100 °C; 100 kHz; 100 mT	≤ 140 ≤ 165	kW/m ³
ρ	DC; 25 °C	≈ 2	Ωm
T_C		≥ 200	°C
density		≈ 4800	kg/m ³

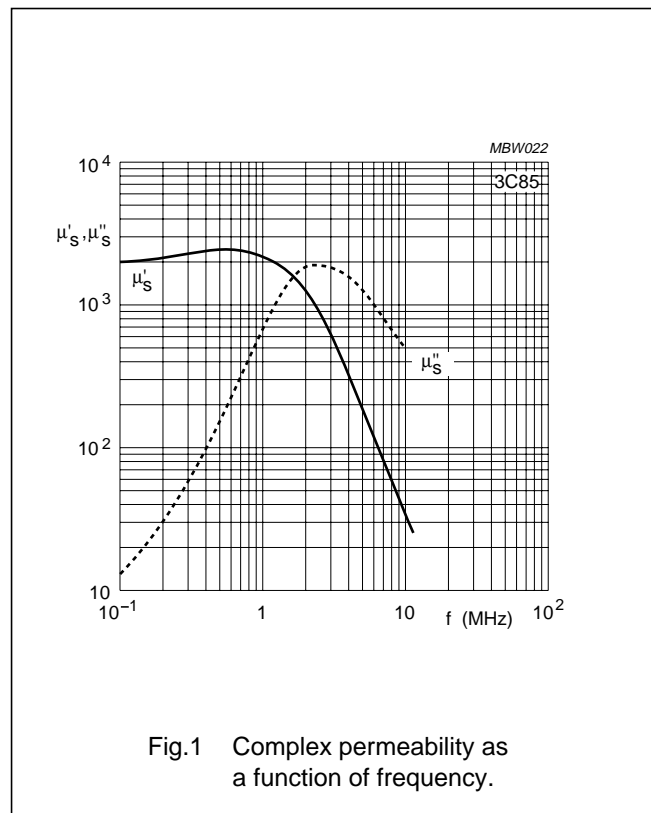


Fig.1 Complex permeability as a function of frequency.

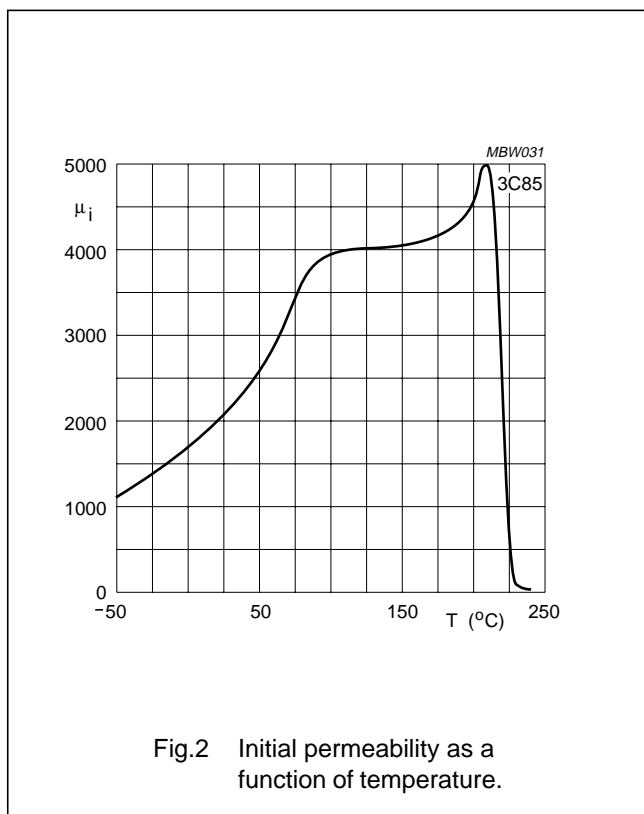


Fig.2 Initial permeability as a function of temperature.

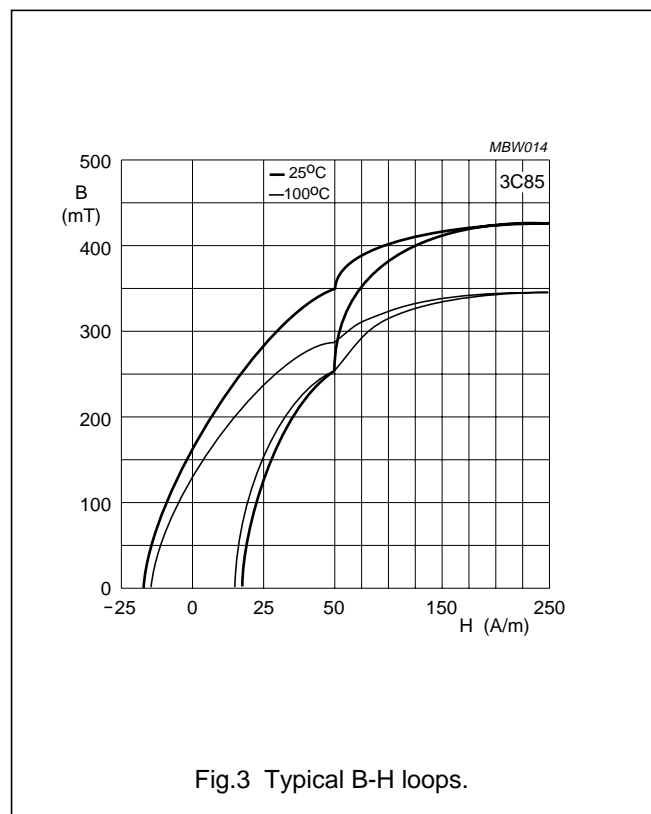
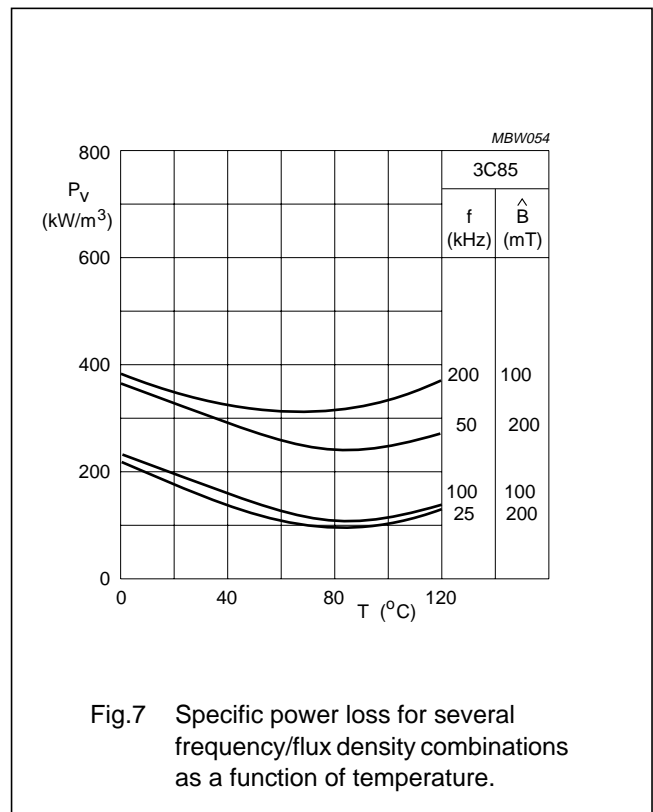
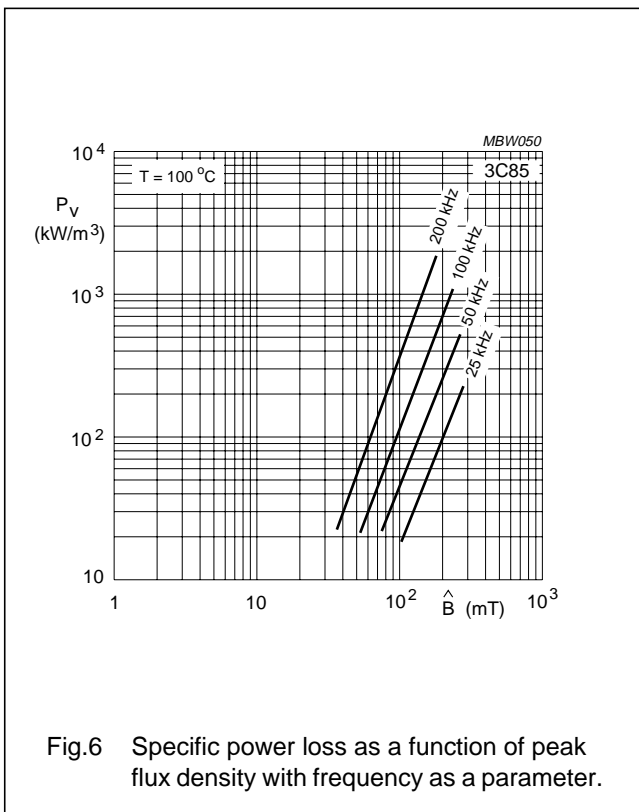
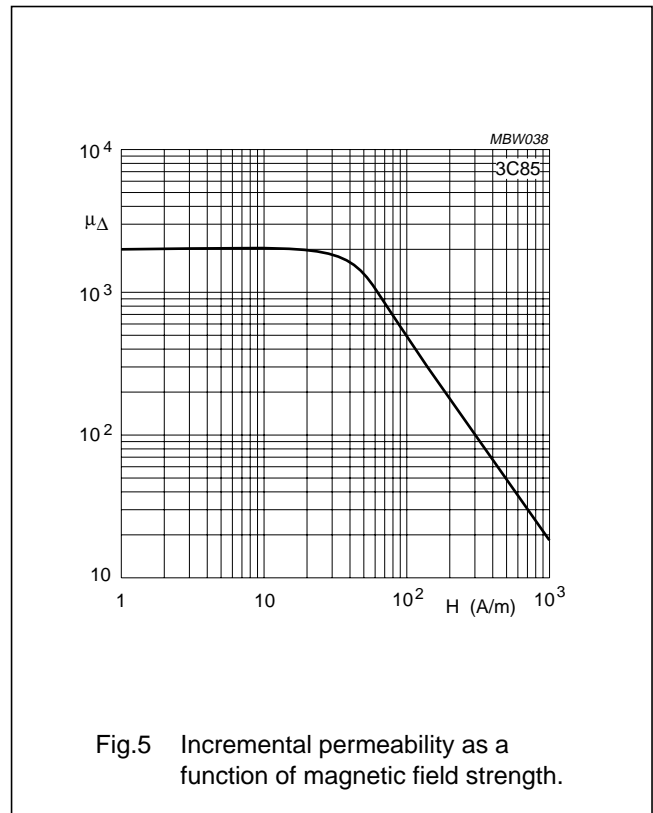
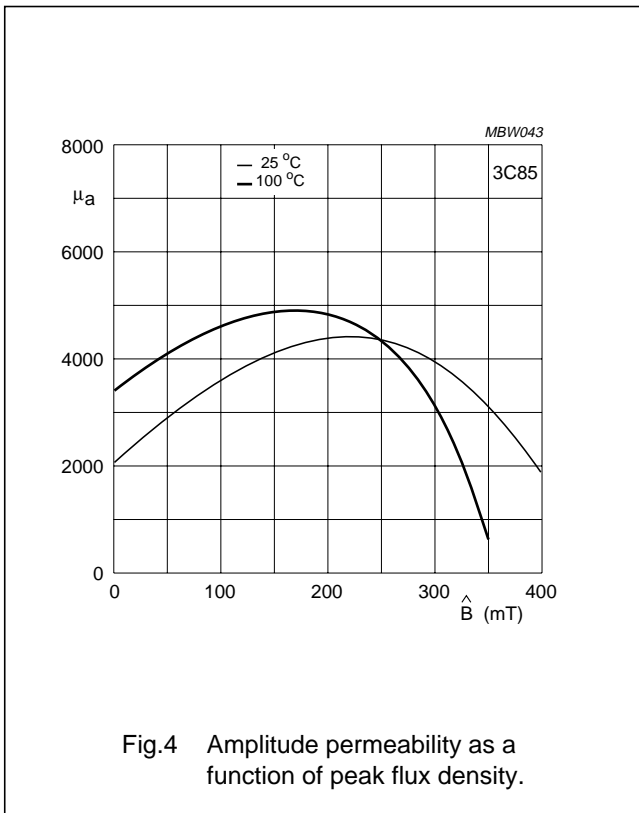


Fig.3 Typical B-H loops.

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Printed in The Netherlands

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