

ABB Oy Motors		Classifying code or document type PERFORMANCE DATA OF GENERATOR				
Department/Author MLA600/JARI		Date of issue	Lang. En	Rev. date	Our ref. ACI 2008 0026 WM / AF	
Customer ref.		Saving Ident M2FG315SMA8 90kW			Rev./Changed by A	Pages 1/3

Driven Generator:

Generator type code Generator type Mounting designation Protected by enclosure Method of cooling Insulation Standards Ambient temperature, max. Altitude, max.		M2FG 315SMA 8 Squirrel cage generator IM 1001 IP 55 IC411 Class F IEC 40 °C 1000 m.a.s.l.		
Duty type Temp. rise Connection of stator winding Rated output Voltage Frequency Speed Current		S1 Class B Delta 90 kW 400 V 50 Hz 760 r/min 176 A		
Relat. starting current Relat. starting torque Relat. maximum torque Rated torque		6,9 -1,7 3,3 -1214 Nm		
Load characteristics	Load %	Current A	Efficiency %	Power Factor
	100	176	93,2	0,74
	75	144	93,1	0,68
	50	116	92,2	0,56

- All generator data is subject to tolerances in accordance with IEC.
- Calculated values.

ABB Oy

Motors

Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

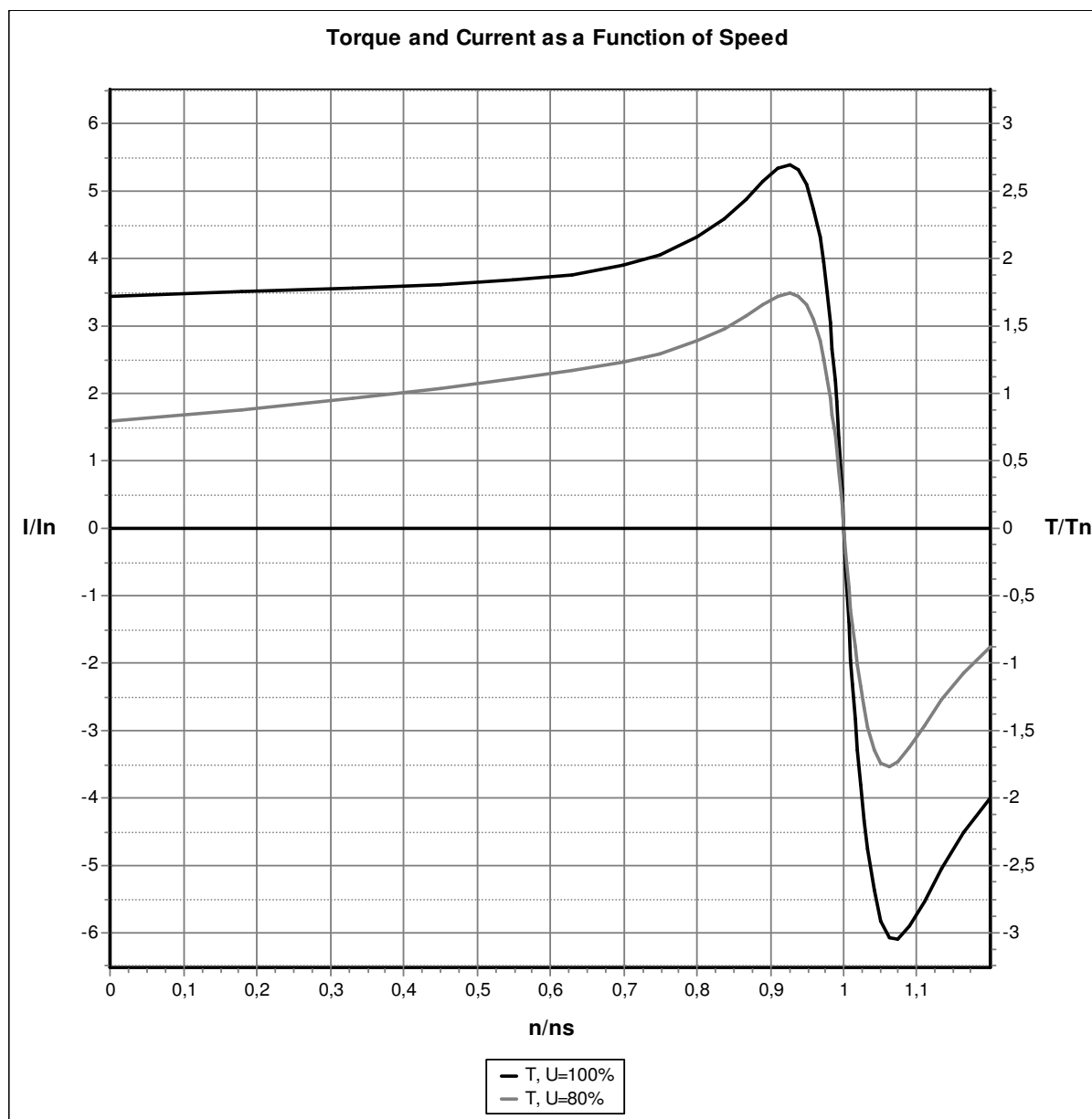
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Equivalent circuit corresponding to star-connection

Running							
Stator resistance R_1 (130 °C)	0,0299 Ω			Rotor resistance R_2' (175 °C)	0,0211 Ω		
Stator reactance X_1	0,1319 Ω			Rotor reactance X_2'	0,1668 Ω		
Magnetizing reactance X_m	2,60 Ω			Iron loss resistance R_{Fe}	0,12 k Ω		
Starting							
Stator resistance R_1 (50 °C)	0,0233 Ω			Rotor resistance R_2' (50 °C)	0,0351 Ω		
Stator reactance X_1	0,0976 Ω			Rotor reactance X_2'	0,1013 Ω		
Ambient condition							
Stator resistance R_1 (40 °C)	0,0225 Ω			Rotor resistance R_2' (40 °C)	0,0339 Ω		

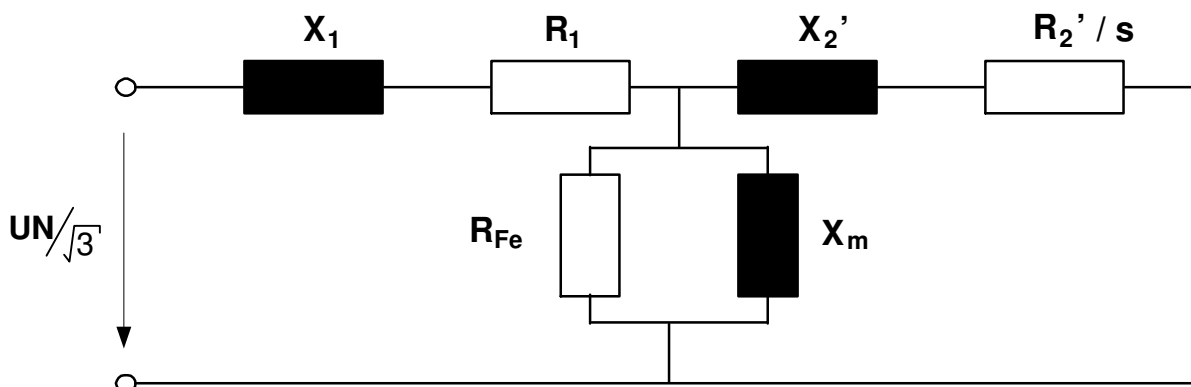


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