

DATA SHEETPRELIMINARY
DOCUMENT**Three Phase Induction Motor - Squirrel Cage**

Customer :

Product line : W01 - TEFC - Nema Premium Efficiency JM Derating
Product code : 13180570

Frame	: 213/5	Locked rotor time	: 15 s (hot) 27 s (cold)
Output	: 10 HP (7.5 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 24.2/12.1 A	Protection degree	: IP55
L. R. Amperes	: 176/88.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.3 Code H	Mounting	: F-1/B34R(D)
No load current	: 10.8/5.40 A	Rotation ¹	: Both
Rated speed	: 1770 rpm	Noise level ²	: 60 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 4.10 kgfm	Approx. weight ³	: 64.4 kg
Locked rotor torque	: 210 %	Design	: B
Pull up torque	: 225 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0451 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	90.2	91.0	91.7	Load torque	: -
Power Factor	0.55	0.68	0.80	0.85	Load inertia (J=GD ² /4)	: -

	Drive end	Non drive end
Bearing type	6209-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.80	7.69	7.33	4.23	3.04	2.02	1.48

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

This revision replaces and cancel the previous one, which must be eliminated..

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +0dB(A).

(3) Approximate weight, subject to be changed after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

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LOAD PERFORMANCE CURVE

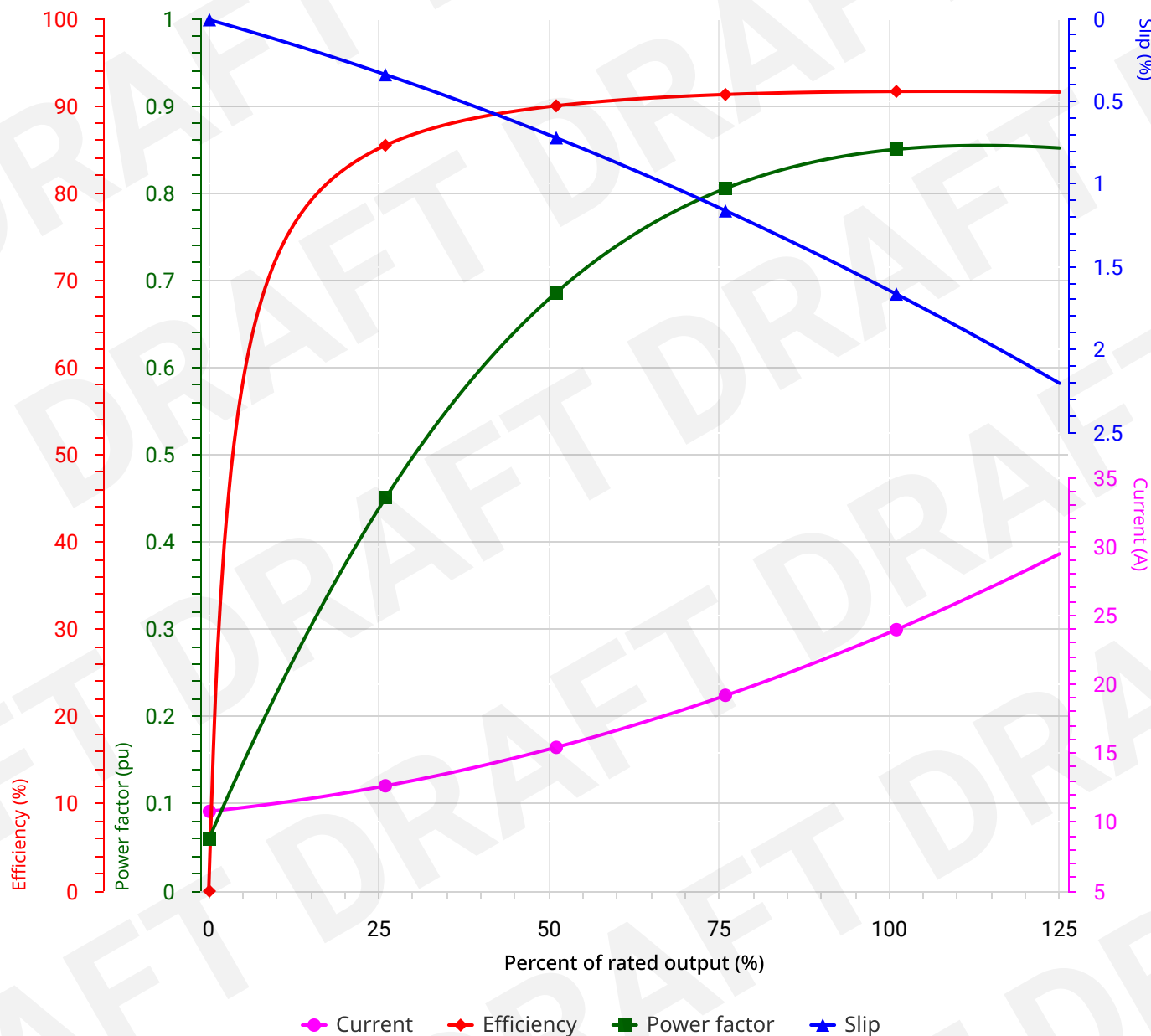
PRELIMINARY
DOCUMENT



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Product code : 13180570



Performance : 10 HP (7.5 kW) 208/230/460V 60Hz 4P 213/5

Rated current : 27.0/24.2/12.1 A
LRC : 7.3 Code H
Rated torque : 4.10 kgfm
Locked rotor torque : 210 %
Breakdown torque : 290 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.0451 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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