

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

Customer :

Product line : W22 Cooling Tower - TEFC - NEMA Premium Efficiency
Product code : 18952563

Frame	: 254/6T	Locked rotor time	: 21 s (hot) 38 s (cold)
Output	: 15 HP (11 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 14.4 A	Protection degree	: IP55
L. R. Amperes	: 92.2 A	Cooling method	: IC418 - TEAO
LRC	: 6.4 Code G	Minimum air speed over motor	: 10.1 m/s
No load current	: 5.84 A	Mounting	: B3R(D)
Rated speed	: 1770 rpm	Rotation ¹	: Both
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 6.15 kgfm	Approx. weight ³	: 114 kg
Locked rotor torque	: 230 %	Design	: B
Pull up torque	: 195 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	91.0	91.7	92.4	Load torque	: -
Power Factor	0.48	0.68	0.78	0.83	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end 6309-2RS-C3	Non drive end 6209-2RS-C3	Foundation loads	
Lubrication interval	-	-	Max. traction	: 182 kgf
Lubricant amount	-	-	Max. compression	: 296 kgf
Lubricant type	POLYUREA BASED GREASE			

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)
8.07	6.99	6.54	3.90	2.76	1.82	1.32

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

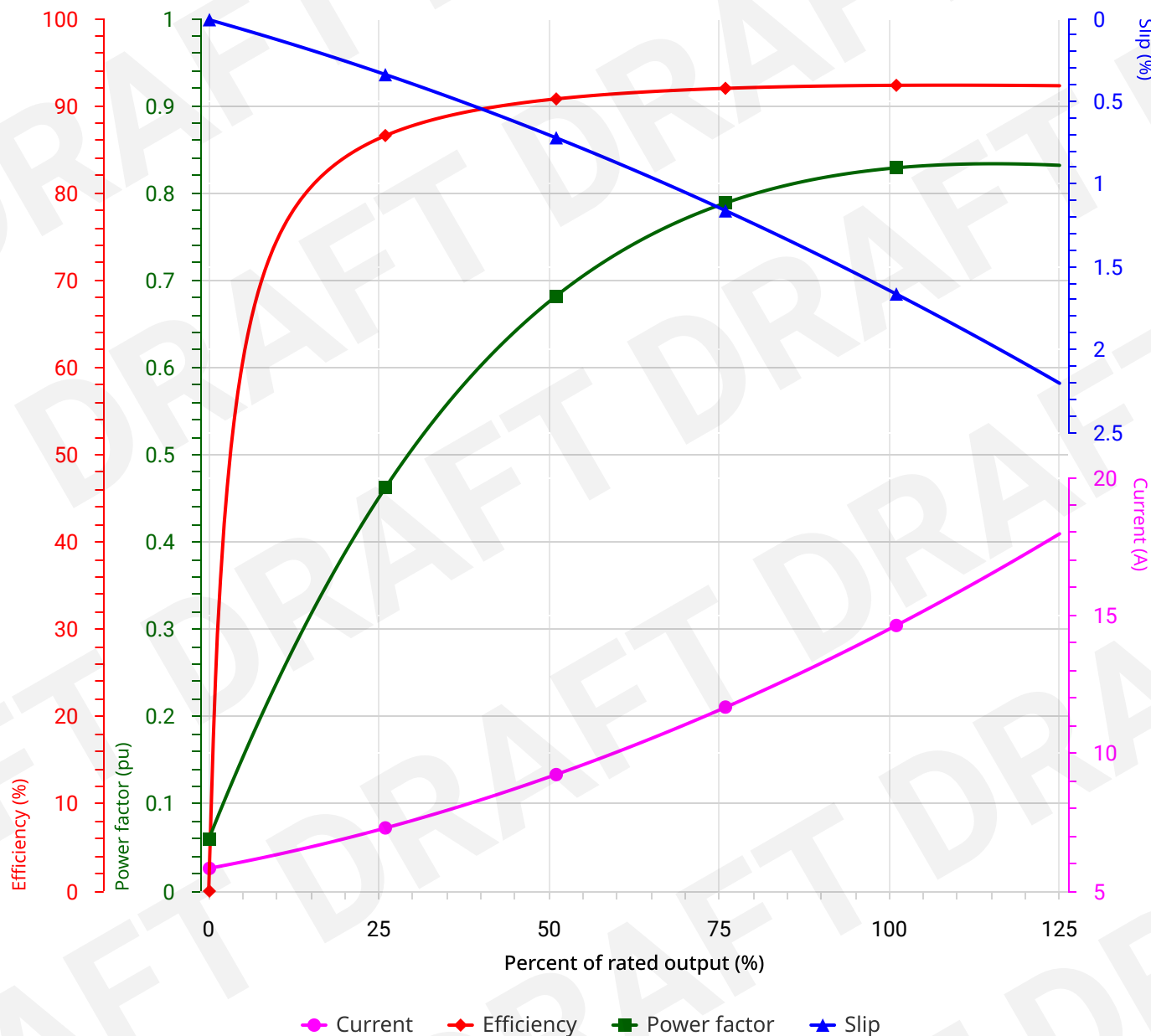
PRELIMINARY
DOCUMENT



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Performance : 15 HP (11 kW) 575V 60Hz 4P 254/6T

Rated current : 14.4 A	Moment of inertia (J) : 0.1104 kgm ²
LRC : 6.4 Code G	Duty cycle : Cont.(S1)
Rated torque : 6.15 kgfm	Insulation class : F
Locked rotor torque : 230 %	Service factor : 1.25
Breakdown torque : 250 %	Temperature rise : 80 K
Rated speed : 1770 rpm	Design : B

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