DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 15015298

Frame	: 404/5HPH	Locked rotor time	: 13 s (hot) 23 s (cold)
Output	: 100 HP (75 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	: 90.4 A	Protection degree	: IP55
L. R. Amperes	: 660 A	Cooling method	: IC411 - TEFC
LRC	: 7.3 Code H	Mounting	: V1
No load current	: 30.4 A	Rotation[1]	: Both
Rated speed	: 1780 rpm	Noise level[2]	: 68 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 40.8 kgfm	Approx. weight[3]	: 517 kg
Locked rotor torque	: 240 %	Design	: B
Pull up torque	: 185 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.26 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	95.0	95.0	95.4
Power Factor	0.43	0.77	0.84	0.87

	Load type	: -
	Load torque	: -
	Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6316-C3	6314-C3
Lubrication interval	5000 h	6000 h
Lubricant amount	34 g	27 g
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)
4.67	3.85	3.66	2.20	1.47	0.92	0.60

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.

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/24

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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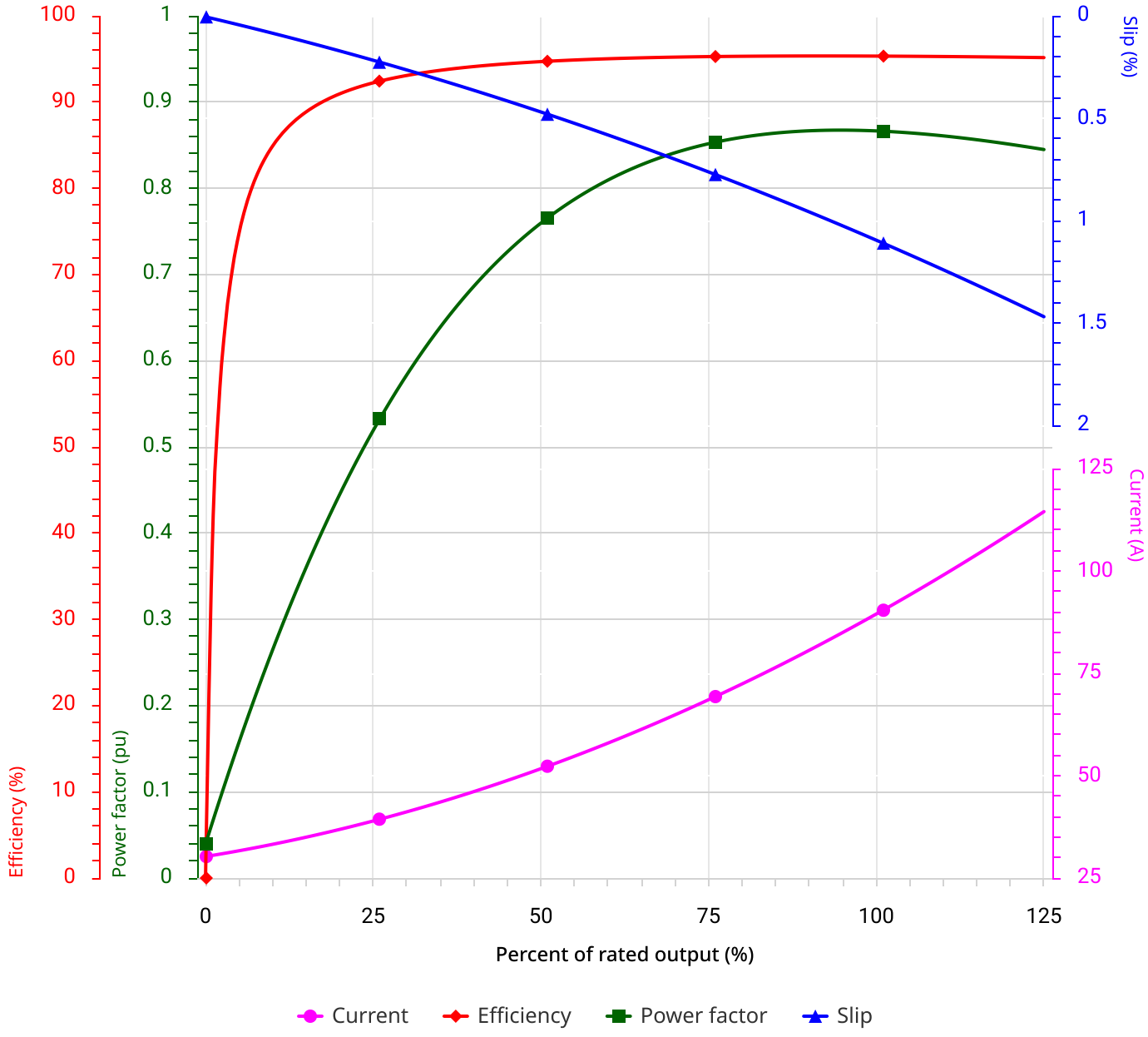
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 15015298



Performance	: 100 HP (75 kW) 575V 60Hz 4P 404/5HPH

Rated current	: 90.4 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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