DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency
Product code	: 11616141

Frame	: 444/5TS	Locked rotor time	: 29 s (hot) 52 s (cold)
Output	: 125 HP (90 kW)	Temperature rise[4]	: 80 K
Poles	: 2	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	: 109 A	Protection degree	: IP55
L. R. Amperes	: 765 A	Cooling method	: IC411 - TEFC
LRC	: 7.0 Code G	Mounting	: B3R(D)
No load current	: 32.0 A	Rotation[1]	: Both
Rated speed	: 3573 rpm	Noise level[2]	: 81 dB(A)
Slip	: 0.75 %	Starting method	: Direct On Line
Rated torque	: 25.4 kgfm	Approx. weight[3]	: 741 kg
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 140 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.41 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	93.6	94.5	95.0
Power Factor	0.31	0.78	0.85	0.87

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

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	4000 h	4000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 221 kgf
Max. compression	: 962 kgf

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)
4.26	2.89	2.43	2.74	1.41	1.06	0.57

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
				2026/11/06

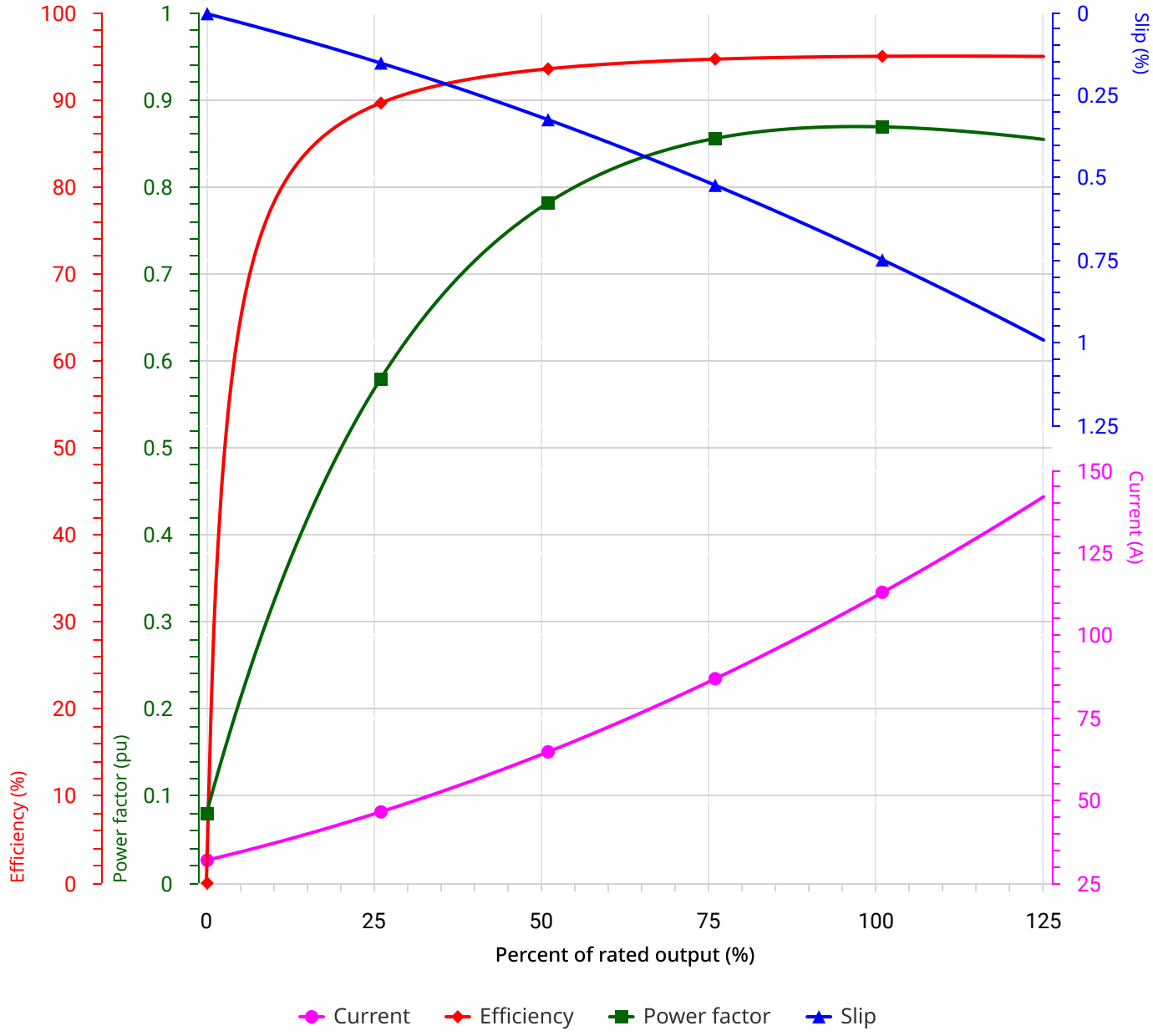
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 11616141



Performance	: 125 HP (90 kW) 575V 60Hz 2P 444/5TS

Rated current	: 109 A	Moment of inertia (J)	: 1.41 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 25.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3573 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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