DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency
Product code	: 11164525

Frame	: 404/5T
Output	: 100 HP (75 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 90.4 A
L. R. Amperes	: 660 A
LRC	: 7.3 Code H
No load current	: 30.4 A
Rated speed	: 1780 rpm
Slip	: 1.11 %
Rated torque	: 40.8 kgfm
Locked rotor torque	: 240 %
Pull up torque	: 185 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 1.26 kgm²

Locked rotor time	: 13 s (hot) 23 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 68 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 517 kg
Design	: B

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	NU-316-C3	6314-C3
Lubrication interval	7000 h	12000 h
Lubricant amount	34 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 771 kgf
Max. compression	: 1288 kgf

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load. Thus, WEG reserves the right to test the motor with ball bearings.

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
				2026/11/21

Performed by	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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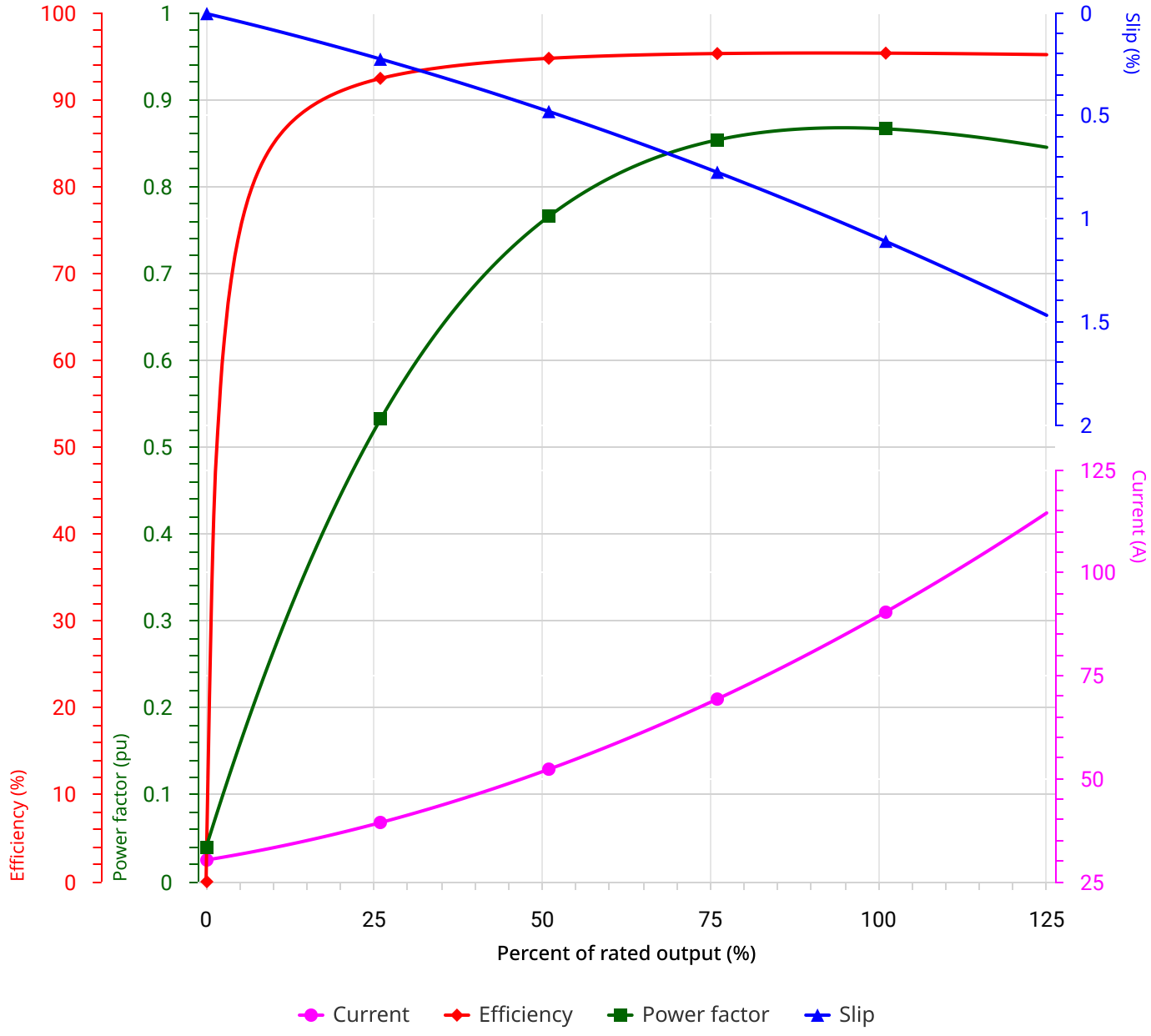
Product line	: W22 - Nema Premium Efficiency
Product code	: 11164525



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

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

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