DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency

Frame	: 404/5TSC	Locked rotor time	: 14 s (hot) 25 s (cold)
Output	: 100 HP (75 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	: 89.6 A	Protection degree	: IP55
L. R. Amperes	: 582 A	Cooling method	: IC411 - TEFC
LRC	: 6.5 Code G	Mounting	: B34R(D)
No load current	: 20.8 A	Rotation[1]	: Both
Rated speed	: 3545 rpm	Noise level[2]	: 79 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 20.5 kgfm	Approx. weight[3]	: 500 kg
Locked rotor torque	: 240 %	Design	: B
Pull up torque	: 160 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.5561 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	93.0	94.1	94.1
Power Factor	0.39	0.83	0.88	0.89

	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 : 267 kgf
Max. compression : 767 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)
5.94	4.64	4.38	2.79	1.63	0.94	0.54

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
				2026/11/12

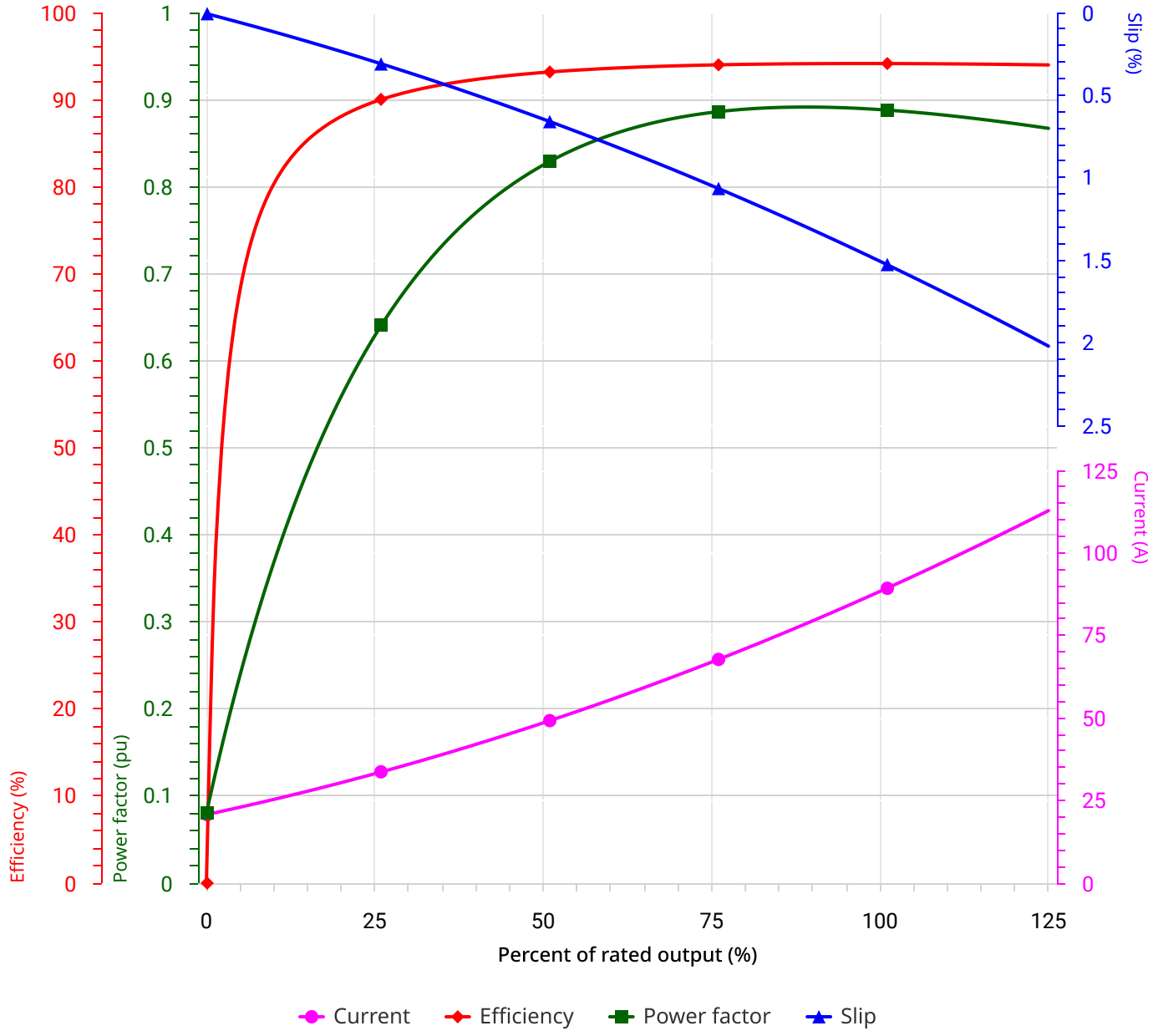
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency



Performance	: 100 HP (75 kW) 575V 60Hz 2P 404/5TSC

Rated current	: 89.6 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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