DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)

Frame	: 444/5TC	Locked rotor time	: 27 s (hot) 49 s (cold)
Output	: 125 HP (90 kW)	Temperature rise[4]	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 279/139 A	Protection degree	: IP55
L. R. Amperes	: 1811/905 A	Cooling method	: IC411 - TEFC
LRC	: 6.5 Code G	Mounting	: B34R(D)
No load current	: 92.0/46.0 A	Rotation[1]	: Both
Rated speed	: 1785 rpm	Noise level[2]	: 73 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 50.8 kgfm	Approx. weight[3]	: 721 kg
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 155 %		
Breakdown torque	: 230 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.41 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	95.0	95.4	95.4
Power Factor	0.32	0.74	0.82	0.85

	Drive end	Non drive end
Bearing type	6319-C3	6316-C3
Lubrication interval	8000 h	10000 h
Lubrication amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

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

Foundation loads
Max. traction : 649 kgf
Max. compression : 1370 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)
4.52	3.37	3.01	2.41	1.40	0.94	0.56

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

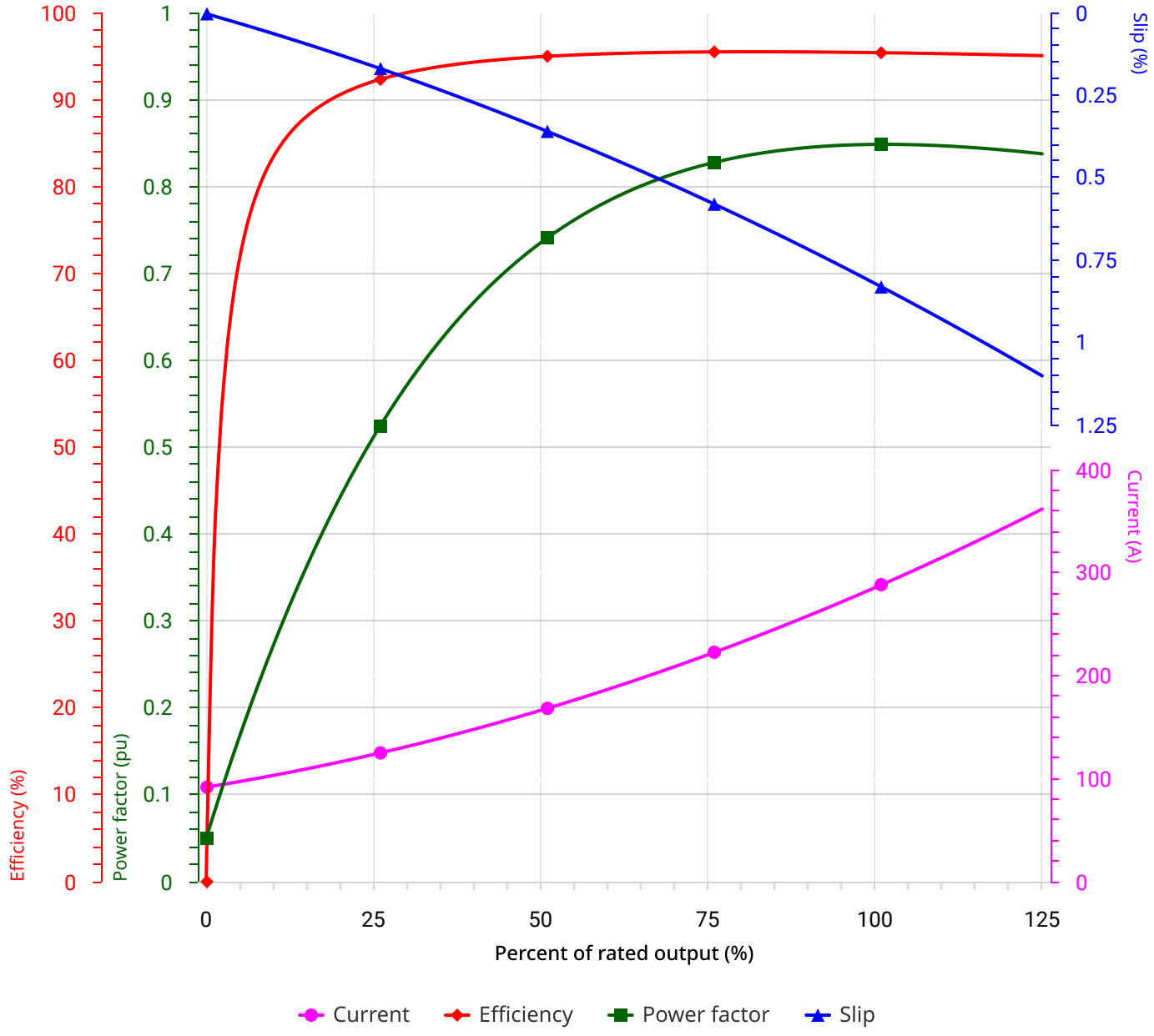
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)



Performance	: 125 HP (90 kW) 208/230/460V 60Hz 4P 444/5TC

Rated current	: 307/279/139 A	Moment of inertia (J)	: 2.41 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 50.8 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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