DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Standard Saw Arbor Motor

Frame	: 90L/MS	Locked rotor time	: 7 s (hot) 13 s (cold)
Output	: 10 HP (7.5 kW)	Temperature rise[4]	: 80 K
Poles	: 2	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 27.2-24.6/12.3 A	Protection degree	: IP54
L. R. Amperes	: 214/107 A	Cooling method	: IC411 - TEFC
LRC	: 8.7 Code K	Mounting	: B3R(D)
No load current	: 8.99/4.50 A	Rotation[1]	: Clockwise
Rated speed	: 3480 rpm	Noise level[2]	: 68 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight[3]	: 75.2 kg
Locked rotor torque	: 400 %	Design	: N
Pull up torque	: 340 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.014 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	82.0	84.5	85.0
Power Factor	0.68	0.77	0.86	0.9

	Drive end	Non drive end
Bearing type	6308-ZZ	6208-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

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

Foundation loads
Max. traction : 179 kgf
Max. compression : 254 kgf

Notes:

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

Performed by				
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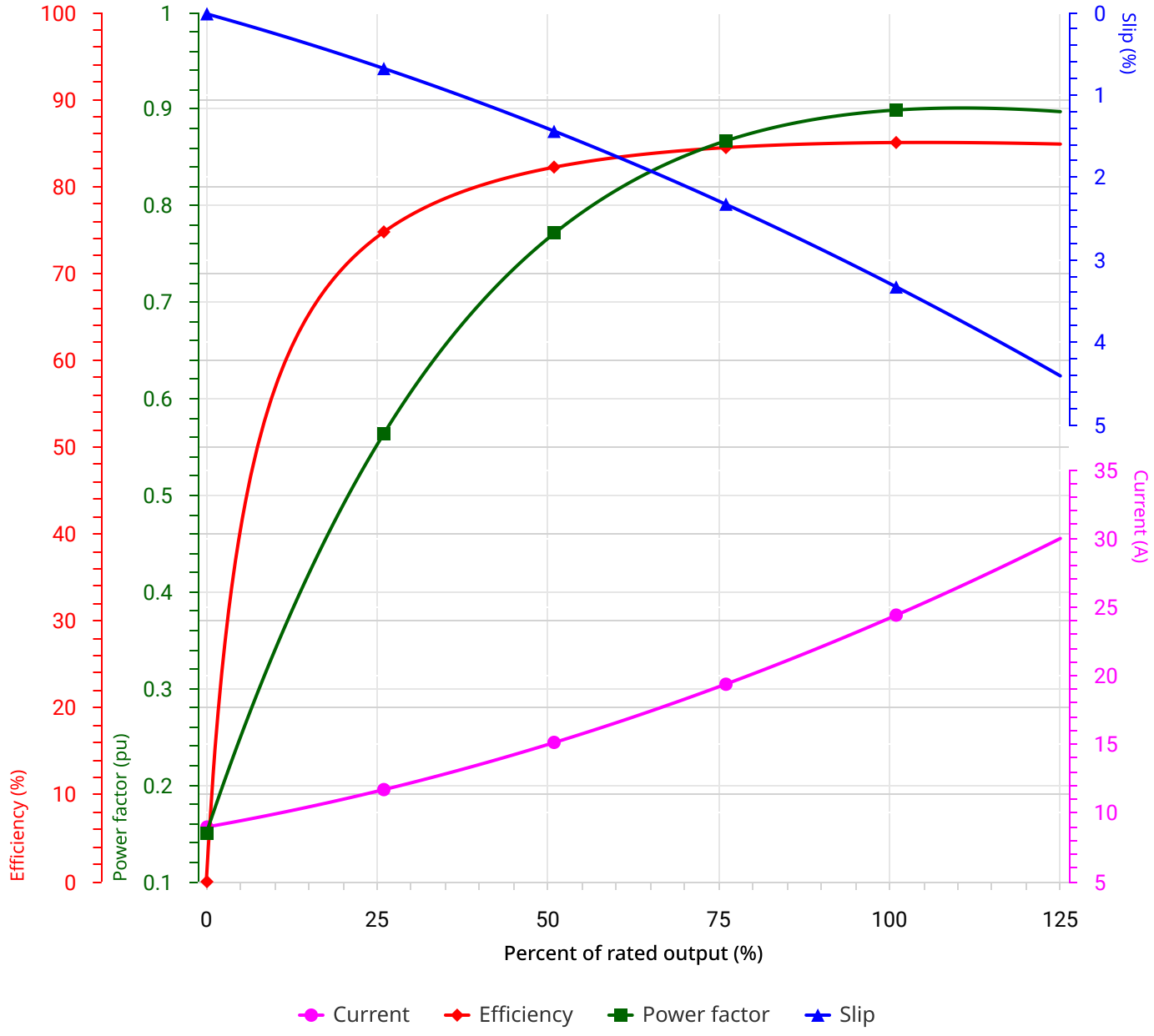
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Standard Saw Arbor Motor



Performance	: 10 HP (7.5 kW) 208/230/460V 60Hz 2P 90L/MS

Rated current	: 27.2/24.6/12.3 A	Moment of inertia (J)	: 0.014 kgm²
LRC	: 8.7 Code K	Duty cycle	: S6
Rated torque	: 2.09 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.00
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
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