DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Standard Saw Arbor Motor

Frame	: 80L/MS	Locked rotor time	: 5 s (hot) 9 s (cold)
Output	: 7.5 HP (5.5 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	: 21.6-19.5/9.75 A	Protection degree	: IP54
L. R. Amperes	: 179/89.7 A	Cooling method	: IC411 - TEFC
LRC	: 9.2 Code L	Mounting	: B3R(D)
No load current	: 8.80/4.40 A	Rotation[1]	: Clockwise
Rated speed	: 3490 rpm	Noise level[2]	: 62 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.56 kgfm	Approx. weight[3]	: 54.5 kg
Locked rotor torque	: 400 %	Design	: N
Pull up torque	: 340 %		
Breakdown torque	: 460 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0061 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	85.2	87.0	87.4
Power Factor	0.77	0.64	0.75	0.81

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

	Drive end	Non drive end
Bearing type	6307-ZZ	6207-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 122 kgf
Max. compression	: 176 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)
14.08	11.90	10.86	6.92	4.85	3.25	2.21

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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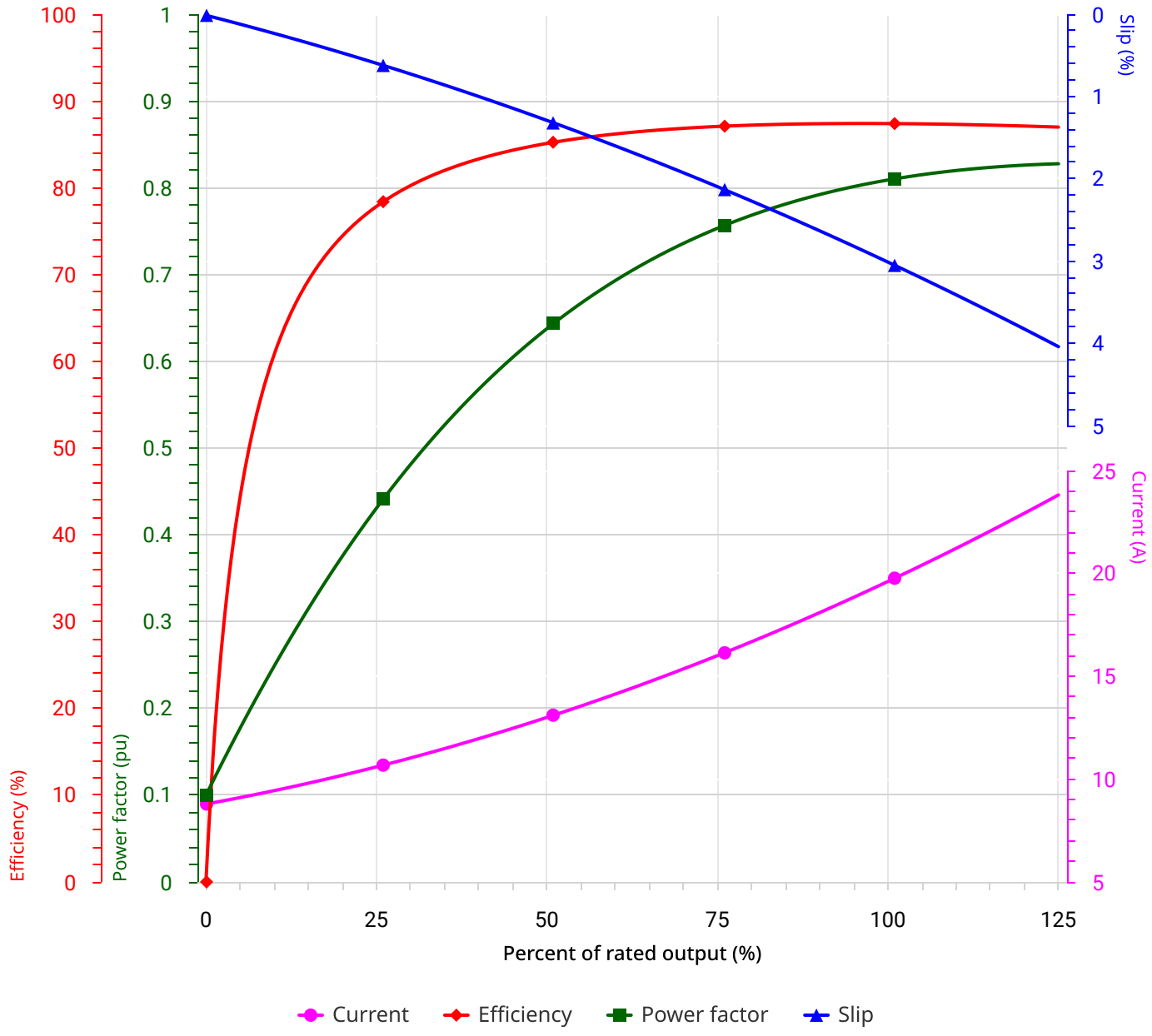
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Standard Saw Arbor Motor



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 80L/MS

Rated current	: 21.6/19.5/9.75 A	Moment of inertia (J)	: 0.0061 kgm²
LRC	: 9.2 Code L	Duty cycle	: S6
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.00
Breakdown torque	: 460 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
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