DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Standard Saw Arbor Motor
Product code	: 14180603

Frame	: 90L/MS
Output	: 7.5 HP (5.5 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 208-230/460 V
Rated current	: 22.4-20.3/10.1 A
L. R. Amperes	: 166/83.1 A
LRC	: 8.2 Code K
No load current	: 10.0/5.02 A
Rated speed	: 1730 rpm
Slip	: 3.89 %
Rated torque	: 3.15 kgfm
Locked rotor torque	: 370 %
Pull up torque	: 310 %
Breakdown torque	: 400 %
Insulation class	: F
Service factor	: 1.00
Moment of inertia (J)	: 0.014 kgm²

Locked rotor time	: 7 s (hot) 13 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S6
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP54
Cooling method	: IC411 - TEFC
Mounting	: B3R(D)
Rotation[1]	: Counter clockwise
Noise level[2]	: 55 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 75.0 kg
Design	: N

Output	Start	50%	75%	100%
Efficiency (%)	-	83.5	85.0	85.3
Power Factor	0.65	0.60	0.74	0.8

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

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

Foundation loads	
Max. traction	: 273 kgf
Max. compression	: 348 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
				2026/11/05

Performed by				
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Date	2026/11/05		1/2	0

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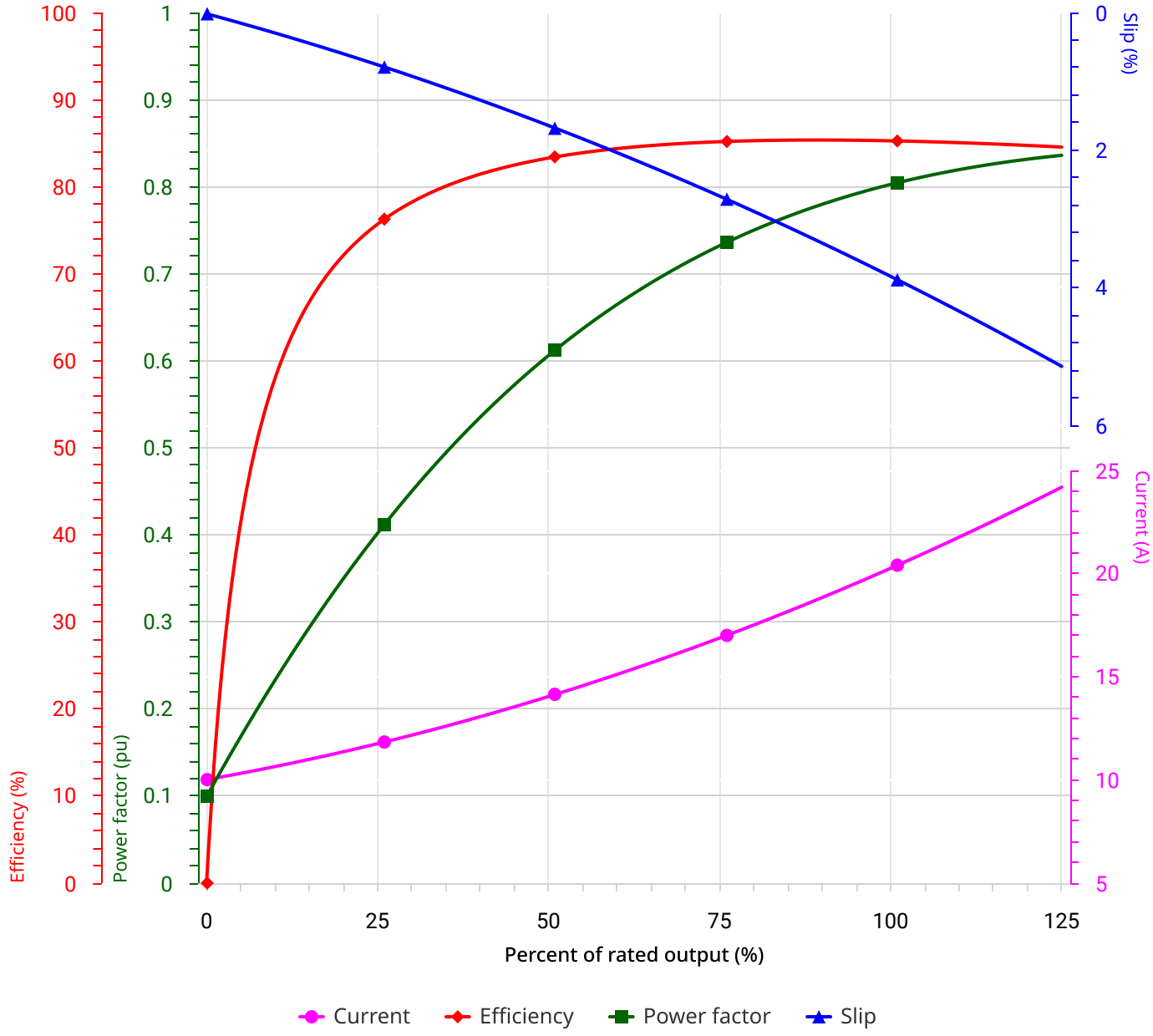
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Standard Saw Arbor Motor
Product code	: 14180603



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 4P 90L/MS

Rated current	: 22.4/20.3/10.1 A	Moment of inertia (J)	: 0.014 kgm²
LRC	: 8.2 Code K	Duty cycle	: S6
Rated torque	: 3.15 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1730 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
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