DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma J
Product code : 13986767

Frame	: 56J
Output	: 2 HP (1.5 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 1.94 A
L. R. Amperes	: 17.2 A
LRC	: 8.9 Code K
No load current	: 0.736 A
Rated speed	: 3510 rpm
Slip	: 2.50 %
Rated torque	: 0.414 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 185 %
Breakdown torque	: 330 %
Insulation class	: F
Service factor	: 1.20
Moment of inertia (J)	: 0.0049 kgm²

Locked rotor time	: 14 s (hot) 25 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP21
Cooling method	: IC01 - ODP
Mounting	: F-1/B14R(D)
Rotation[1]	: Counter clockwise
Noise level[2]	: 62 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 16.7 kg
Design	: A

Output	Start	50%	75%	100%
Efficiency (%)	-	84.0	85.5	85.5
Power Factor	0.67	0.77	0.86	0.91

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

	Drive end	Non drive end
Bearing type	6203-ZZ	6202-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 35 kgf
Max. compression : 52 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)
19.50	17.90	16.15	9.05	6.12	3.82	2.59

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
				2026/11/09

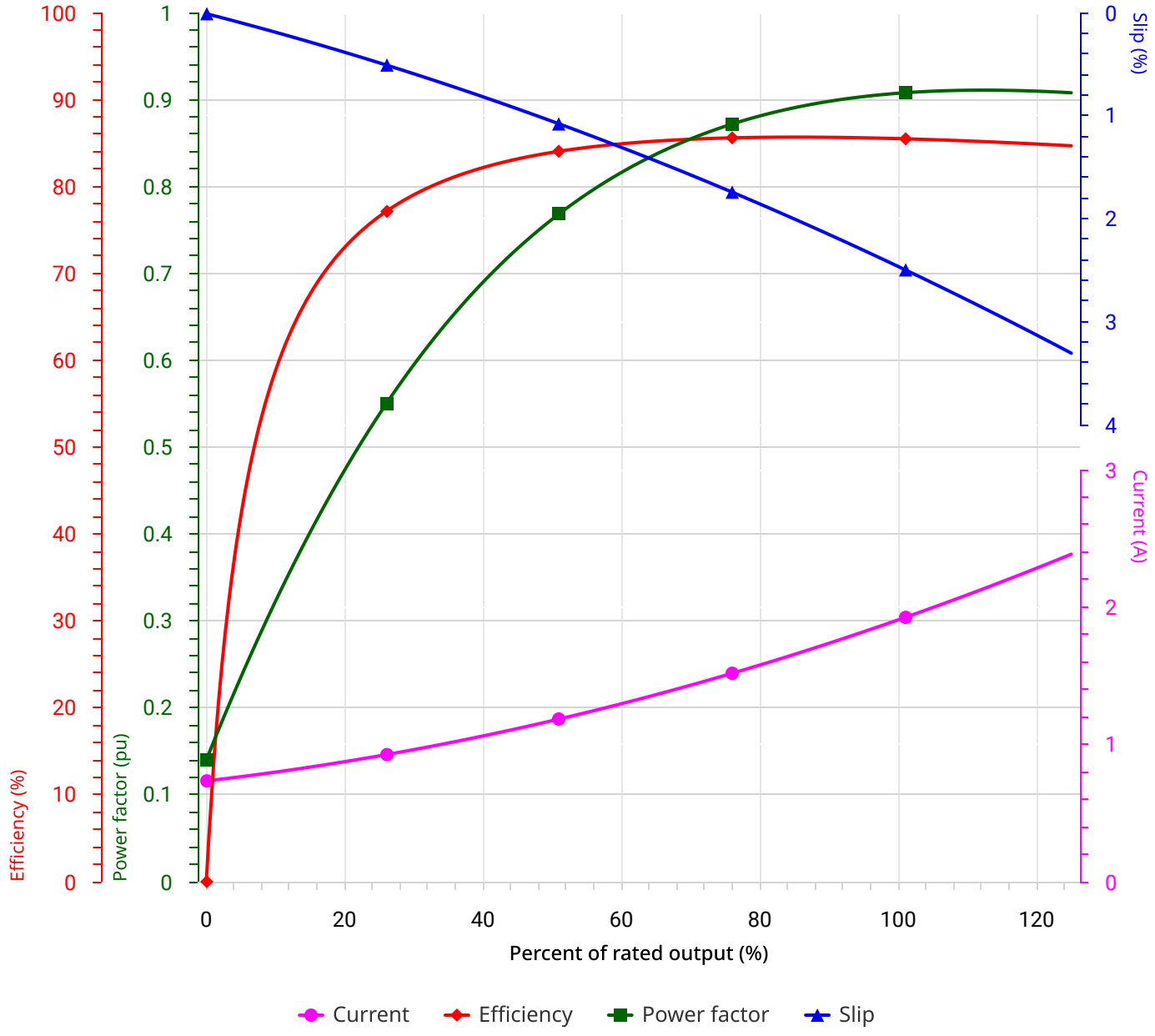
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma J
Product code	: 13986767



Performance	: 2 HP (1.5 kW) 575V 60Hz 2P 56J

Rated current	: 1.94 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 8.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.414 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.20
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
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