DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - TEFC - Nema Premium Efficiency JM
Product code : 13180546

Frame	: 182/4JM
Output	: 5 HP (3.7 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 5.19 A
L. R. Amperes	: 36.3 A
LRC	: 7.0 Code J
No load current	: 2.75 A
Rated speed	: 1750 rpm
Slip	: 2.78 %
Rated torque	: 2.07 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 185 %
Breakdown torque	: 300 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.013 kgm²

Locked rotor time	: 12 s (hot) 22 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	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1/B34R(D)
Rotation[1]	: Both
Noise level[2]	: 56 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 32.4 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	88.5	89.5	89.5
Power Factor	0.54	0.60	0.73	0.8

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

	Drive end	Non drive end
Bearing type	6207-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

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)
14.05	13.15	12.90	6.64	5.13	3.57	2.79

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
				2026/11/11

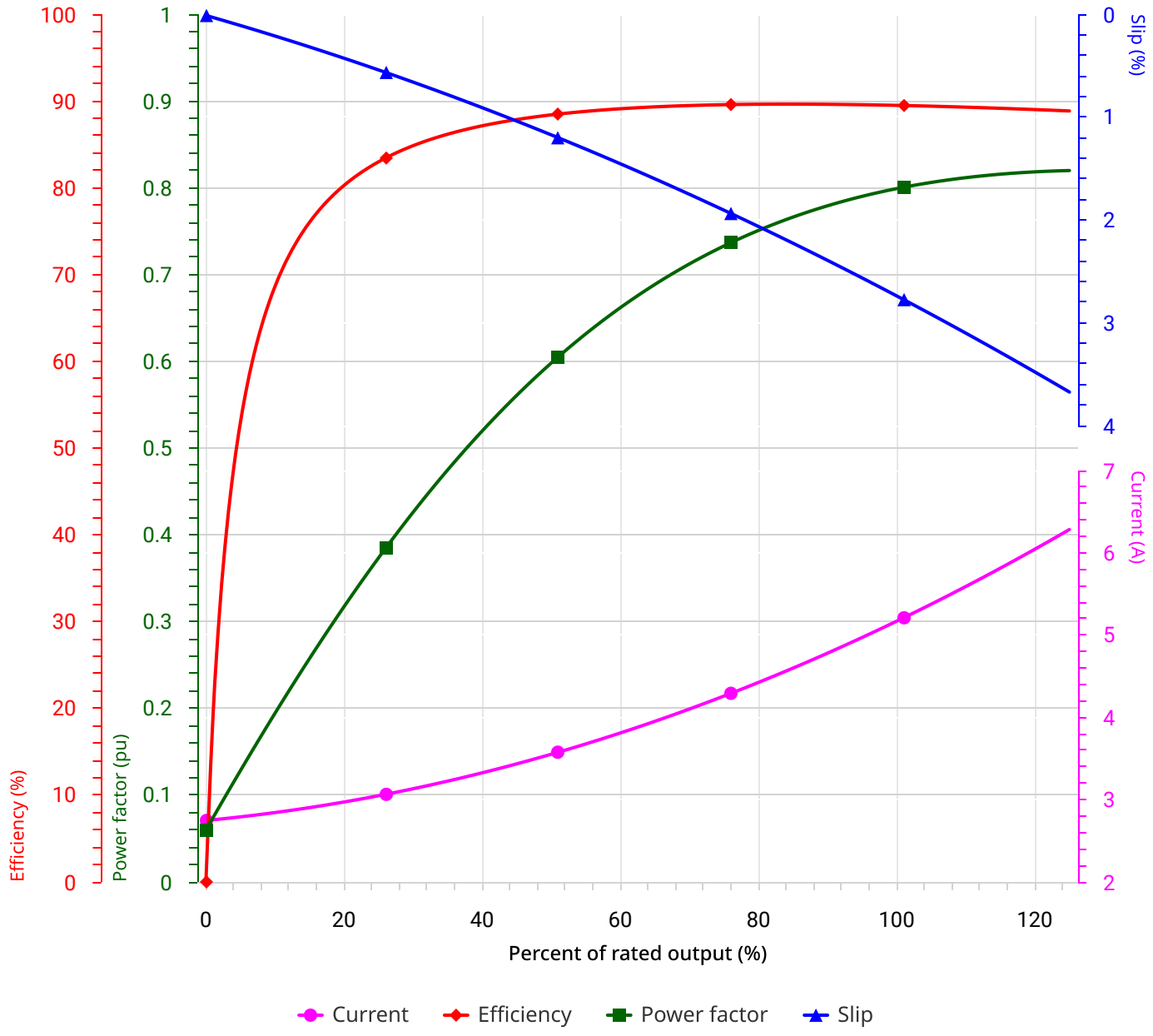
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM
Product code	: 13180546



Performance	: 5 HP (3.7 kW) 575V 60Hz 4P 182/4JM

Rated current	: 5.19 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 7.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.07 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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