DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer :

Product line : W01 - TEFC - Nema Premium Efficiency Derating
Product code : 16404382

Frame	: 143/5T
Output	: 2 HP (1.5 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 4.94/2.47 A
L. R. Amperes	: 48.9/24.5 A
LRC	: 9.9 Code L
No load current	: 2.12/1.06 A
Rated speed	: 3520 rpm
Slip	: 2.22 %
Rated torque	: 0.412 kgfm
Locked rotor torque	: 250 %
Pull up torque	: 210 %
Breakdown torque	: 300 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.0054 kgm²

Locked rotor time	: 13 s (hot) 23 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/B14R(D)
Rotation[1]	: Both
Noise level[2]	: 68 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 18.4 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	82.5	85.5	85.5
Power Factor	0.66	0.73	0.83	0.89

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

	Drive end	Non drive end
Bearing type	6205-ZZ	6203-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)
17.81	13.82	12.70	9.98	5.45	3.73	2.19

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
				2026/10/22

Performed by				
Checked by			Page	Revision
Date	2026/10/22		1/2	0

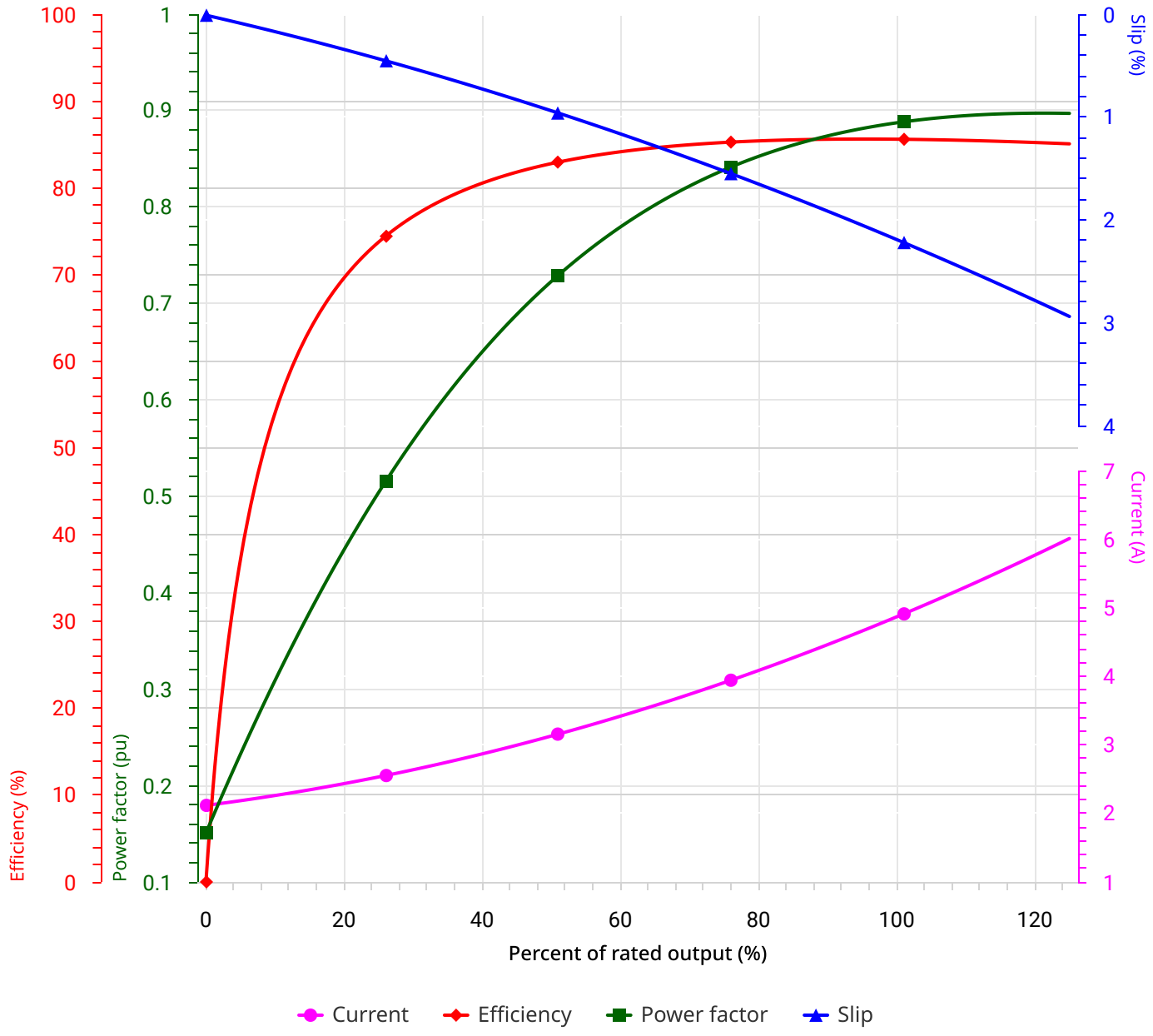
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 16404382



Performance	: 2 HP (1.5 kW) 208/230/460V 60Hz 2P 143/5T

Rated current	: 5.46/4.94/2.47 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 9.9 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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