DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency
Product code	: 12845573

Frame	: 254/6TC
Output	: 20 HP (15 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 19.8 A
L. R. Amperes	: 132 A
LRC	: 6.7 Code H
No load current	: 8.89 A
Rated speed	: 1765 rpm
Slip	: 1.94 %
Rated torque	: 8.22 kgfm
Locked rotor torque	: 270 %
Pull up torque	: 230 %
Breakdown torque	: 300 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.1113 kgm²

Locked rotor time	: 16 s (hot) 29 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]	: 68 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 103 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	91.7	92.4	93.0
Power Factor	0.51	0.66	0.77	0.82

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

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
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)
7.22	5.83	5.41	4.29	2.95	2.29	1.66

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
				2026/11/13

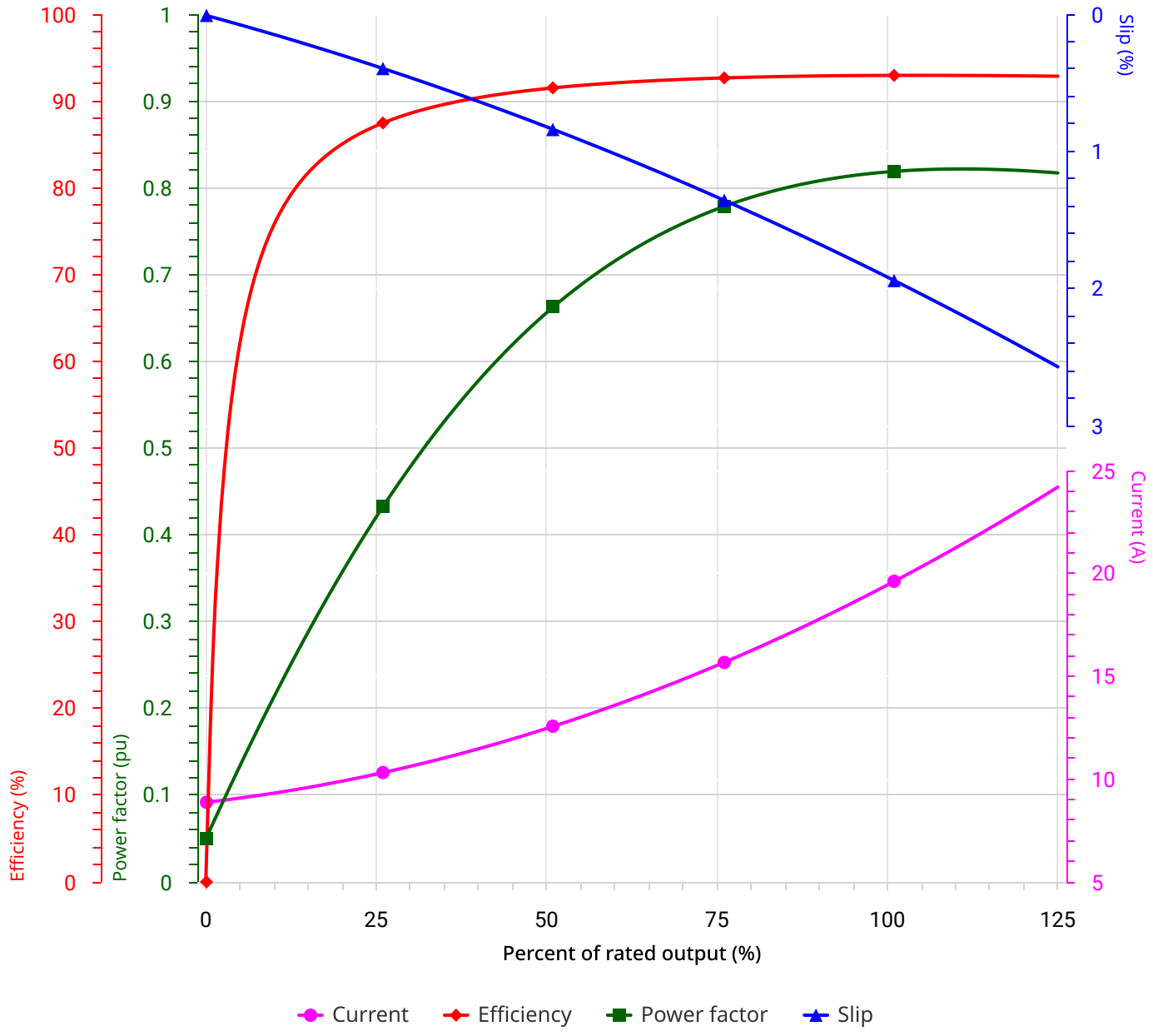
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency
Product code	: 12845573



Performance	: 20 HP (15 kW) 575V 60Hz 4P 254/6TC

Rated current	: 19.8 A	Moment of inertia (J)	: 0.1113 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 8.22 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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