DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 16577068

Frame	: 254/6T
Output	: 20 HP (15 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 48.2/24.1 A
L. R. Amperes	: 313/157 A
LRC	: 6.5 Code G
No load current	: 19.2/9.60 A
Rated speed	: 1770 rpm
Slip	: 1.67 %
Rated torque	: 8.20 kgfm
Locked rotor torque	: 240 %
Pull up torque	: 195 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.1305 kgm²

Locked rotor time	: 18 s (hot) 32 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	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 64 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 132 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	91.7	92.4	93.0
Power Factor	0.48	0.68	0.79	0.84

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

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 265 kgf
Max. compression	: 397 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)
7.45	6.50	6.04	3.50	2.51	1.62	1.16

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

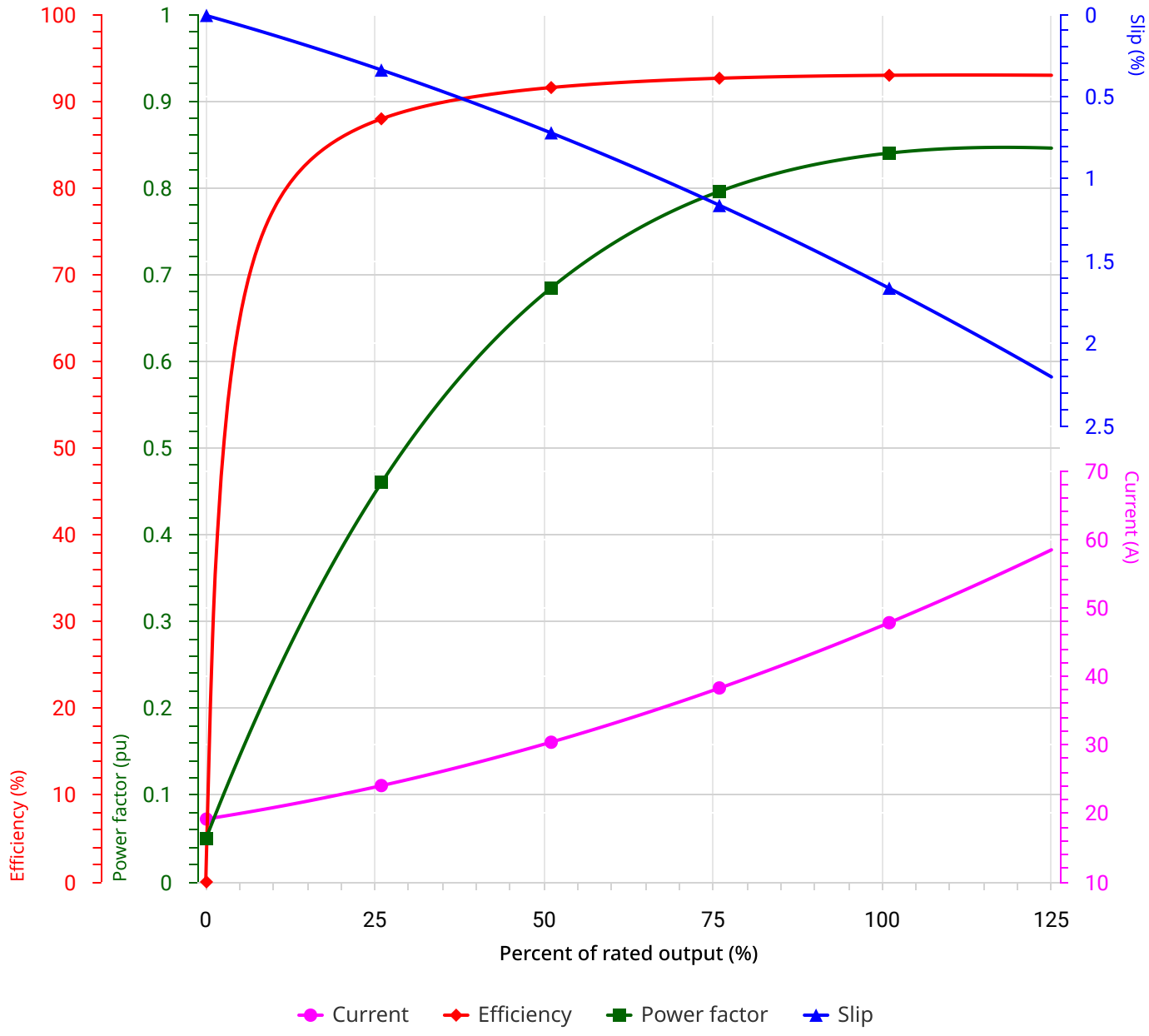
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 16577068



Performance	: 20 HP (15 kW) 208/230/460V 60Hz 4P 254/6T

Rated current	: 53.3/48.2/24.1 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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