DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Brake - Nema Premium Efficiency
Product code	: 14103845

Frame	: 182/4T
Output	: 3 HP (2.2 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 8.02/4.01 A
L. R. Amperes	: 65.8/32.9 A
LRC	: 8.2 Code K
No load current	: 4.00/2.00 A
Rated speed	: 1765 rpm
Slip	: 1.94 %
Rated torque	: 1.23 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 185 %
Breakdown torque	: 320 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0143 kgm²

Locked rotor time	: 23 s (hot) 41 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]	: 56 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 47.7 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	87.5	88.5	89.5
Power Factor	0.55	0.58	0.69	0.77

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

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads	
Max. traction	: 58 kgf
Max. compression	: 106 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)
12.73	11.15	10.84	6.72	4.99	3.67	2.83

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
				2026/11/05

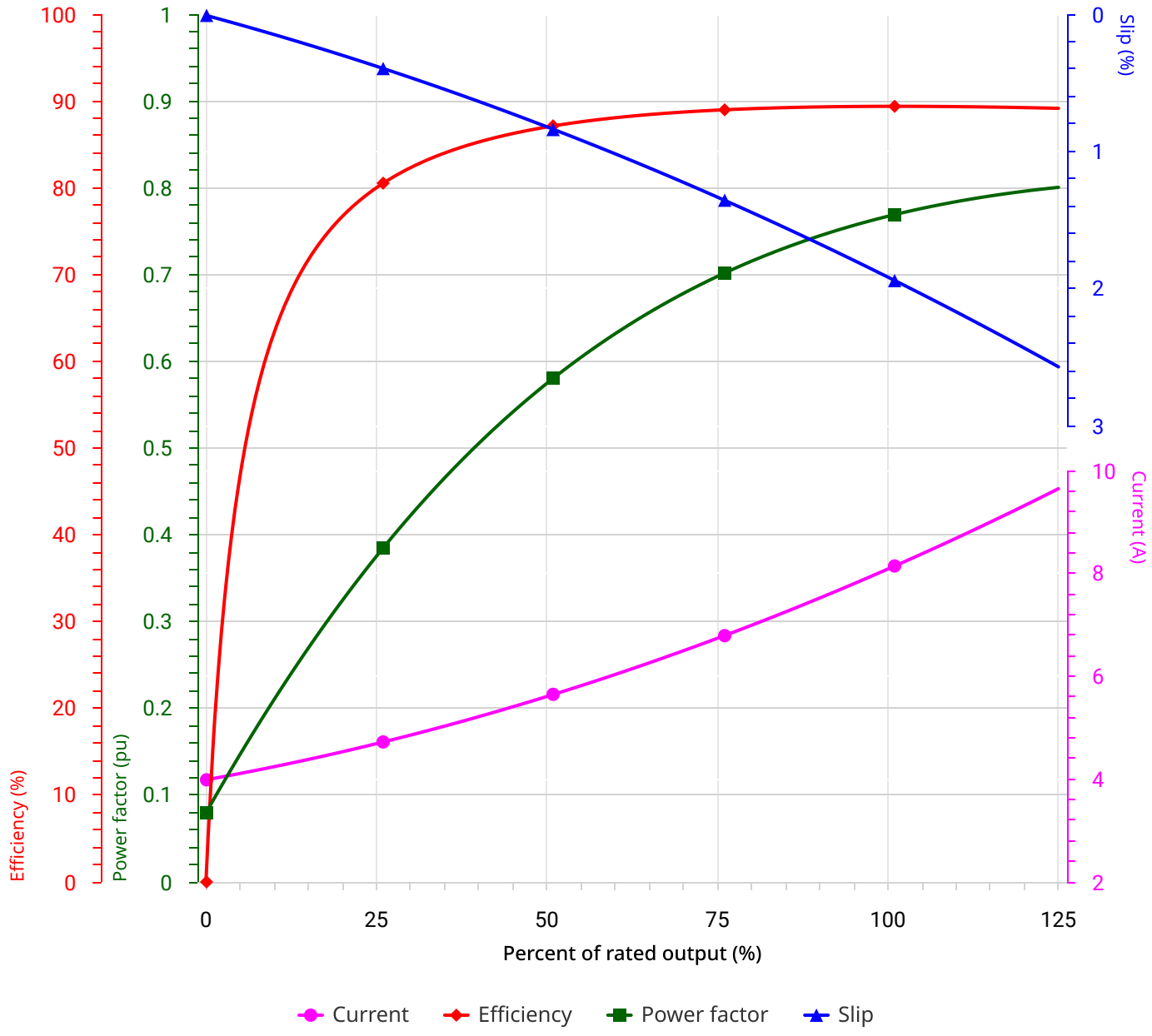
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Brake - Nema Premium Efficiency
Product code	: 14103845



Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 4P 182/4T

Rated current	: 8.65/8.02/4.01 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 8.2 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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