DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Explosion Proof Motors - NEMA 56
Product code	: 10687911

Frame	: B56
Output	: 0.5 HP (0.37 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 208-230/460 V
Rated current	: 1.75-1.63/0.813 A
L. R. Amperes	: 11.1/5.53 A
LRC	: 6.8 Code K
No load current	: 1.25/0.625 A
Rated speed	: 1755 rpm
Slip	: 2.50 %
Rated torque	: 0.207 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 185 %
Breakdown torque	: 330 %
Insulation class	: B
Service factor	: 1.15
Moment of inertia (J)	: 0.0034 kgm²

Locked rotor time	: 15 s (hot) 27 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	: IP44
Cooling method	: TEFC-XP
Mounting	: B34R(D)
Rotation[1]	: Both
Noise level[2]	: 50 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 15.0 kg
Design	:

Output	Start	50%	75%	100%
Efficiency (%)	-	70.0	75.5	77.5
Power Factor	0.00	0.52	0.64	0.73

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

	Drive end	Non drive end
Bearing type	6203-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 14 kgf
Max. compression	: 29 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
				2026/10/23

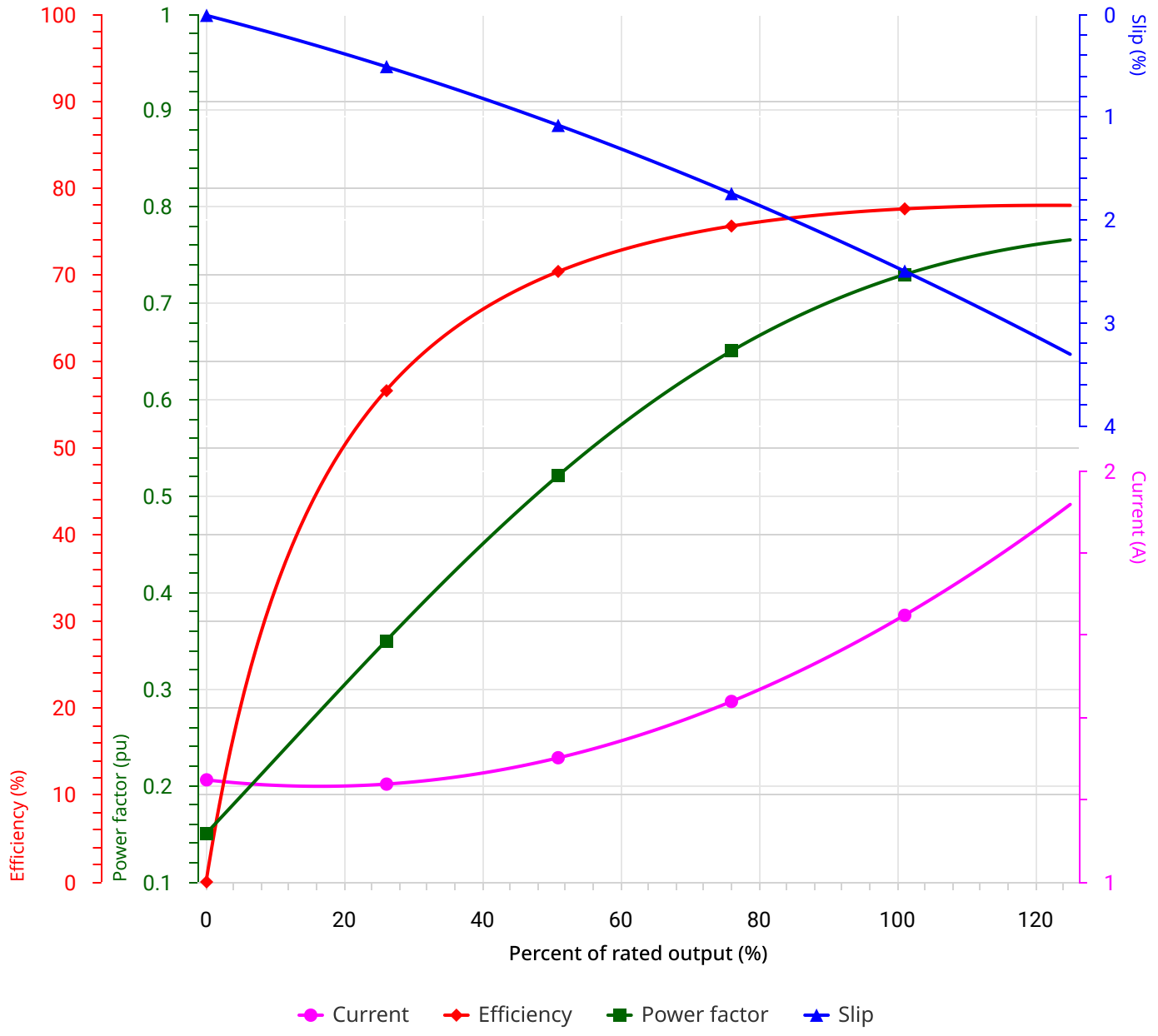
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA 56
Product code	: 10687911



Performance	: 0.5 HP (0.37 kW) 208/230/460V 60Hz 4P B56

Rated current	: 1.75/1.63/0.813 A	Moment of inertia (J)	: 0.0034 kgm²
LRC	: 6.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: B
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm		

Rev.	Changes Summary	Performed	Checked	Date
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