DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: General Purpose Motors - NEMA 56 - TEFC (IP55)

Frame	: G143/5TC	Locked rotor time	: 6 s (hot) 11 s (cold)
Output	: 3 HP (2.2 kW)	Duty cycle	: S1
Poles	: 2	Ambient temperature	: -20 °C to +40 °C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l
Rated voltage	: 115/208-230 V	Protection degree	: IP55
Rated current	: 26.0/14.0-13.0 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 203/101 A	Mounting	: B34R(D)
LRC	: 7.8 Code J	Rotation[1]	: Both
No load current	: 9.00/4.50 A	Noise level[2]	: 60 dB(A)
Rated speed	: 3480 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight[3]	: 24.0 kg
Rated torque	: 0.626 kgfm	Design	:
Locked rotor torque	: 250 %		
Pull up torque	: 210 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.004 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	75.0	79.0	80.0
Power Factor	0.00	0.82	0.90	0.93

	Drive end	Non drive end
Bearing type	6205-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -
Foundation loads	
Max. traction	: -
Max. compression	: -

Notes:

Standards

Specification	: MG1 - Part 10	Vibration	:
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
				2026/11/12

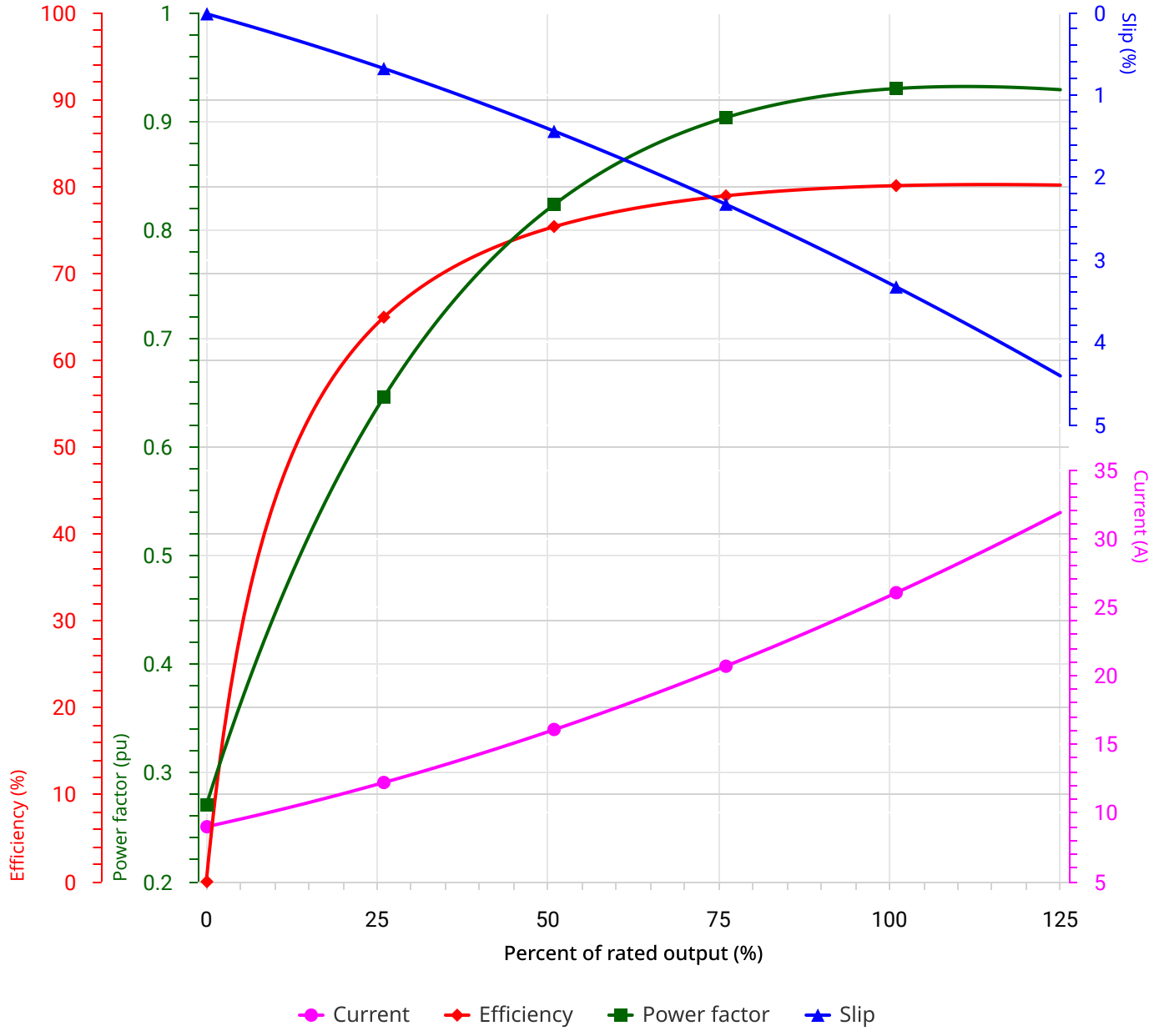
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Date	2026/11/12		1/2	0

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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: General Purpose Motors - NEMA 56 - TEFC (IP55)



Performance	: 3 HP (2.2 kW) 115/208/230V 60Hz 2P G143/5TC

Rated current	: 26.0/14.0/13.0 A	Moment of inertia (J)	: 0.004 kgm²
LRC	: 7.8 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.626 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 3480 rpm		

Rev.	Changes Summary	Performed	Checked	Date
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Date	2026/11/12		2/2	0

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