

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor Product code : 10749051

Frame	: B56J	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.60/3.80-3.80 A	Protection degree	: IP55
L. R. Amperes	: 42.6/21.3-21.3 A	Cooling method	: IC411 - TEFC
LRC	: 5.6x(Code L)	Mounting	: F-1
No load current	: 5.60/2.41-2.80 A	Rotation ¹	: CCW
Rated speed	: 3480 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.104 kgfm	Approx. weight ³	: 11.2 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 280 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0013 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	45.0	52.0	58.0	Max. traction	: 3 kgf
Power Factor	0.56	0.66	0.73	Max. compression	: 15 kgf

	Drive end	Non drive end
Bearing type	: 6203 2RS	: 6202 2RS
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes

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 +3dB(A).
- (3) Approximate weight subject to changes 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
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Date	24/10/2024			

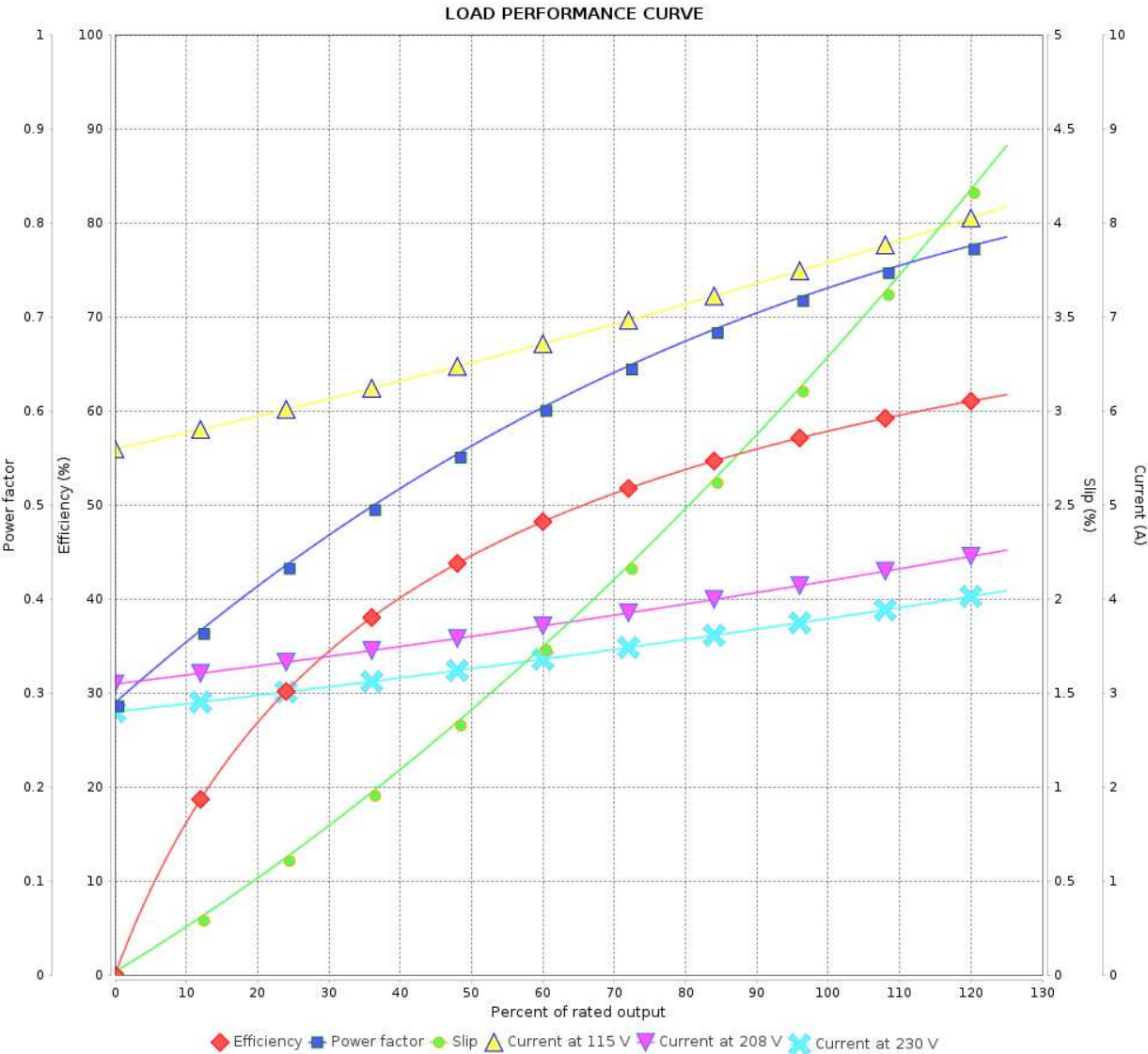
LOAD PERFORMANCE CURVE

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Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor Product code : 10749051



Performance : 115/208-230 V 60 Hz 2P

Rated current	: 7.60/3.80-3.80 A	Moment of inertia (J)	: 0.0013 kgm ²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.104 kgfm	Insulation class	: B
Locked rotor torque	: 320 %	Service factor	:
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm		

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