

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase Product code : 11656982

Frame	: G56HC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 21.0/10.5 A	Protection degree	: IP55
L. R. Amperes	: 145/72.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code K)	Mounting	: F-1
No load current	: 12.4/6.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.829 kgfm	Approx. weight <sup>3</sup>	: 23.8 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 250 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0090 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	74.0	78.0	78.1	Max. traction	: 55 kgf
Power Factor	0.60	0.71	0.78	Max. compression	: 78 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 ZZ
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	20/10/2024			

# LOAD PERFORMANCE CURVE

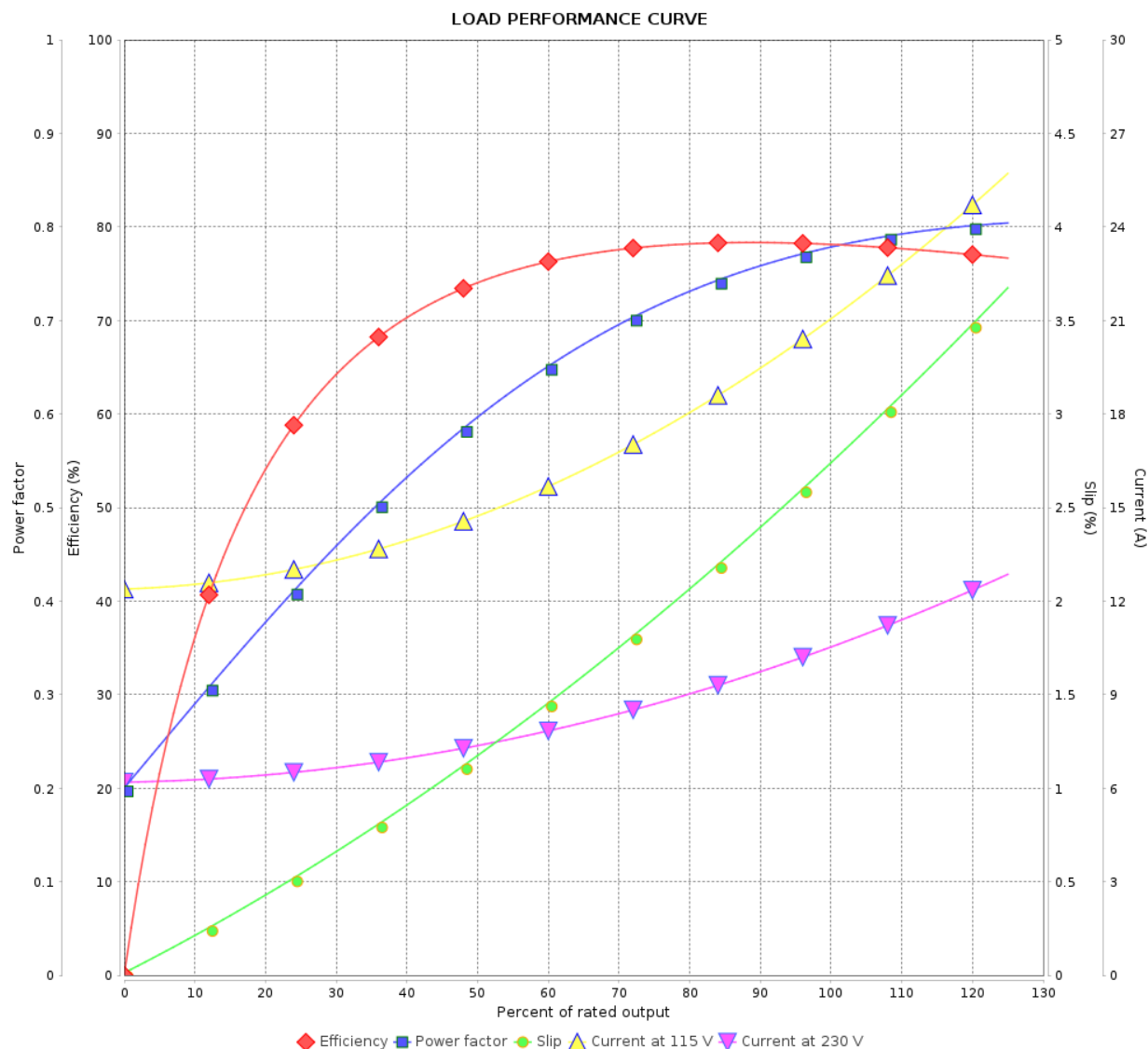
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 11656982



Performance : 115/230 V 60 Hz 4P

Rated current : 21.0/10.5 A  
LRC : 6.9  
Rated torque : 0.829 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 250 %  
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0090 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : B  
Service factor : 1.15  
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	20/10/2024			