

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase      Product code : 11146952

Frame	: E143/5JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.76 A	Protection degree	: IP21
L. R. Amperes	: 15.8 A	Cooling method	: IC01 - ODP
LRC	: 9.0x(Code M)	Mounting	: F-1
No load current	: 1.12 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.626 kgfm	Approx. weight <sup>3</sup>	: 21.3 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0067 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	85.5	86.5	Max. traction	: 50 kgf
Power Factor	0.52	0.66	0.75	Max. compression	: 71 kgf

	Drive end	Non drive end
Bearing type	: 6206 ZZ	: 6204 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
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.

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# LOAD PERFORMANCE CURVE

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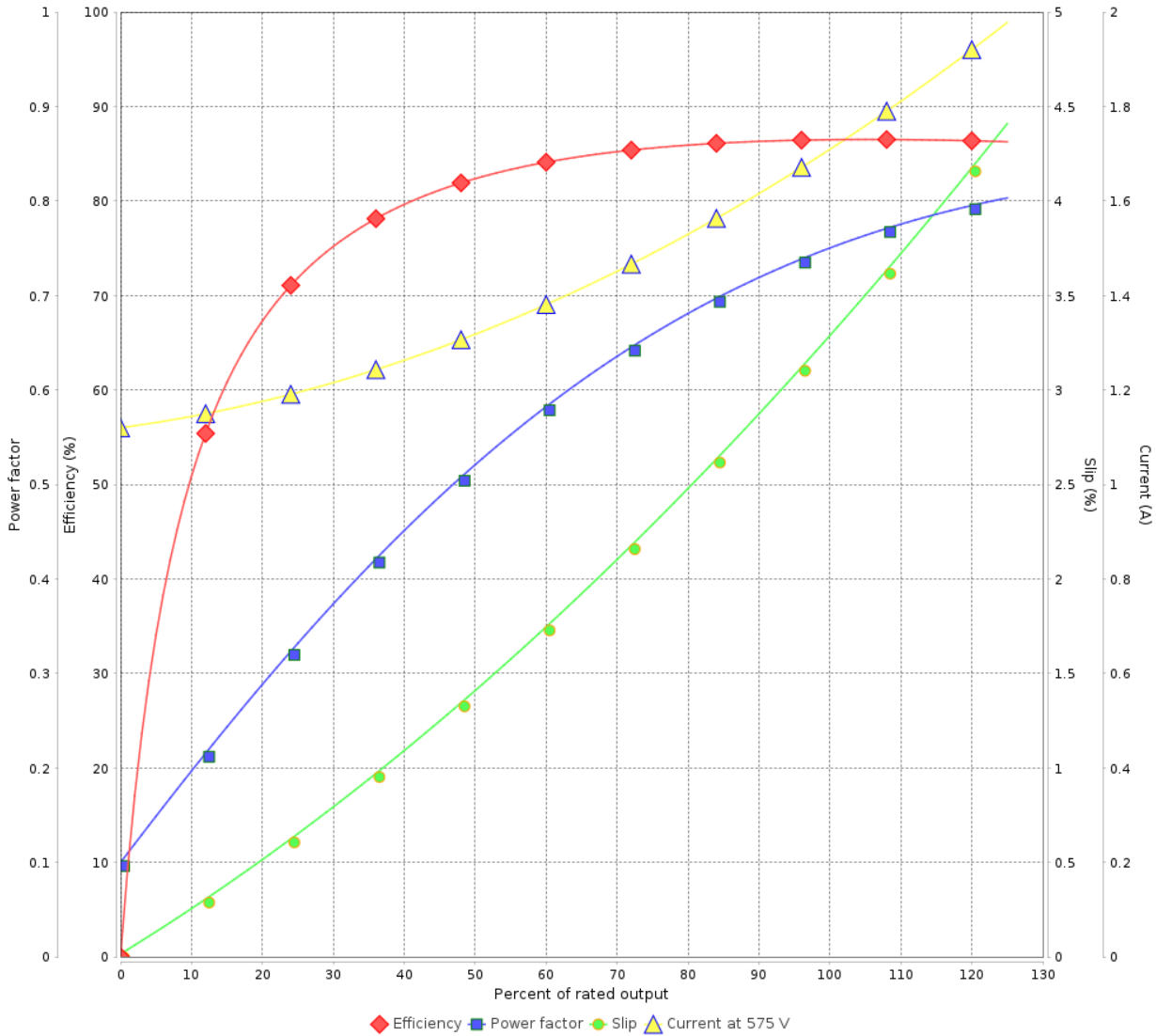


Customer :

Product line : Close Coupled Pump NEMA  
Premium Efficiency Three-Phase

Product code : 11146952

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 1.76 A  
LRC : 9.0  
Rated torque : 0.626 kgfm  
Locked rotor torque : 360 %  
Breakdown torque : 340 %  
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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