

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase Product code : 12311417

Frame	: D56	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 1 HP (0.75 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	: 14.0/7.00 A	Protection degree	: IP55
L. R. Amperes	: 91.0/45.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code M)	Mounting	: F-1
No load current	: 11.5/5.75 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 2.78 %	Vibration	: Not Applicable
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 320 %	Approx. weight ³	: 15.4 kg
Breakdown torque	: 270 %		: 207N (ISO 12944 - C2)
Insulation class	: B		: RAL 3002
Service factor	: 1.15		
Moment of inertia (J)	: 0.0056 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	60.0	67.0	70.3	Max. traction	: 28 kgf
Power Factor	0.45	0.56	0.65	Max. compression	: 43 kgf

	Drive end	Non drive end
Bearing type	: 6204 ZZ	: 6202 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.

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LOAD PERFORMANCE CURVE

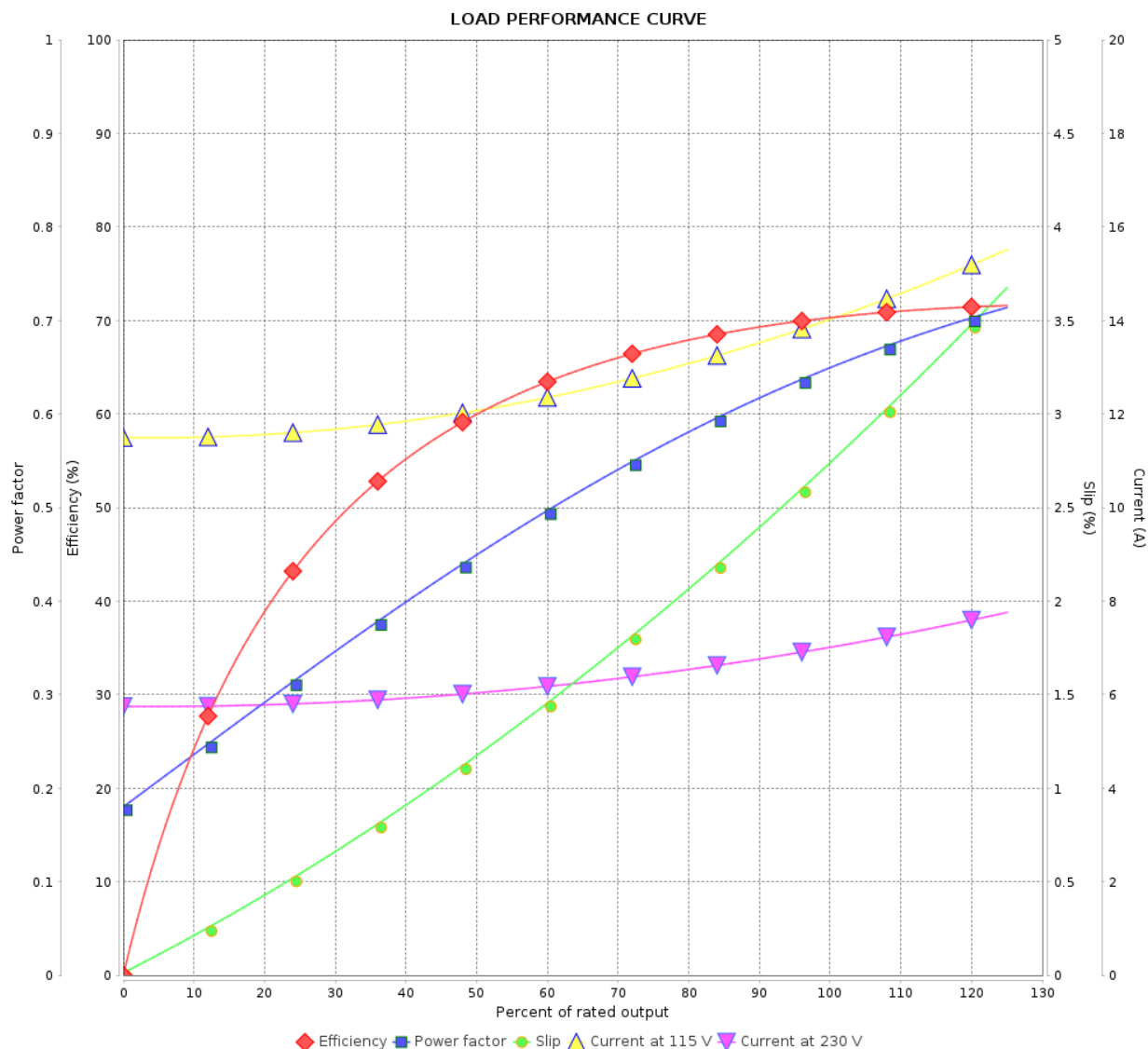
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 12311417



Performance : 115/230 V 60 Hz 4P

Rated current : 14.0/7.00 A
LRC : 6.5
Rated torque : 0 kgfm
Locked rotor torque : 320 %
Breakdown torque : 270 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0056 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor : 1.15
Temperature rise : 80 K

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