

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Farm Duty Single-Phase

Product code : 10371507

Frame	: W182/4T	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.5 A	Protection degree	: IP55
L. R. Amperes	: 87.0 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code H)	Mounting	: F-1
No load current	: 6.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 54.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 1.25 kgfm	Approx. weight <sup>3</sup>	: 39.9 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0100 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	80.5	81.0	Max. traction	: 37 kgf
Power Factor	0.73	0.81	0.86	Max. compression	: 77 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6206 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

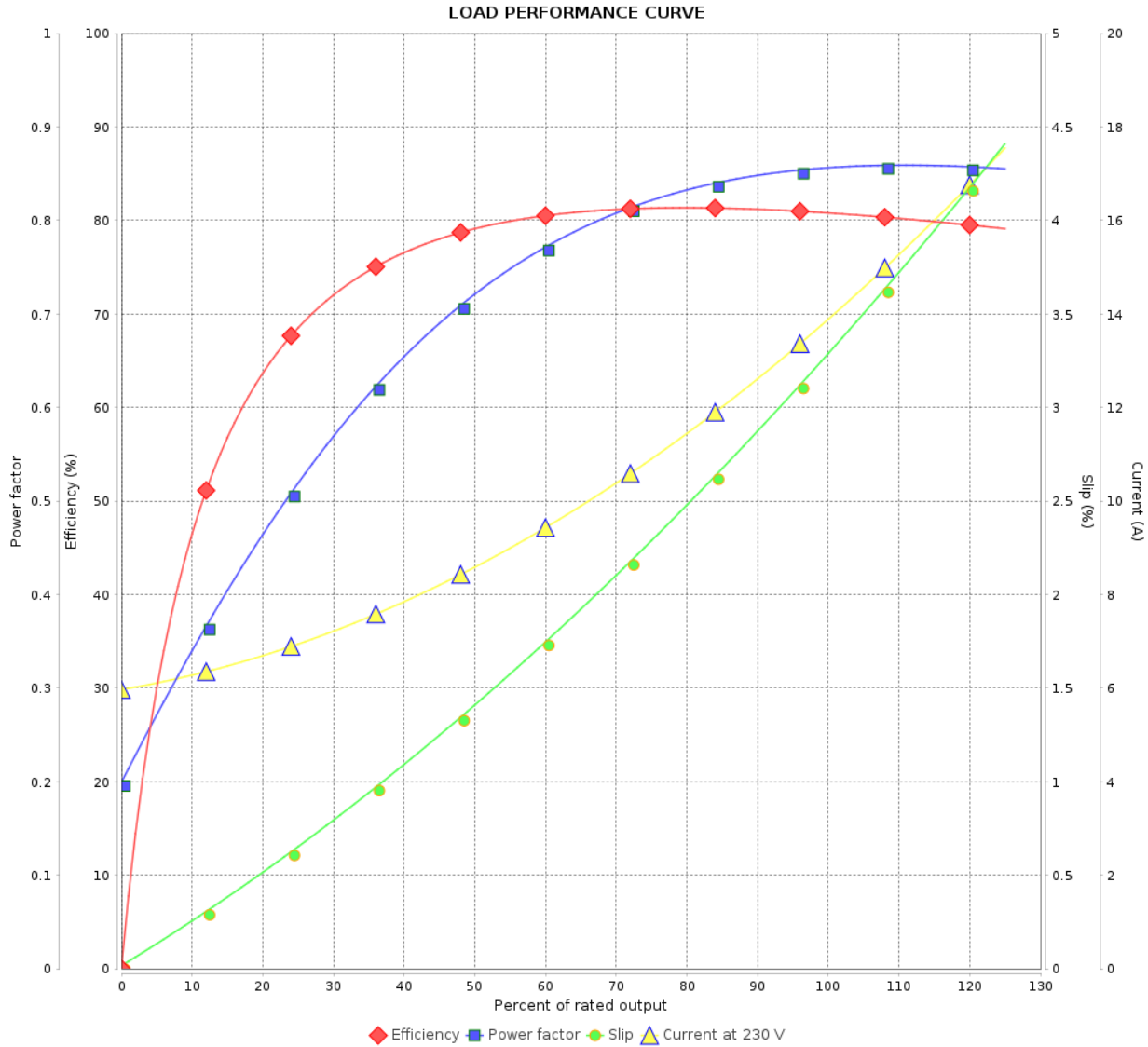
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 10371507



Performance : 230 V 60 Hz 4P

Rated current : 14.5 A  
 LRC : 6.0  
 Rated torque : 1.25 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 220 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0100 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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