

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Farm Duty Single-Phase

Product code : 11997999

Frame	: 215TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 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	: 40.5 A	Protection degree	: IP55
L. R. Amperes	: 271 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 12.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight ³	: 84.9 kg
Rated torque	: 4.17 kgfm		
Locked rotor torque	: 240 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0486 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	82.0	83.0	Max. traction	: 143 kgf
Power Factor	0.89	0.94	0.97	Max. compression	: 227 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 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

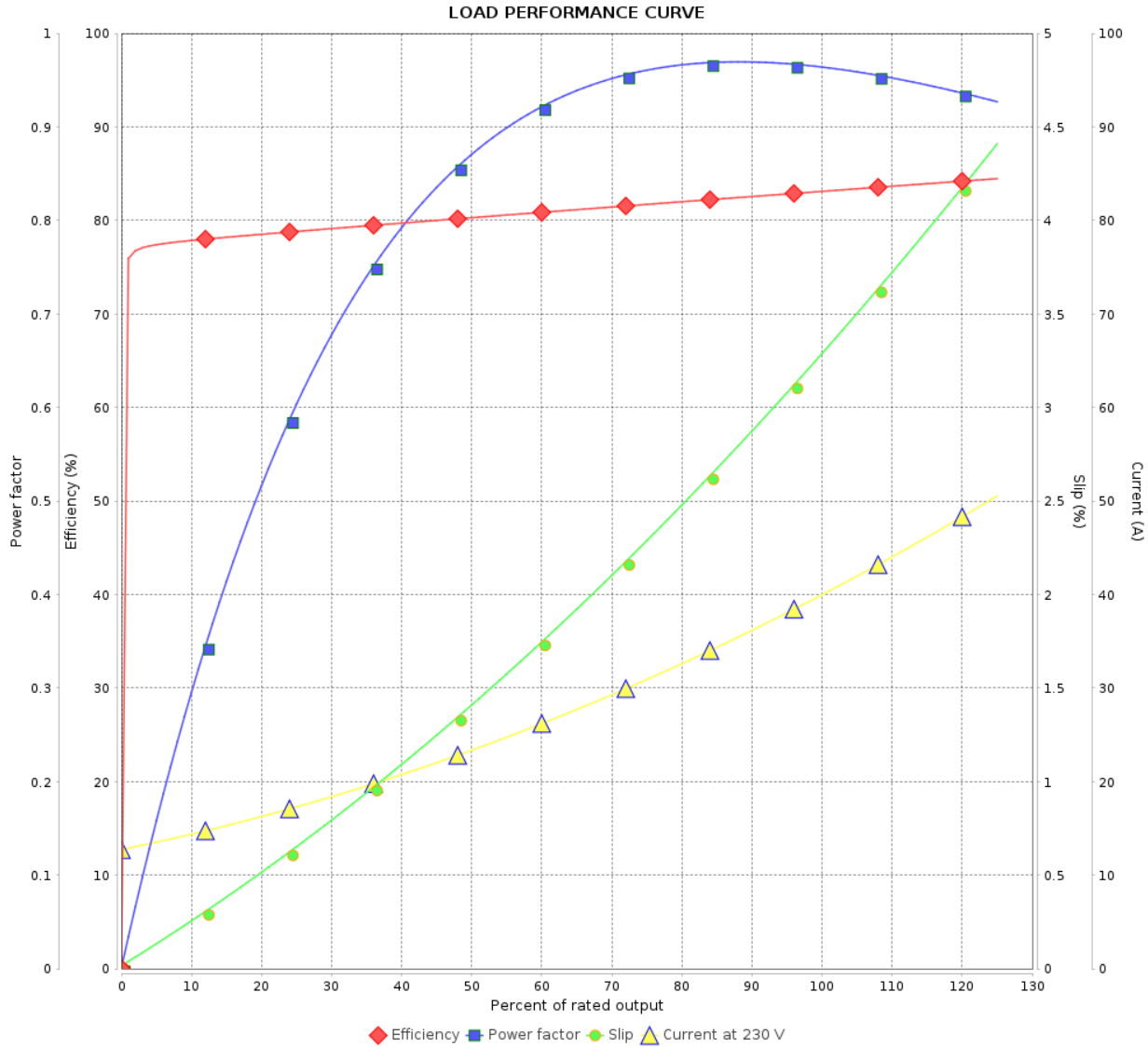
Single Phase Induction Motor - Squirrel Cage



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Product line : Farm Duty Single-Phase

Product code : 11997999



Performance : 230 V 60 Hz 4P

Rated current : 40.5 A
 LRC : 6.7
 Rated torque : 4.17 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 240 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0486 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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