

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 11978147

Frame	: 184TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 5 HP (3.7 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	: 21.4 A	Protection degree	: IP55
L. R. Amperes	: 171 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code J)	Mounting	: F-1
No load current	: 10.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1730 rpm	Starting method	: Direct On Line
Slip	: 3.89 %	Approx. weight <sup>3</sup>	: 52.8 kg
Rated torque	: 2.10 kgfm		
Locked rotor torque	: 370 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0183 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	72.0	78.0	79.0	Max. traction	: 92 kgf
Power Factor	0.86	0.92	0.95	Max. compression	: 145 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 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

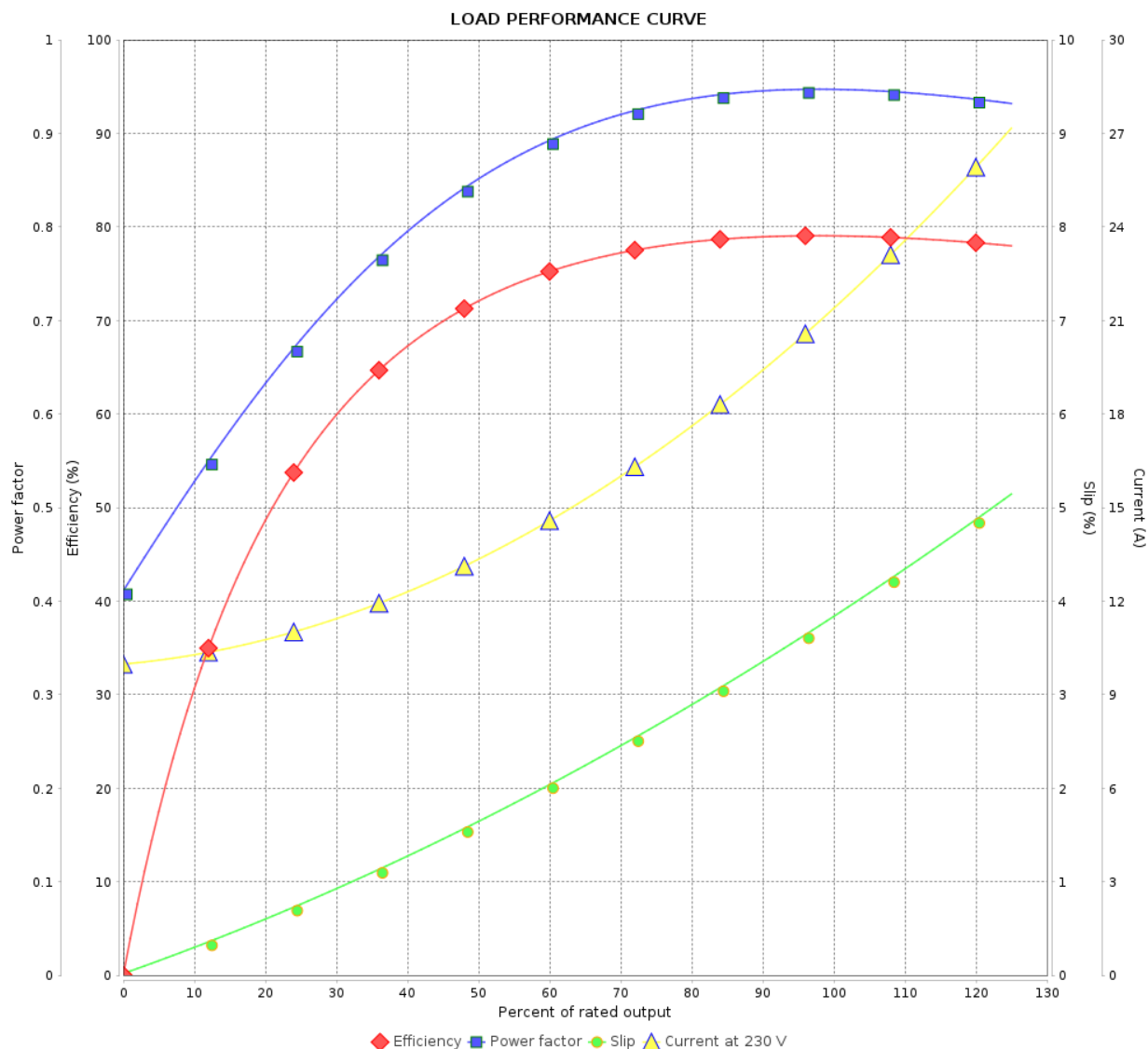
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase

Product code : 11978147



Performance : 230 V 60 Hz 4P

Rated current : 21.4 A  
LRC : 8.0  
Rated torque : 2.10 kgfm  
Locked rotor torque : 370 %  
Breakdown torque : 270 %  
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0183 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

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