

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase      Product code : 15137481

Frame	: 184LP	Locked rotor time	: 30s (cold) 17s (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	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.25 A	Protection degree	: IP55
L. R. Amperes	: 37.3 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code J)	Mounting	: W-6
No load current	: 2.48 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 2.07 kgfm	Approx. weight <sup>3</sup>	: 70.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0156 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	86.5	88.5	89.5	Max. traction
Power Factor	0.00	0.59	0.71	0.79	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 C3	7306BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	19765 h	16157 h
Lubricant amount	:	5 g	7 g
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

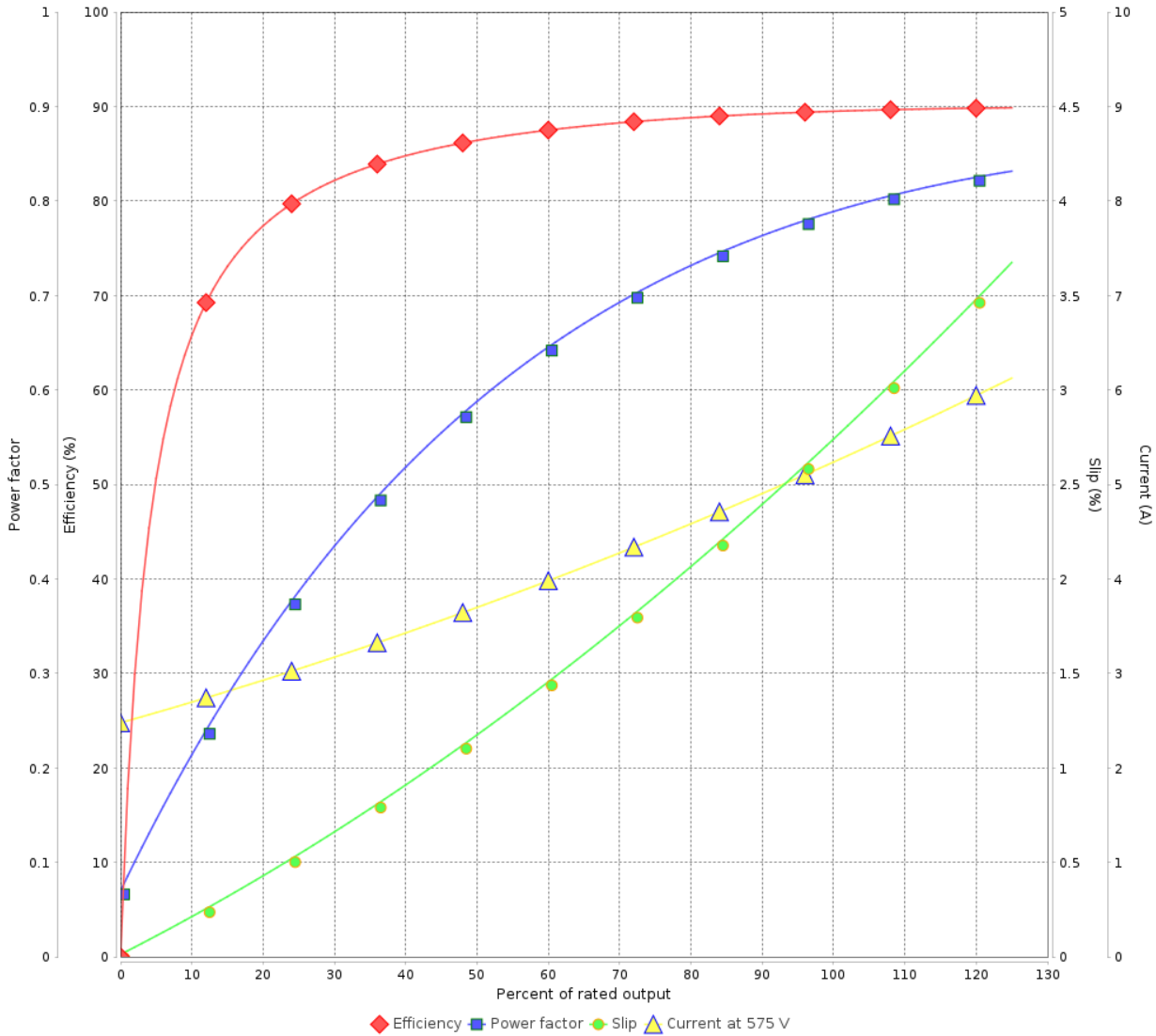
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase      Product code : 15137481

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 5.25 A	Moment of inertia (J)	: 0.0156 kgm <sup>2</sup>
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 2.07 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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