

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase      Product code : 15733440

Frame	: 256LP	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 18.6 A	Protection degree	: IP55
L. R. Amperes	: 115 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 5.52 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 4.11 kgfm	Approx. weight <sup>3</sup>	: 170 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0611 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	90.2	91.0	91.0	Max. traction
Power Factor	0.00	0.79	0.86	0.89	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309	7309BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	7898 h	4933 h
Lubricant amount	:	13 g	13 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

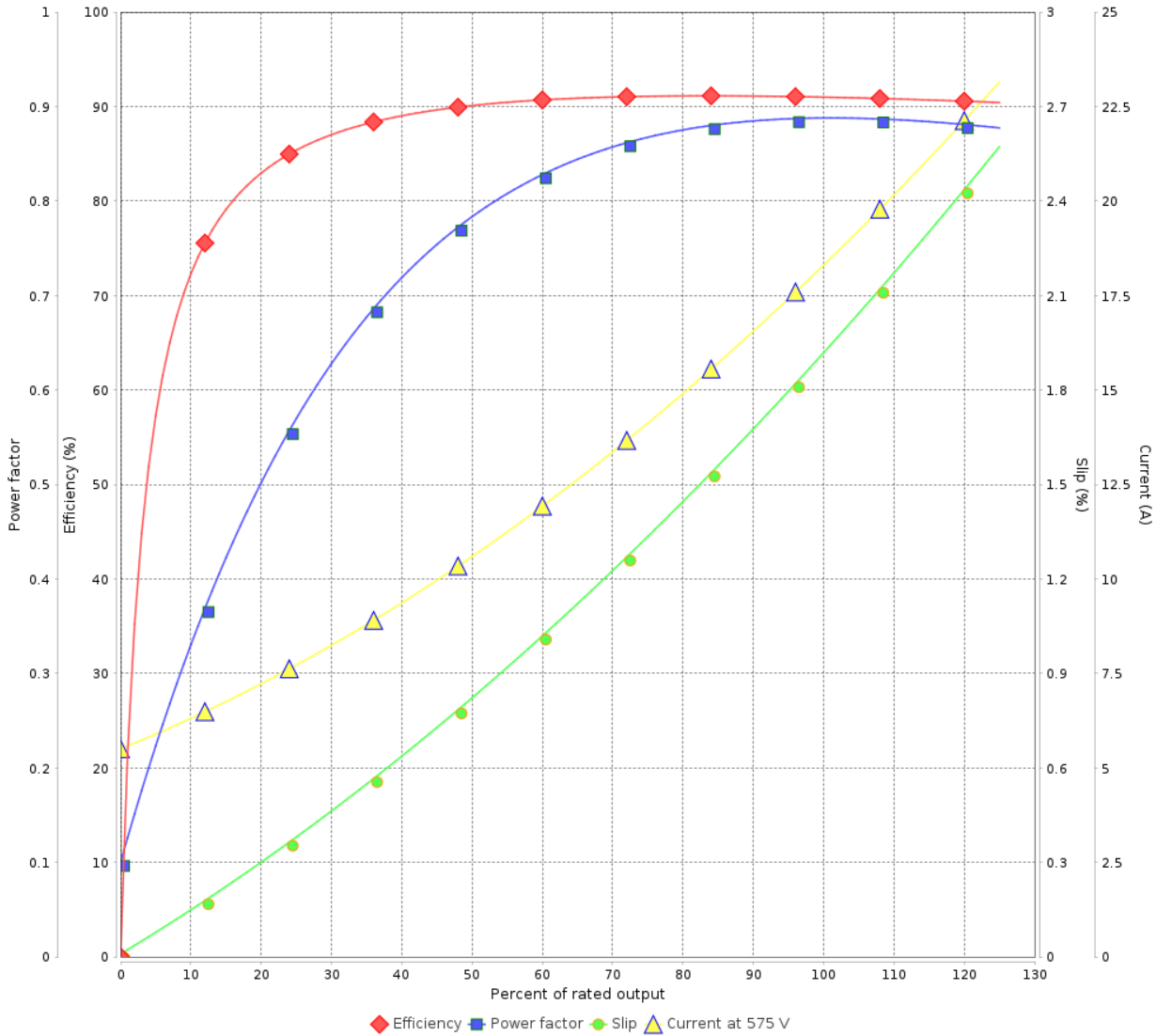
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase      Product code : 15733440

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 18.6 A	Moment of inertia (J)	: 0.0611 kgm <sup>2</sup>
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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