

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14643833

Frame	: 215LP	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 17.1/8.57 A	Protection degree	: IP55
L. R. Amperes	: 120/60.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code H)	Mounting	: W-6
No load current	: 4.61/2.31 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.54 kgfm	Approx. weight ³	: 109 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0198 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	85.5	88.5	89.5	Max. traction
Power Factor	0.00	0.78	0.87	0.90	Max. compression

	Drive end	Non drive end
Bearing type	: 6309	7306BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 7898 h	8437 h
Lubricant amount	: 13 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	29/10/2024			

LOAD PERFORMANCE CURVE

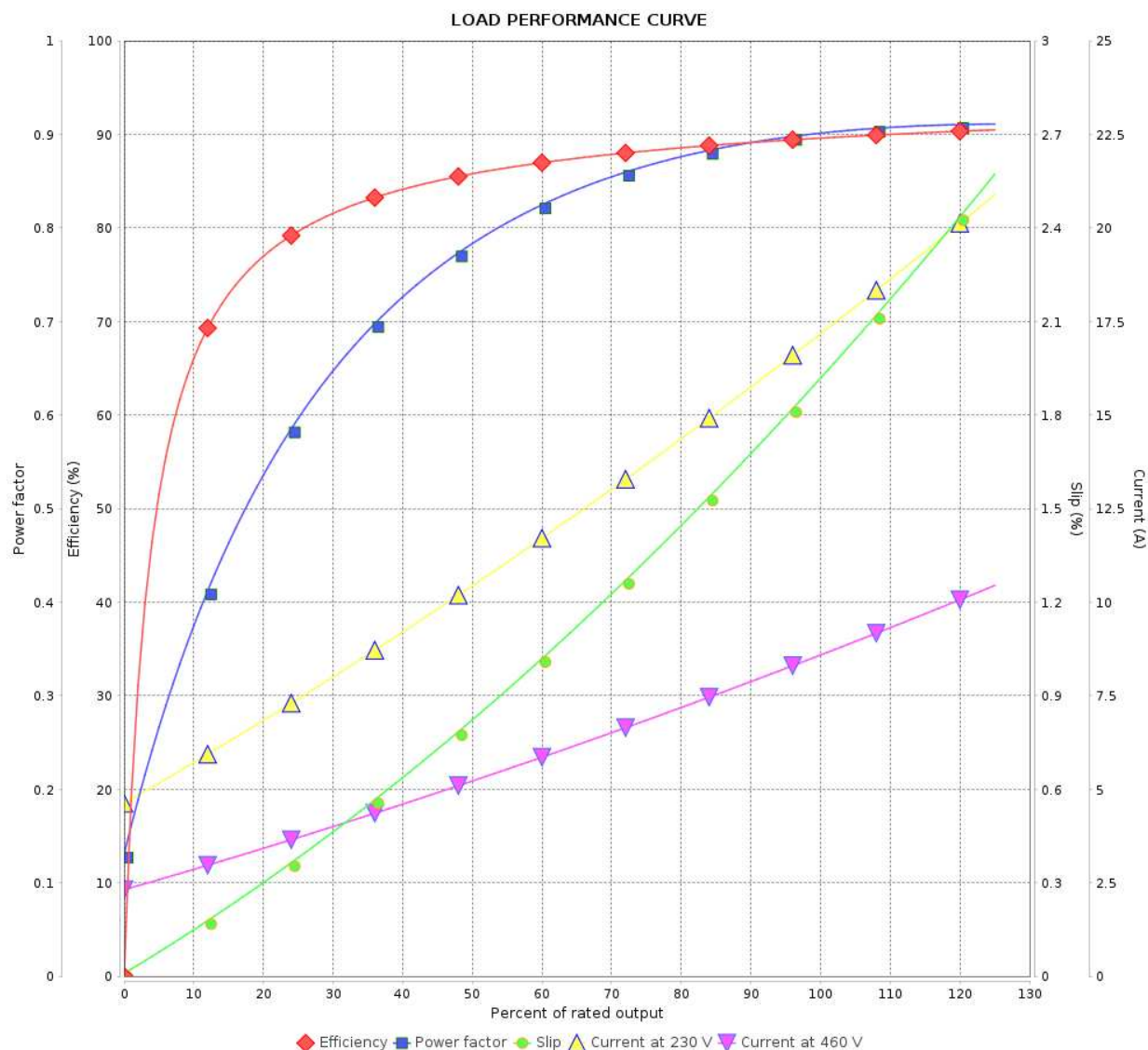
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14643833



Performance : 230/460 V 60 Hz 2P

Rated current : 17.1/8.57 A
LRC : 7.0
Rated torque : 1.54 kgfm
Locked rotor torque : 220 %
Breakdown torque : 300 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0198 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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