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	Rotation¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level²	: 72.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.54 kgfm	Approx. weight³	: 109 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0198 kgm²		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	85.5	88.5	89.5
Power Factor	0.00	0.78	0.87	0.90

Foundation loads

Max. traction

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.

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LOAD PERFORMANCE CURVE

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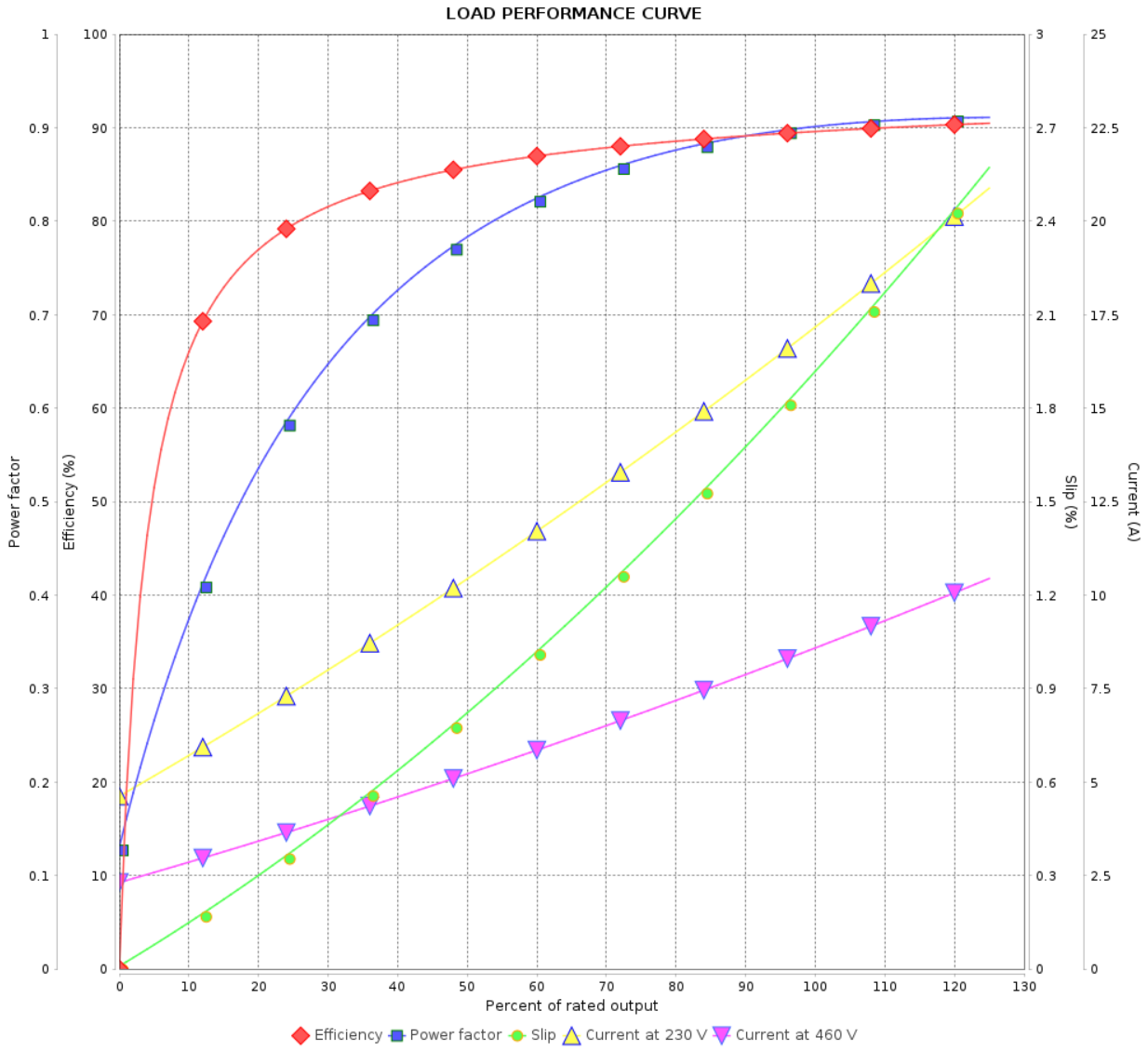
Customer	:

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	Moment of inertia (J)	: 0.0198 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.54 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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