

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase Product code : 12737211

Frame	: 445/7TSD	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 176 A	Protection degree	: IP55
L. R. Amperes	: 1091 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 70.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1187 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.08 %	Starting method	: Direct On Line
Rated torque	: 91.6 kgfm	Approx. weight ³	: 1058 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 5.63 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	95.0	95.4	95.8	Max. traction : 1885 kgf
Power Factor	0.67	0.78	0.82	Max. compression : 2943 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.7	3.8	3.4	2.4	1.7	1.2	0.7
Drive end						Non drive end
Bearing type : 6314 C3						6314 C3
Sealing : Viton Oil Seal						Viton Oil Seal
Lubrication interval : 8000 h						8000 h
Lubricant amount : 27 g						27 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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Customer :

Space heater information

Voltage: 110 - 127 V

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LOAD PERFORMANCE CURVE

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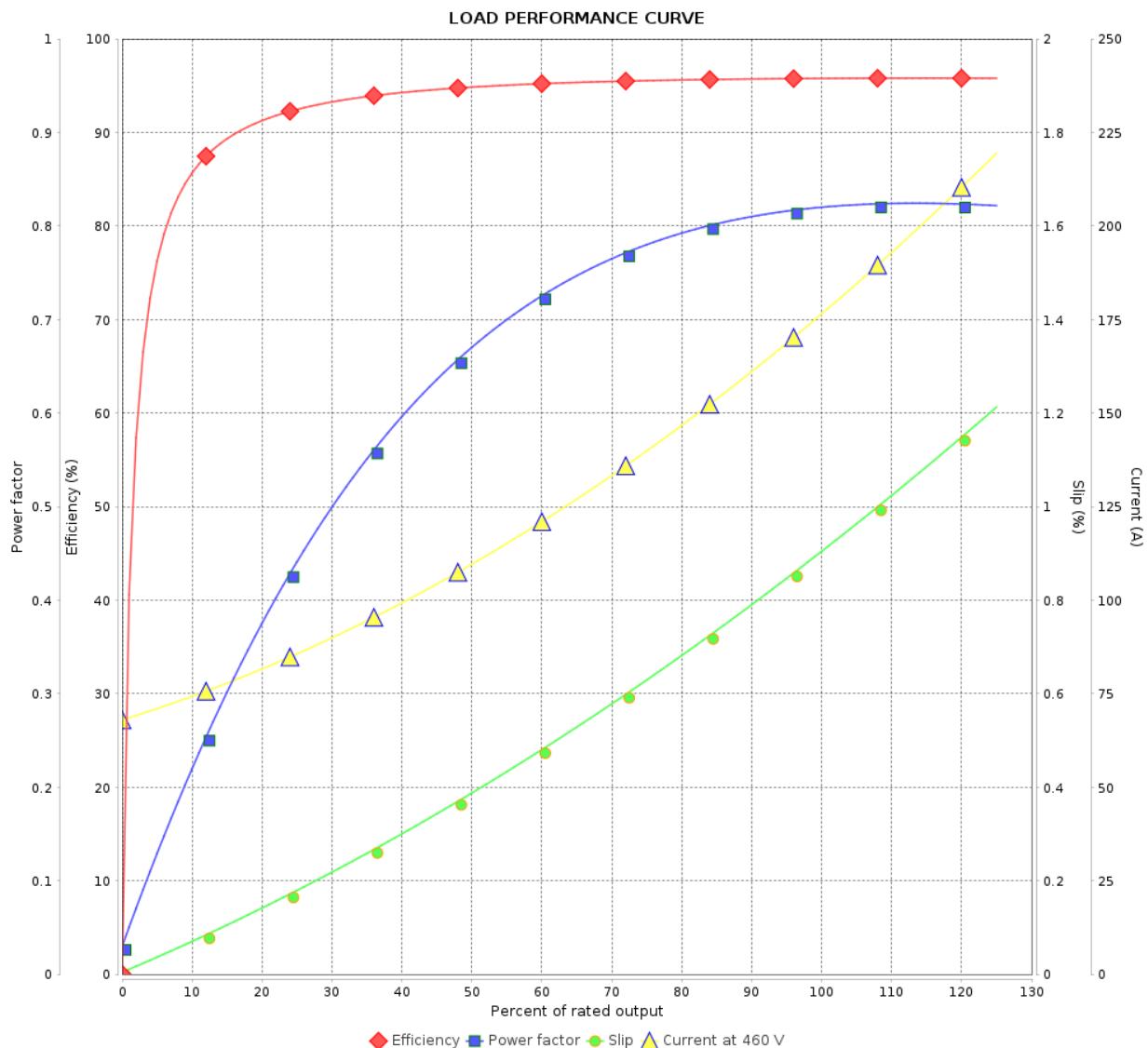
Customer :

Product line

: W22 NEMA Premium Efficiency
Three-Phase

Product code :

12737211



Performance

: 460 V 60 Hz 6P

Rated current

: 176 A

Moment of inertia (J)

: 5.63 kgm²

LRC

: 6.2

Duty cycle

: Cont.(S1)

Rated torque

: 91.6 kgfm

Insulation class

: F

Locked rotor torque

: 240 %

Service factor

: 1.15

Breakdown torque

: 250 %

Temperature rise

: 80 K

Rated speed

: 1187 rpm

Design

: B

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