

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 12406631

Frame	: 143/5JM	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1.5 HP (1.1 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	: 1.57 A	Protection degree	: IP55
L. R. Amperes	: 14.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.9x(Code L)	Mounting	: F-1
No load current	: 0.664 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.313 kgfm	Approx. weight ³	: 22.6 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0020 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	81.5	84.0	84.0	Max. traction	: 21 kgf
Power Factor	0.68	0.78	0.84	Max. compression	: 44 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)
17.7	13.3	12.1	9.8	5.6	3.8	2.4

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6206 ZZ	: 6204 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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				
Checked by				
Date	23/10/2024			
		Page		Revision
		1 / 2		

LOAD PERFORMANCE CURVE

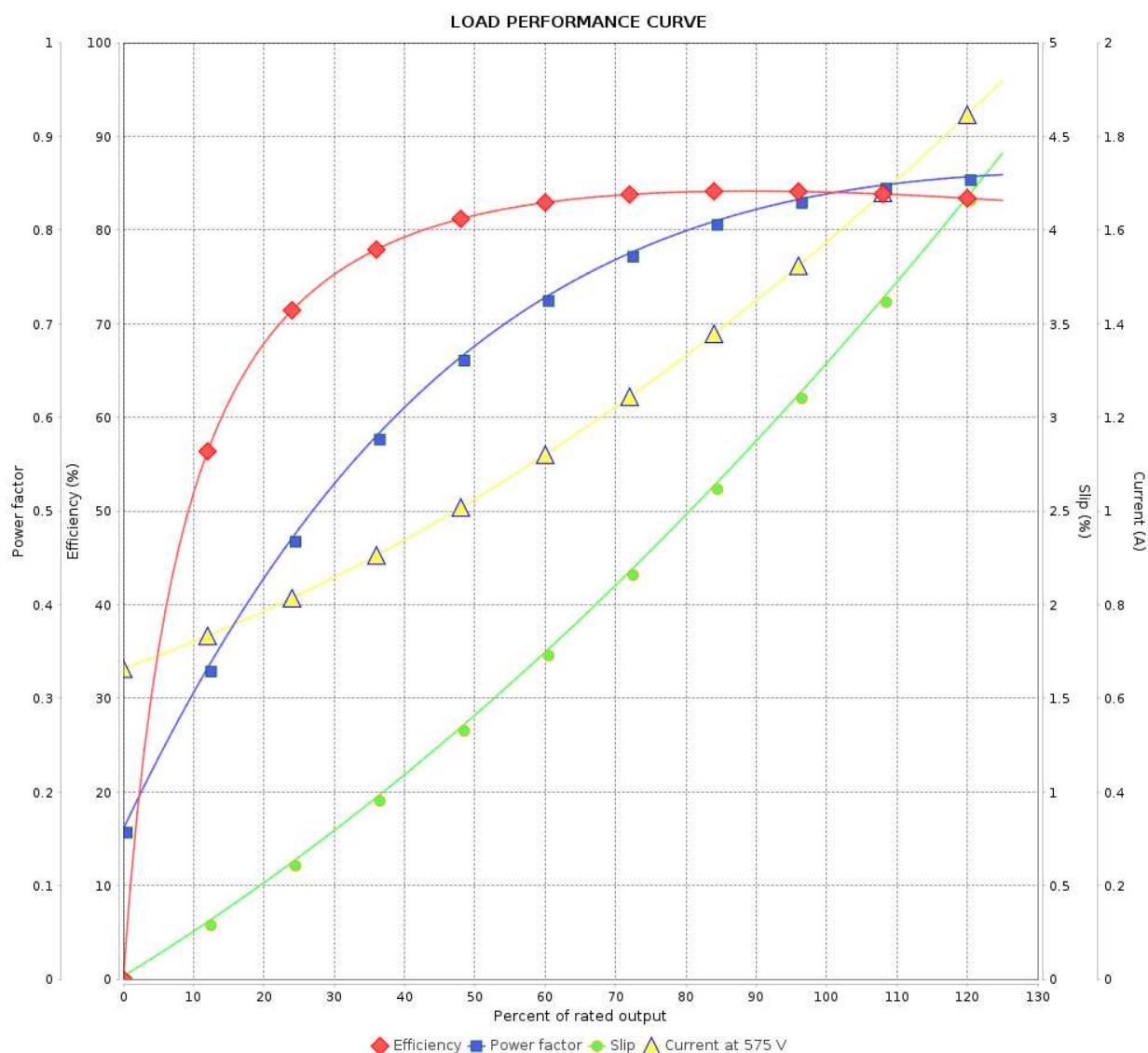
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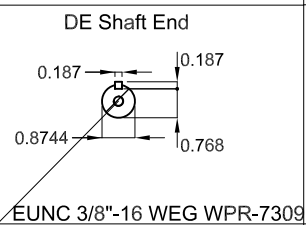
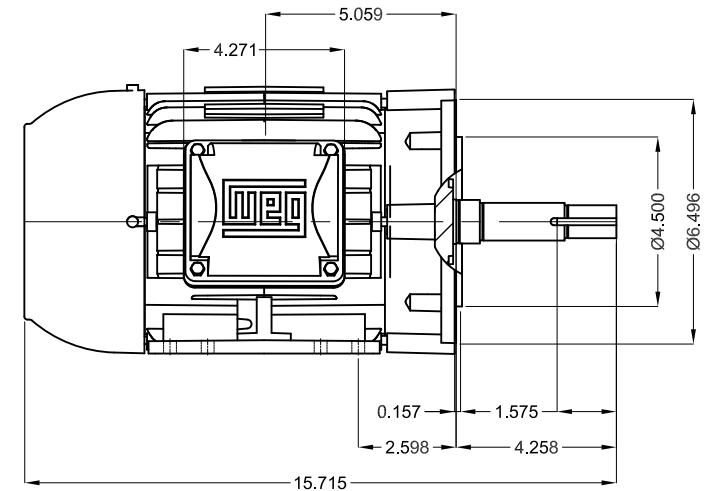


Performance : 575 V 60 Hz 2P

Rated current : 1.57 A
LRC : 8.9
Rated torque : 0.313 kgfm
Locked rotor torque : 310 %
Breakdown torque : 370 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0020 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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Performed by		Page 2 / 2 Revision		
Checked by				
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