

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11084484

Frame	: 213/5JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 10 HP (7.5 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	: 9.52 A	Protection degree	: IP21
L. R. Amperes	: 68.5 A	Cooling method	: IC01 - ODP
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 2.80 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3540 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 2.05 kgfm	Approx. weight <sup>3</sup>	: 58.1 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	90.2	Max. traction	: 88 kgf
Power Factor	0.73	0.83	0.88	Max. compression	: 146 kgf

	Drive end	Non drive end
Bearing type	: 6209 ZZ	: 6206 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
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		Page 1 / 2 Revision		
Checked by				
Date	23/10/2024			

# LOAD PERFORMANCE CURVE

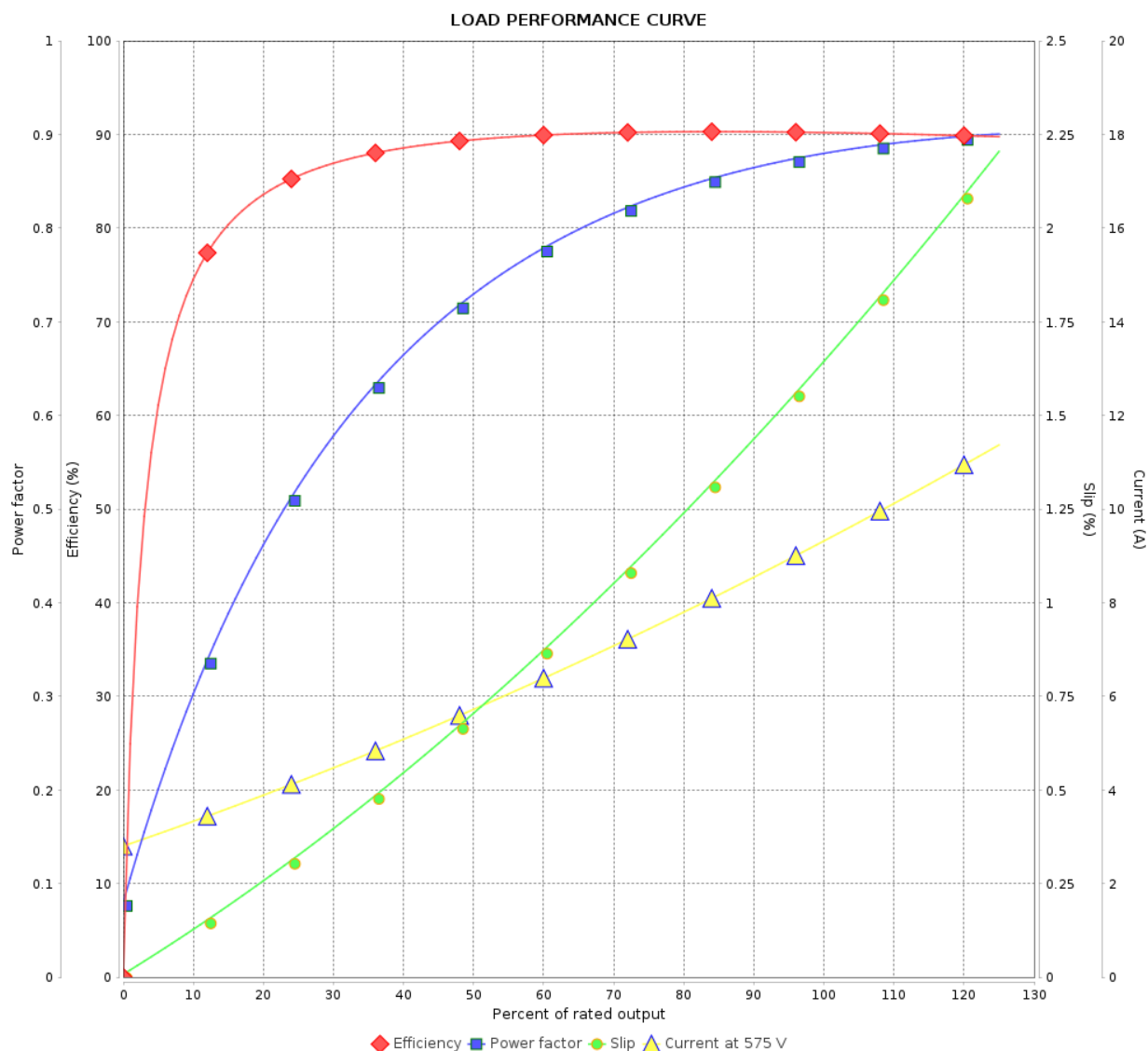
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Premium Efficiency Three-Phase

Product code : 11084484

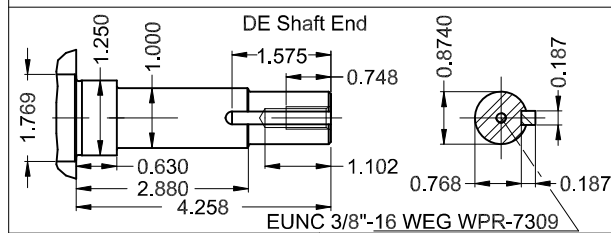
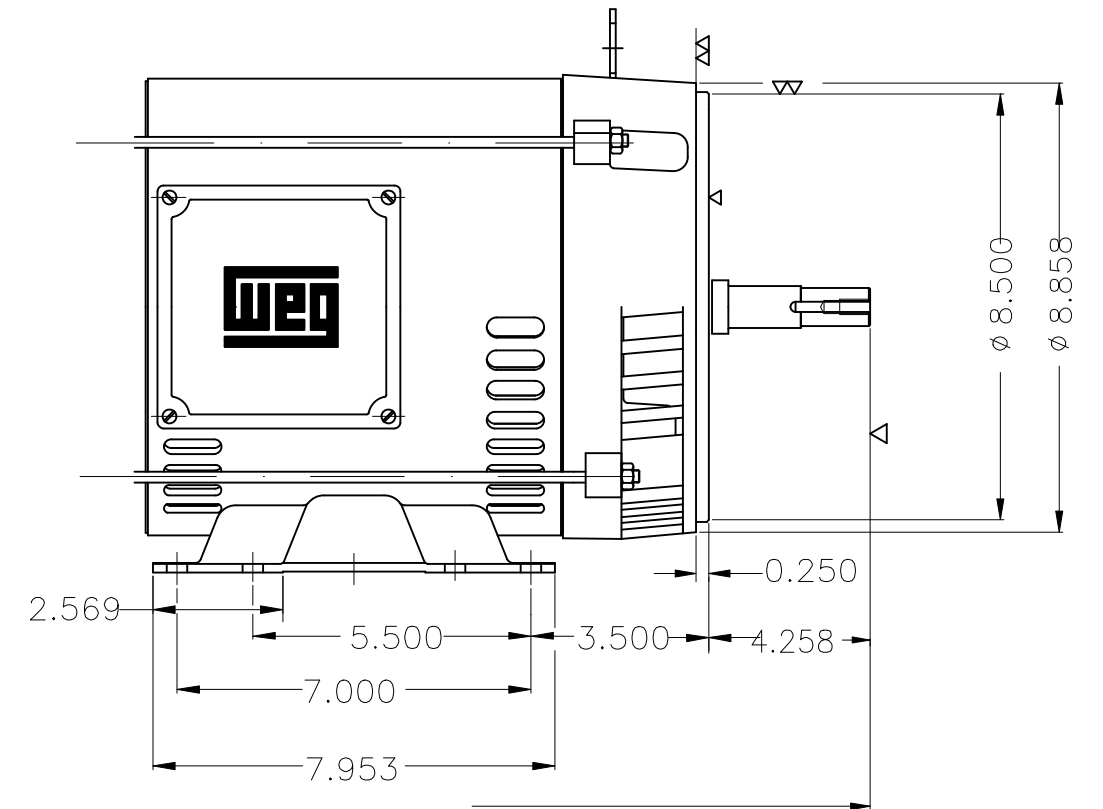
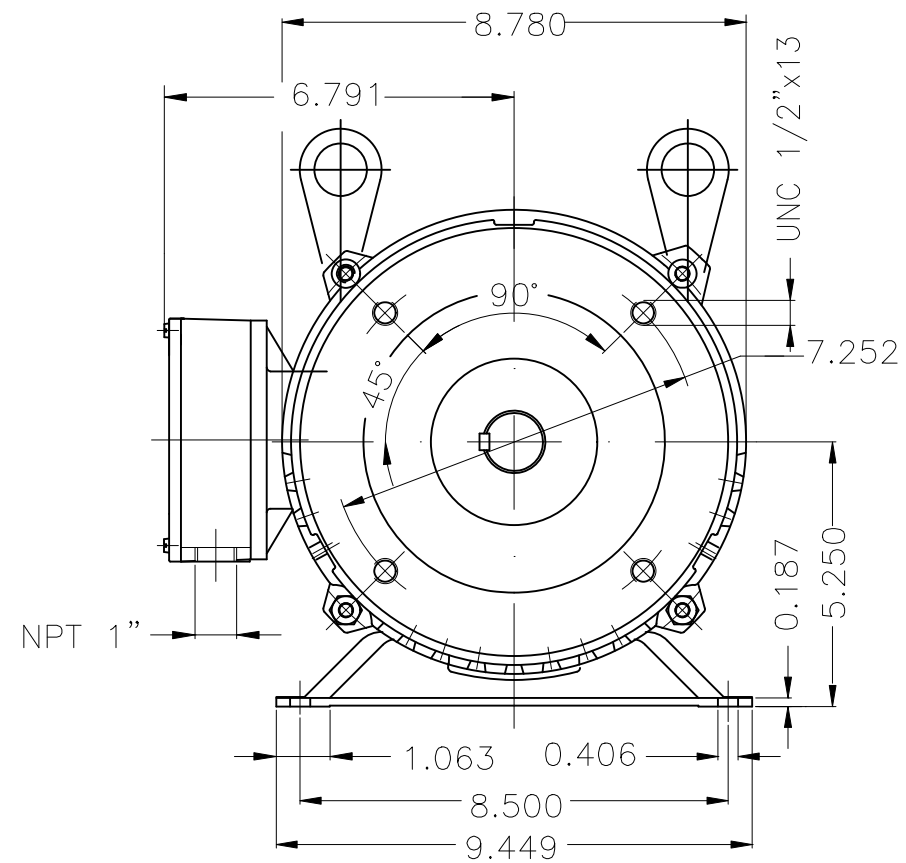




Performance : 575 V 60 Hz 2P

Rated current : 9.52 A  
LRC : 7.2  
Rated torque : 2.05 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 310 %  
Rated speed : 3540 rpm

Moment of inertia (J) : 0.0206 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
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10 HP    02 Poles    60 Hz										A
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR JM/JP/JET PUMP    NEMA PREM. EFF. FRAME 213/5JM IP21 ODP				<div> <div>PREVIEW</div> <div>WDD         00</div> </div>			
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul		Product Engineering		SHEET	1 / 1		