

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 12032446

Frame	: 284JP	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 30 HP (22 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	: 28.0 A	Protection degree	: IP23
L. R. Amperes	: 176 A	Cooling method	: IC01 - ODP
LRC	: 6.3x(Code G)	Mounting	: W-6
No load current	: 10.3 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 6.13 kgfm	Approx. weight <sup>3</sup>	: 144 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0795 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2	91.7	91.7	Max. traction	: 156 kgf
Power Factor	0.73	0.82	0.86	Max. compression	: 300 kgf

	Drive end	Non drive end
Bearing type	: 6311 Z C3	: 6211 Z C3
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 11517 h	: 14226 h
Lubricant amount	: 18 g	: 11 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				
Checked by				
Date	24/10/2024			

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Revision

# LOAD PERFORMANCE CURVE

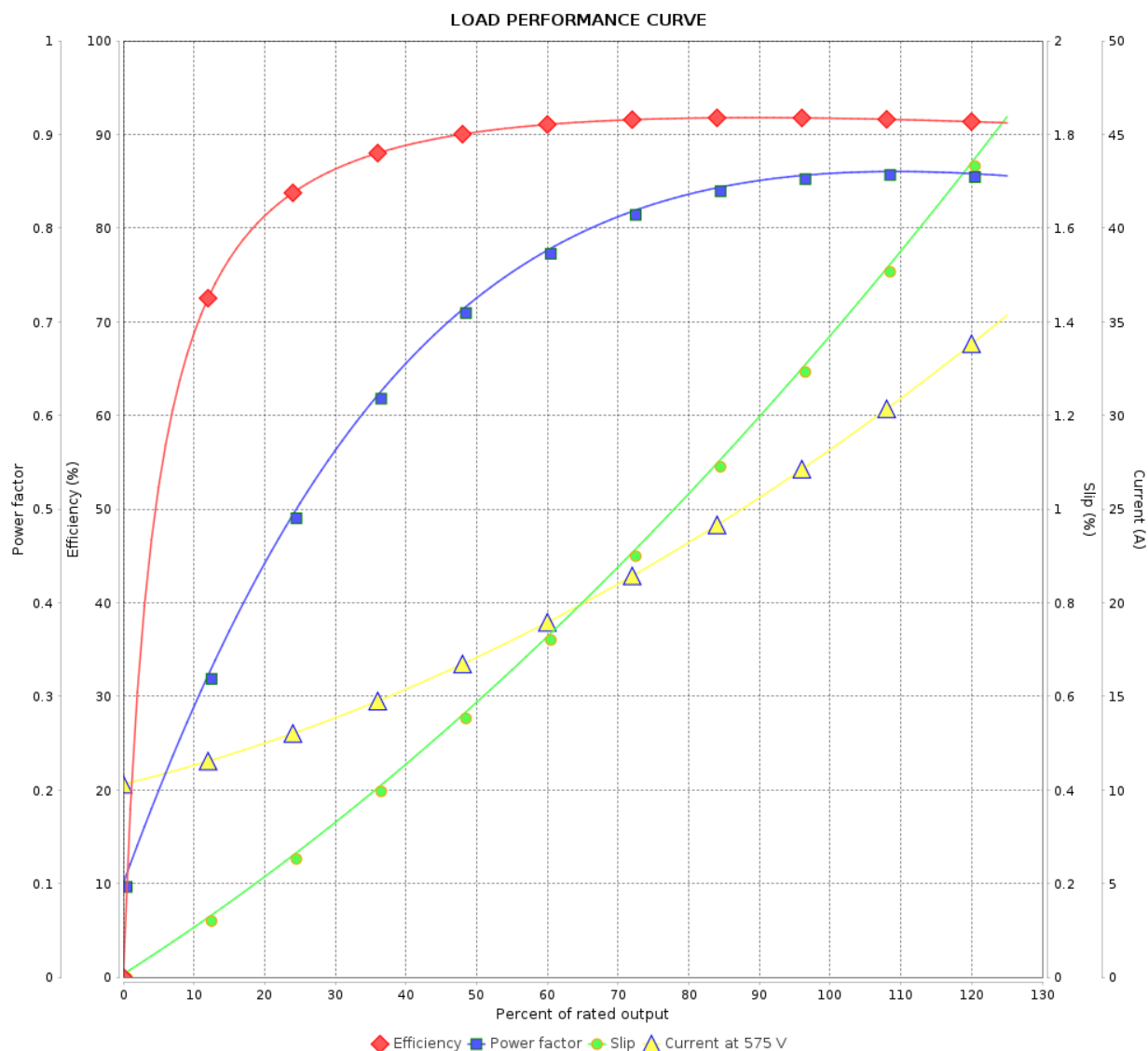
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Premium Efficiency Three-Phase

Product code : 12032446

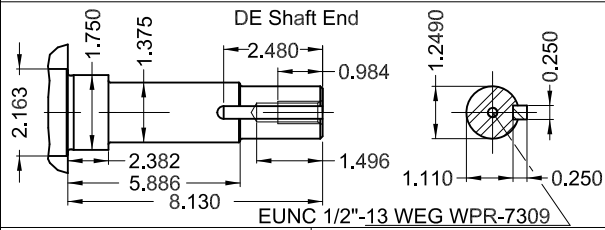
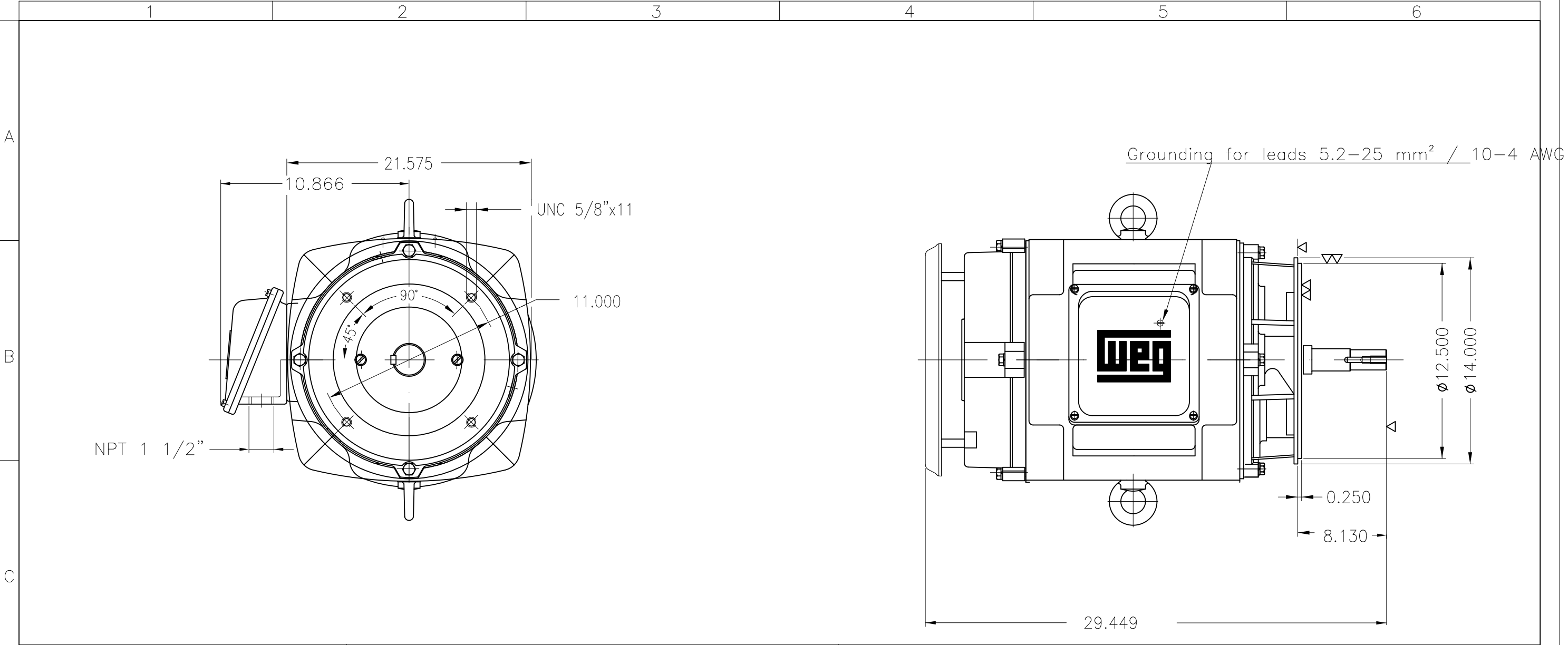




Performance : 575 V 60 Hz 2P

Rated current : 28.0 A  
LRC : 6.3  
Rated torque : 6.13 kgfm  
Locked rotor torque : 180 %  
Breakdown torque : 260 %  
Rated speed : 3550 rpm

Moment of inertia (J) : 0.0795 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 / 2Revision		
Checked by				
Date	24/10/2024			



30 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 284JP IP23 ODP			PREVIEW WDD   00			
CHECKED										
RELEASED										
REL. DATE										
		WMO	Jaragua do Sul			Product Engineering		SHEET	1 / 1	