

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 ¹	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 6.13 kgfm	Approx. weight ³	: 144 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0795 kgm ²		
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

		<u>Drive end</u>	<u>Non drive end</u>
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		Page Revision 1 / 2		
Checked by				
Date	24/10/2024			

LOAD PERFORMANCE CURVE

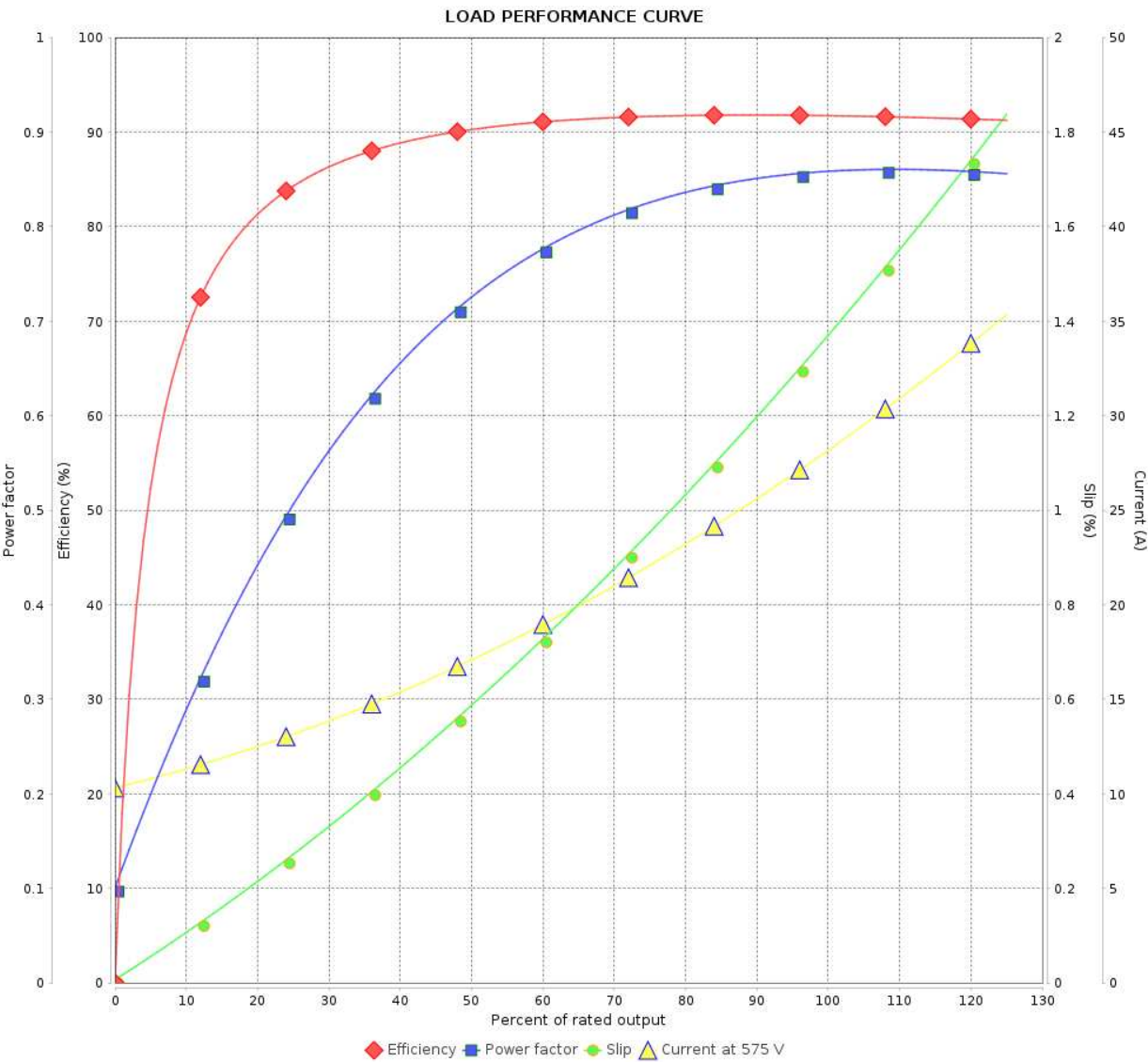
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Premium Efficiency Three-Phase

Product code : 12032446

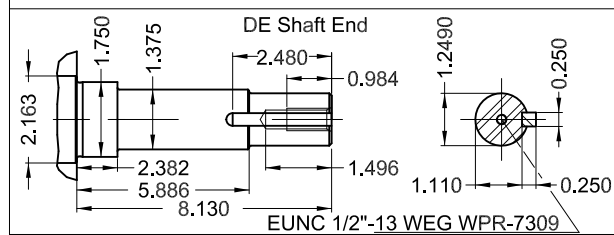
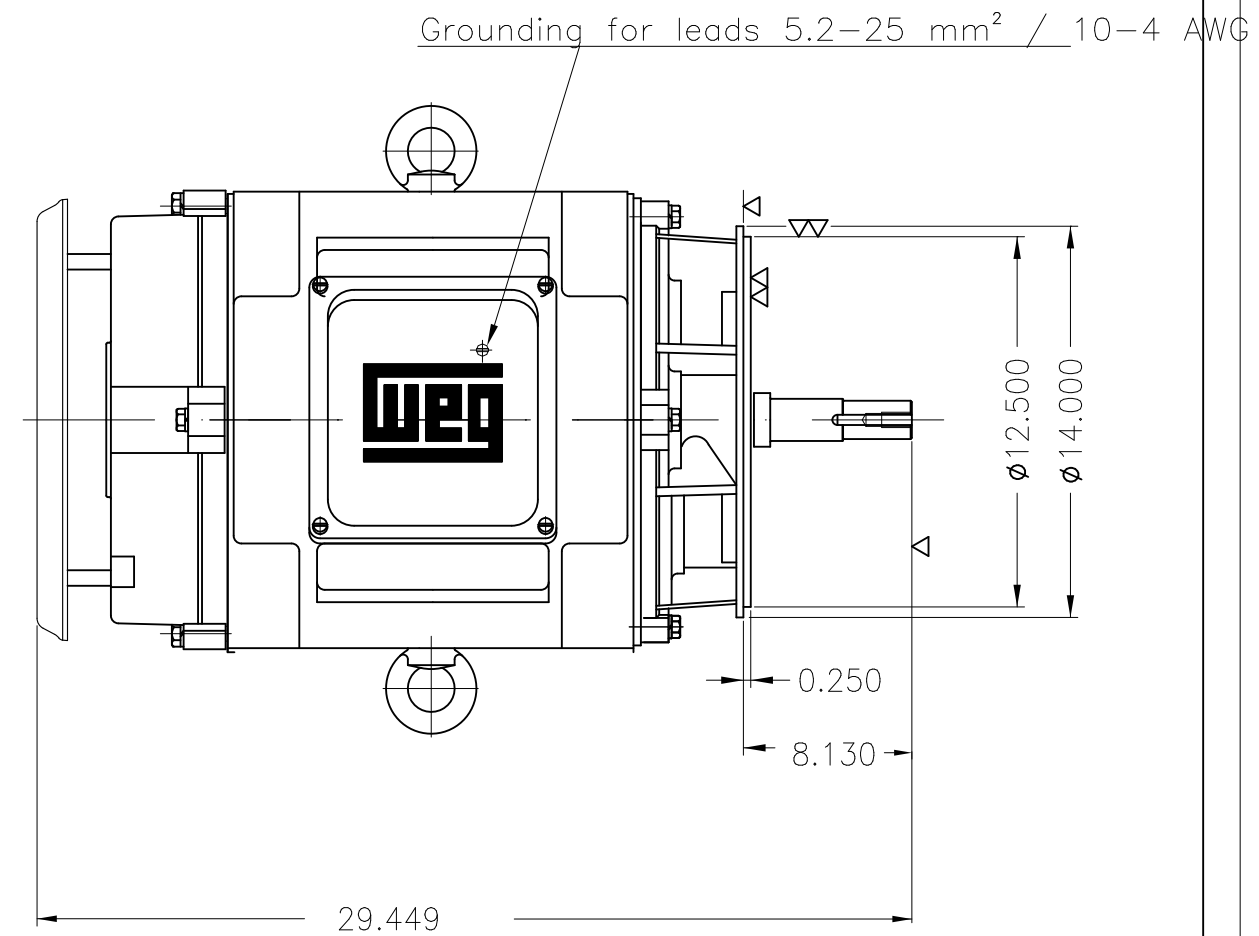
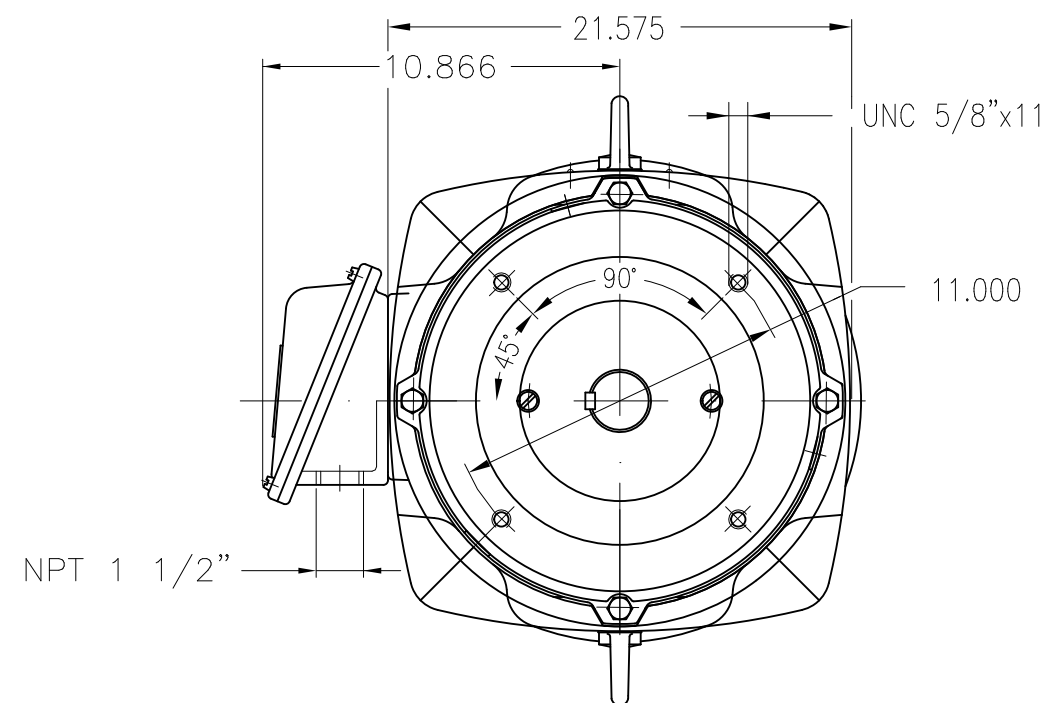


Performance : 575 V 60 Hz 2P

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 kgm²
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
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		