

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump Standard Product code : 14966670
Efficiency Three-Phase

Frame	: 286JP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 29.2 A	Protection degree	: IP23
L. R. Amperes	: 169 A	Cooling method	: IC01 - ODP
LRC	: 5.8x(Code G)	Mounting	: F-1
No load current	: 12.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 12.4 kgfm	Approx. weight ³	: 153 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1121 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.0	90.2	Max. traction	: 348 kgf
Power Factor	0.70	0.79	0.84	Max. compression	: 501 kgf

	Drive end	Non drive end
Bearing type	: 6311 Z C3	6211 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 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

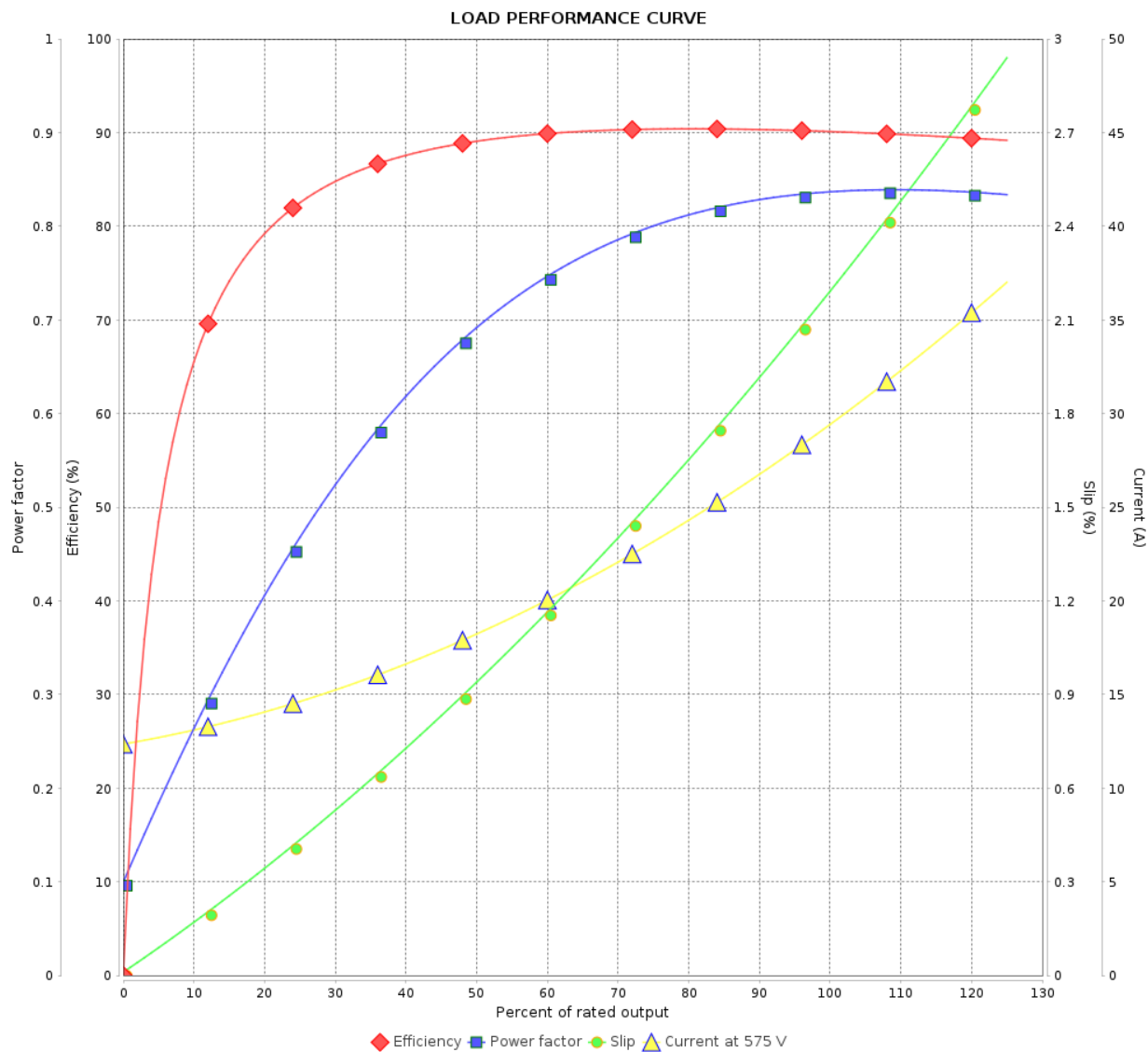
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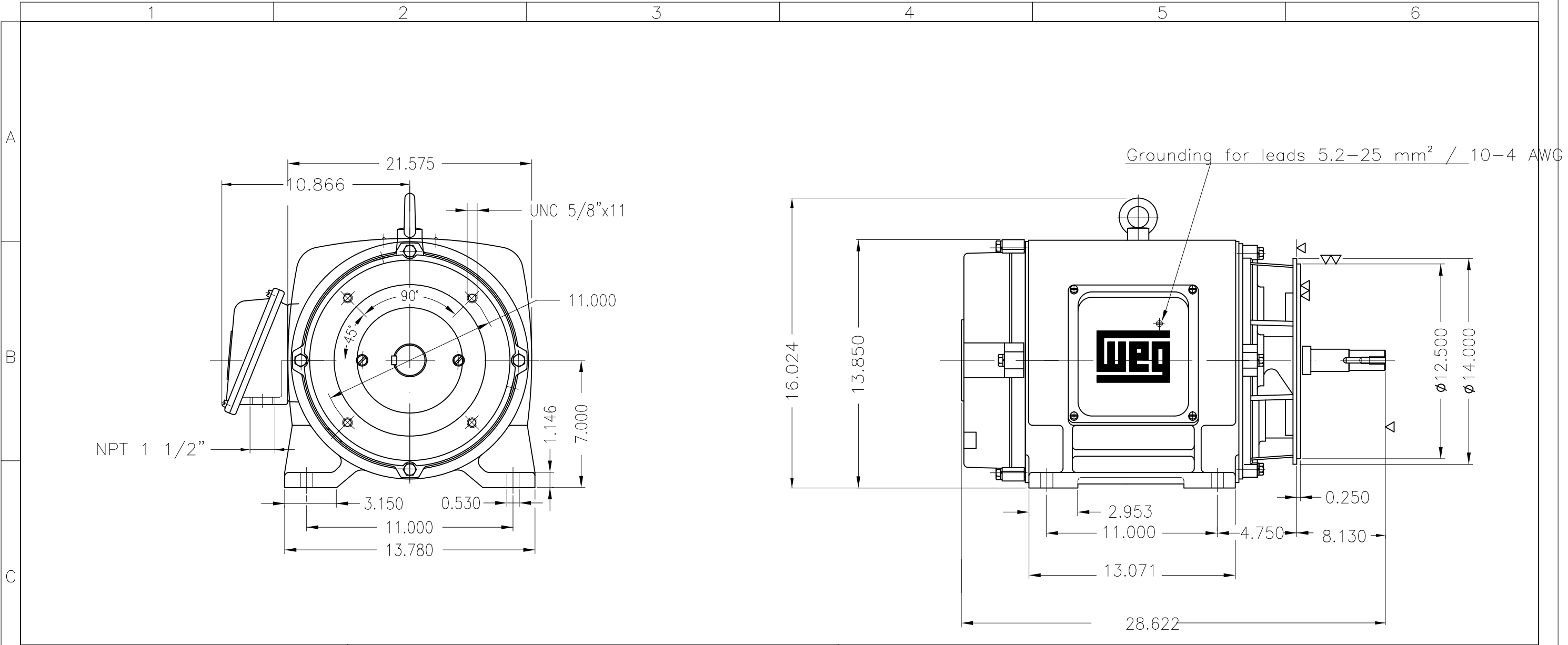


Performance : 575 V 60 Hz 4P

Rated current : 29.2 A
LRC : 5.8
Rated torque : 12.4 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.1121 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 / 2Revision	
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D												
			30 HP 04 Poles 60 Hz									
E						HYBRISUSER					00	
			ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
			EXECUTED	HYBRISUSER			THREE PH. MOTOR JM/JP/JET PUMP FRAME 286JP IP23 ODP			PREVIEW WDD 00		
			CHECKED									
			RELEASED									
			REL. DATE			WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

Color RAL 7022

Painting plan 203A

Mounting NEMA F-1

Mounting B34R(D)

Dimensions in inches

XME A3