

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11169048

Frame	: 286JM	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 40 HP (30 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	: 37.7 A	Protection degree	: IP23
L. R. Amperes	: 241 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 12.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 8.18 kgfm	Approx. weight ³	: 175 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0993 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7	93.0	93.0	Max. traction	: 217 kgf
Power Factor	0.74	0.83	0.86	Max. compression	: 391 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				
Checked by				
Date	24/10/2024			

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Revision

LOAD PERFORMANCE CURVE

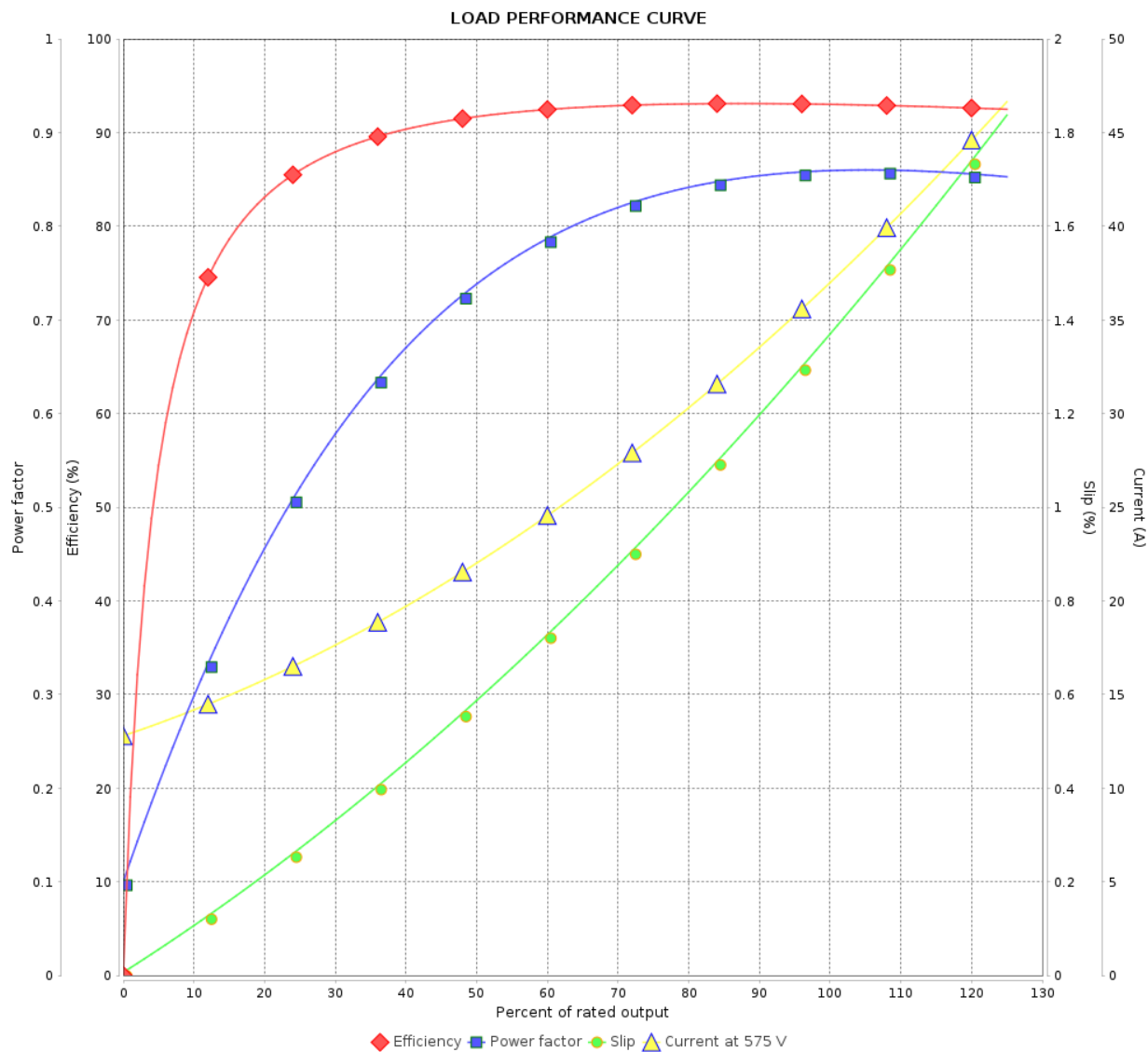
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11169048

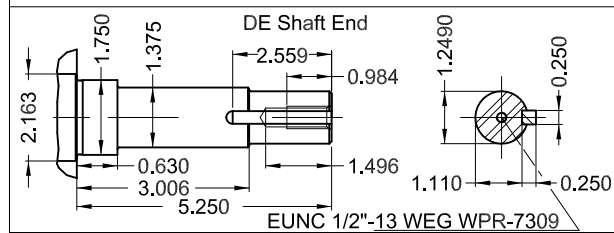
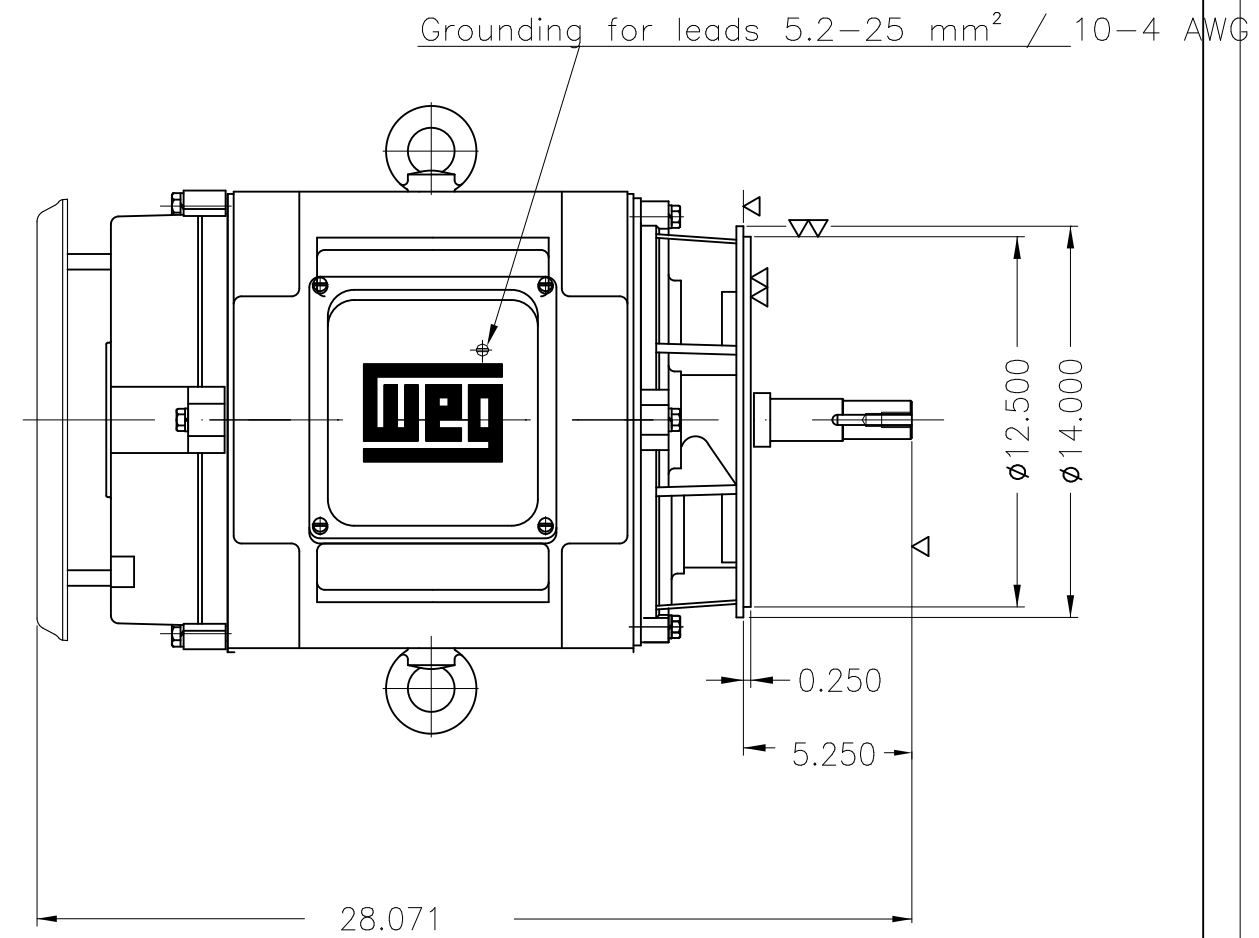
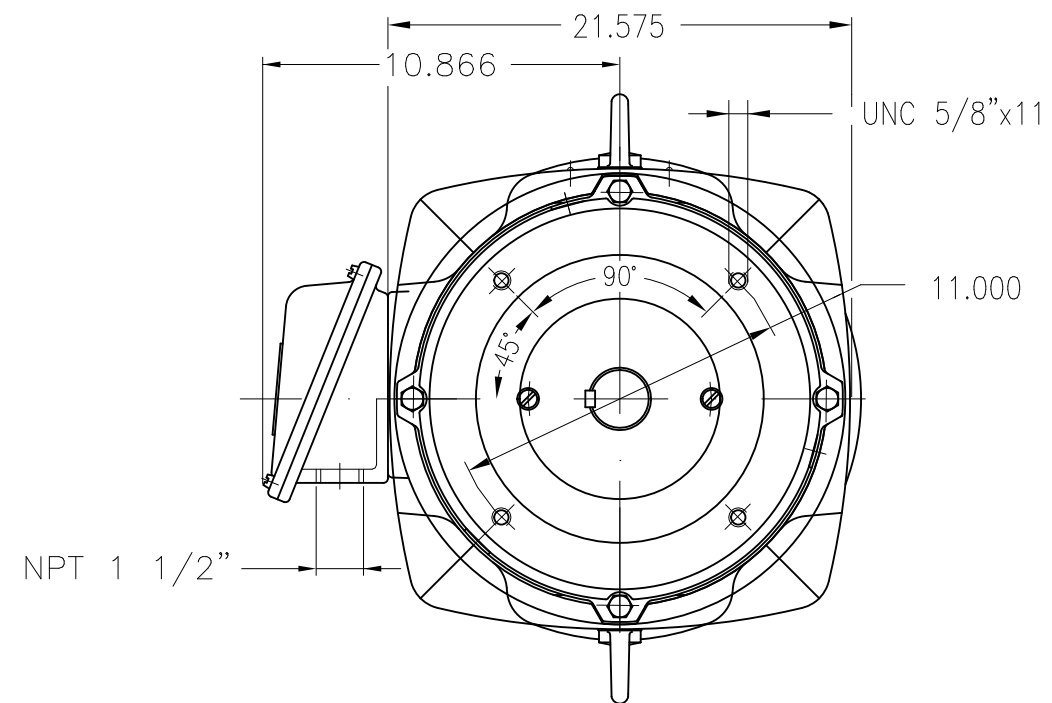


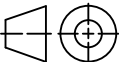
Performance : 575 V 60 Hz 2P

Rated current : 37.7 A
LRC : 6.4
Rated torque : 8.18 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 3550 rpm

Moment of inertia (J) : 0.0993 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			



40 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 286JM IP23 ODP			PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				