

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase Product code : 16446630

Frame	: 324/6JP	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 60 HP (45 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	: 57.5 A	Protection degree	: IP23
L. R. Amperes	: 362 A	Cooling method	: IC01 - ODP
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 16.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 12.2 kgfm	Approx. weight ³	: 223 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1610 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	92.4	93.0	93.6	Max. traction
Power Factor	0.72	0.81	0.84	Max. compression

	Drive end	Non drive end
Bearing type	: 6312 Z C3	6211 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 19658 h	20000 h
Lubricant amount	: 21 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	30/10/2024		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

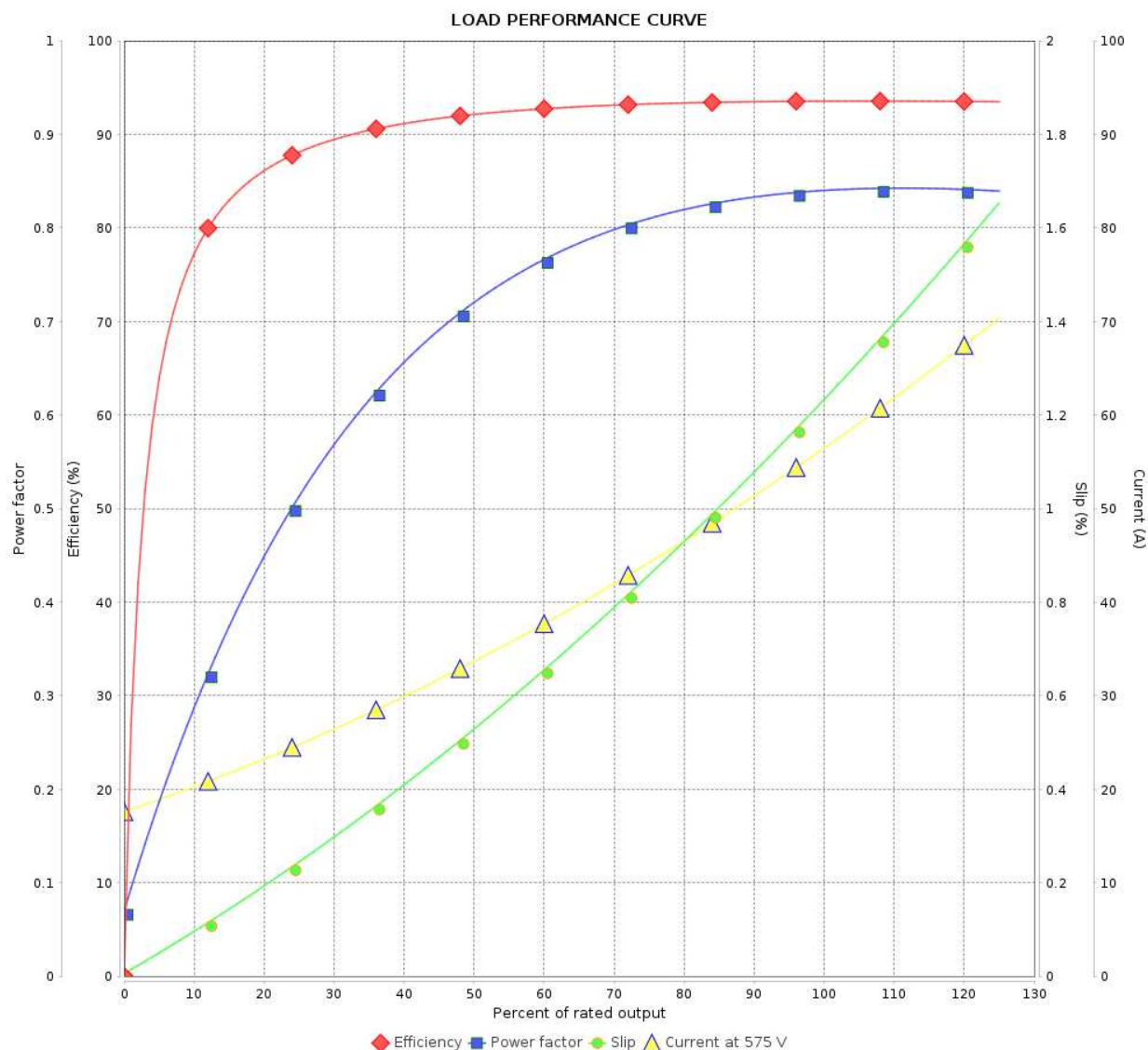
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 16446630

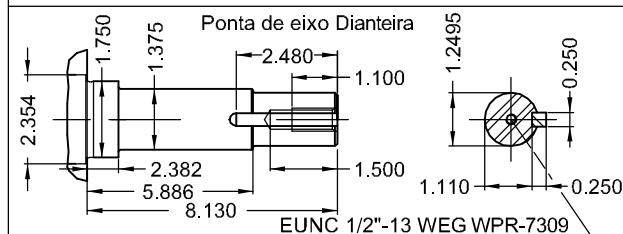
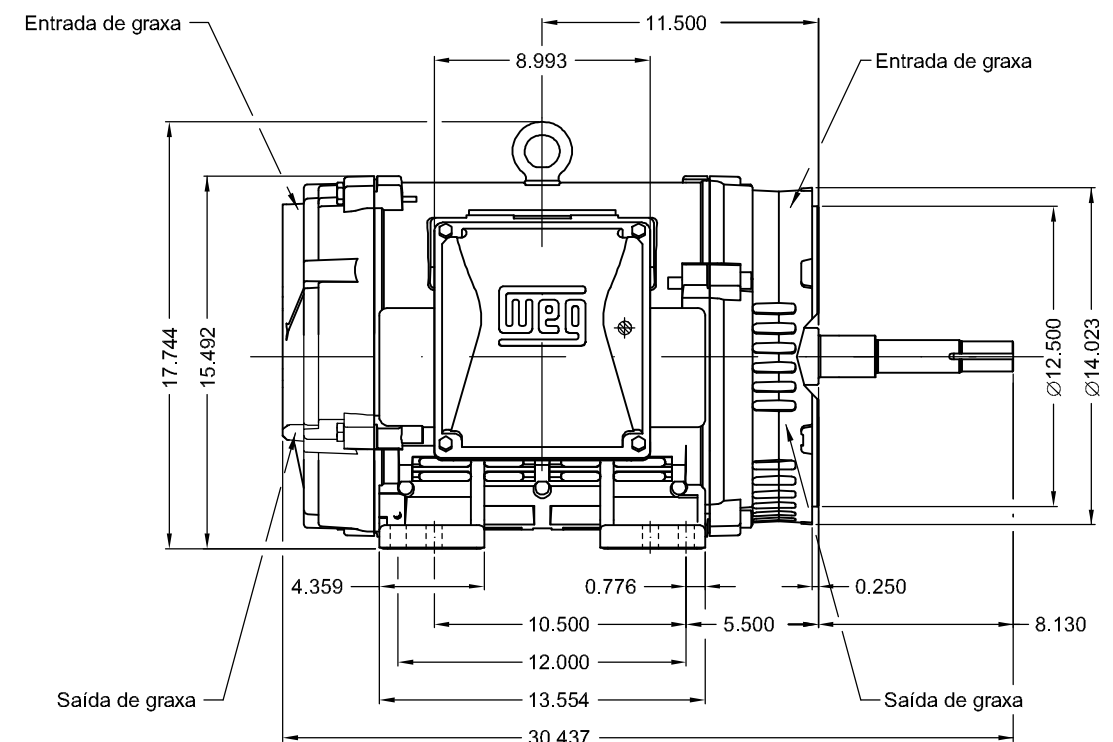
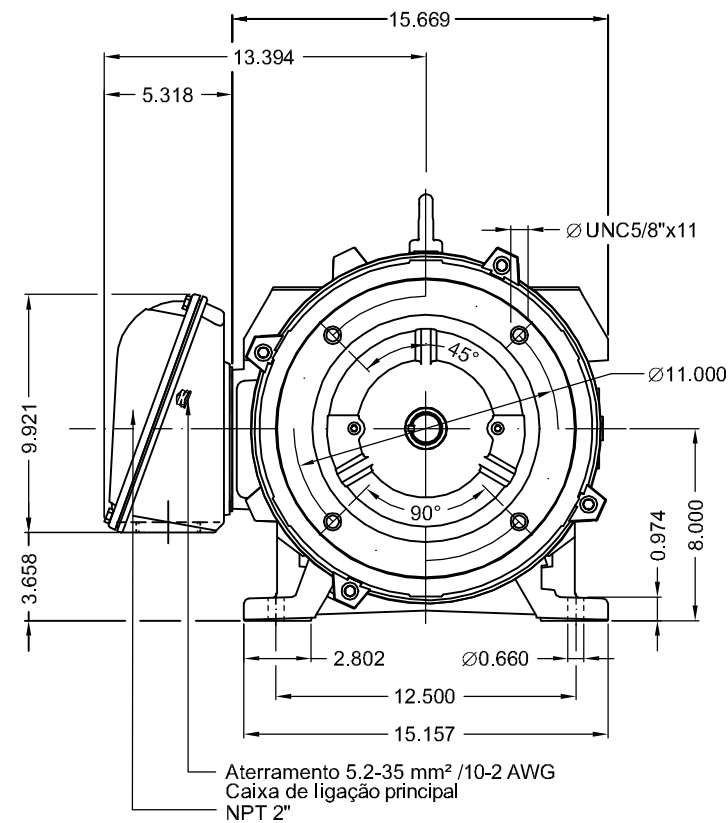


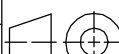
Performance : 575 V 60 Hz 2P

Rated current : 57.5 A
LRC : 6.3
Rated torque : 12.2 kgfm
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 3555 rpm

Moment of inertia (J) : 0.1610 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date					



60 HP 02 Polos 60 Hz										A	
V.J. PAMENSKY CANADA INC.											
								1:8			
500002169438			PCR 100000137070				JACKSONHM	ITALOGRAHL	ITALOGRAHL	12.07.2022	02
500002168866			ALT CONFORME 419892869				CLAUDEMIRR	JACKSONDC	JACKSONDC	08.07.2022	01
ECM		LOC	RESUMO MODIFICAÇÃO				EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	DANIELAW			MOTOR TRIFÁSICO W40 NEMA PREMIUM EFF CARÇAÇA 324/6JP IP23 ODP				10009349374			
VERIFICADOR	DANIELAW							000	02		
LIBERADOR	AMANDAL										
DATA LB.	26.01.2022	WMO	JARAGUA DO SUL				Engenharia de Produto	FOLHA	1	/	1