

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Wjet Pump Single-Phase

Product code : 10674757

Frame : E56J  
 Output : 3 HP (2.2 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 115/208-230 V  
 Rated current : 27.2/13.8-13.6 A  
 L. R. Amperes : 188/95.2-93.8 A  
 LRC : 6.9x(Code J)  
 No load current : 14.4/6.21-7.20 A  
 Rated speed : 3450 rpm  
 Slip : 4.17 %  
 Rated torque : 0.631 kgfm  
 Locked rotor torque : 150 %  
 Breakdown torque : 240 %  
 Insulation class : B  
 Service factor : 1.15  
 Moment of inertia (J) : 0.0232 kgm<sup>2</sup>

Locked rotor time : 10s (cold) 6s (hot)  
 Temperature rise : 80 K  
 Duty cycle : Cont.(S1)  
 Ambient temperature : -20°C to +40°C  
 Altitude : 1000 m.a.s.l.  
 Protection degree : IP21  
 Cooling method : IC01 - ODP  
 Mounting : F-1  
 Rotation<sup>1</sup> : CCW  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 18.7 kg

Output	50%	75%	100%
Efficiency (%)	76.8	79.7	80.1
Power Factor	0.71	0.72	0.88

Foundation loads  
 Max. traction : 39 kgf  
 Max. compression : 58 kgf

	Drive end	Non drive end
Bearing type	6203 2RS	6203 2RS
Sealing	Slinger	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
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
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Date	14/01/2024			

# LOAD PERFORMANCE CURVE

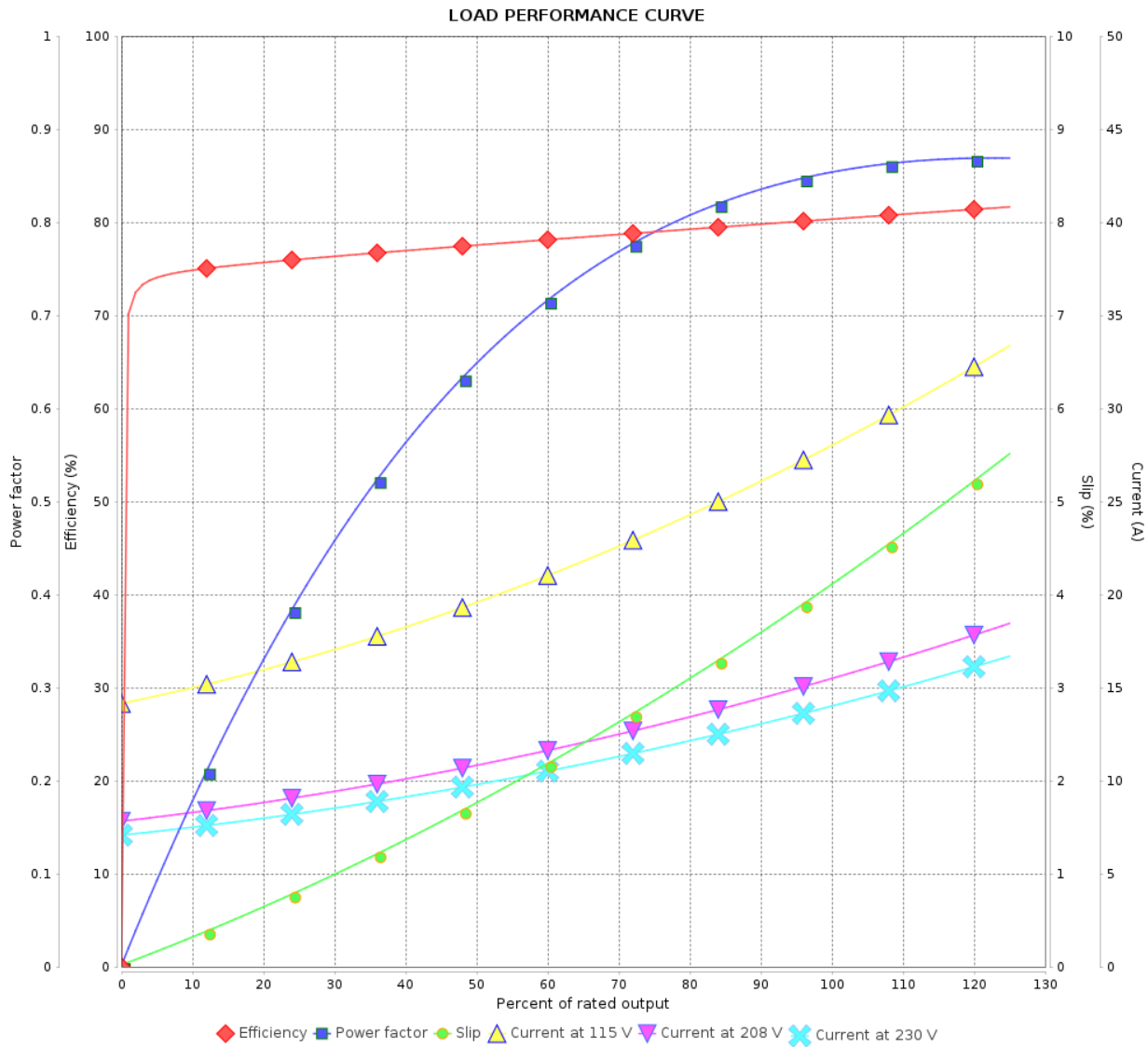
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Wjet Pump Single-Phase

Product code : 10674757



Performance : 115/208-230 V 60 Hz 2P

Rated current : 27.2/13.8-13.6 A  
 LRC : 6.9  
 Rated torque : 0.631 kgfm  
 Locked rotor torque : 150 %  
 Breakdown torque : 240 %  
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0232 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	14/01/2024			

1 2 3 4 5 6

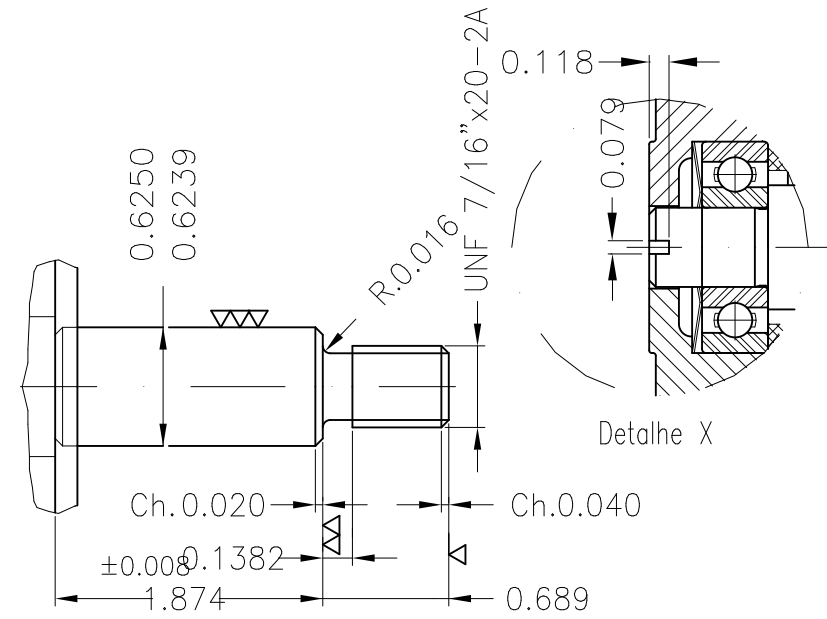
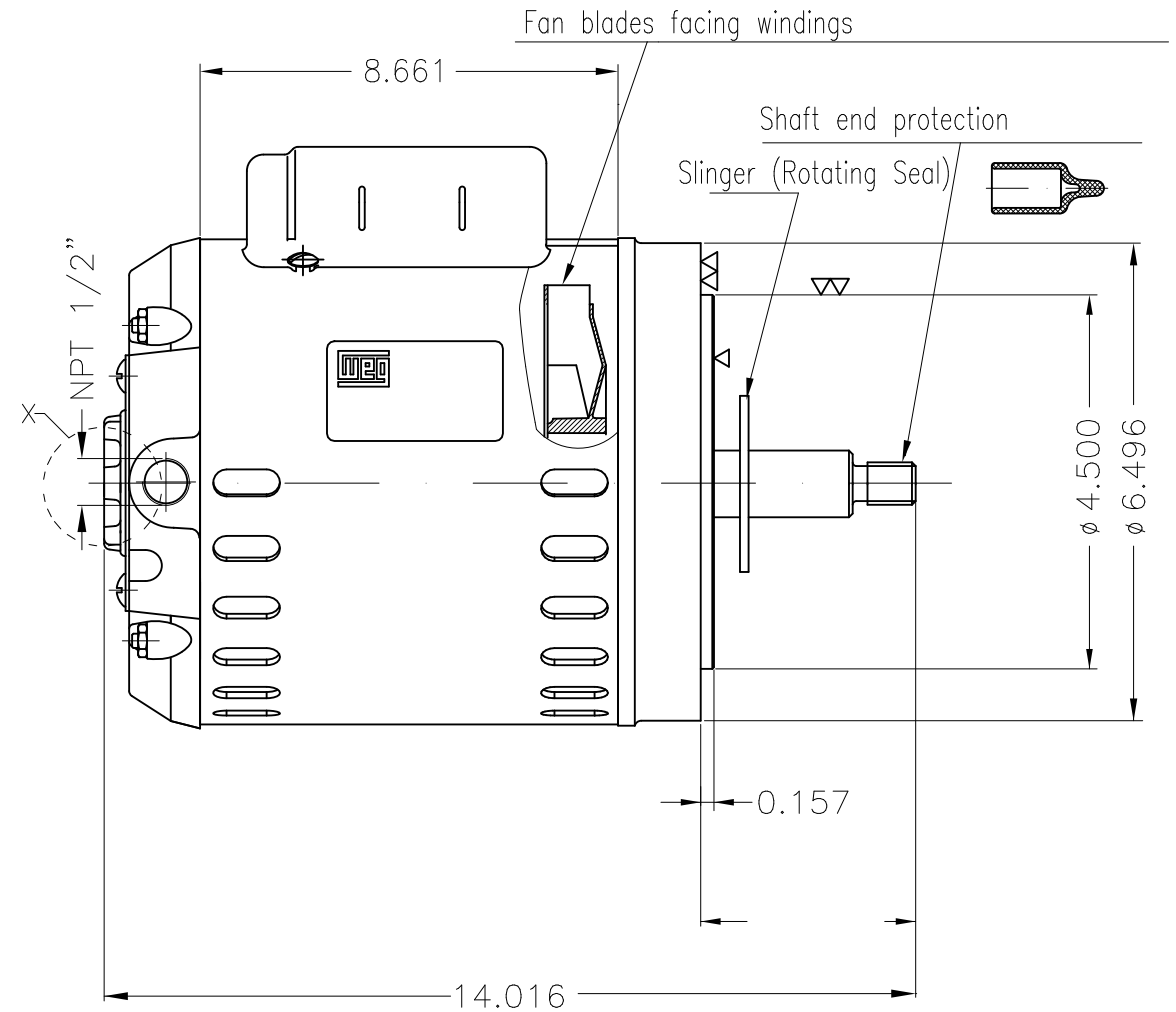
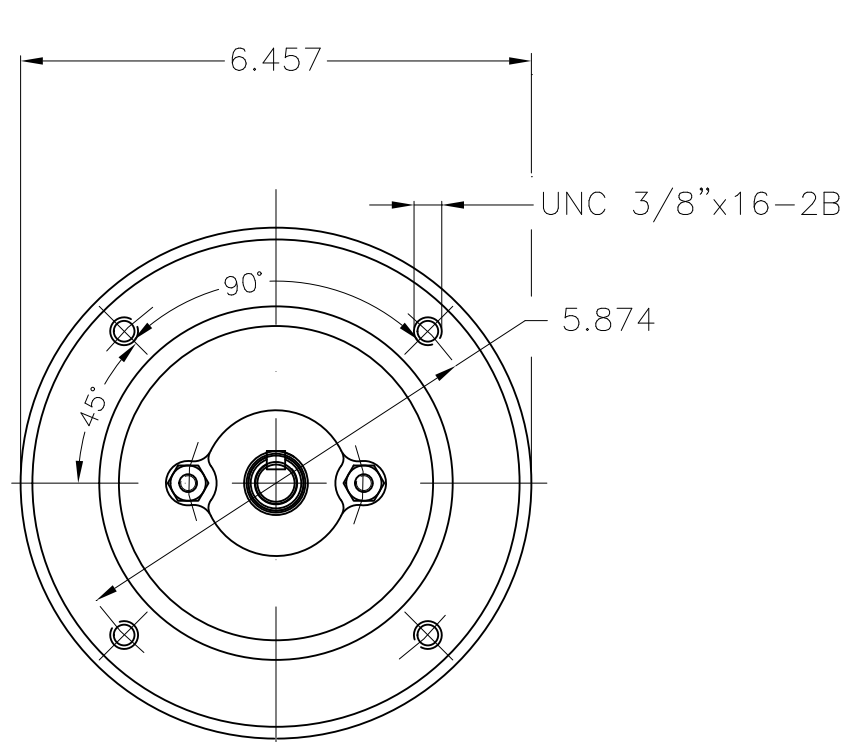
A


B

C

D

E



Mounting B14R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS			HYBRISUSER	00
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR WJET PUMP			EXECUTED	CHECKED
CHECKED		FRAME E56J IP21 ODP			RELEASED	DATE
RELEASED					VER	
REL. DATE	WMO	Jaragua do Sul	Product Engineering	<p>PREVIEW</p> <p>WDD 00</p> <p>SHEET 1 / 1</p> 		

3 HP 02 Poles 60 Hz

A