

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10084016

Frame	: W56J	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.30/3.90-4.65 A	Protection degree	: IP21
L. R. Amperes	: 42.8/17.9-21.4 A	Cooling method	: IC01 - ODP
LRC	: 4.6x(Code L)	Mounting	: F-1
No load current	: 7.10/3.06-3.55 A	Rotation <sup>1</sup>	: CCW
Rated speed	: 3465 rpm	Starting method	: Direct On Line
Slip	: 3.75 %	Approx. weight <sup>3</sup>	: 9.0 kg
Rated torque	: 0.105 kgfm		
Locked rotor torque	: 190 %		
Breakdown torque	: 290 %		
Insulation class	: B		
Service factor	: 1.60		
Moment of inertia (J)	: 0.0080 kgm <sup>2</sup>		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	41.8	44.8	53.5	58.0	Max. traction	: 5 kgf
Power Factor	0.27	0.47	0.55	0.63	Max. compression	: 14 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 2RS	6202 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				
Checked by			Page	Revision
Date	14/01/2024		1 / 2	

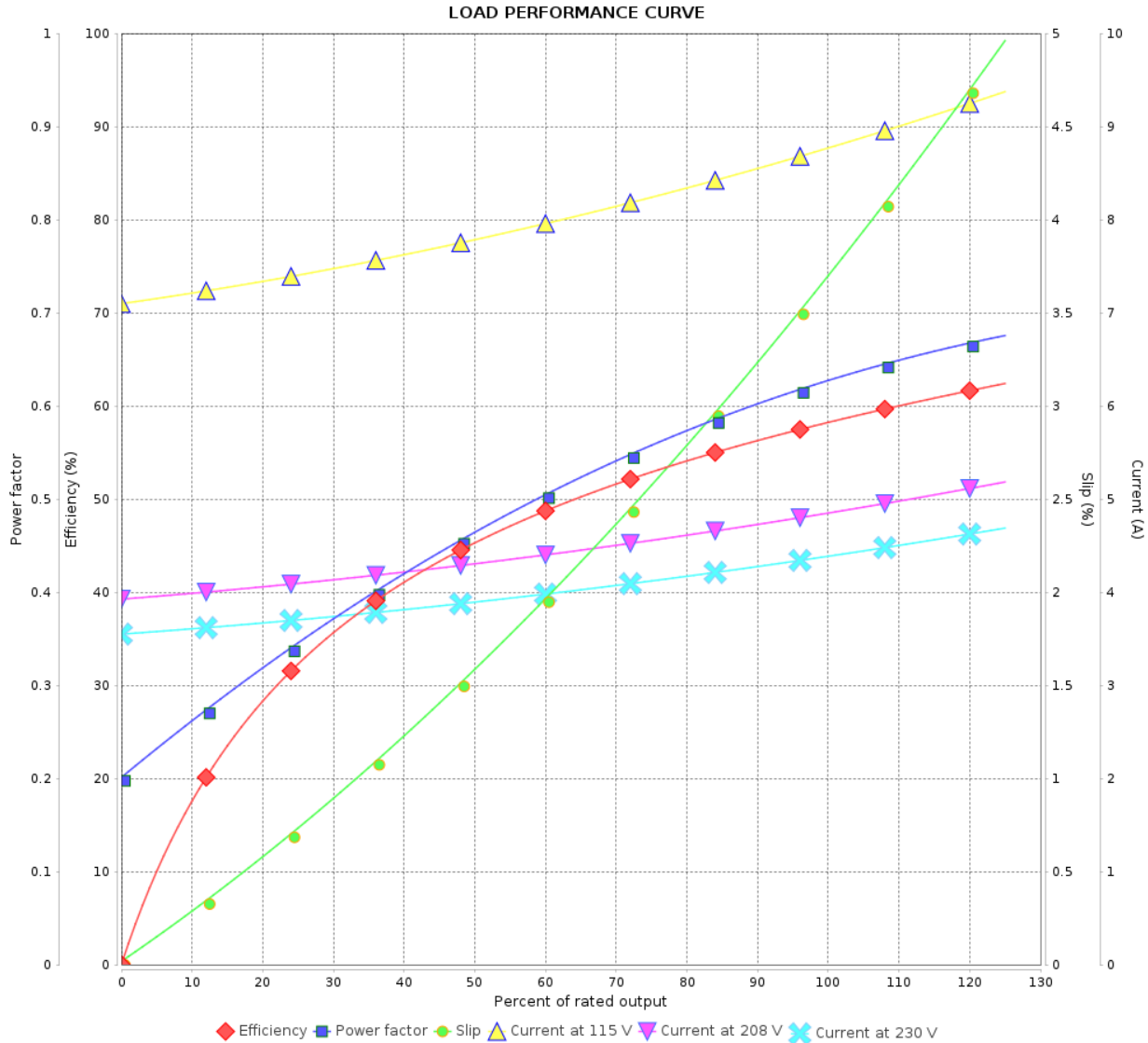
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Wjet Pump Single-Phase Start Capacitor      Product code : 10084016



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

Rated current : 9.30/3.90-4.65 A  
 LRC : 4.6  
 Rated torque : 0.105 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 290 %  
 Rated speed : 3465 rpm

Moment of inertia (J) : 0.0080 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			

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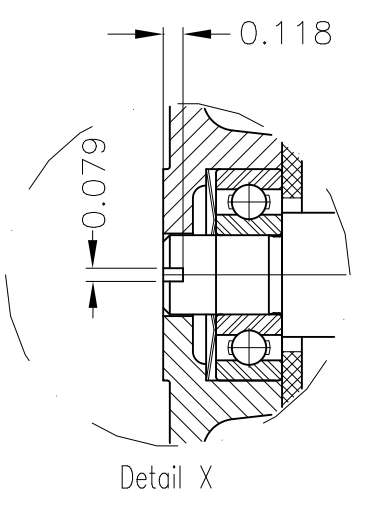
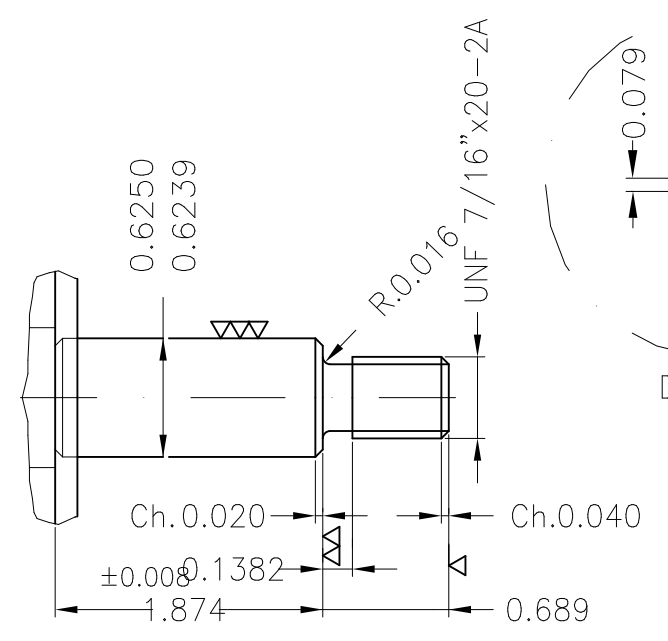
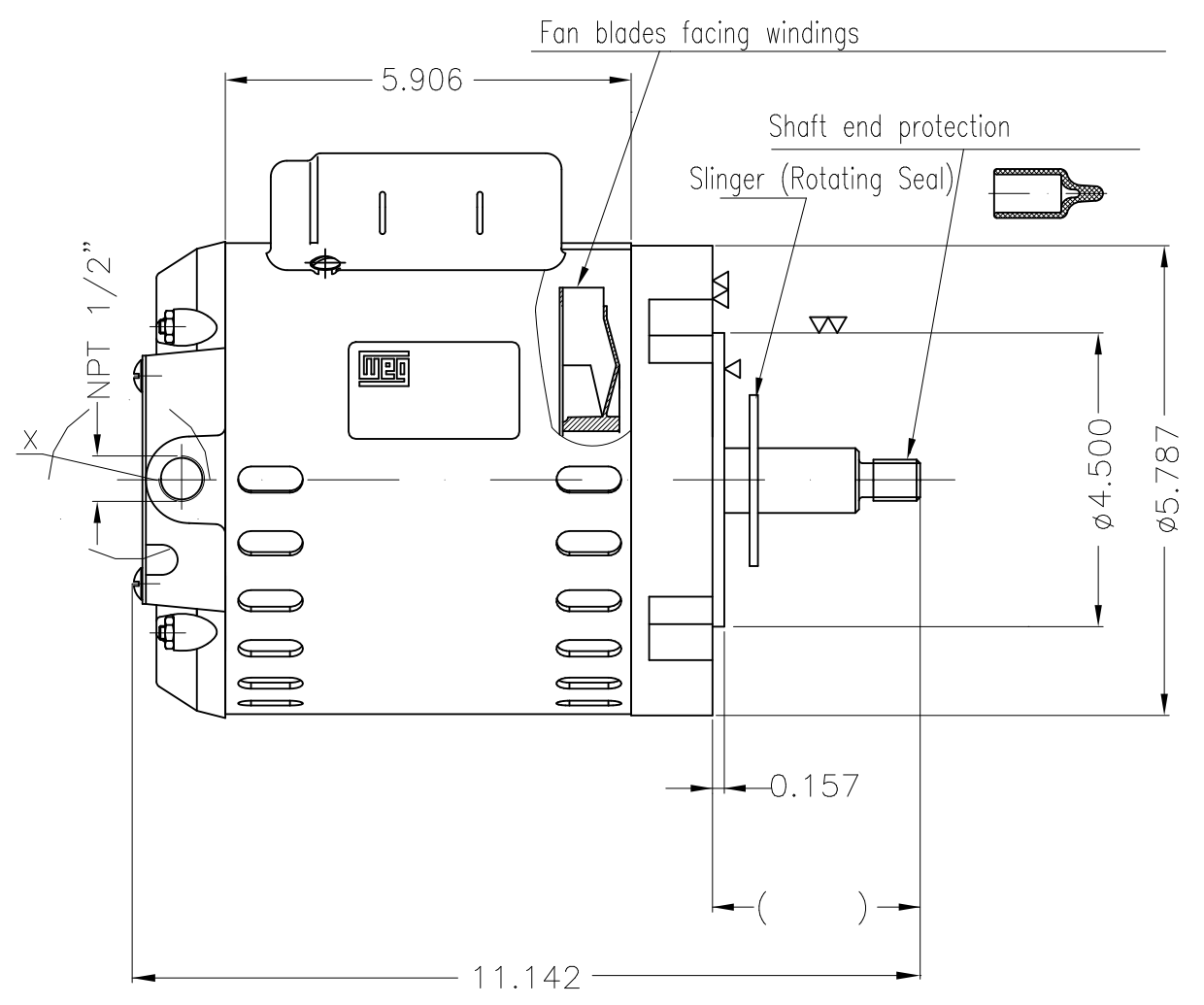
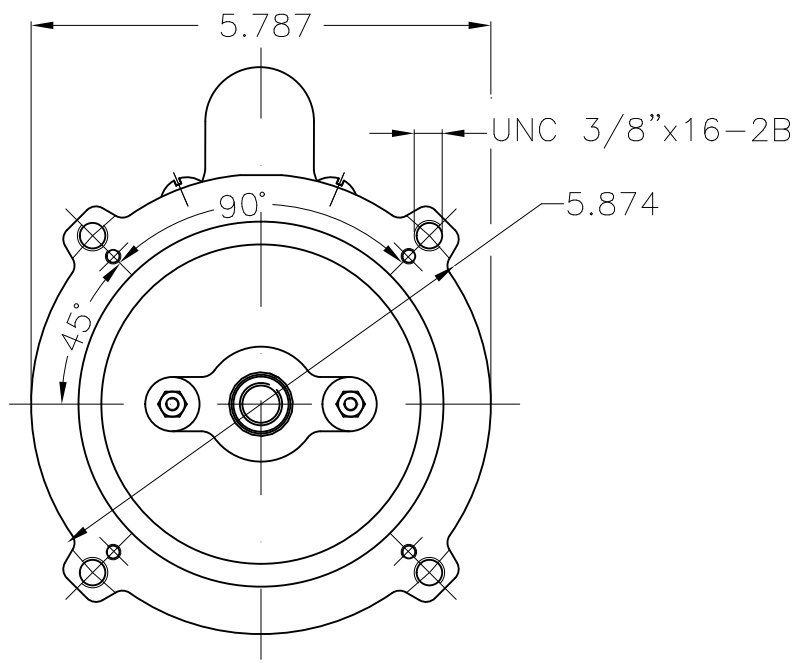
A

B

C

D

E



Mounting B14R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS			DATE	VER
EXECUTED	HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		SINGLE PH. MOTOR WJET PUMP				
RELEASED		FRAME W56J IP21 ODP				
REL. DATE	WMO	Jaragua do Sul	Product Engineering	PREVIEW	WDD	00
				SHEET	1 / 1	

1/2 HP 02 Poles 60 Hz

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Dimensions in inches XME A3