

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10597689

Frame	: W56C	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>	: Both (CW and CCW)
Rated speed	: 3465 rpm	Starting method	: Direct On Line
Slip	: 3.75 %	Approx. weight <sup>3</sup>	: 9.1 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	

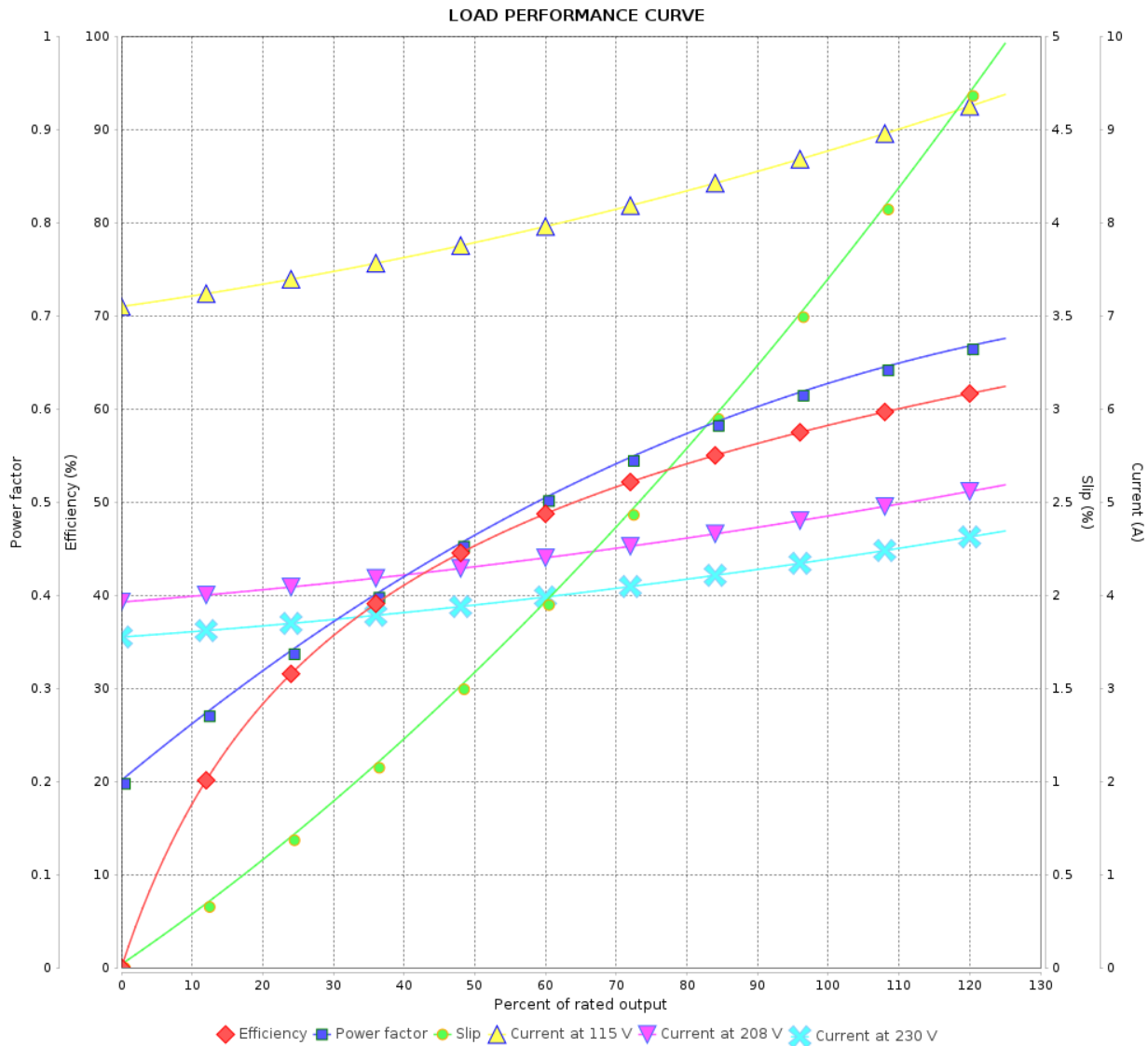
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Wjet Pump Single-Phase Start Capacitor Product code : 10597689

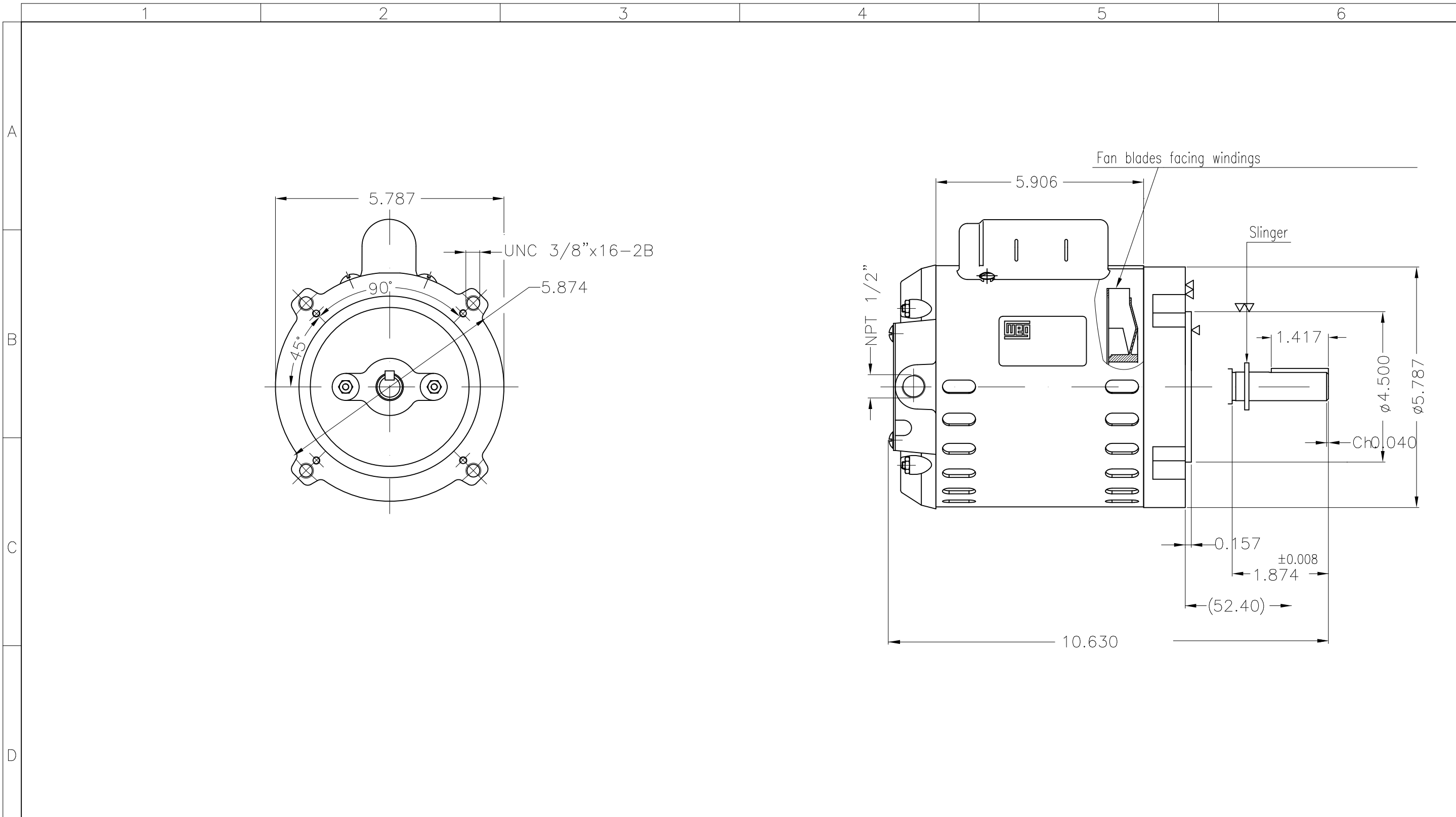


Performance : 115/208-230 V 60 Hz 2P

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
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Dimensions in inches

Mounting NEMA F-1											
Mounting B14R(D)											
ECM	LOC	SUMMARY OF MODIFICATIONS				HYBRISUSER					00
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR WJET PUMP									
CHECKED		FRAME W56C IP21 ODP									
RELEASED											
REL. DATE		WMO	Jaragua do Sul	Product Engineering							

1/2 HP 02 Poles 60 Hz

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XME A3