

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Jet Pump - C type Single-Phase	Product code : 14580015		
Frame	: 56C	Cooling method : IC01 - ODP		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : CCW		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 13.8 kg		
Design	: N	Moment of inertia (J) : 0.0023 kgm <sup>2</sup>		
Output [HP]		1		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		8.60/4.75-4.30		
L. R. Amperes [A]		72.2/39.9-36.1		
LRC [A]		8.4x(Code K)		
No load current [A]		2.60/1.12-1.30		
Rated speed [RPM]		3510		
Slip [%]		2.50		
Rated torque [kgfm]		0.207		
Locked rotor torque [%]		290		
Breakdown torque [%]		300		
Service factor				
Temperature rise		80 K		
Locked rotor time		28s (cold) 16s (hot)		
Noise level <sup>2</sup>		58.0 dB(A)		
Efficiency (%)	25%			
	50%	69.0		
	75%	76.0		
	100%	80.4		
Power Factor	25%			
	50%	0.89		
	75%	0.93		
	100%	0.94		
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 13 kgf		
Lubrication interval	: - -	Max. compression : 26 kgf		
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

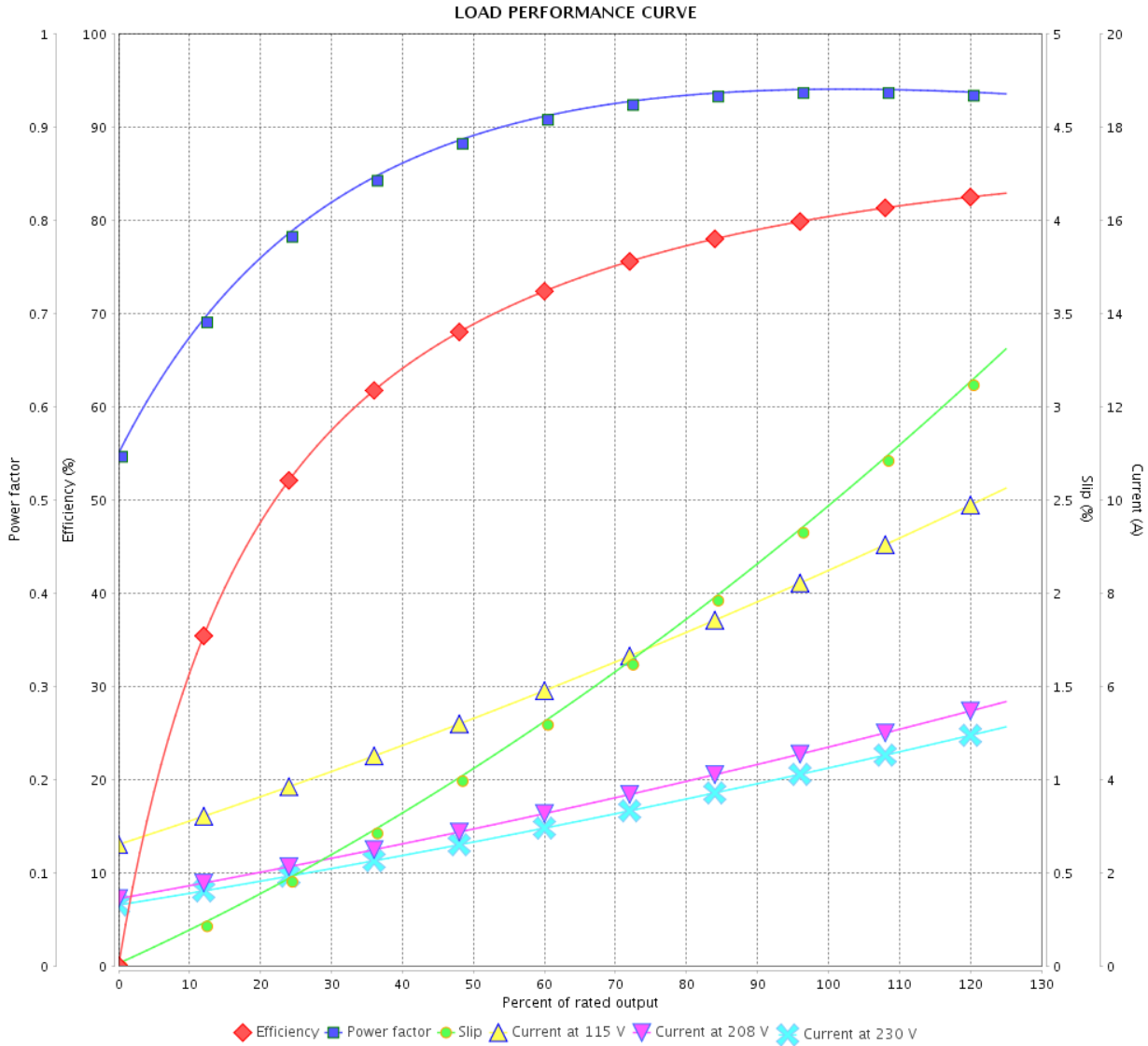
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Single-Phase Product code : 14580015



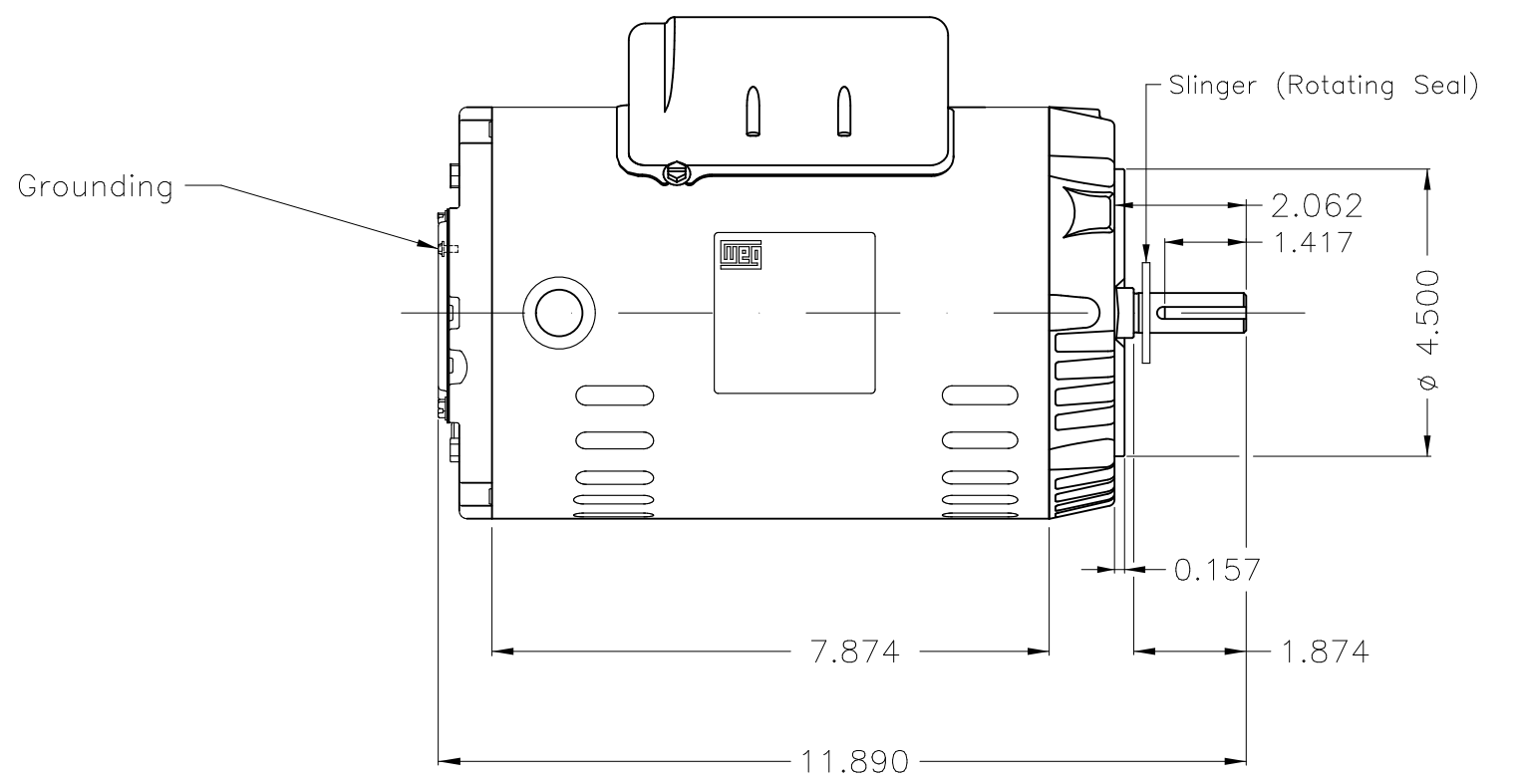
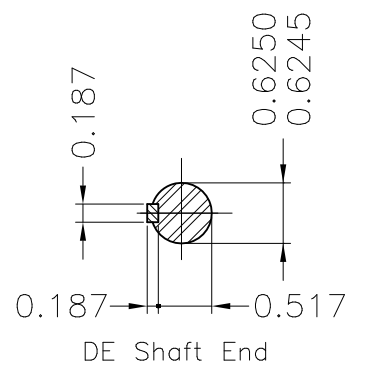
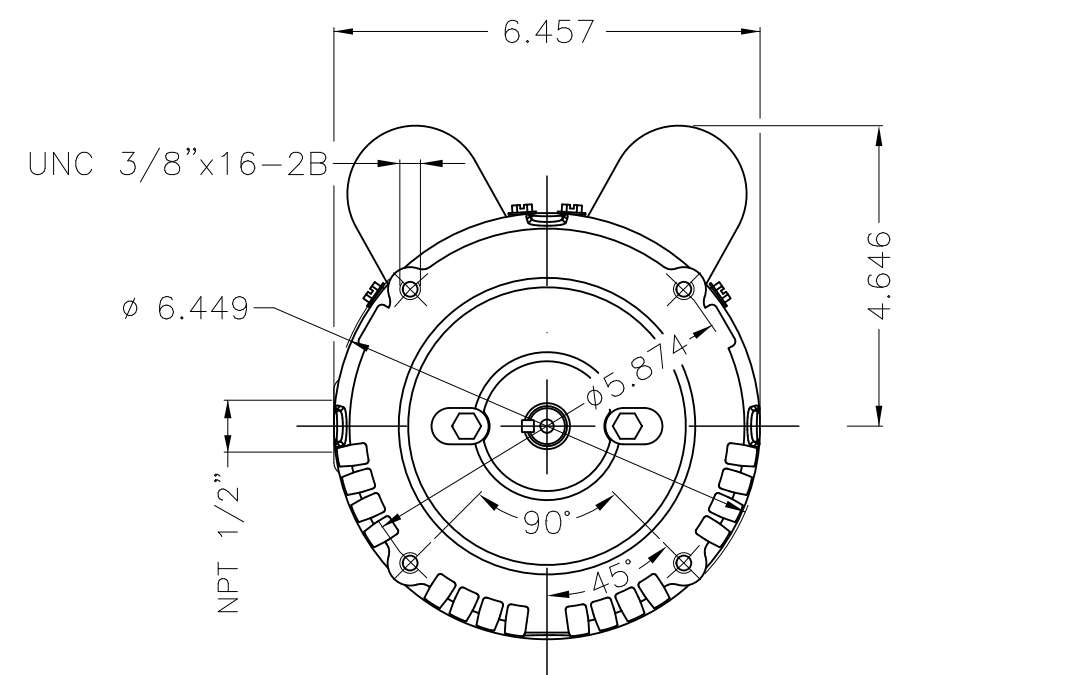
Performance : 115/208-230 V 60 Hz 2P

Rated current : 8.60/4.75-4.30 A  
 LRC : 8.4  
 Rated torque : 0.207 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 300 %  
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0023 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

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

A  
B  
C  
D  
E

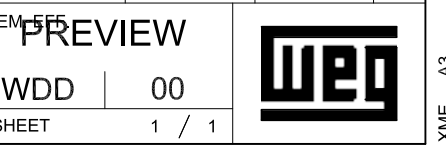


Dimensions in inches

Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER						00

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL JET PUMP KEYED PREM 555 FRAME 56C IP21 ODP	WDD	00
CHECKED				
RELEASED				
REL. DATE	WMO		Jaragua do Sul	Product Engineering



1 HP 02 Poles 60 Hz

A

XME A3