

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Centrifugal Pump Single-Phase Product code : 10803176

Frame	: F56HJ	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 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	: 20.0/10.6-10.0 A	Protection degree	: IP55
L. R. Amperes	: 140/74.2-70.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code K)	Mounting	: F-1
No load current	: 9.00/0.000-4.50 A	Rotation <sup>1</sup>	: CCW
Rated speed	: 3470 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 3.61 %	Starting method	: Direct On Line
Rated torque	: 0.418 kgfm	Approx. weight <sup>3</sup>	: 20.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0033 kgm <sup>2</sup>		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	69.0	73.0	74.0	Max. traction	: 22 kgf
Power Factor	0.00	0.72	0.81	0.87	Max. compression	: 42 kgf

	Drive end	Non drive end
Bearing type	: 6204 2RS	6203 2RS
Sealing	: V'Ring	V'Ring
Lubrication interval	: 0 h	0 h
Lubricant amount	: 0 g	0 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			Page	Revision
Date	24/10/2024		1 / 2	

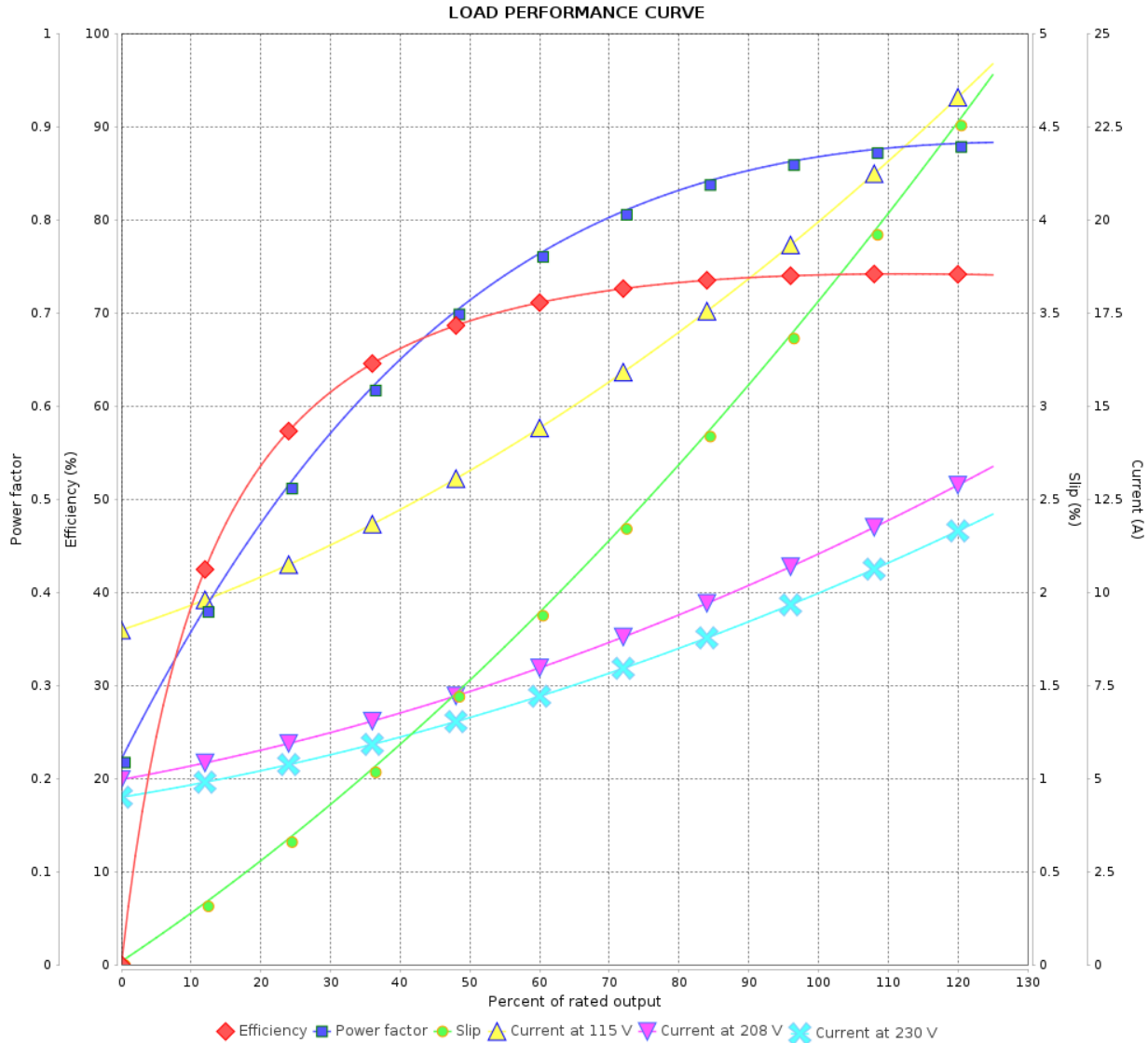
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Product code : 10803176

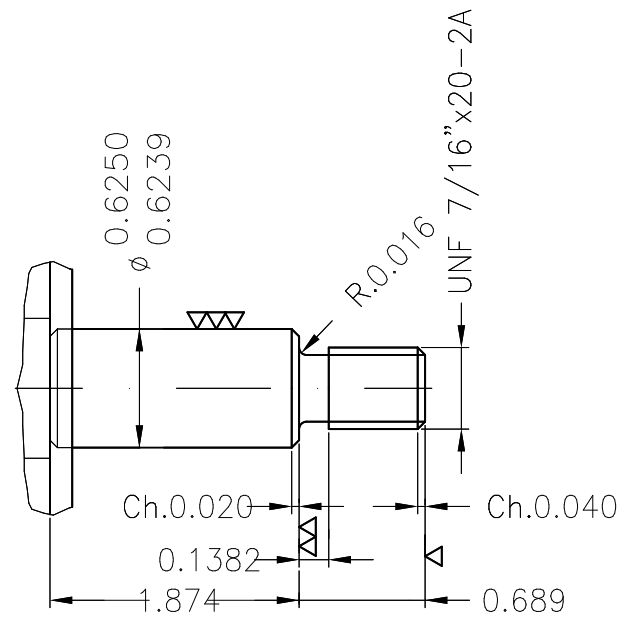
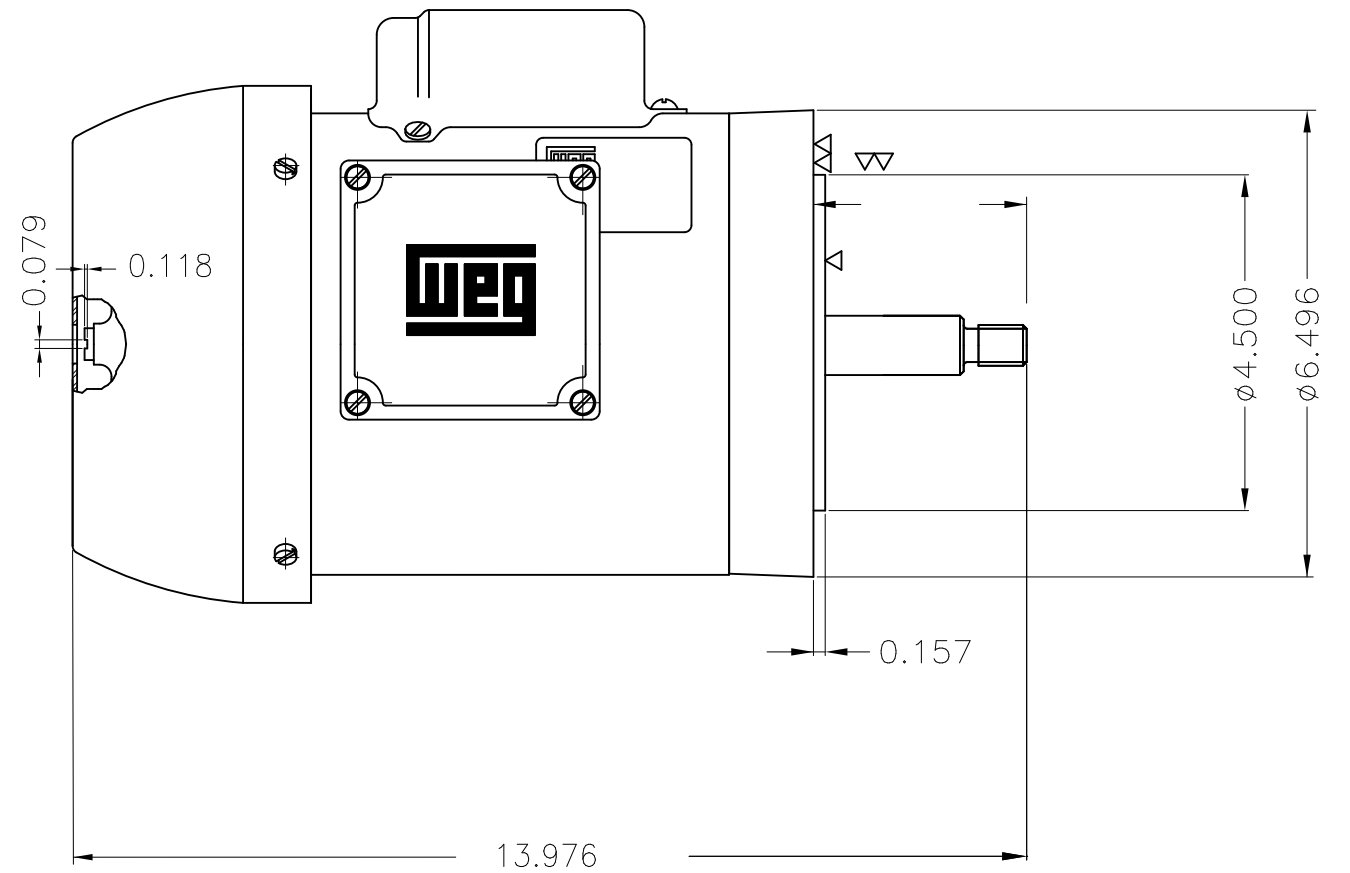
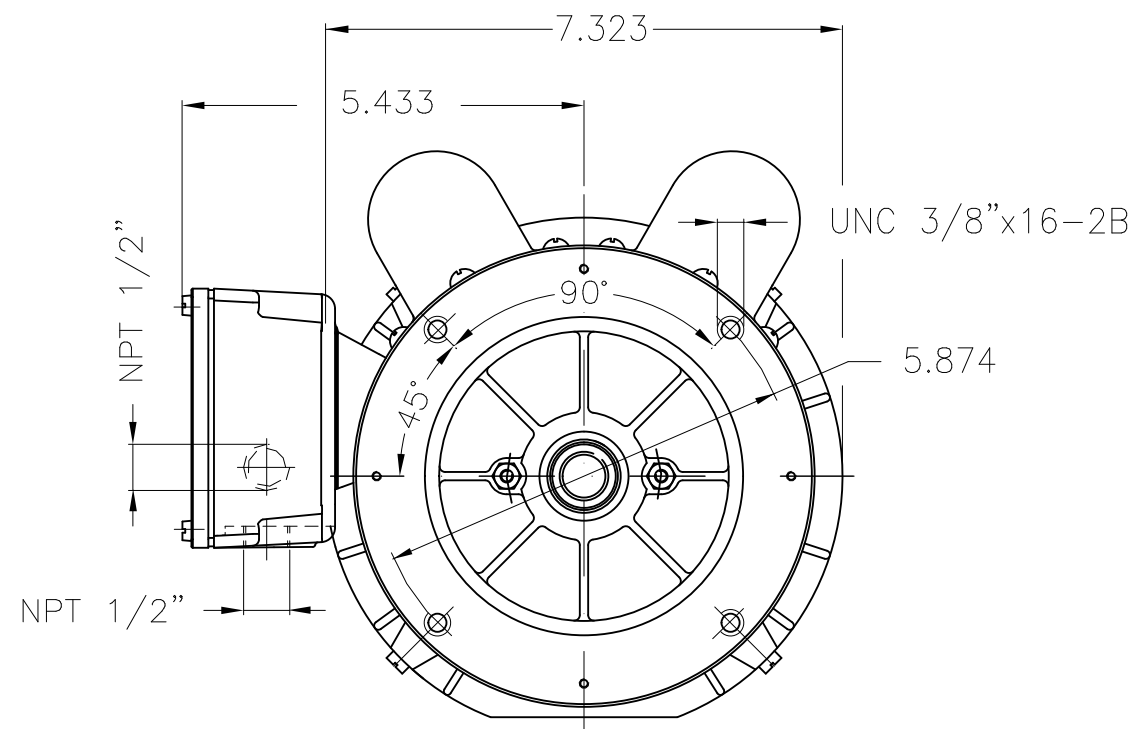


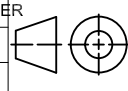

Performance : 115/208-230 V 60 Hz 2P

Rated current : 20.0/10.6-10.0 A  
 LRC : 7.0  
 Rated torque : 0.418 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 240 %  
 Rated speed : 3470 rpm

Moment of inertia (J) : 0.0033 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date				



Mounting NEMA F-1						
Mounting B14R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	DATAVIEWER	 SINGLE PH. MOTOR CENTRIFUGAL PUMP FRAME F56HJ IP55 TEFC	<b>PREVIEW</b> WDD			
CHECKED						
RELEASED						
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

2 HP 02 Poles 60 Hz