

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :	
Product line	: Centrifugal Pump Single-Phase
Product code	: 10803176
Frame : F56HJ Output : 2 HP (1.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 115/208-230 V Rated current : 20.0/10.6-10.0 A L. R. Amperes : 140/74.2-70.0 A LRC : 7.0x(Code K) No load current : 9.00/0.000-4.50 A Rated speed : 3470 rpm Slip : 3.61 % Rated torque : 0.418 kgfm Locked rotor torque : 250 % Breakdown torque : 240 % Insulation class : B Service factor : 1.15 Moment of inertia (J) : 0.0033 kgm ²	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 : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : CCW Noise level ² : 55.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 20.0 kg
Output	25% 50% 75% 100%
Efficiency (%)	0.000 69.0 73.0 74.0
Power Factor	0.00 0.72 0.81 0.87
Foundation loads	Max. traction : 22 kgf Max. compression : 42 kgf
Bearing type	: <u>Drive end</u> 6204 2RS <u>Non drive end</u> 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

Notes area is currently blank.

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
Checked by		1 / 2		
Date	24/10/2024			

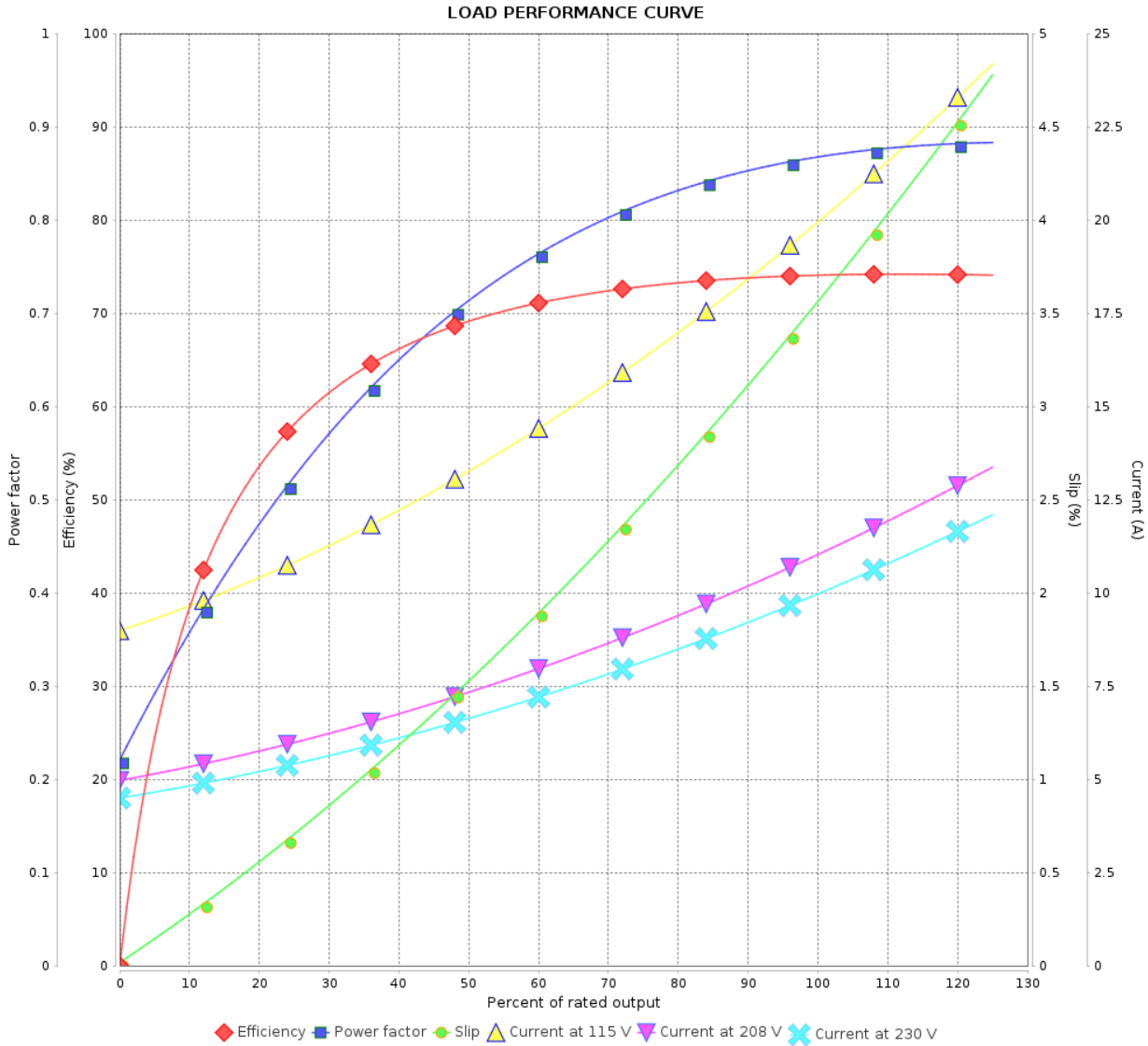
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



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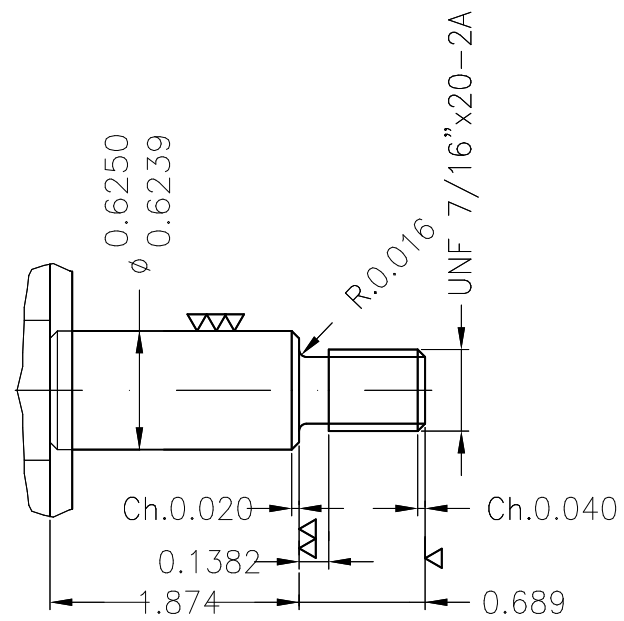
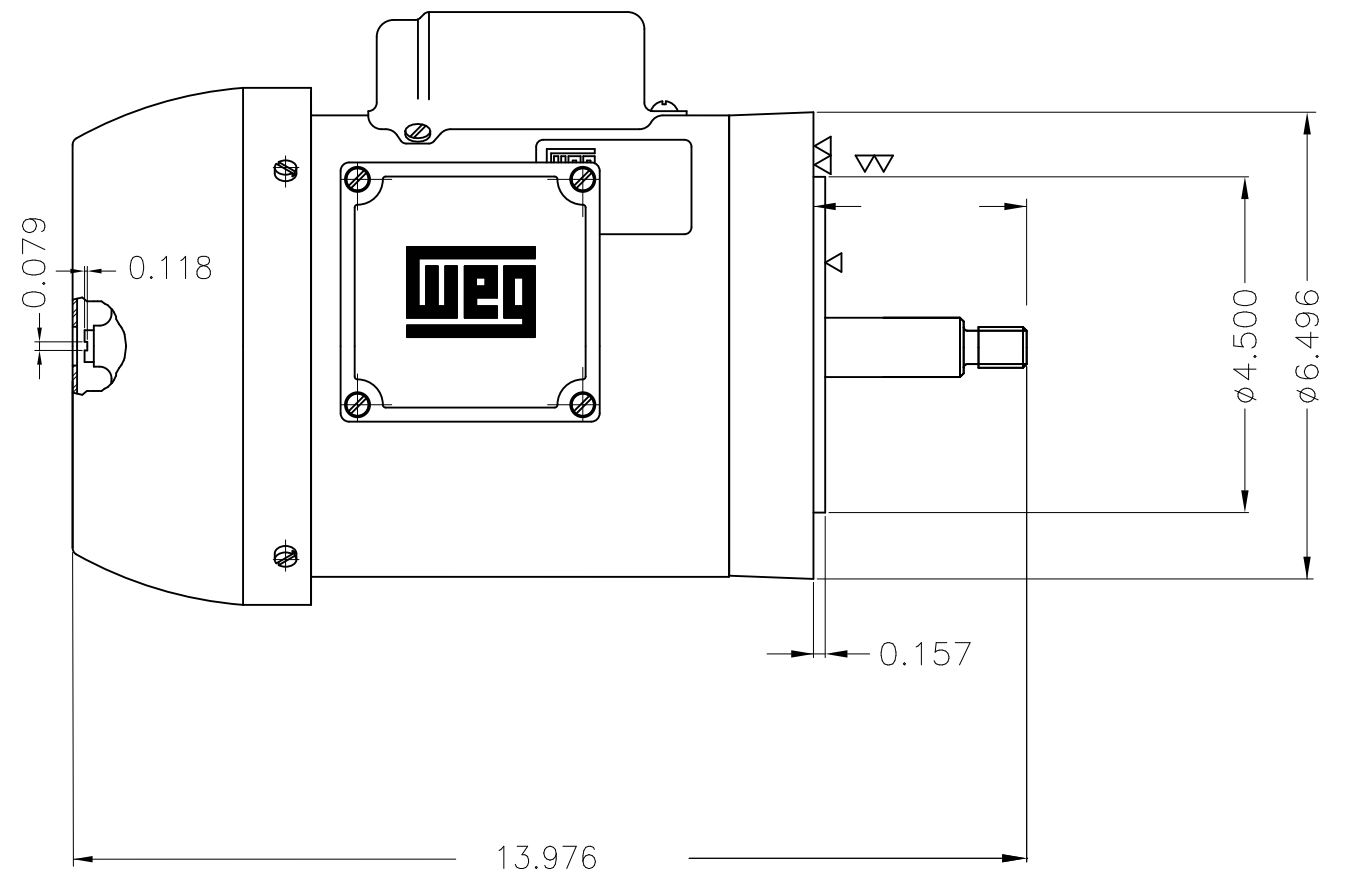
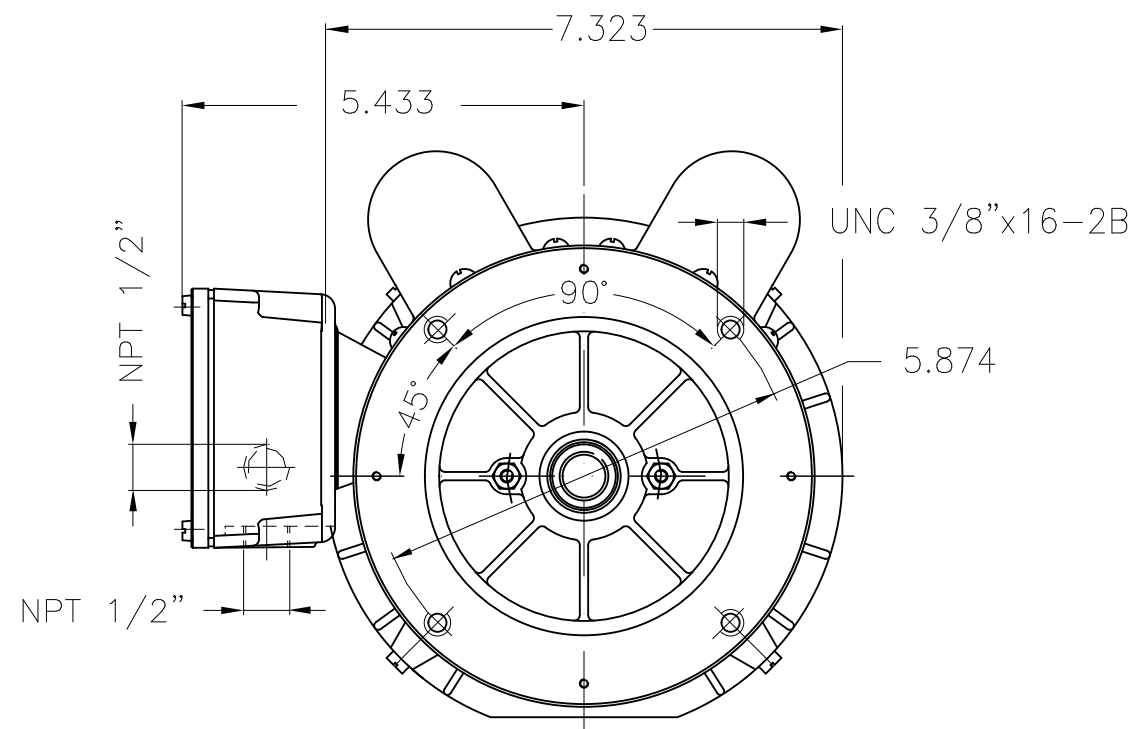


Performance : 115/208-230 V 60 Hz 2P

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 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : B
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
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			PREVIEW		WDD		
CHECKED		FRAME F56HJ IP55 TEFC			WDD		SHEET 1 / 1		
RELEASED					WEG				
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1					

2 HP 02 Poles 60 Hz