

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Centrifugal Pump Single-Phase Start Capacitor		Product code : 10744003		
Frame	: F56HC		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	: 9.00/3.88-4.50 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3470 rpm		Noise level ²	: 55.0 dB(A)		
Slip	: 3.61 %		Starting method	: Direct On Line		
Rated torque	: 0.418 kgfm		Approx. weight ³	: 20.1 kg		
Locked rotor torque	: 250 %					
Breakdown torque	: 240 %					
Insulation class	: B					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0033 kgm ²					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	69.0	73.0	74.0	Max. traction : 22 kgf		
Power Factor	0.72	0.81	0.87	Max. compression : 42 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6204 2RS		6203 2RS		
Sealing	:	V'Ring		V'Ring		
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	24/10/2024				1 / 2	

LOAD PERFORMANCE CURVE

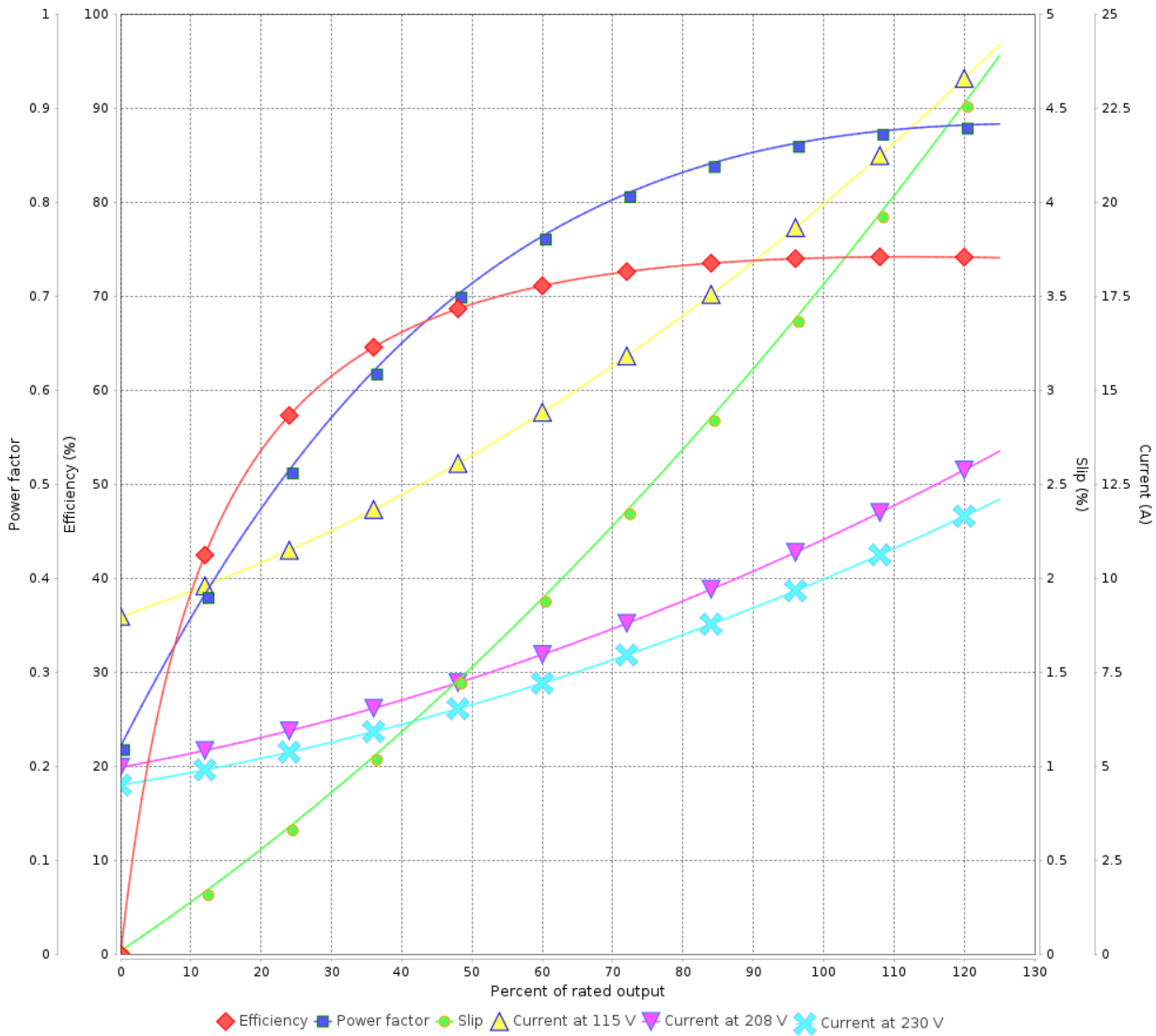
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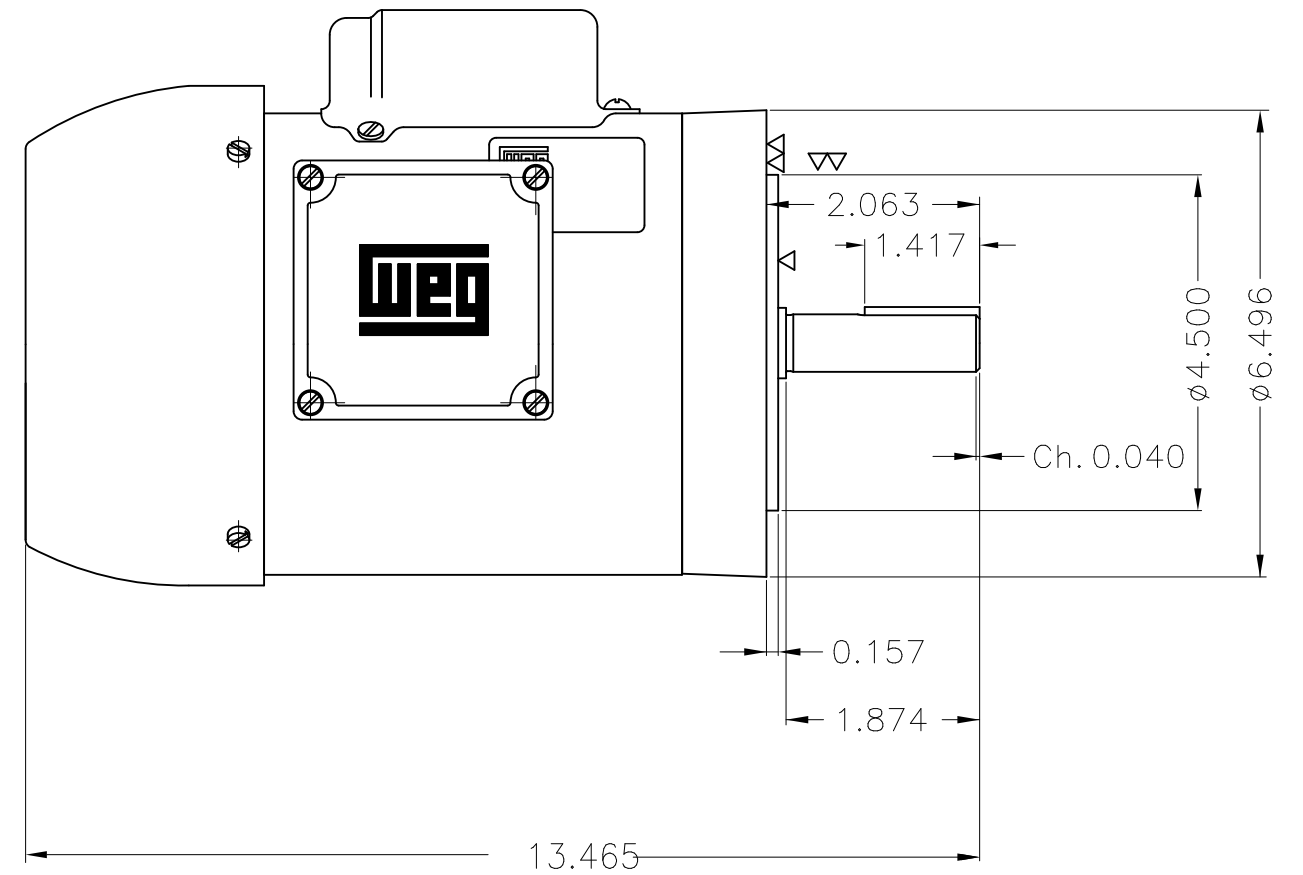
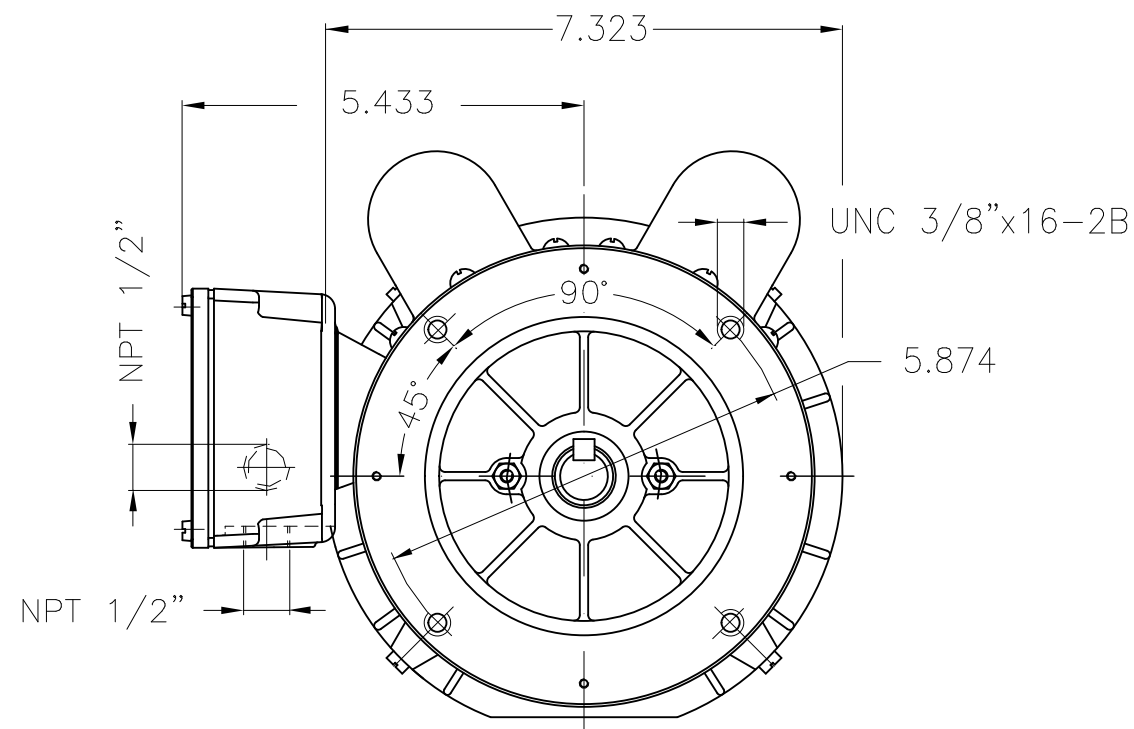
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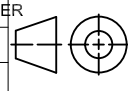



Performance : 115/208-230 V 60 Hz 2P

Rated current	: 20.0/10.6-10.0 A	Moment of inertia (J)	: 0.0033 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.418 kgfm	Insulation class	: B
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm		

Rev.	Changes Summary	Performed	Checked	Date
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Mounting B14R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	DATAVIEWER	 SINGLE PH. MOTOR CENTRIFUGAL PUMP FRAME F56HC IP55 TEFC	PREVIEW WDD			
CHECKED						
RELEASED						
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

2 HP 02 Poles 60 Hz

A