

# 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 <sup>1</sup>	: Both (CW and 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>	: 20.1 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	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	
Bearing type	:	<u>Drive end</u>	6204 2RS	<u>Non drive end</u>	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	14/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

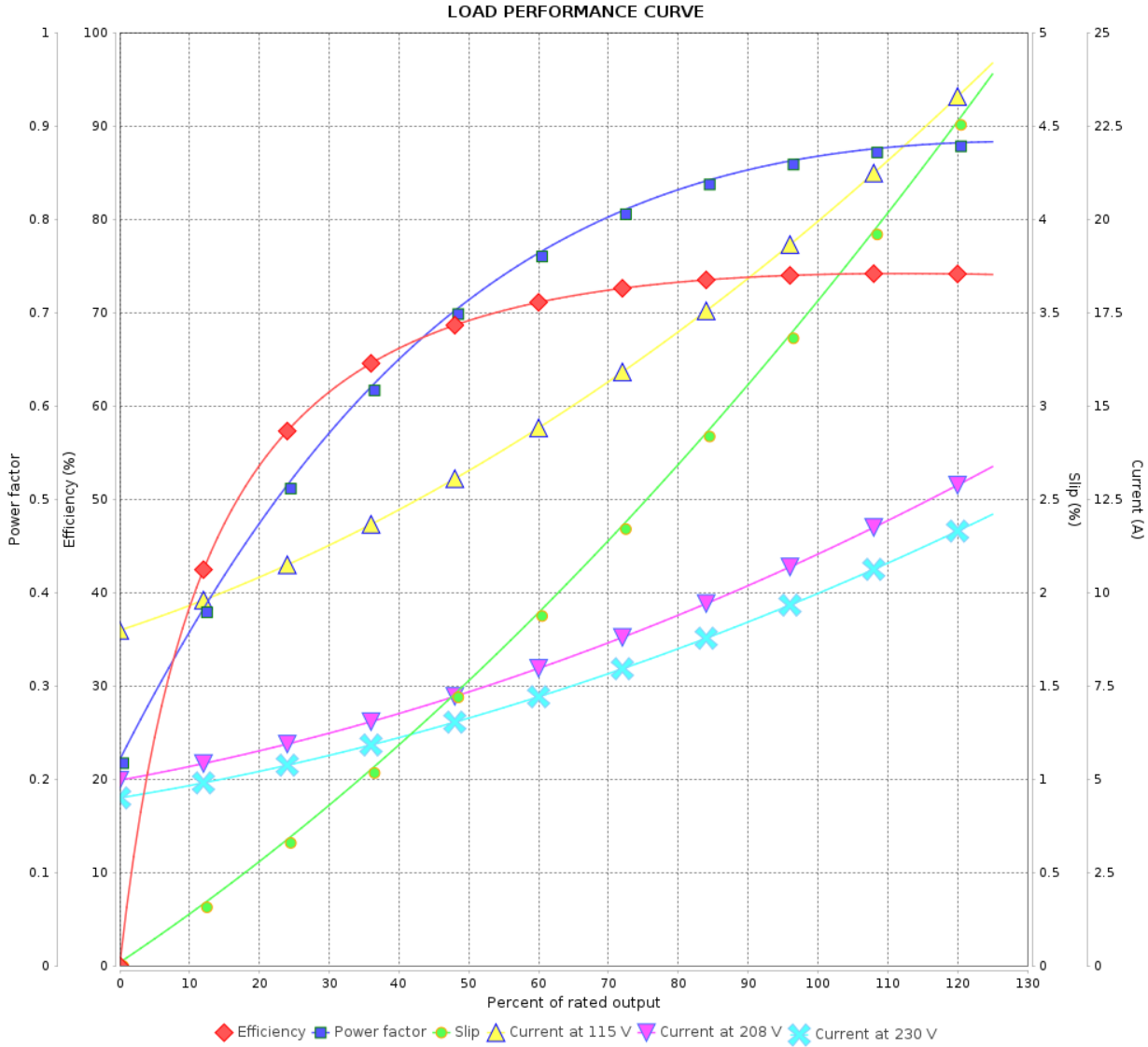
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor

Product code : 10744003

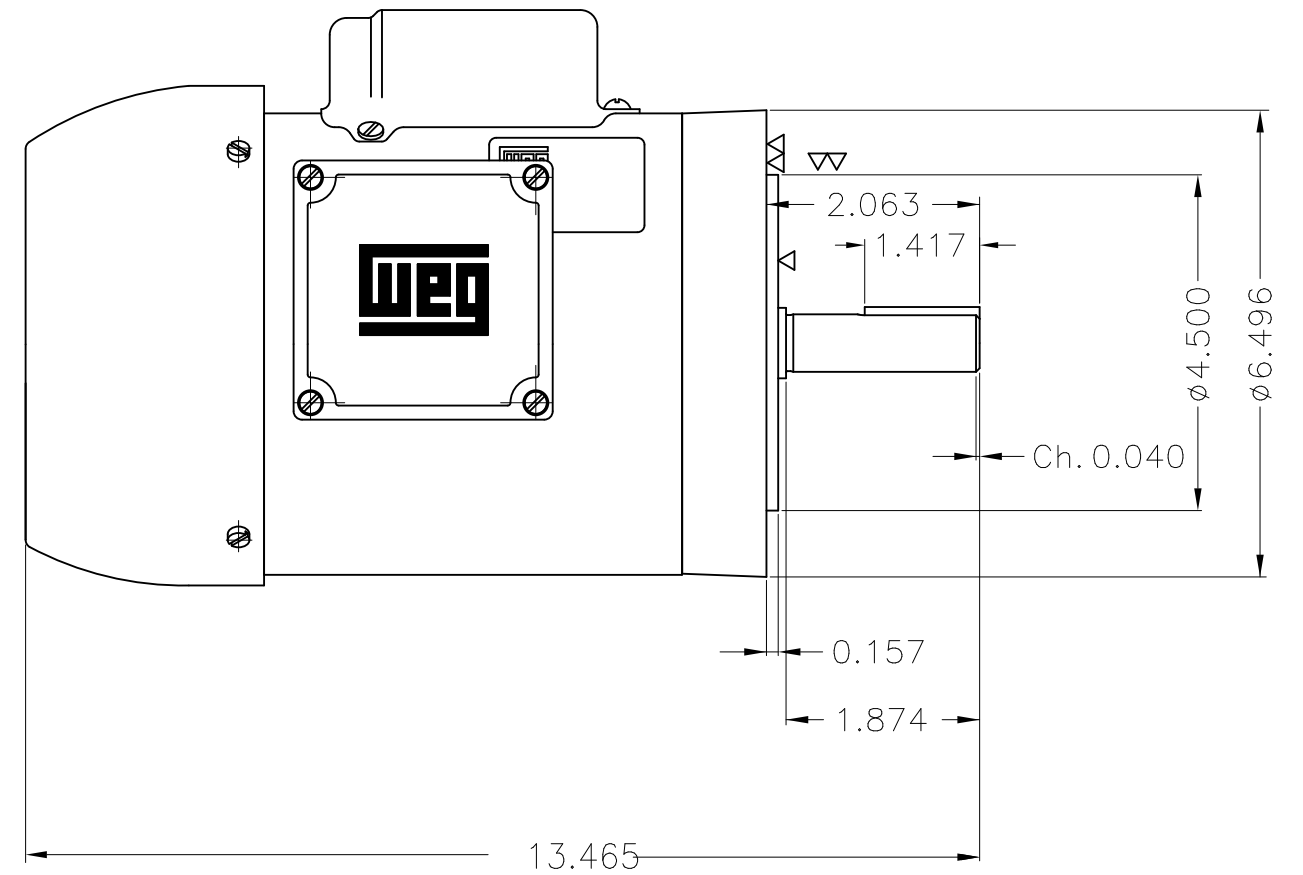
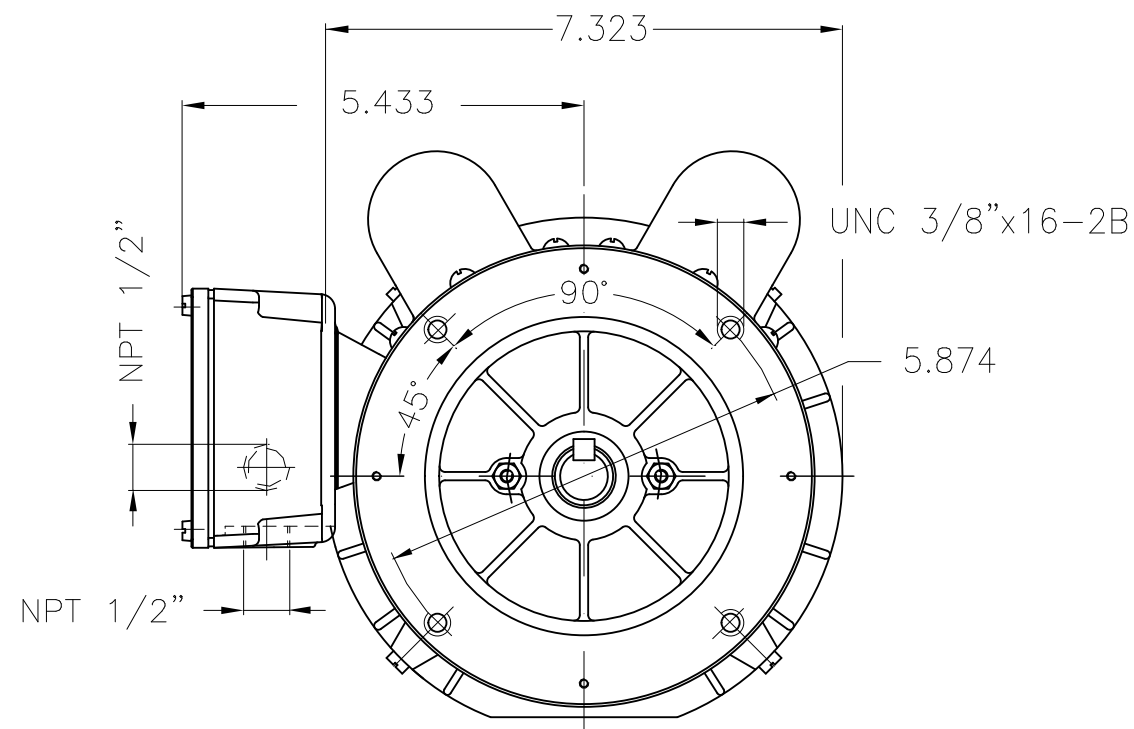


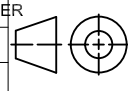
Performance : 115/208-230 V 60 Hz 2P

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 :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
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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				
CHECKED						
RELEASED						
REL DT.		WMO Jaragua do Sul	Product Engineering			

2 HP 02 Poles 60 Hz

A REL DT. WMO Jaragua do Sul Product Engineering SHEET 1 / 1

PREVIEW  
WDD



Dimensions in inches XME A3