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[1]	: 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]	: 20.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0033 kgm²		

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

		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	

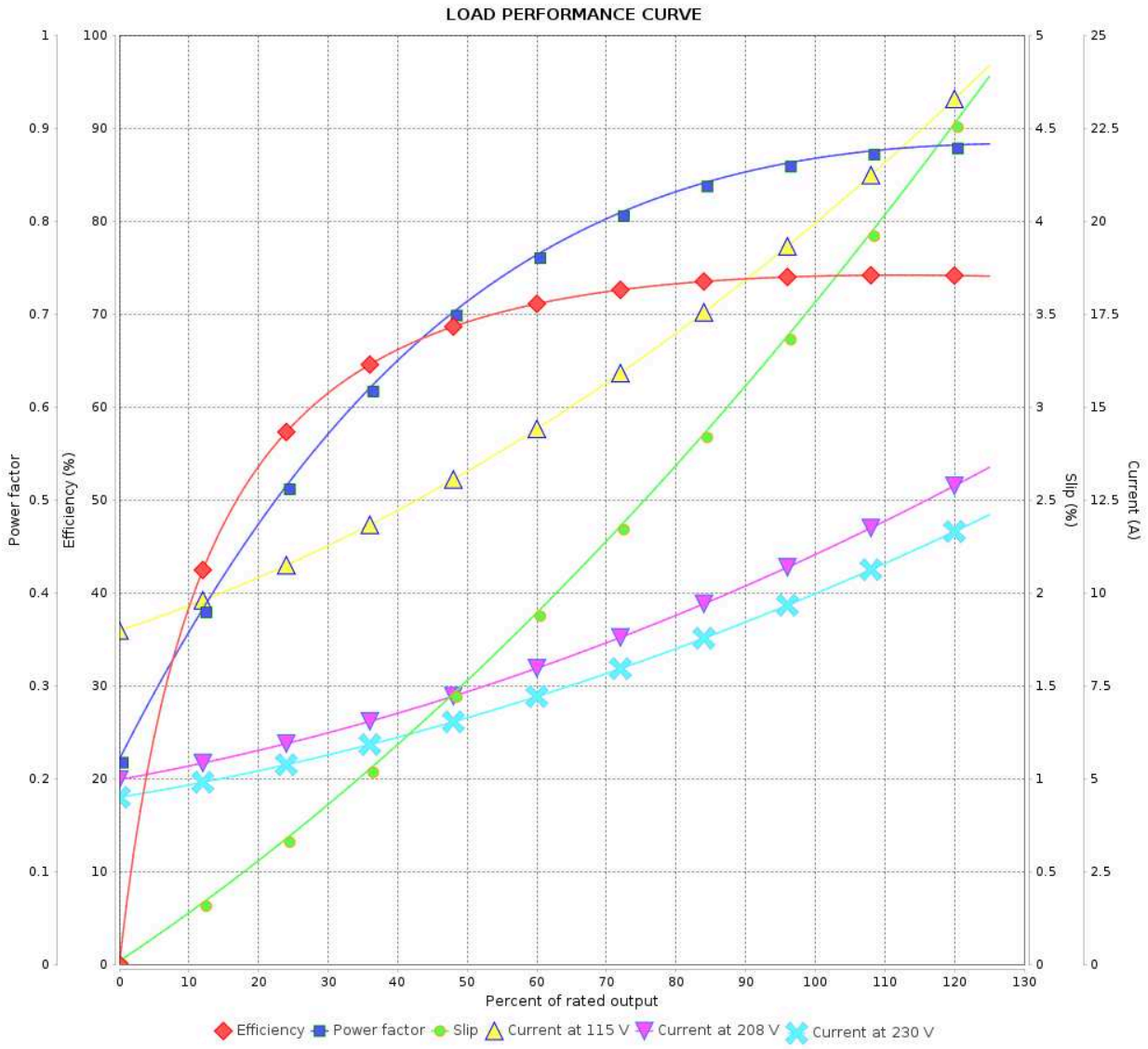
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

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

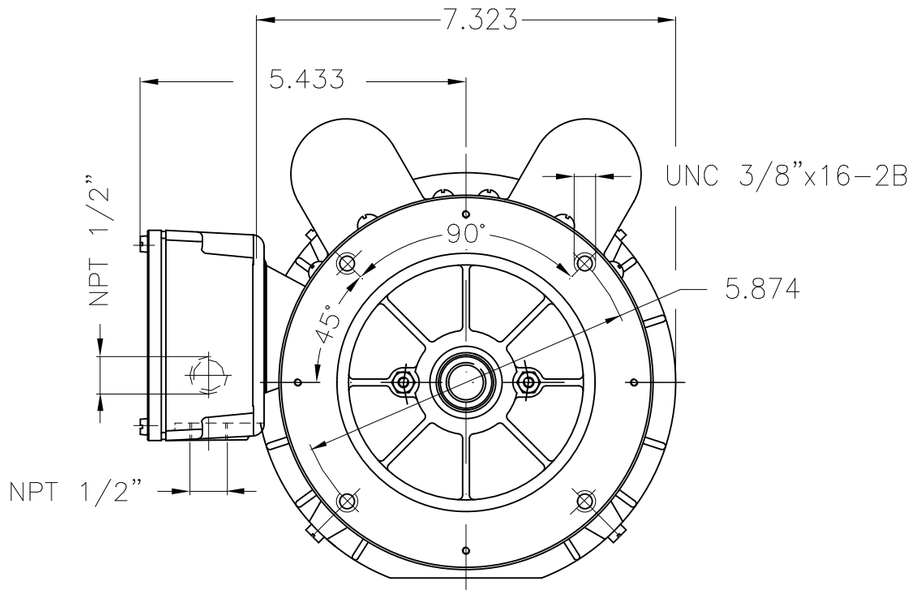


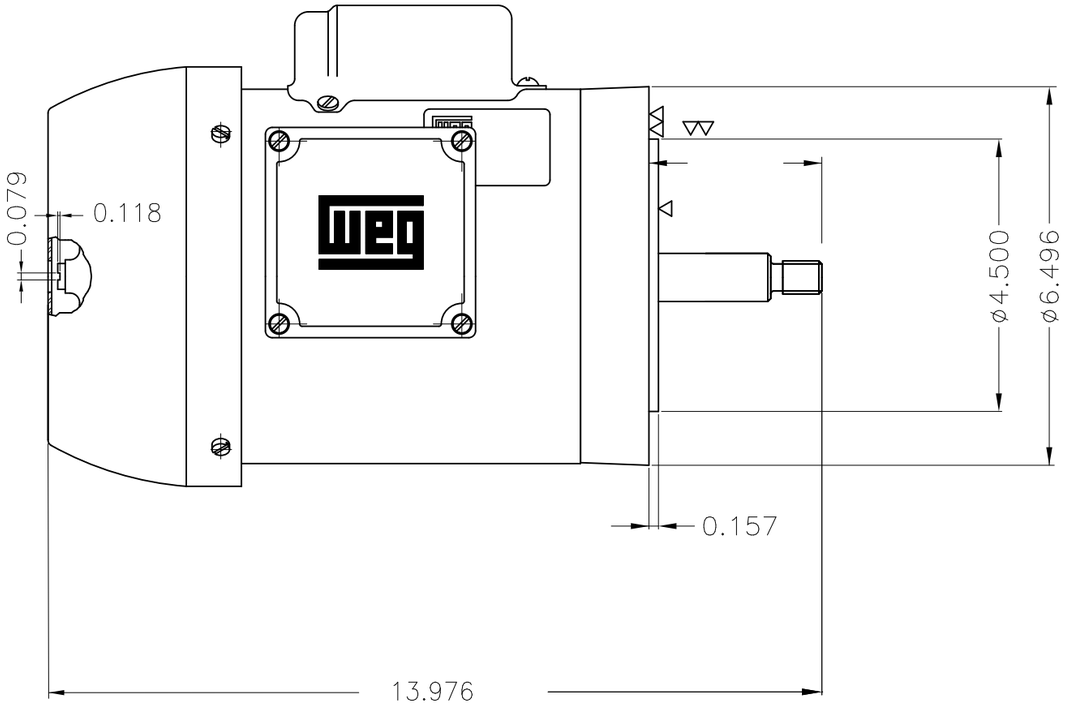
Performance	: 115/208-230 V 60 Hz 2P		
Rated current	: 20.0/10.6-10.0 A	Moment of inertia (J)	: 0.0033 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.418 kgfm	Insulation class	: B
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm		

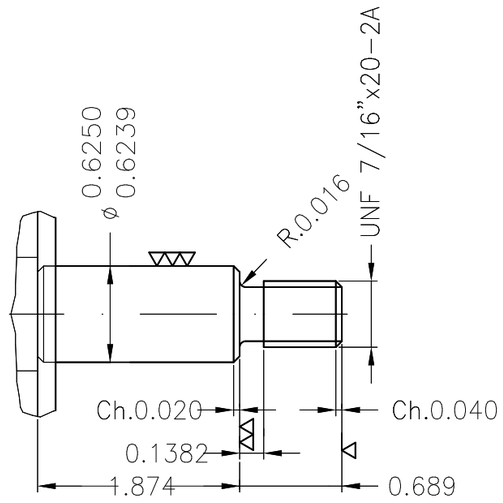
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Mounting NEMA F-1

Mounting B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED DATAVIEWERUSER

CHECKED

RELEASED

REL DT.

WMO Jaragua do Sul Product Engineering

SINGLE PH. MOTOR CENTRIFUGAL PUMP

FRAME F56HJ IP55 TEFC

PREVIEW

WDD

SHEET 1 / 1

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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