DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14117998

Frame	: 143/5JM	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 18.3/9.50-9.13 A	Protection degree	: IP55
L. R. Amperes	: 135/70.3-67.6 A	Cooling method	: IC411 - TEFC
LRC	: 7.4x(Code J)	Mounting	: F-1
No load current	: 8.40/3.62-4.20 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level[2]	: 58.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 0.832 kgfm	Approx. weight[3]	: 32.4 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0063 kgm²		

Output	50%	75%	100%
Efficiency (%)	68.5	75.5	78.5
Power Factor	0.81	0.87	0.91

Foundation loads

Max. traction	: 40 kgf
Max. compression	: 73 kgf

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
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	27/10/2024		1 / 2	

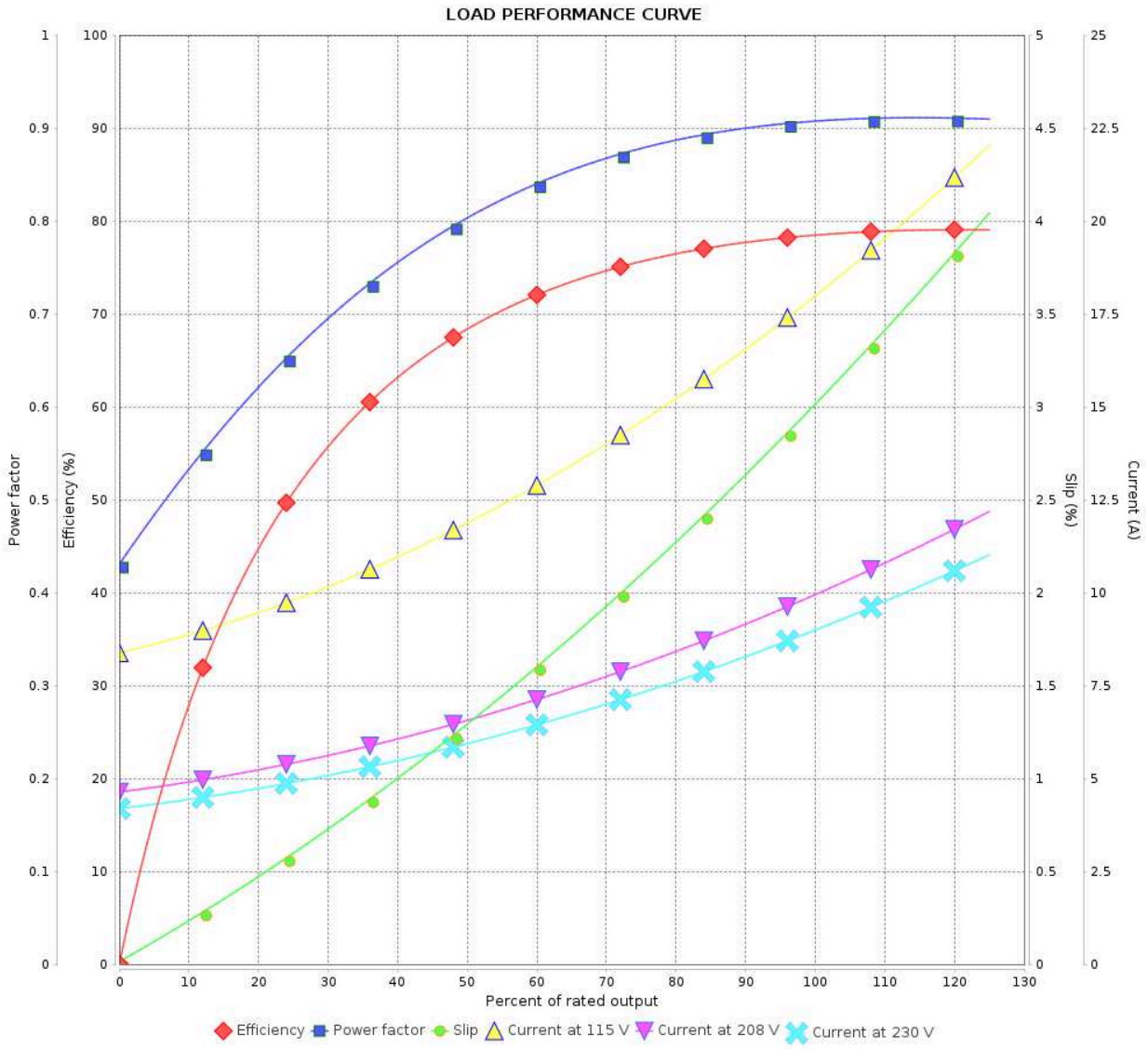
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14117998

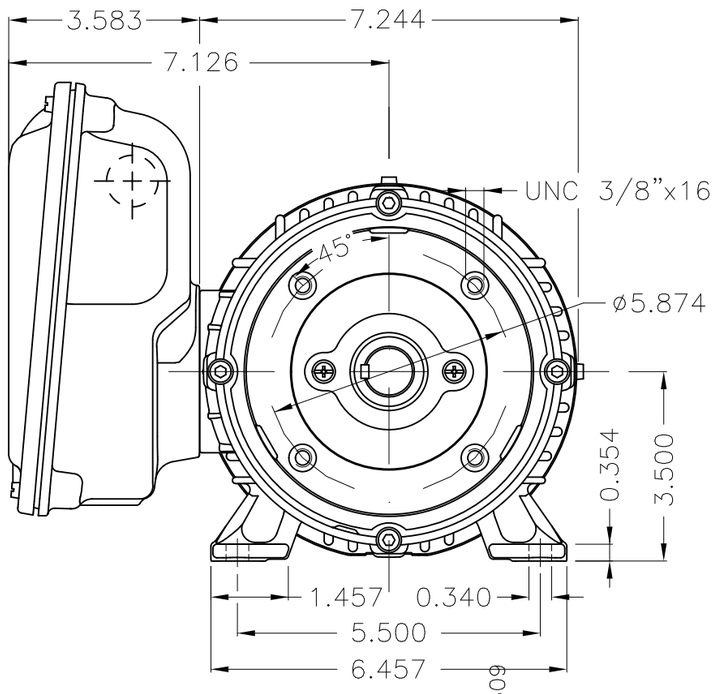


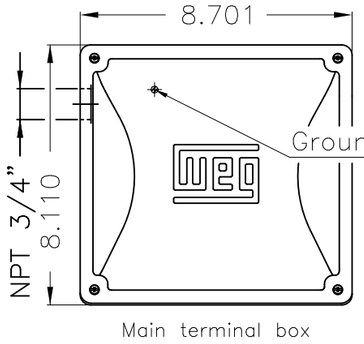
Performance	: 115/208-230 V 60 Hz 4P		
Rated current	: 18.3/9.50-9.13 A	Moment of inertia (J)	: 0.0063 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.832 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	:
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm		

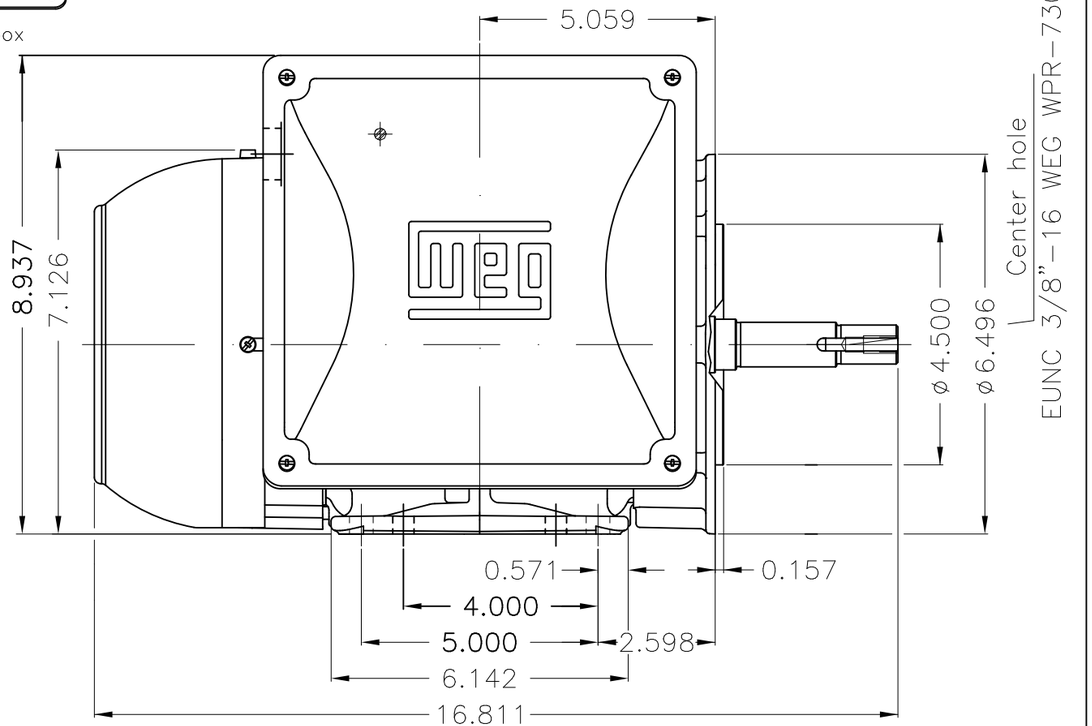
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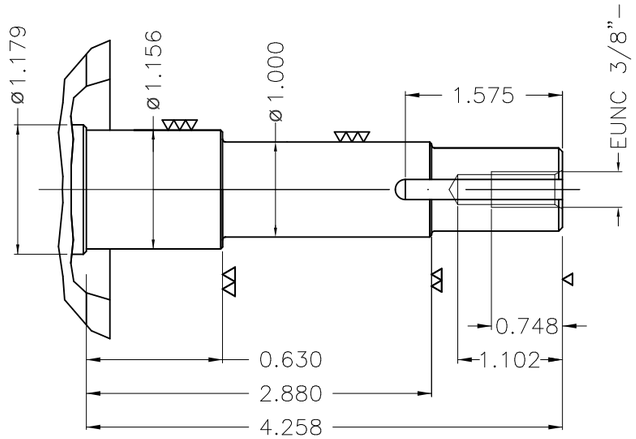
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Checked by			Page	Revision
Date	27/10/2024		2 / 2	

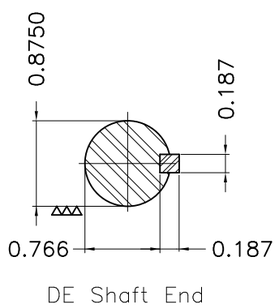
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Color RAL 7022							
Mounting NEMA F-1							
Mounting B34R(D)							
			HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR W22 CLOSE COUPLED PUMP JM TYPE	PREVIEW	
CHECKED		FRAME 143/5JM IP55 TEFC	WDD 00	
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1	

2 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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