DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14102251

Frame	: 182/4JM	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 20.5-19.0 A	Protection degree	: IP55
L. R. Amperes	: 146-135 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code G)	Mounting	: F-1
No load current	: 3.36-3.90 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level[2]	: 72.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 1.03 kgfm	Approx. weight[3]	: 50.4 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0091 kgm²		

Output	50%	75%	100%
Efficiency (%)	80.0	84.0	85.5
Power Factor	0.96	0.99	0.99

Foundation loads

Max. traction	: 28 kgf
Max. compression	: 79 kgf

		Drive end	Non drive end
Bearing type	:	6307 ZZ	6206 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	

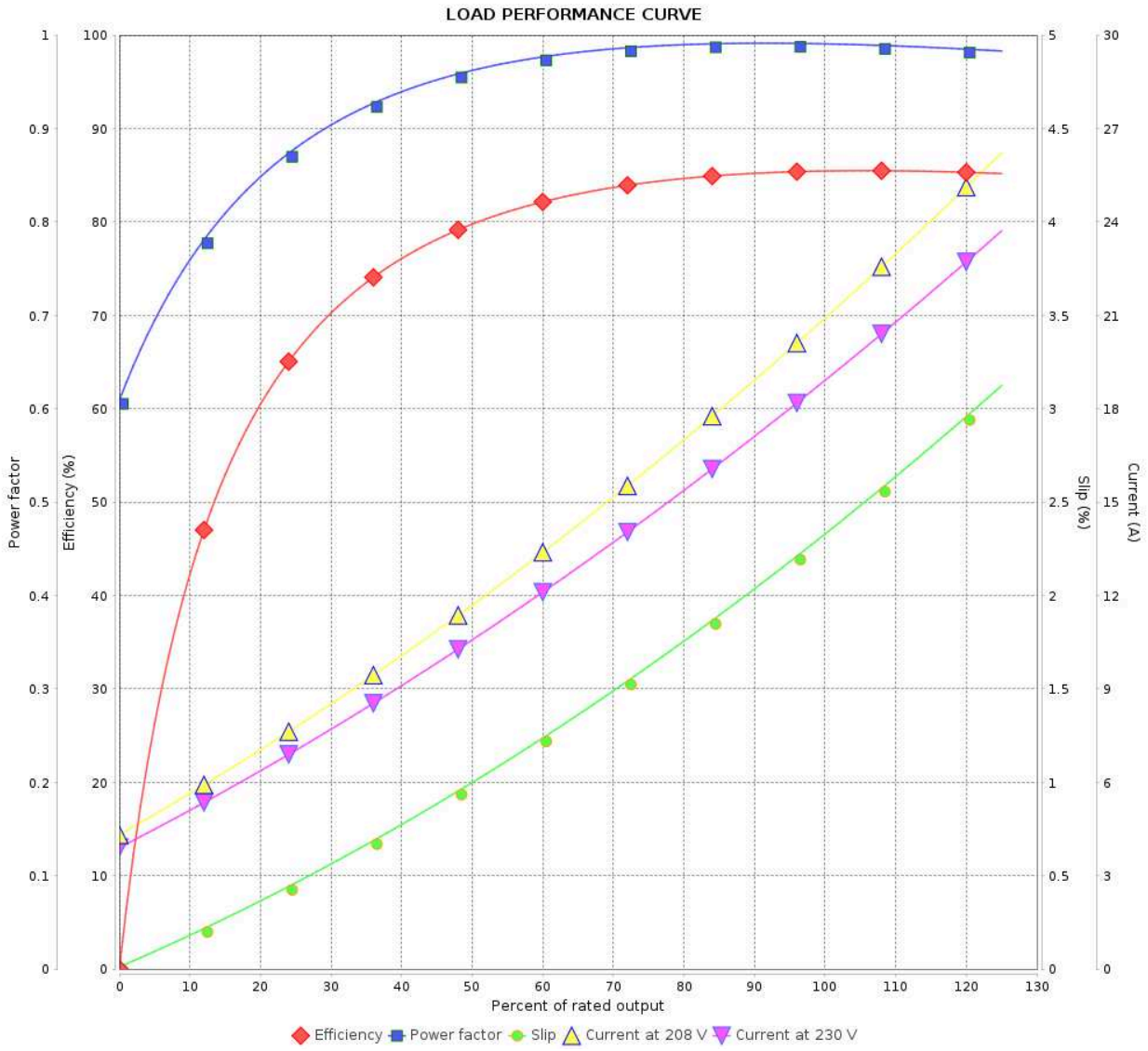
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14102251

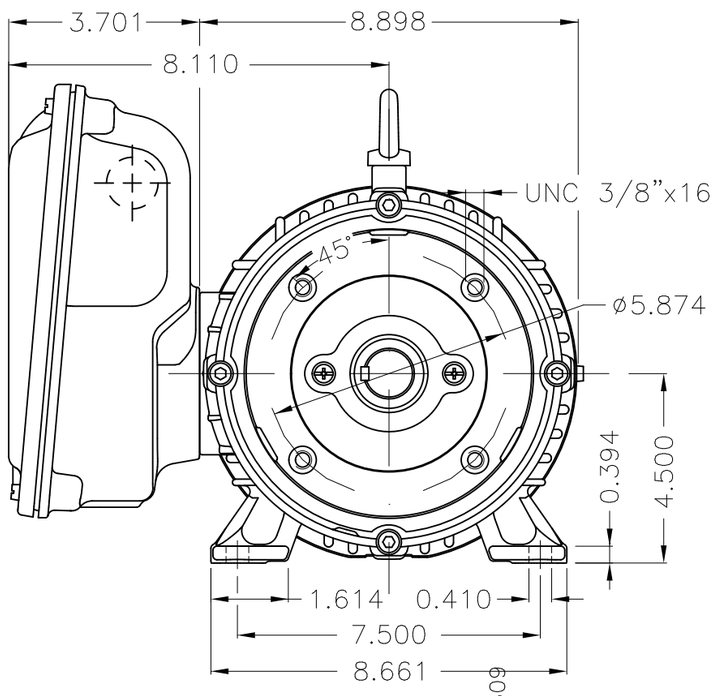


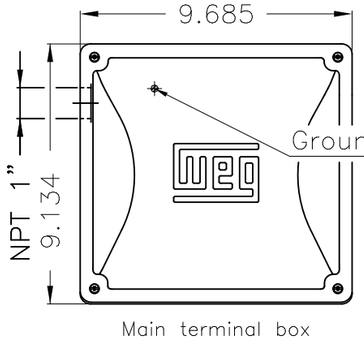
Performance	: 208-230 V 60 Hz 2P		
Rated current	: 20.5-19.0 A	Moment of inertia (J)	: 0.0091 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.03 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm		

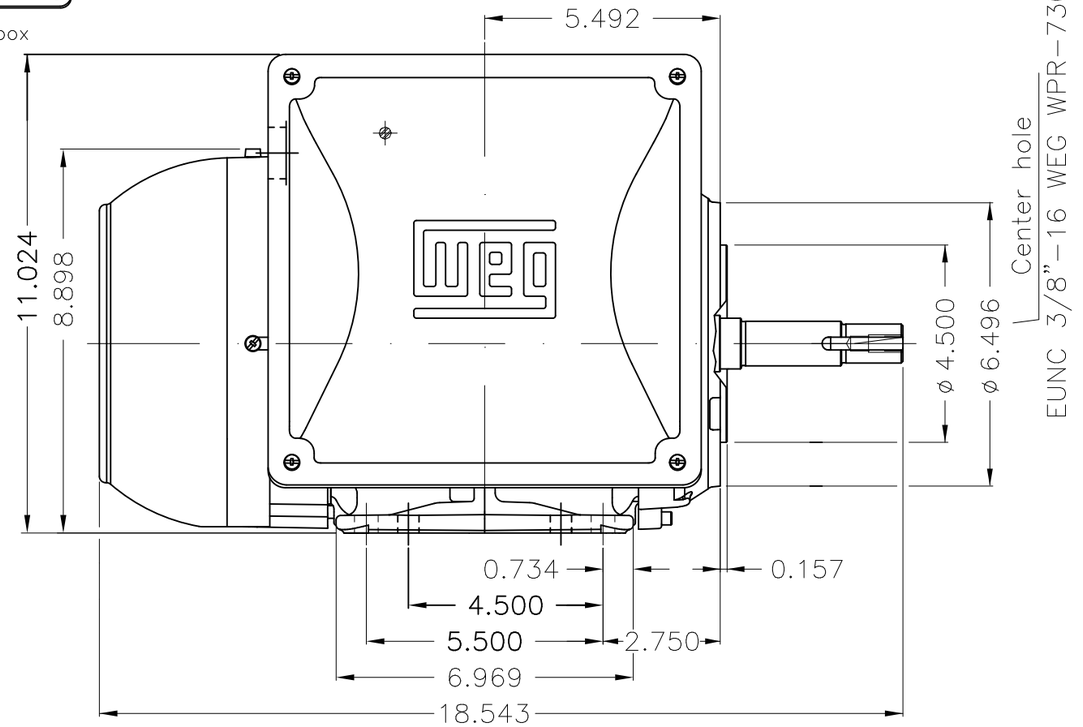
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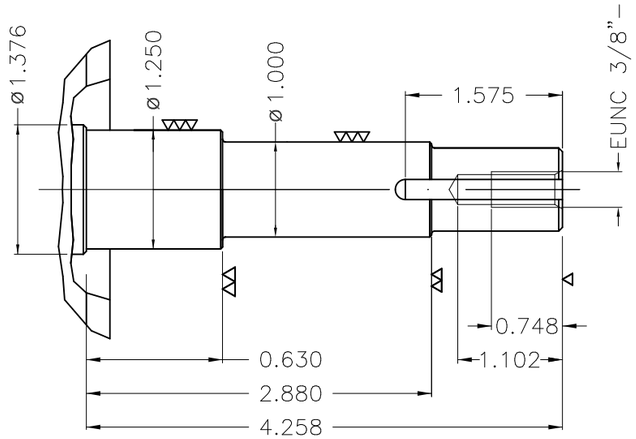
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Checked by			Page	Revision
Date	27/10/2024		2 / 2	

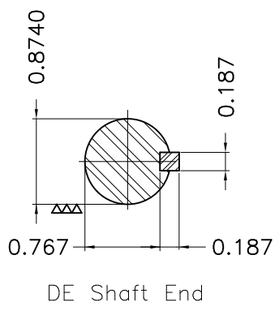
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Mounting NEMA F-1

Mounting B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR W22 CLOSE COUPLED PUMP JM TYPE	PREVIEW
CHECKED		FRAME 182/4JM IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

5 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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