

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase Product code : 18012461

Frame	: 182/4JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 10.7 A	Protection degree	: IP55
L. R. Amperes	: 72.8 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code K)	Mounting	: F-1
No load current	: 5.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 1.23 kgfm	Approx. weight ³	: 50.0 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0255 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	61.5	70.0	74.5	Max. traction	: 36 kgf
Power Factor	0.00	0.68	0.76	0.82	Max. compression	: 86 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
Lubricant type	:	00088	

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				
Date	10/07/2026		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

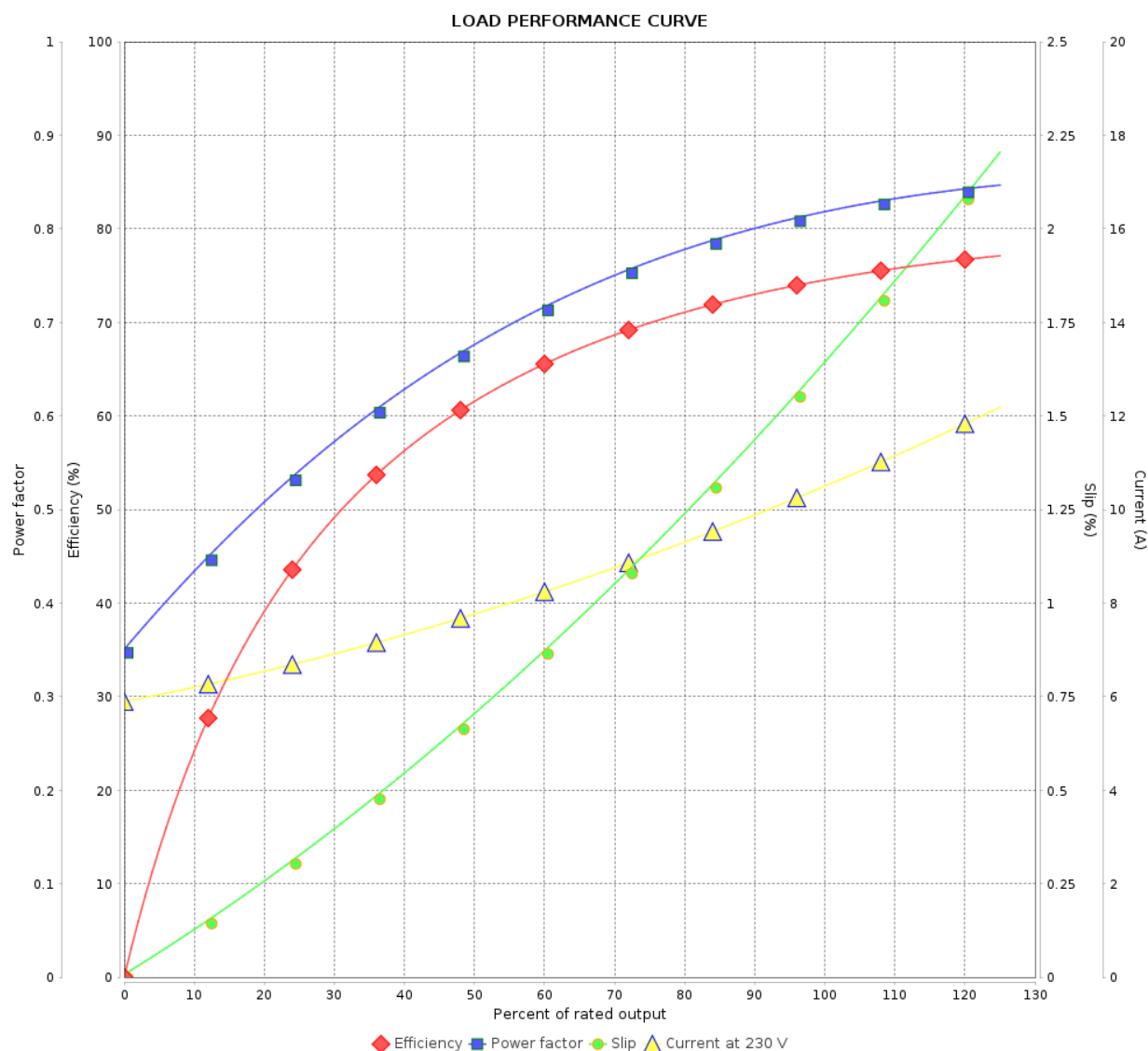
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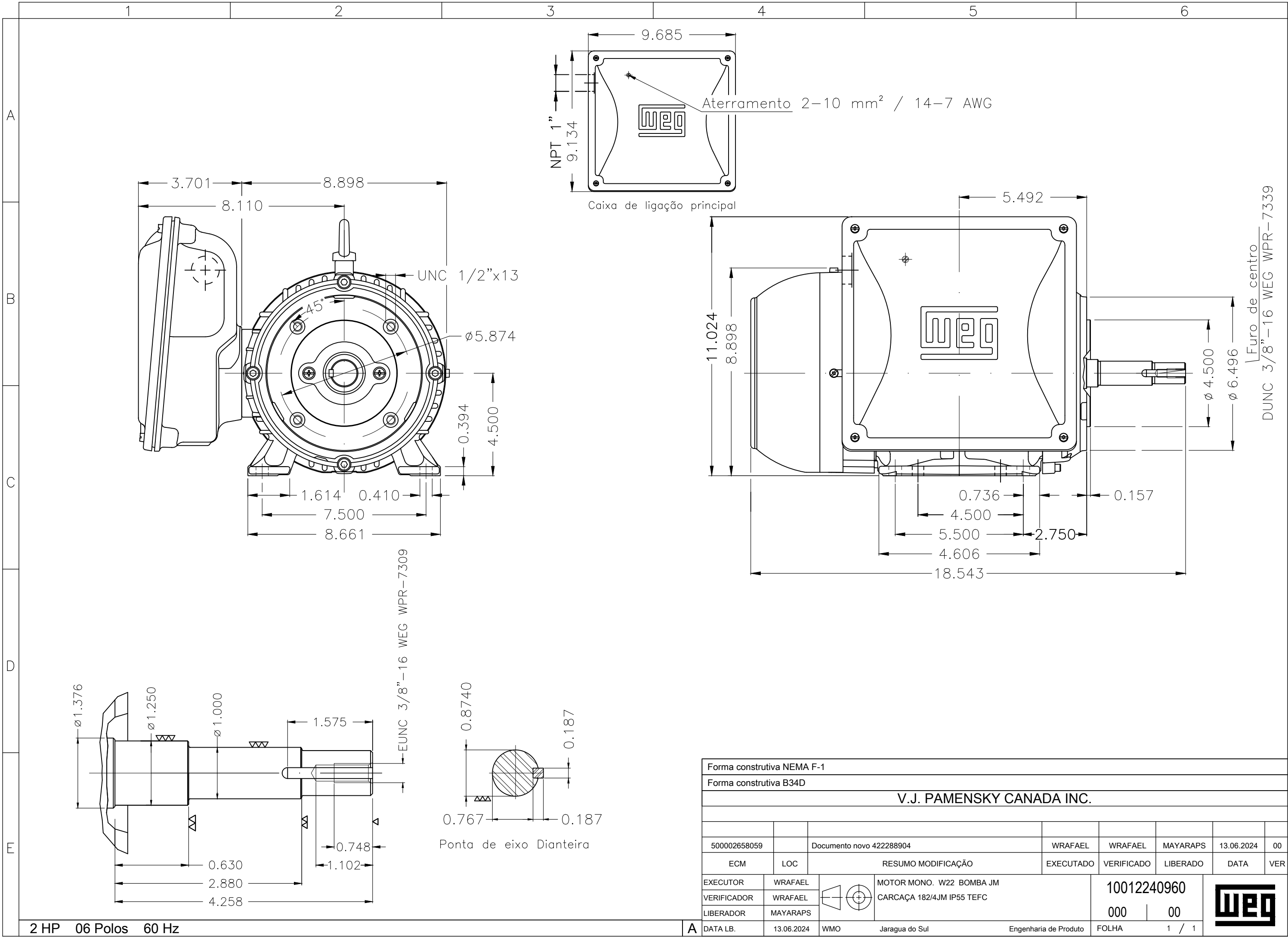


Performance : 230 V 60 Hz 6P

Rated current : 10.7 A
LRC : 6.8
Rated torque : 1.23 kgfm
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 1180 rpm

Moment of inertia (J) : 0.0255 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Forma construtiva NEMA F-1										
Forma construtiva B34D										
V.J. PAMENSKY CANADA INC.										
500002658059		Documento novo 422288904				WRAFAEL	WRAFAEL	MAYARAPS	13.06.2024	00
ECM	LOC	RESUMO MODIFICAÇÃO				EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	WRAFAEL		MOTOR MONO. W22 BOMBA JM CARÇAÇA 182/4JM IP55 TEFC				10012240960			
VERIFICADOR	WRAFAEL						000 00			
LIBERADOR	MAYARAPS									
DATA LB.	13.06.2024	WMO	Jaragua do Sul	Engenharia de Produto	FOLHA	1 / 1				