

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

		Drive end	Non drive end
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

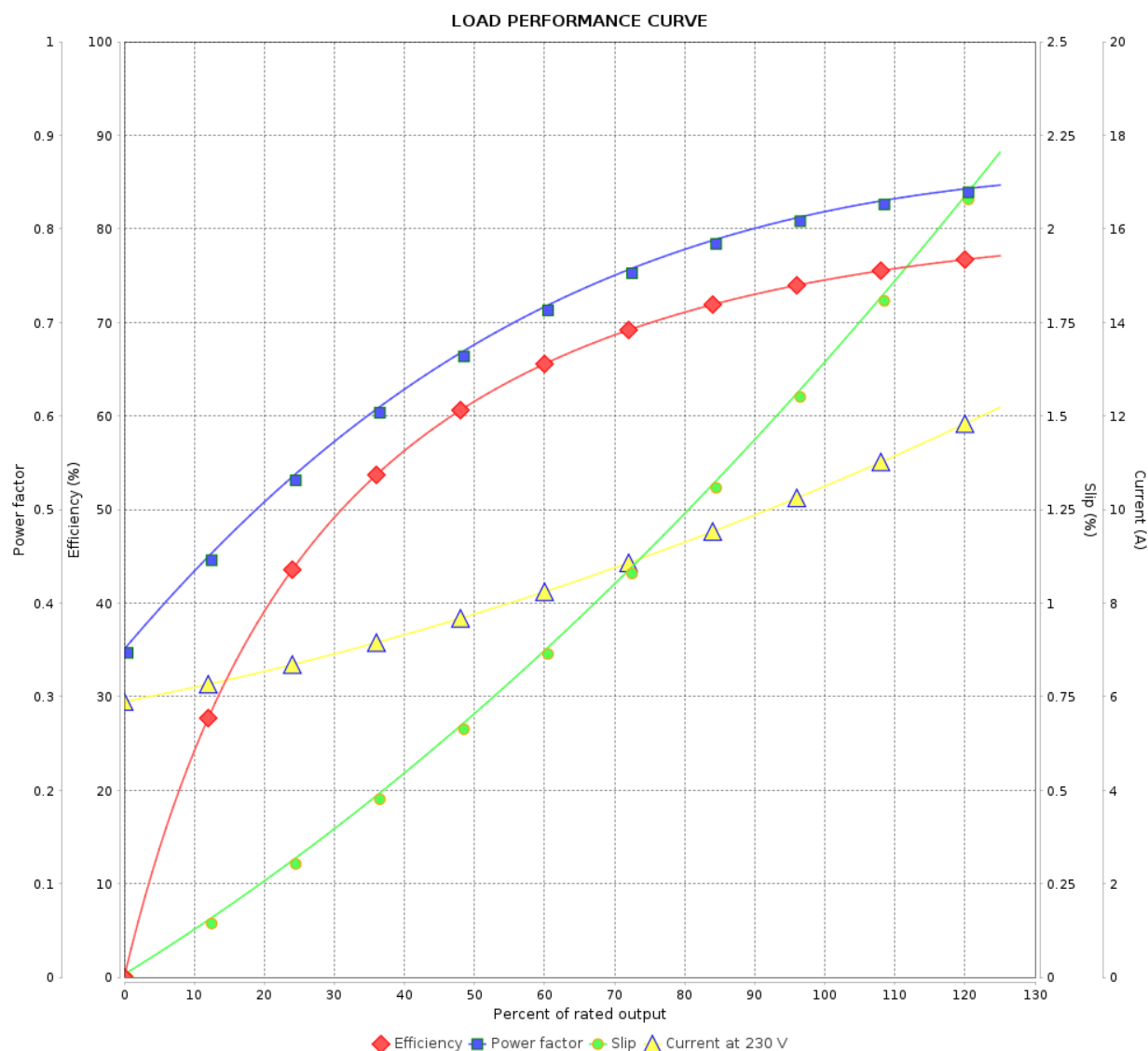
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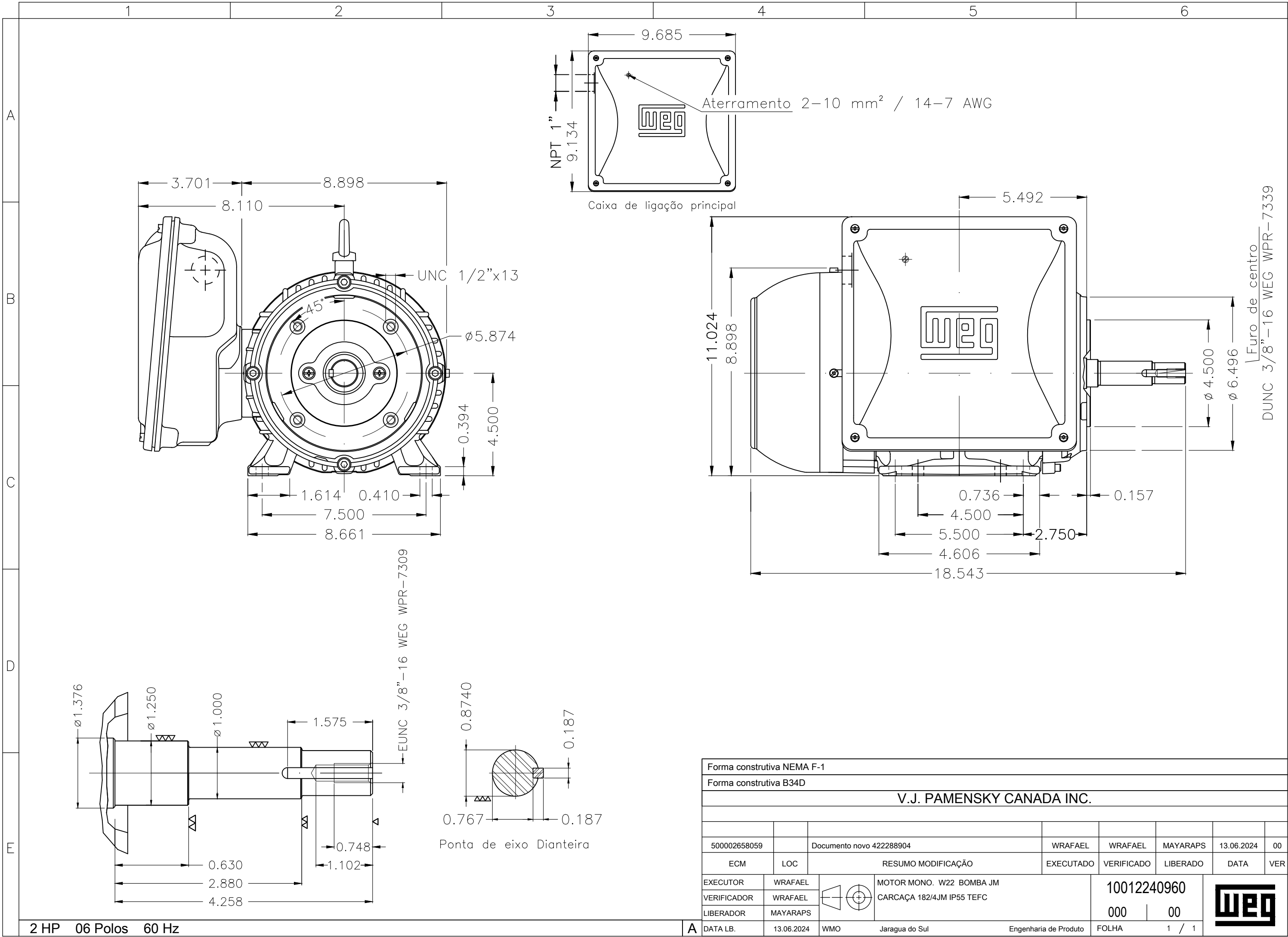


Performance : 230 V 60 Hz 6P

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
Performed by		Page 2 / 2Revision		
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Forma construtiva NEMA F-1										
Forma construtiva B34D										
V.J. PAMENSKY CANADA INC.										
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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				