

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 16387626

Frame	: 284/6TS	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200-208/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 110-106/54.9 A	Protection degree	: IP23
L. R. Amperes	: 682-657/340 A	Cooling method	: IC01 - ODP
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 34.8-39.0/27.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 8.22 kgfm	Approx. weight ³	: 150 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0746 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	91.0	91.7	91.7	Max. traction : 0 kgf
Power Factor	0.00	0.75	0.83	0.86	Max. compression : 0 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes

W40 NEMA High Efficiency

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		Page 1 / 2 Revision		
Checked by				
Date	09/07/2026			

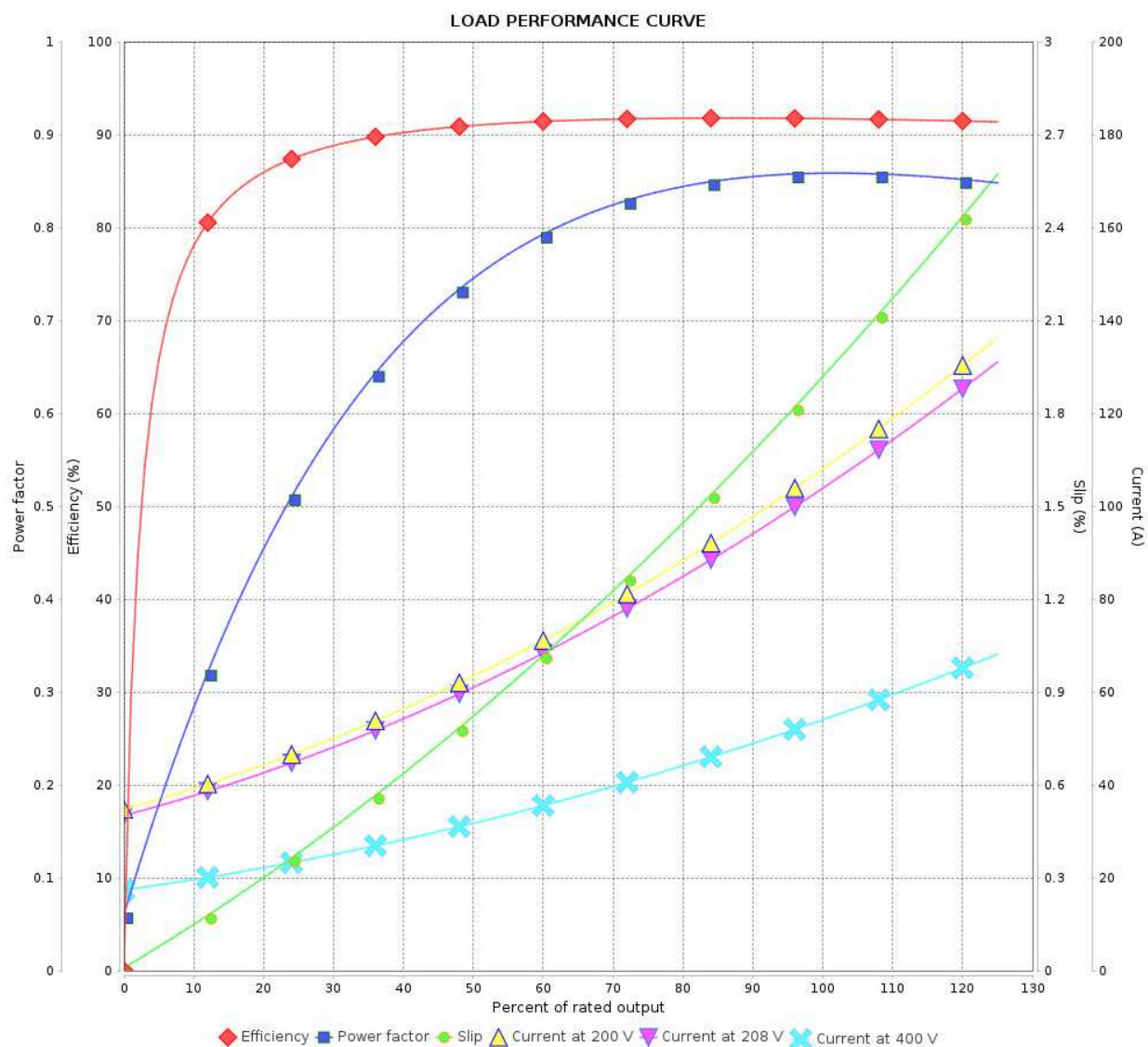
LOAD PERFORMANCE CURVE

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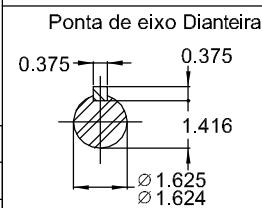
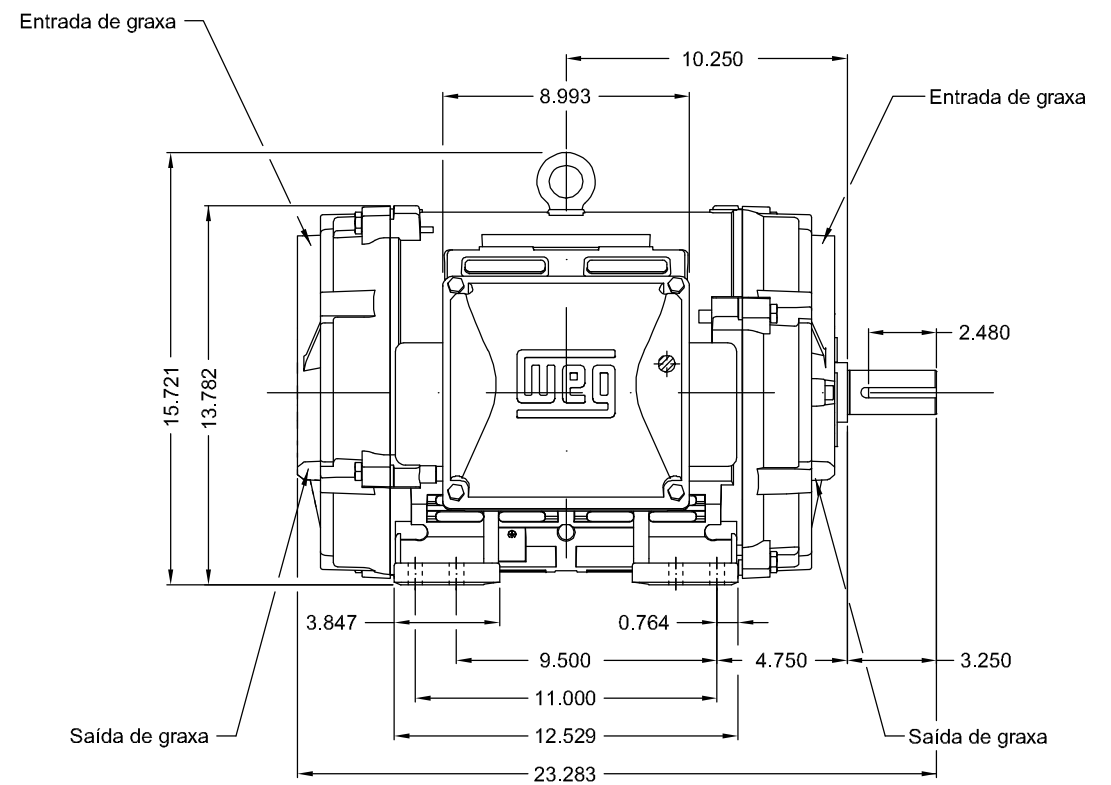
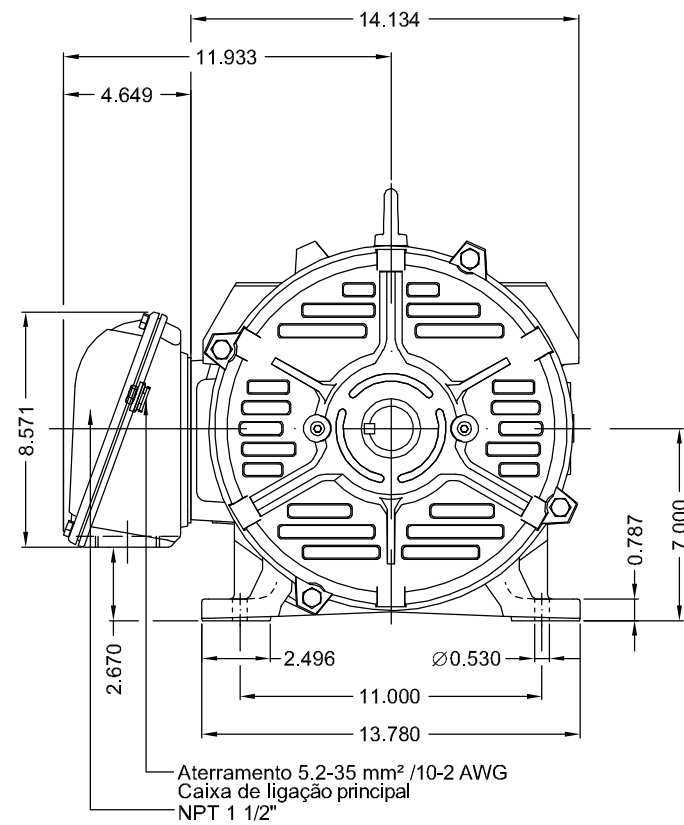


Performance : 200-208/400 V 60 Hz 2P

Rated current : 110-106/54.9 A
LRC : 6.2
Rated torque : 8.22 kgfm
Locked rotor torque : 200 %
Breakdown torque : 210 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0746 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	09/07/2026				



40 HP 02 Polos 60 Hz										A	
V.J. PAMENSKY CANADA INC.											
										1:7	
500002045469		OK				PIRWBUSER	AMANDAL	AMANDAL	13.12.2021	00	
ECM		LOC	RESUMO MODIFICAÇÃO				EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
EXECUTOR	PIRWBUSER			MOTOR TRIF. W40 HIGH EFF. CARCAÇA 284/6TS IP23 ODP				10009249532			
VERIFICADOR	AMANDAL										
LIBERADOR	AMANDAL										
DATA LB.	13.12.2021	WMO	Jaragua do Sul		Engenharia de Produto		FOLHA		1	/ 1	