

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Product code : 14796190  
Efficiency Three-Phase

Frame	: 324/6T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 37.7 A	Protection degree	: IP55
L. R. Amperes	: 230 A	Cooling method	: IC411 - TEFC
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 13.6 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 66.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 16.4 kgfm	Approx. weight <sup>3</sup>	: 300 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3861 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	94.1	94.1	Max. traction	: 344 kgf
Power Factor	0.00	0.72	0.80	0.85	Max. compression	: 644 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.1	5.1	5.0	2.8	1.9	1.2	0.8

	Drive end	Non drive end
Bearing type	: 6312 C3	6212 C3
Sealing	: V'Ring	Lip Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 21 g	13 g
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
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Three Phase Induction Motor - Squirrel Cage



Customer :

Brake information

Voltage: 525-575 V  
Brake Torque: 40.8 kgfm

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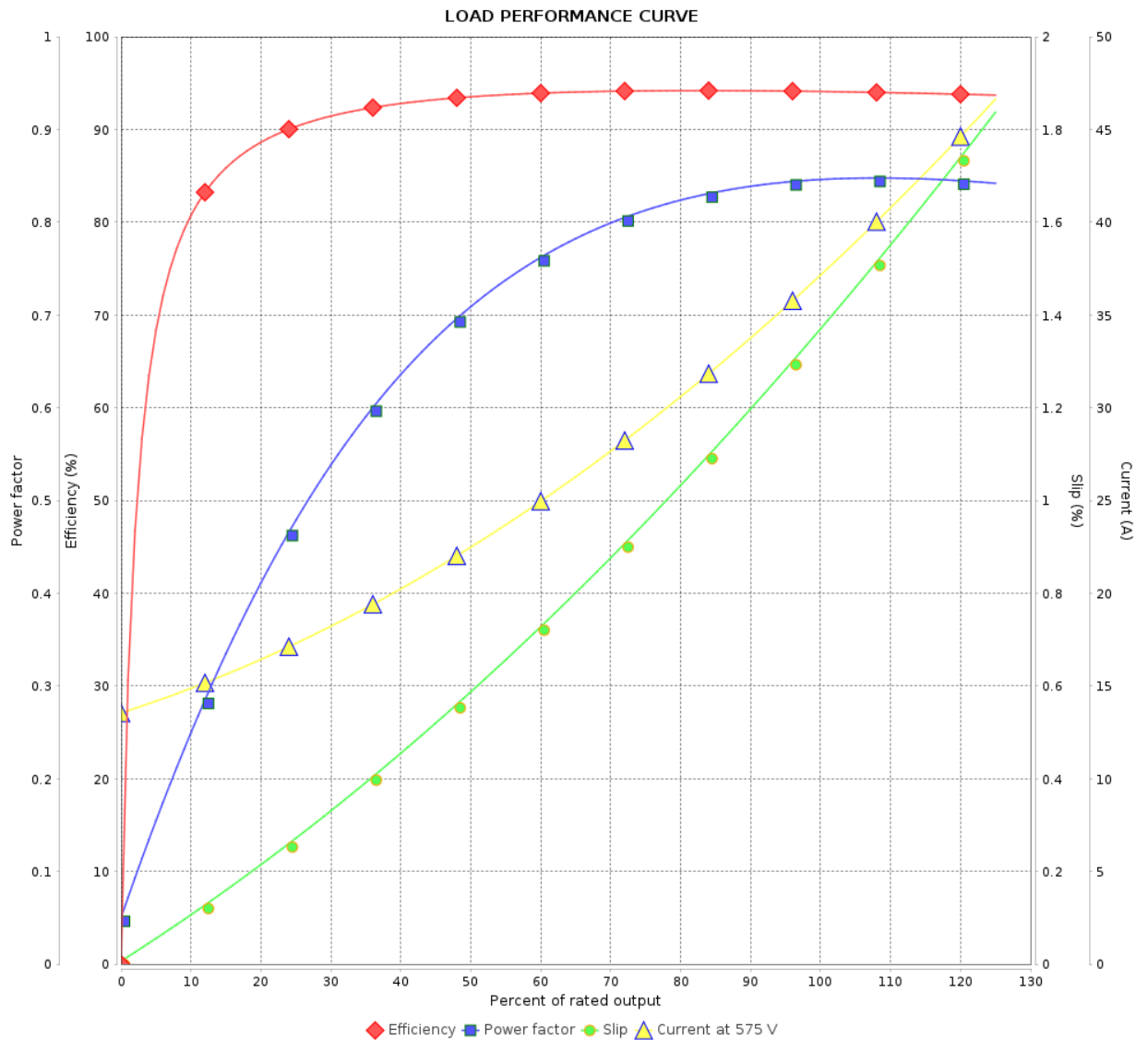
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

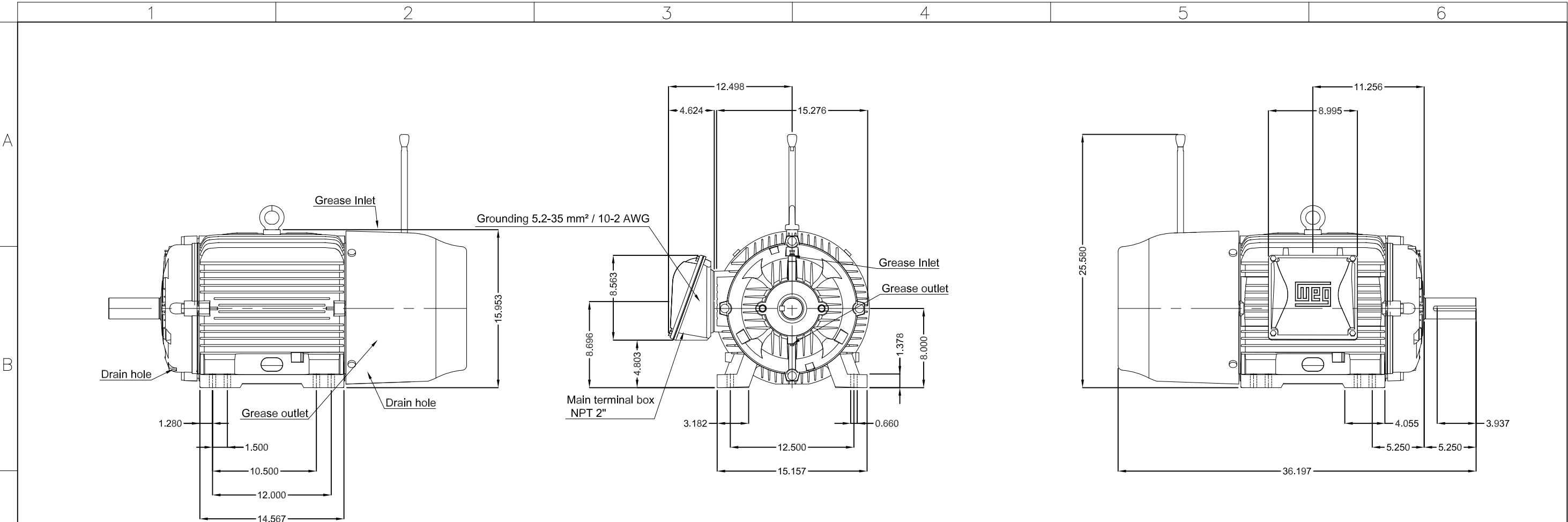
Product line : W22 Brake Motor NEMA Premium      Product code : 14796190  
Efficiency Three-Phase



Performance : 575 V 60 Hz 4P

Rated current	: 37.7 A	Moment of inertia (J)	: 0.3861 kgm <sup>2</sup>
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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				40 HP 04 Poles 60 Hz										A	
E	DE Shaft End								HYBRISUSER						00
	0.500 0.500								ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
	2.1250 2.1240 1.844								EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.		PREVIEW		
									CHECKED		FRAME 324/6T IP55 TEFC		WDD		00
									RELEASED				SHEET		/
Brake voltage 525-575 V															
Break size 25 (400 Nm)															
Color RAL 5009															
Painting plan 203A															
Mounting NEMA F-1															
Mounting B3R(D)															