

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14679747
Frame	: 324/6TC		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	: 13.8 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>	: 308 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 : 340 kgf	
Power Factor	0.00	0.72	0.80	0.85	Max. compression : 648 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)
6.2	5.4	4.9	2.8	2.0	1.3	0.9
		<u>Drive end</u>		<u>Non drive end</u>		
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.		
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Customer : \_\_\_\_\_

### Brake information

Voltage: 525-575 V  
Brake Torque: 40.8 kgfm

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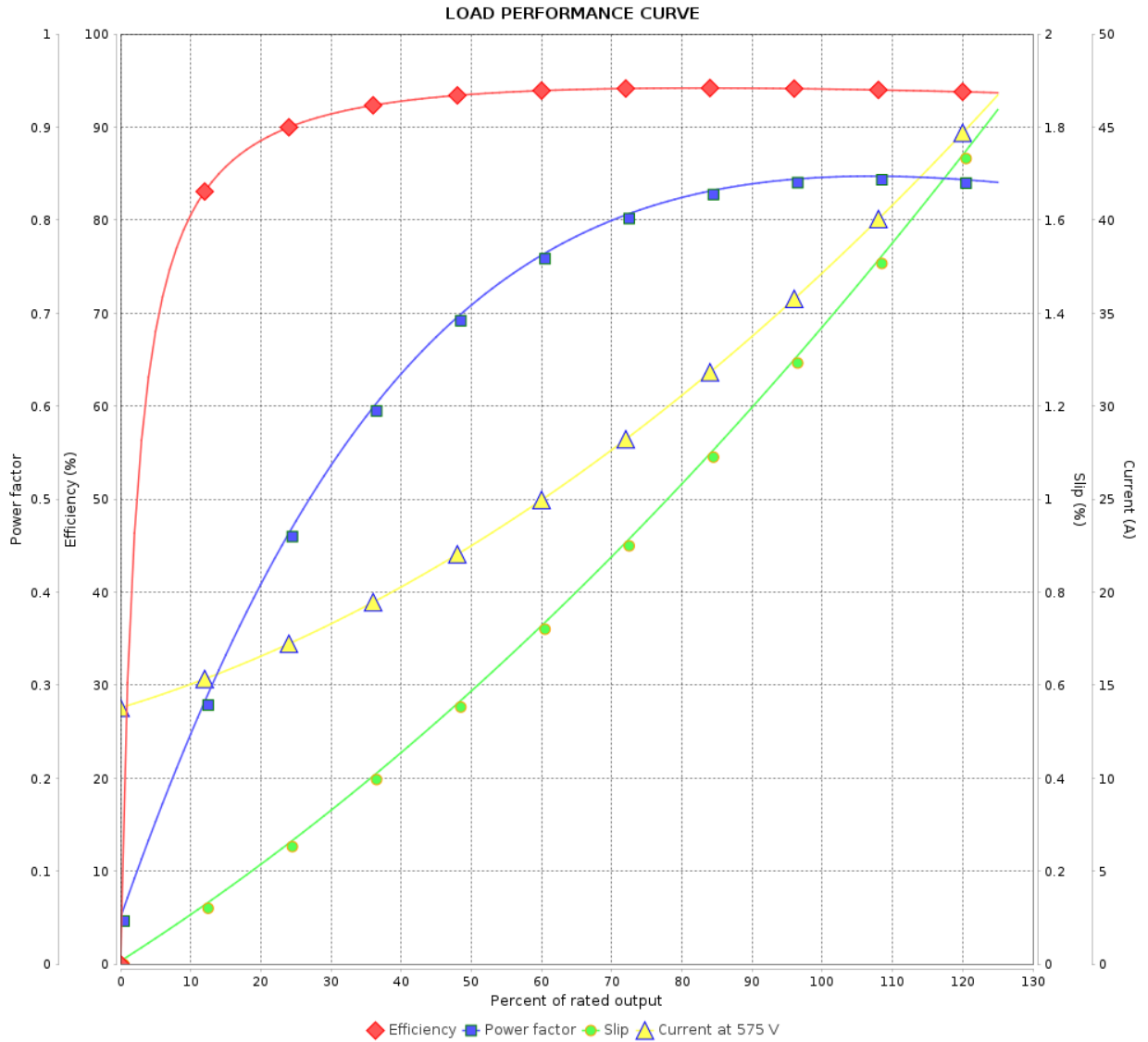
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

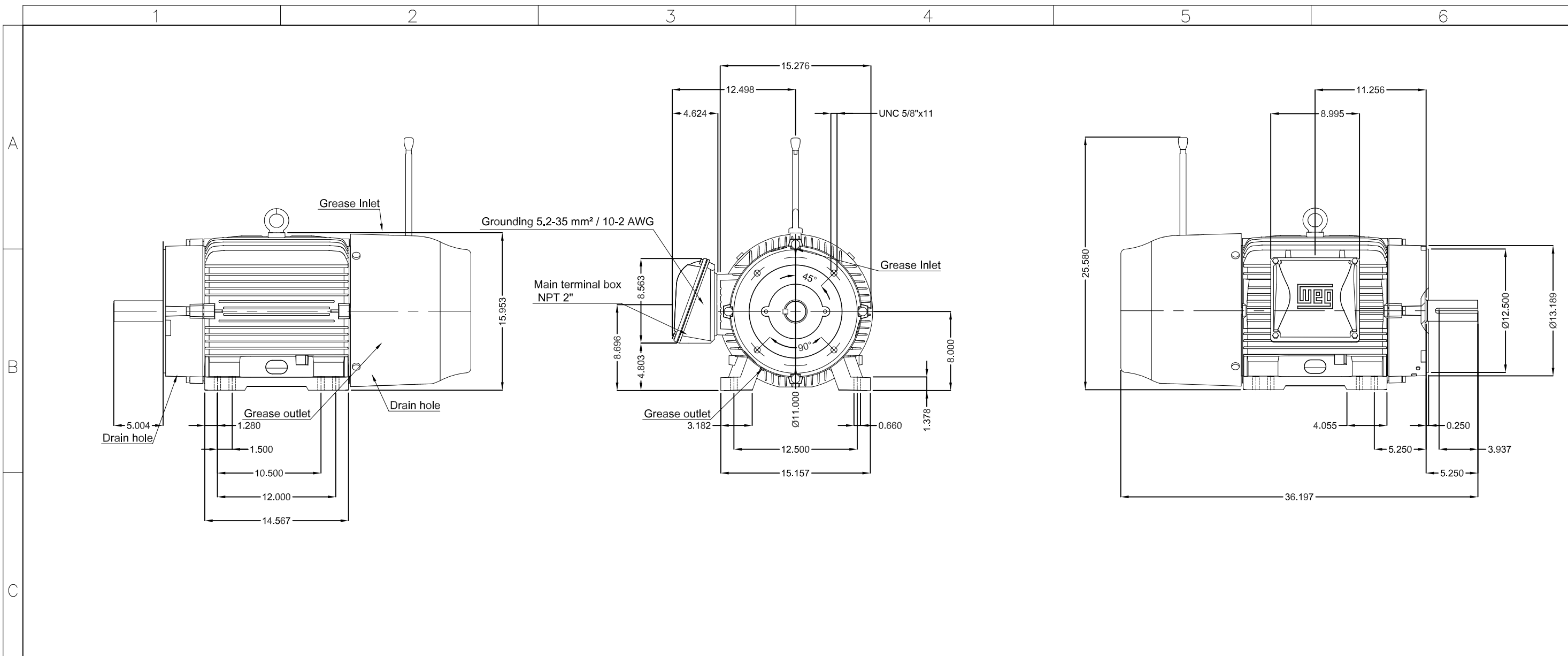
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase      Product code : 14679747



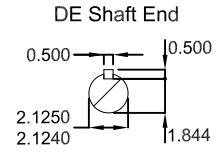
Performance : 575 V 60 Hz 4P

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

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D												
	40 HP 04 Poles 60 Hz											
E												
	HYBRISUSER 00											
ECM		LOC		SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		HYBRISUSER		THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.				PREVIEW				
CHECKED				FRAME 324/6TC IP55 TEFC				WDD		00		
RELEASED								SHEET		/		
REL. DATE												



Brake voltage 525-575 V
Break size 25 (400 Nm)
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)

Dimensions in inches

A3