

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14532255

Frame	: 254/6TC	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 15 HP (11 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	: 14.4 A	Protection degree	: IP55
L. R. Amperes	: 92.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 5.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1768 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.78 %	Starting method	: Direct On Line
Rated torque	: 6.16 kgfm	Approx. weight ³	: 155 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	91.0	91.7	92.4	Max. traction : 174 kgf
Power Factor	0.00	0.68	0.78	0.83	Max. compression : 329 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)
8.1	6.8	6.3	3.9	2.7	1.8	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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: 15.3 kgfm

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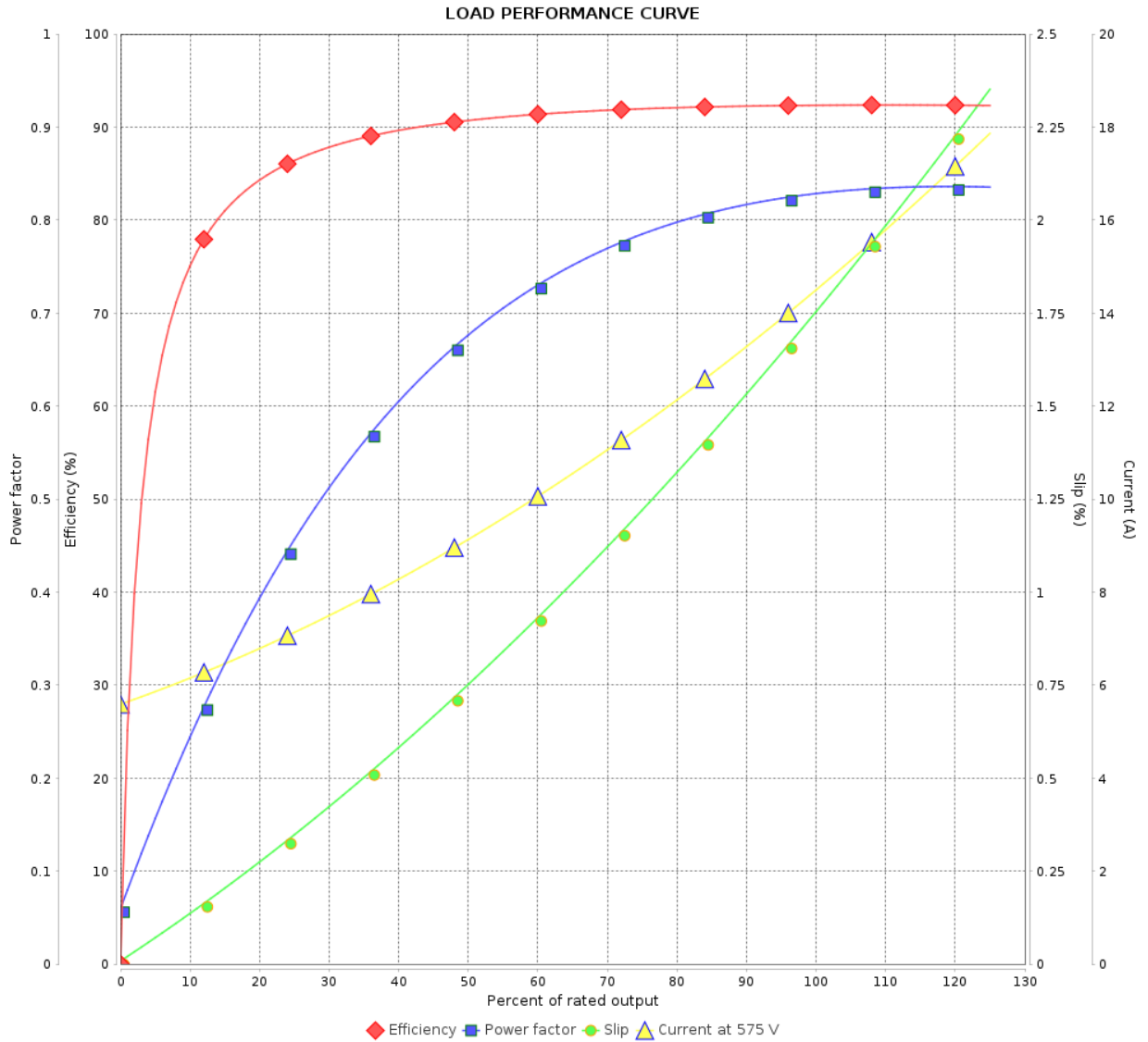
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

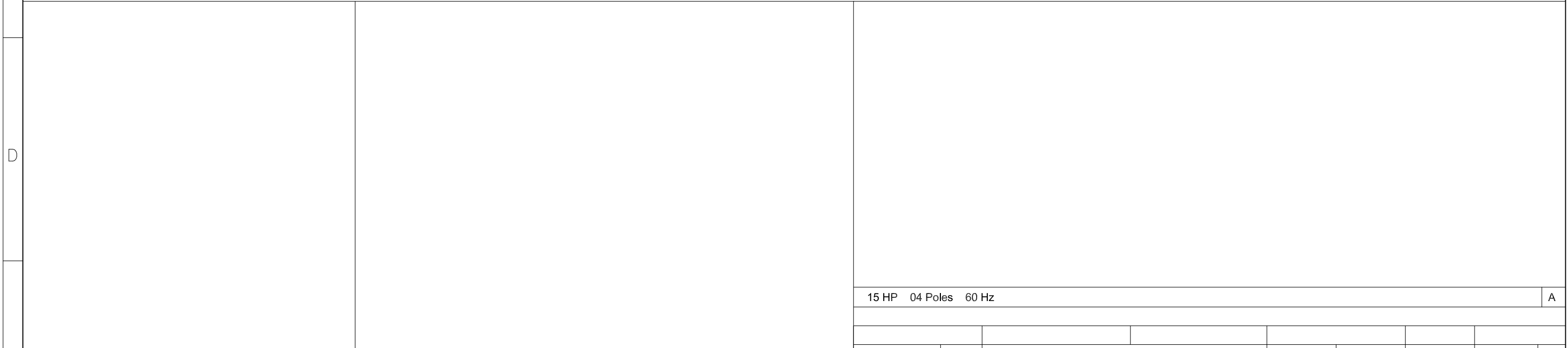
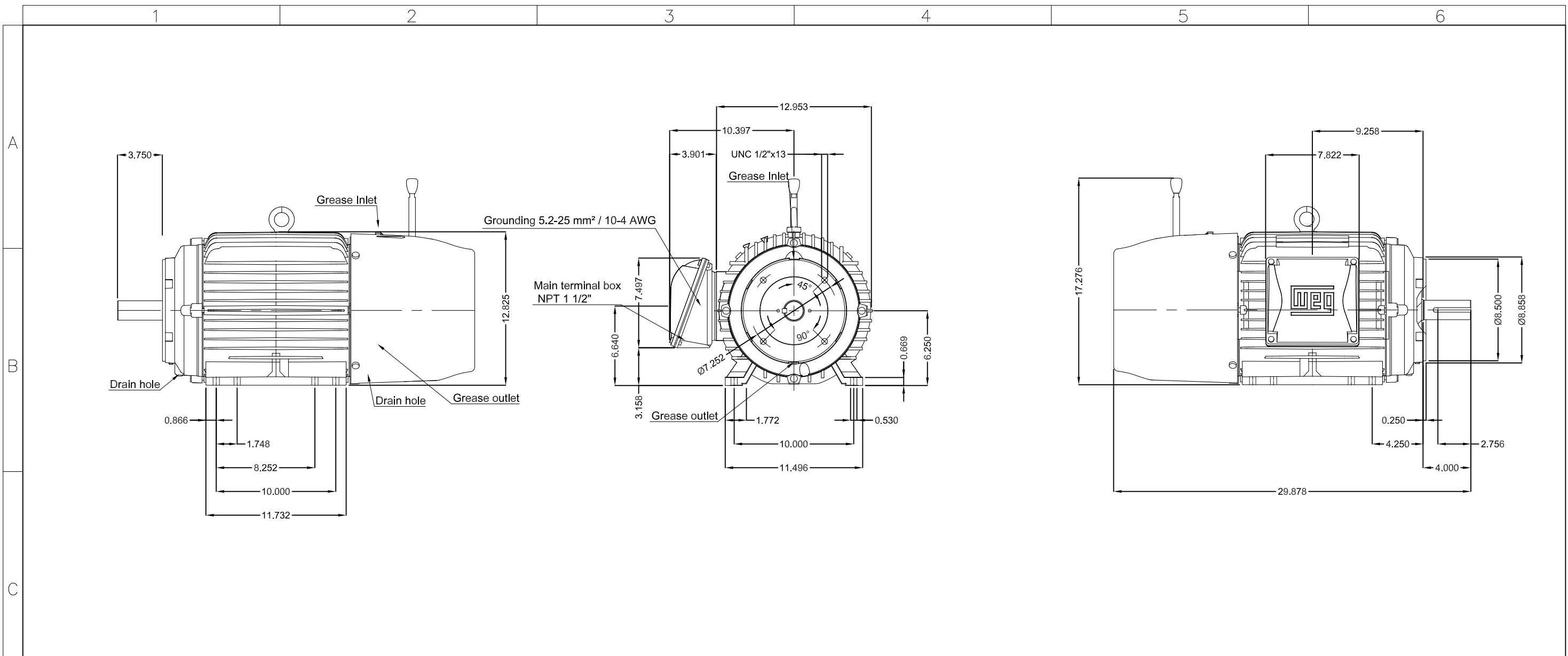
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14532255



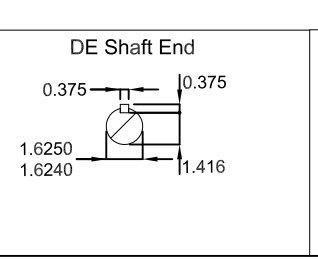
Performance : 575 V 60 Hz 4P

Rated current	: 14.4 A	Moment of inertia (J)	: 0.1104 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 6.16 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1768 rpm	Design	: B

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Brake voltage 525-575 V
Without vertical jackscrews
Break size 18 (150 Nm)
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)



15 HP 04 Poles 60 Hz						A			
HYBRISUSER						00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.			EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME 254/6TC IP55 TEFC			EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED					EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE					EXECUTED	CHECKED	RELEASED	DATE	VER
				PREVIEW		WDD 00		SHEET /	
				WEG					