

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		13945491	
Frame	: 254T	Locked rotor time	: 37s (cold) 21s (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	: 5.84 A	Rotation ¹	: Both (CW and CCW)	Rated speed	: 1770 rpm	Noise level ²	: 64.0 dB(A)
Rated torque	: 6.15 kgfm	Starting method	: Direct On Line	Slip	: 1.67 %	Approx. weight ³	: 144 kg
Locked rotor torque	: 229 %			Breakdown torque	: 250 %		
Insulation class	: F			Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm ²			Design	: B		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	91.0	91.7	92.4	Max. traction	: 170 kgf		
Power Factor	0.68	0.78	0.83	Max. compression	: 314 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	7.0	6.5	3.9	2.8	1.8	1.3	
		<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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Brake information

Voltage: 525-575 V
Brake Torque: 15.3 kgfm

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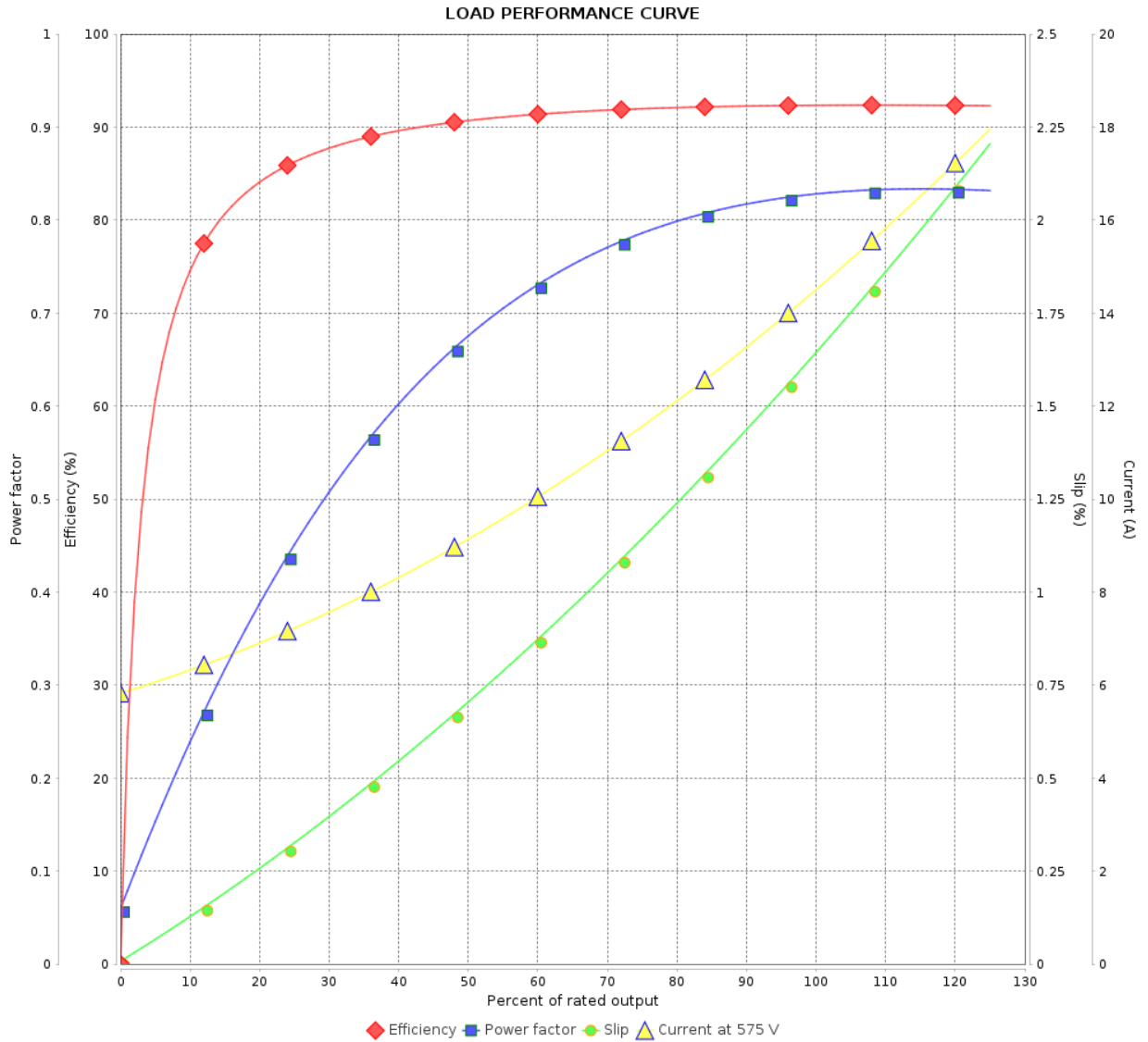
LOAD PERFORMANCE CURVE

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Customer :

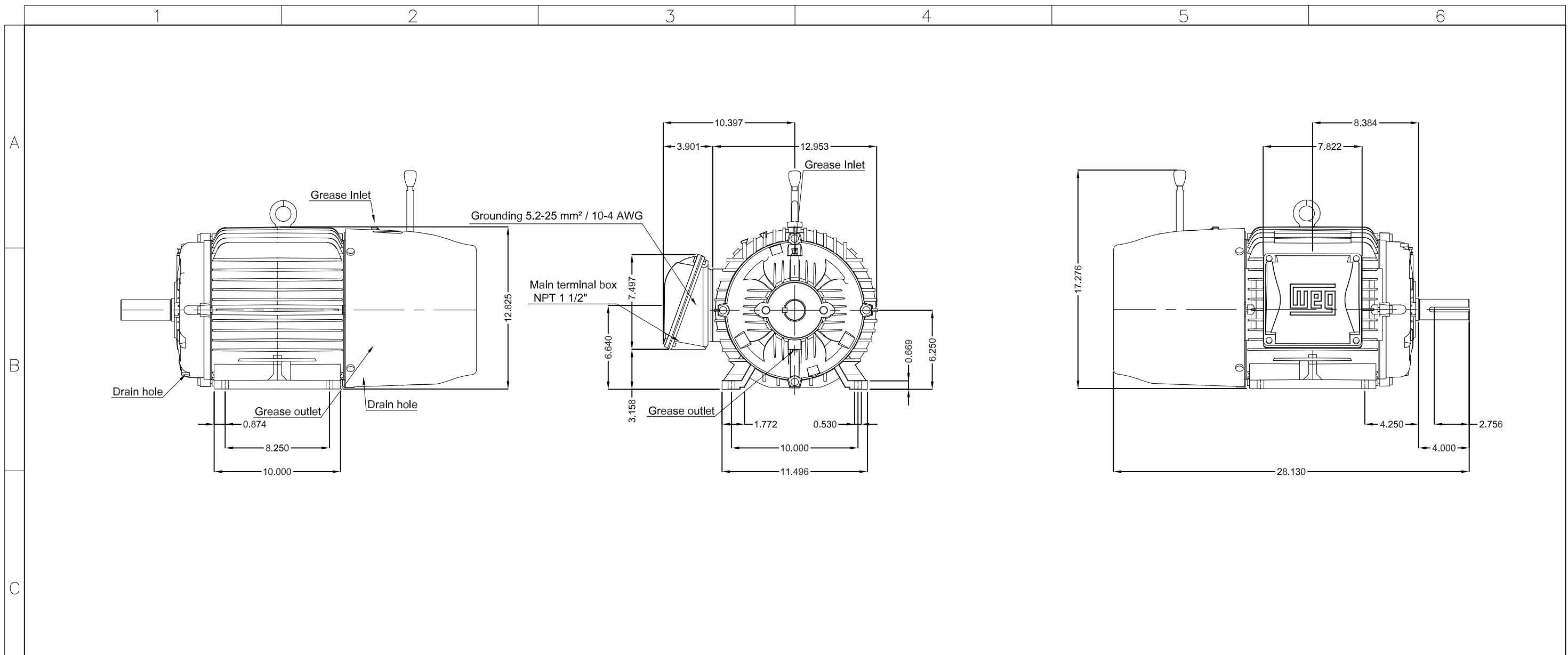
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 13945491



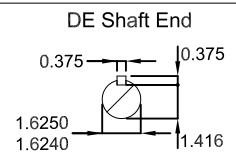
Performance : 575 V 60 Hz 4P


Rated current	: 14.4 A	Moment of inertia (J)	: 0.1104 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1770 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 B3R(D)



15 HP 04 Poles 60 Hz										A	
ECM	LOC	SUMMARY OF MODIFICATIONS				HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.				HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	00
CHECKED		FRAME 254T IP55 TEFC				<p>PREVIEW</p> <p>WDD 00</p>				A3	
RELEASED											SHEET /
REL. DATE											