

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	: 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)
Rated torque	: 6.16 kgfm	Starting method	: Direct On Line	Slip	: 1.78 %	Approx. weight ³	: 147 kg
Locked rotor torque	: 240 %			Breakdown torque	: 260 %		
Insulation class	: F			Insulation class	: F		
Service factor	: 1.25			Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm ²			Moment of inertia (J)	: 0.1104 kgm ²		
Design	: B			Design	: B		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	91.0	91.7	92.4	Max. traction	: 178 kgf		
Power Factor	0.68	0.78	0.83	Max. compression	: 325 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.			
Rev.	Changes Summary			Performed	Checked	Date	
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Brake information

Voltage: 525-575 V
Brake Torque: 15.3 kgfm

Rev.	Changes Summary	Performed	Checked	Date
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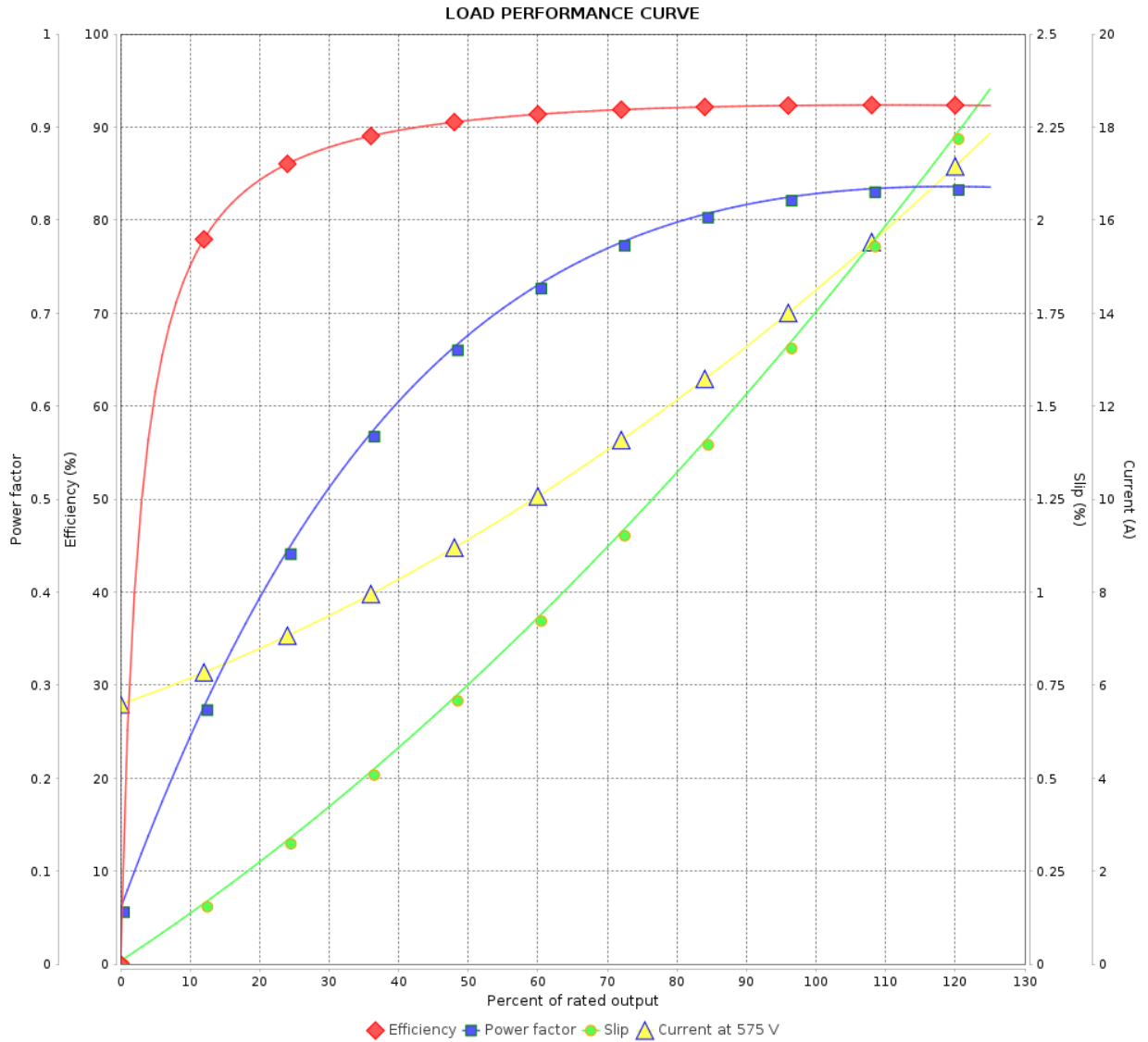
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

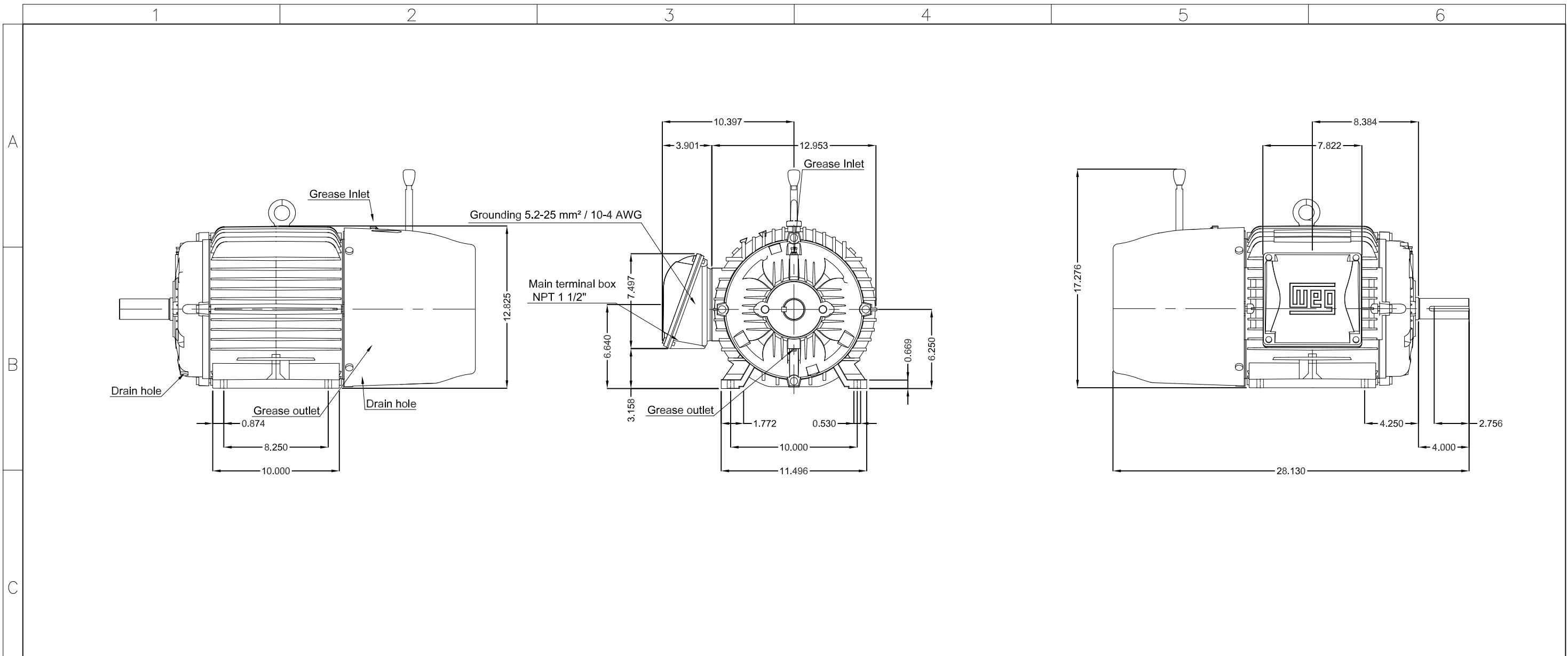
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 13945491



Performance : 575 V 60 Hz 4P

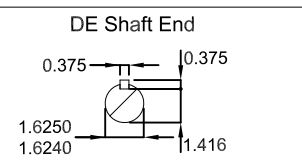
Rated current	: 14.4 A	Moment of inertia (J)	: 0.1104 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 6.16 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1768 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date				



15 HP 04 Poles 60 Hz

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			
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 254T IP55 TEFC			EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED					EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE					EXECUTED	CHECKED	RELEASED	DATE	VER
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