

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake Motor NEMA Premium Product code : 13924889
Efficiency Three-Phase

Frame	: 254/6T	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	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 36.0/18.0 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 14.0/7.00 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	: 154 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	: 175 kgf
Power Factor	0.00	0.68	0.78	0.83	Max. compression	: 328 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
USABLE @208V 39.8A SF 1.15 SFA 45.8A

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: 440-480 V
Brake Torque: 15.3 kgfm

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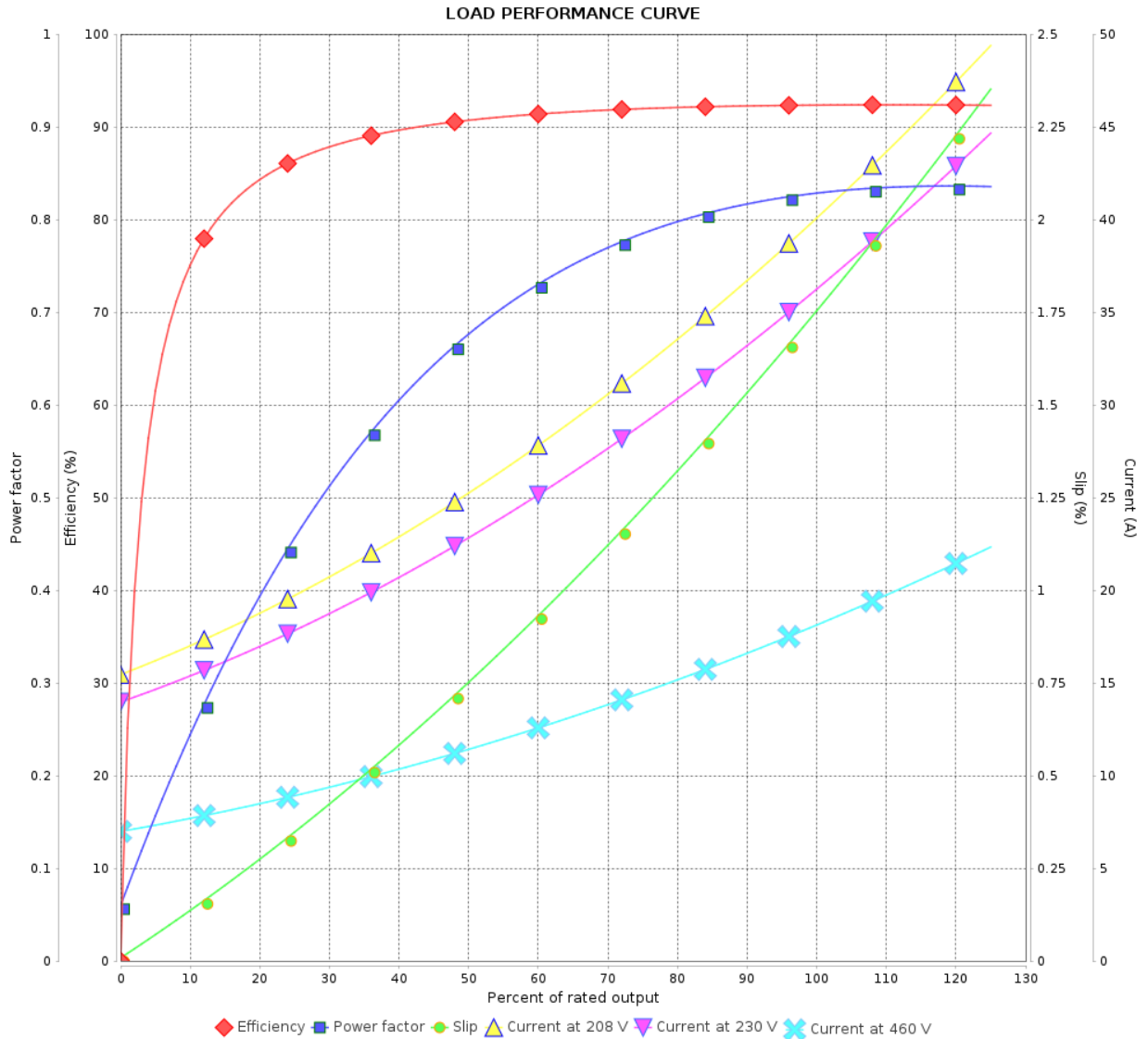
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 13924889

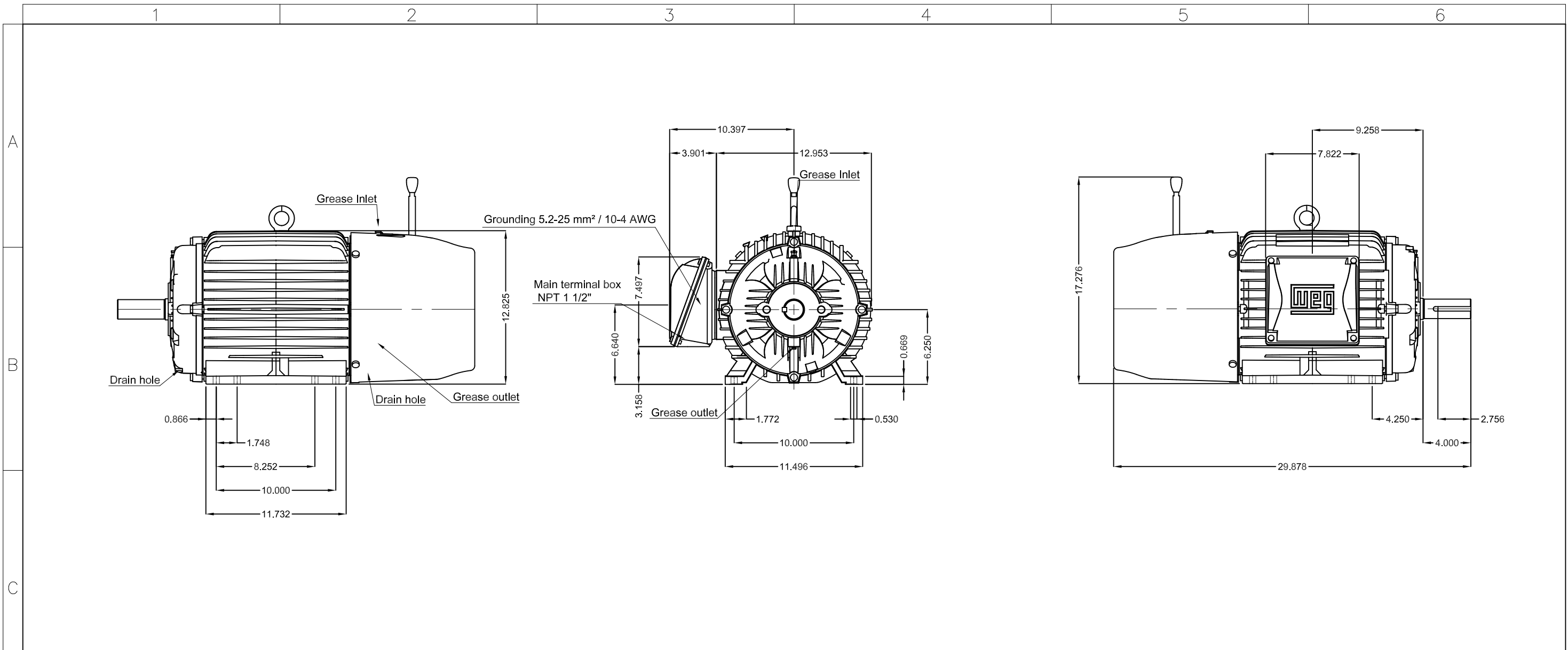


Performance : 230/460 V 60 Hz 4P

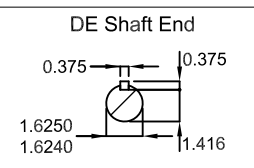
Rated current : 36.0/18.0 A
 LRC : 6.4
 Rated torque : 6.16 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1768 rpm

Moment of inertia (J) : 0.1104 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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D										
	15 HP 04 Poles 60 Hz									
E	Without vertical jackscrews									
	Break size 18 (150 Nm)									
	Brake voltage 440-480 V									
	Color RAL 5009									
	Painting plan 203A									
Mounting NEMA F-1										
Mounting B3R(D)										



ECM		LOC	SUMMARY OF MODIFICATIONS				HYBRISUSER	00
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.	EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED			FRAME 254/6T IP55 TEFC					
RELEASED								
REL. DATE								

PREVIEW
WDD 00
SHEET /