

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		13924889
Frame	:	254/6T		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	:	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	:	14.6/7.30 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1770 rpm		Noise level <sup>2</sup>	:	64.0 dB(A)
Slip	:	1.67 %		Starting method	:	Direct On Line
Rated torque	:	6.15 kgfm		Approx. weight <sup>3</sup>	:	150 kg
Locked rotor torque	:	229 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.1104 kgm <sup>2</sup>				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.0	91.7	92.4	Max. traction	: 166 kgf
Power Factor	0.00	0.68	0.78	0.83	Max. compression	: 317 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						
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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## Three Phase Induction Motor - Squirrel Cage

Customer : \_\_\_\_\_

### Brake information

Voltage: 440-480 V  
Brake Torque: 15.3 kgfm

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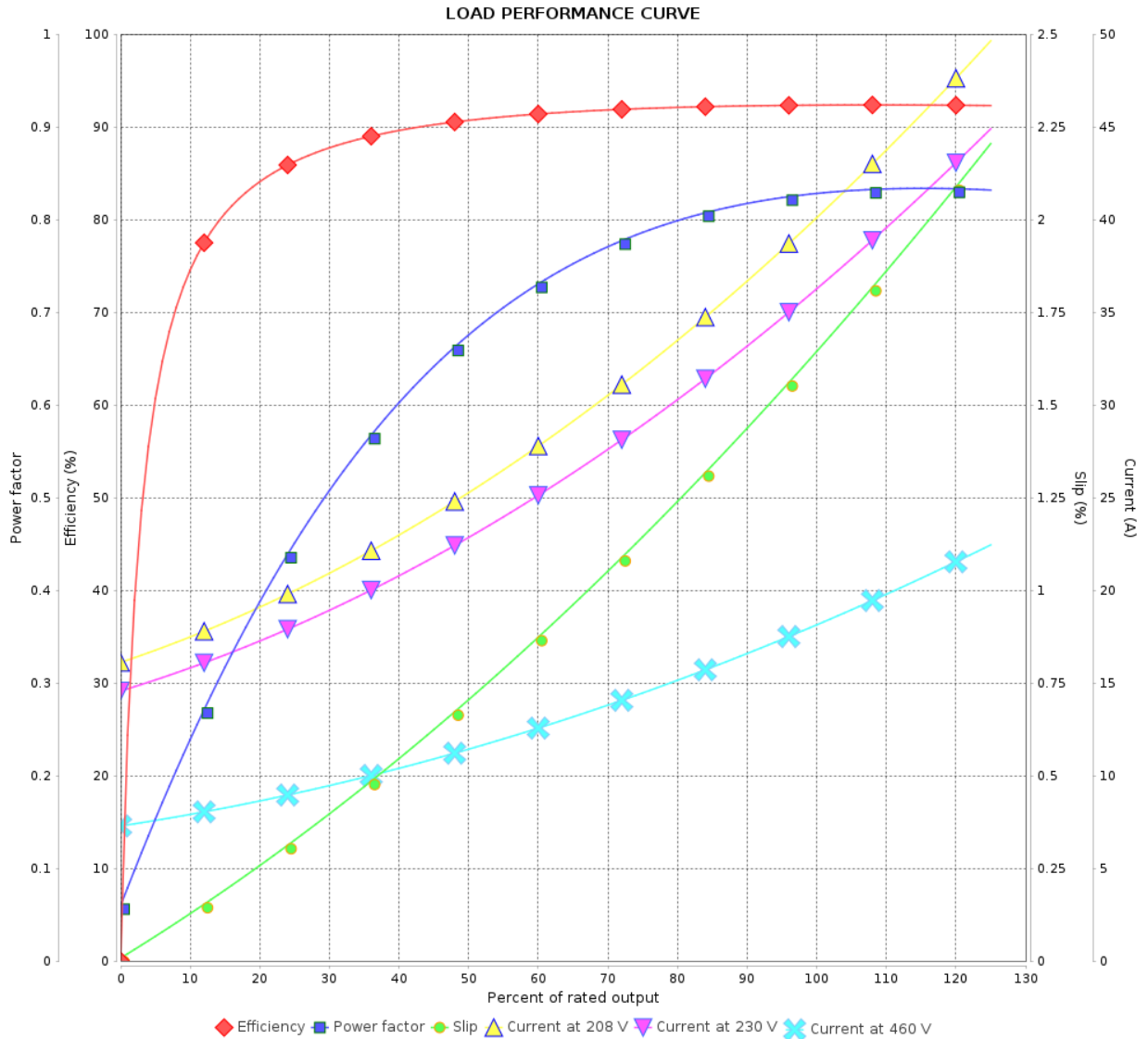
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

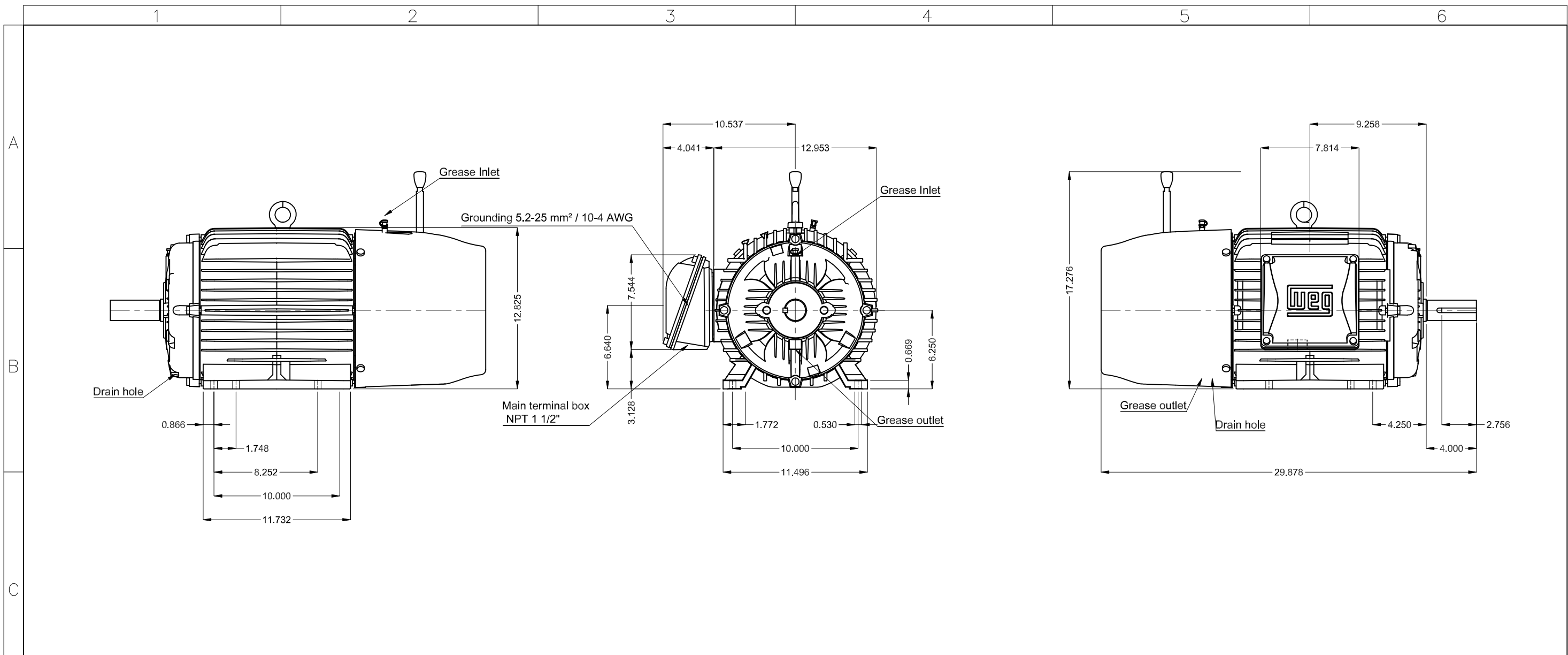


Performance : 230/460 V 60 Hz 4P

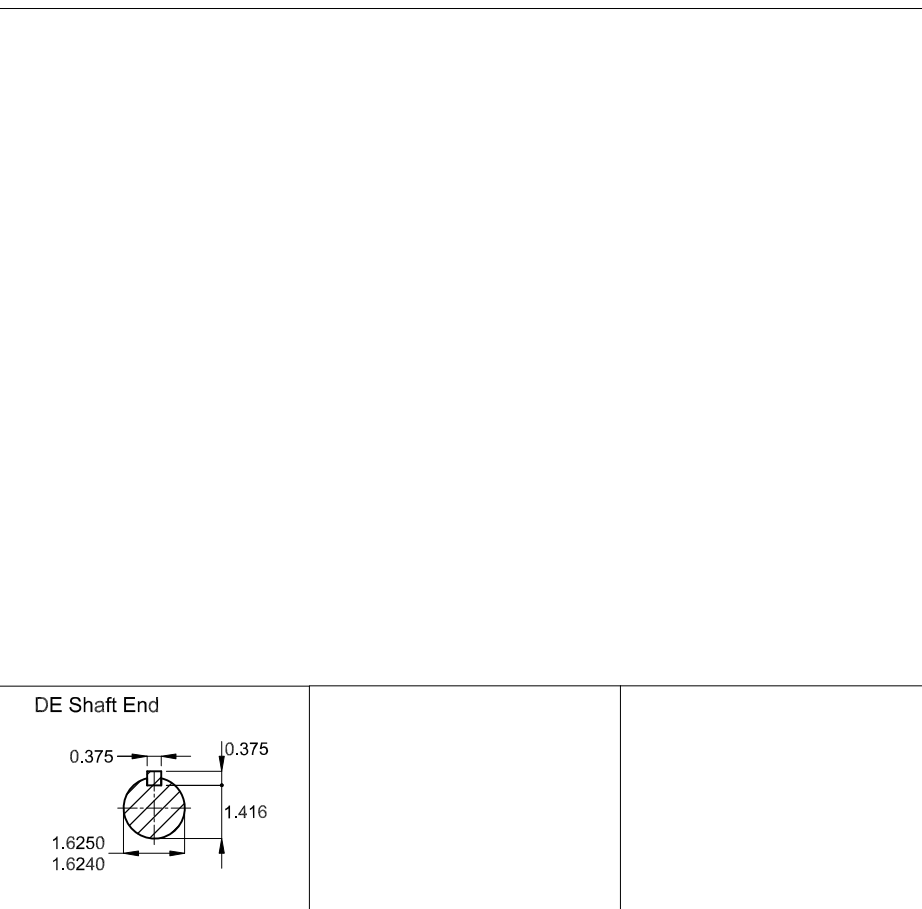
Rated current : 36.0/18.0 A  
 LRC : 6.4  
 Rated torque : 6.15 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 250 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.1104 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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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)



15 HP 04 Poles 60 Hz										A	
Scale 1 : 8											
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 254/6T IP55 TEFC					EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED							EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE							EXECUTED	CHECKED	RELEASED	DATE	VER
						PREVIEW		WDD 00			
						SHEET 1 / 1					