

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14103840
Frame	:	143/5T		Locked rotor time	:	18s (cold) 10s (hot)
Output	:	2 HP (1.5 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	:	2.23 A		Protection degree	:	IP55
L. R. Amperes	:	18.5 A		Cooling method	:	IC411 - TEFC
LRC	:	8.3x(Code L)		Mounting	:	F-1
No load current	:	1.30 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1750 rpm		Noise level ²	:	51.0 dB(A)
Slip	:	2.78 %		Starting method	:	Direct On Line
Rated torque	:	0.829 kgfm		Approx. weight ³	:	28.0 kg
Locked rotor torque	:	270 %				
Breakdown torque	:	320 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0066 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	85.5	86.5	86.5	Max. traction	:	61 kgf
Power Factor	0.57	0.70	0.78	Max. compression	:	89 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)
15.0	12.8	12.1	8.4	6.0	4.7	3.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6205 ZZ		6204 ZZ		
Sealing	:	V'Ring		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
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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Checked by					Page	Revision
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Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
Date	27/10/2024		2 / 3	

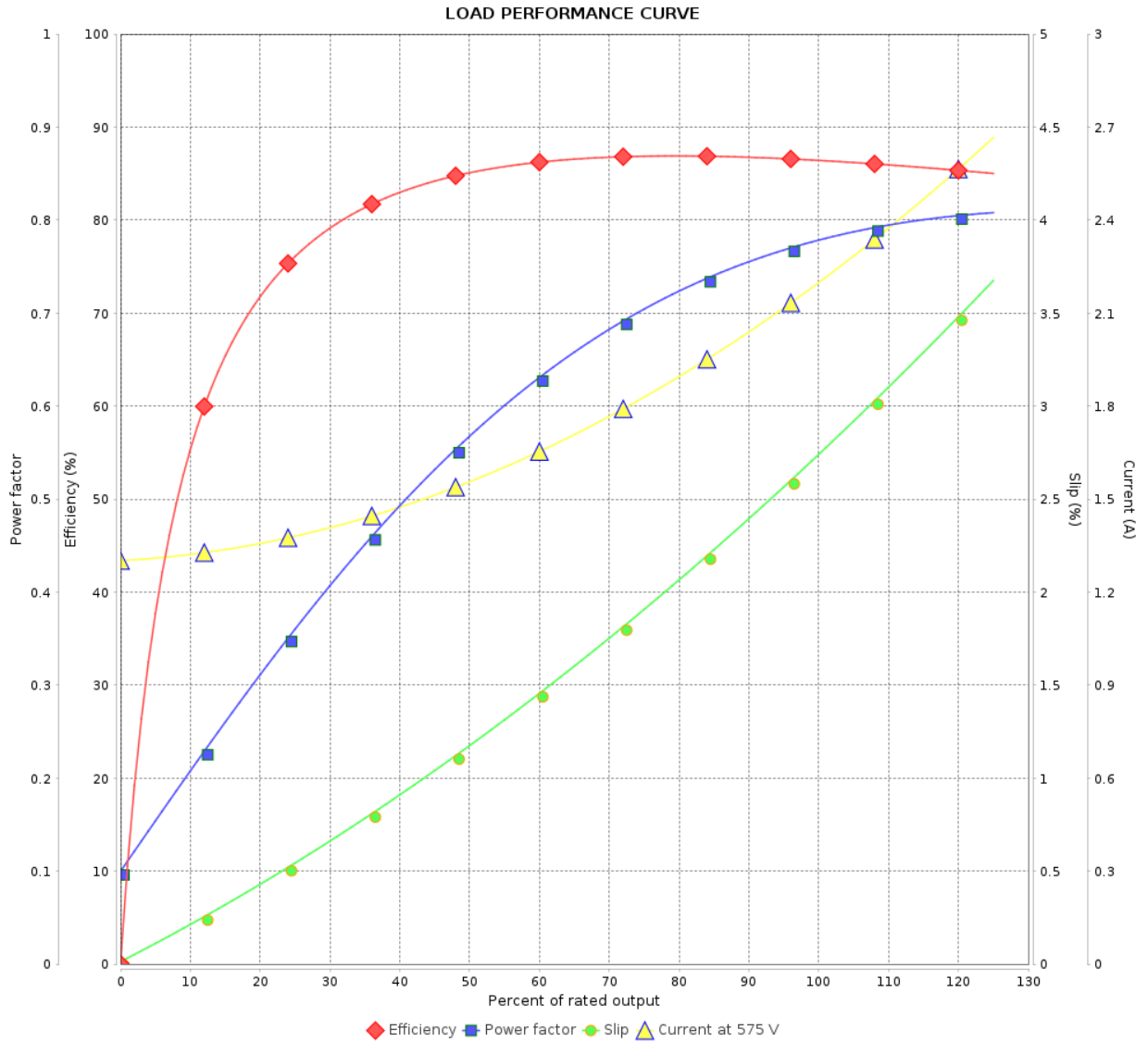
LOAD PERFORMANCE CURVE

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Customer :

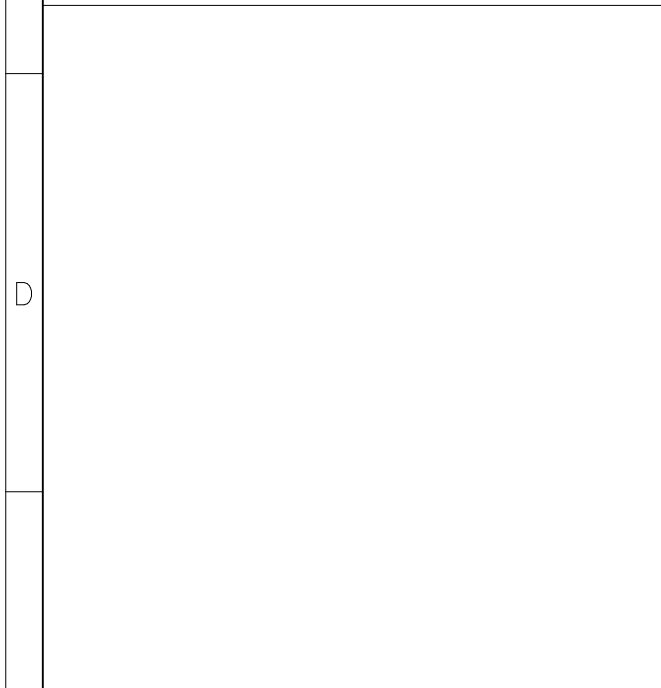
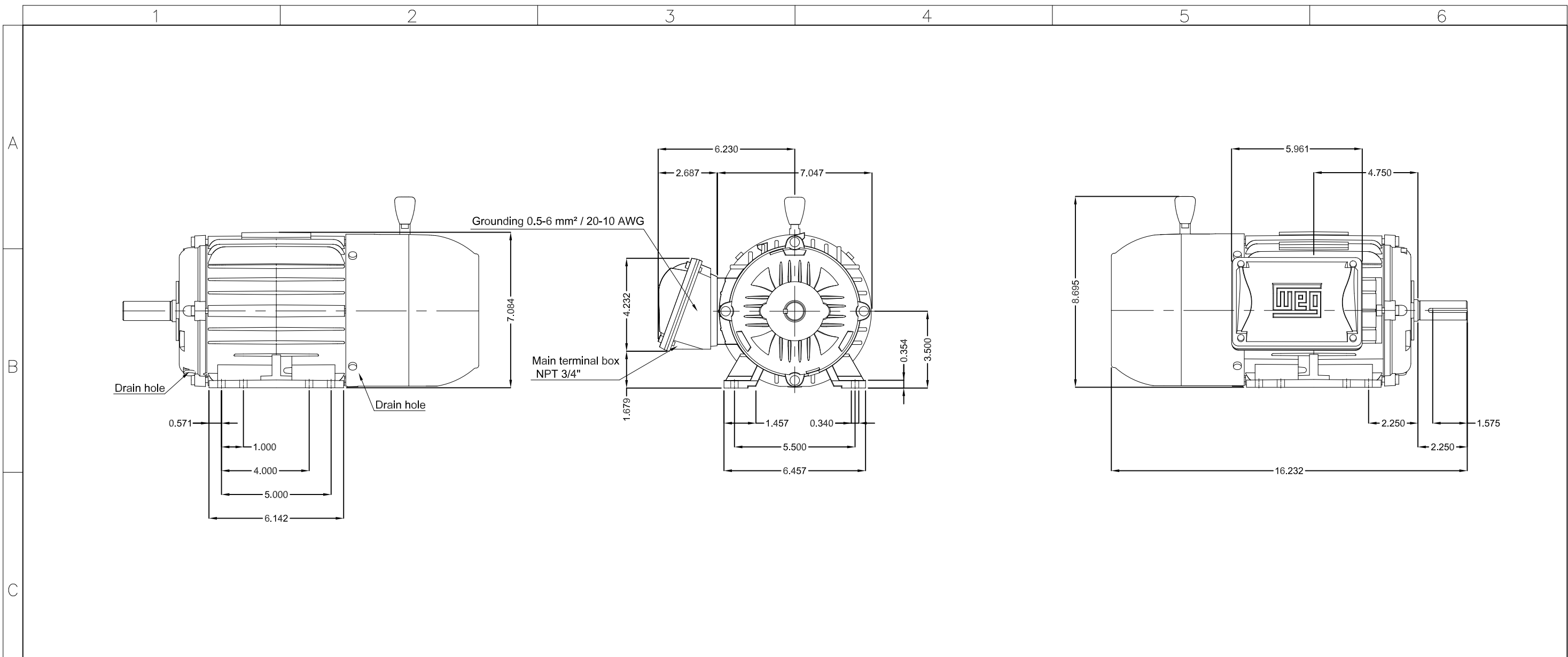
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14103840



Performance : 575 V 60 Hz 4P

Rated current	: 2.23 A	Moment of inertia (J)	: 0.0066 kgm ²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.829 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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Brake voltage 525-575 V
With brake 10 (16 Nm)
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B3R(D)

2 HP 04 Poles 60 Hz	
ECM	LOC
EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

SUMMARY OF MODIFICATIONS					HYBRISUSER	00
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF. FRAME 143/5T IP55 TEFC	EXECUTED	CHECKED	RELEASED	DATE
			PREVIEW			
			WDD	00		
			SHEET	/		

Dimensions in inches

A3

