

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14742134
Frame	:	143/5TC		Locked rotor time	:	25s (cold) 14s (hot)
Output	:	1.5 HP (1.1 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	:	1.68 A		Protection degree	:	IP55
L. R. Amperes	:	14.1 A		Cooling method	:	IC411 - TEFC
LRC	:	8.4x(Code L)		Mounting	:	F-1
No load current	:	0.960 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1755 rpm		Noise level ²	:	51.0 dB(A)
Slip	:	2.50 %		Starting method	:	Direct On Line
Rated torque	:	0.620 kgfm		Approx. weight ³	:	27.6 kg
Locked rotor torque	:	290 %				
Breakdown torque	:	350 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0060 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	82.5	85.5	86.5	Max. traction	:	48 kgf
Power Factor	0.54	0.67	0.76	Max. compression	:	75 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)
14.7	12.1	12.0	8.7	6.1	4.9	3.6
		<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
Performed by						
Checked by					Page	Revision
Date	07/09/2024				1 / 3	

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Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	07/09/2024		2 / 3	

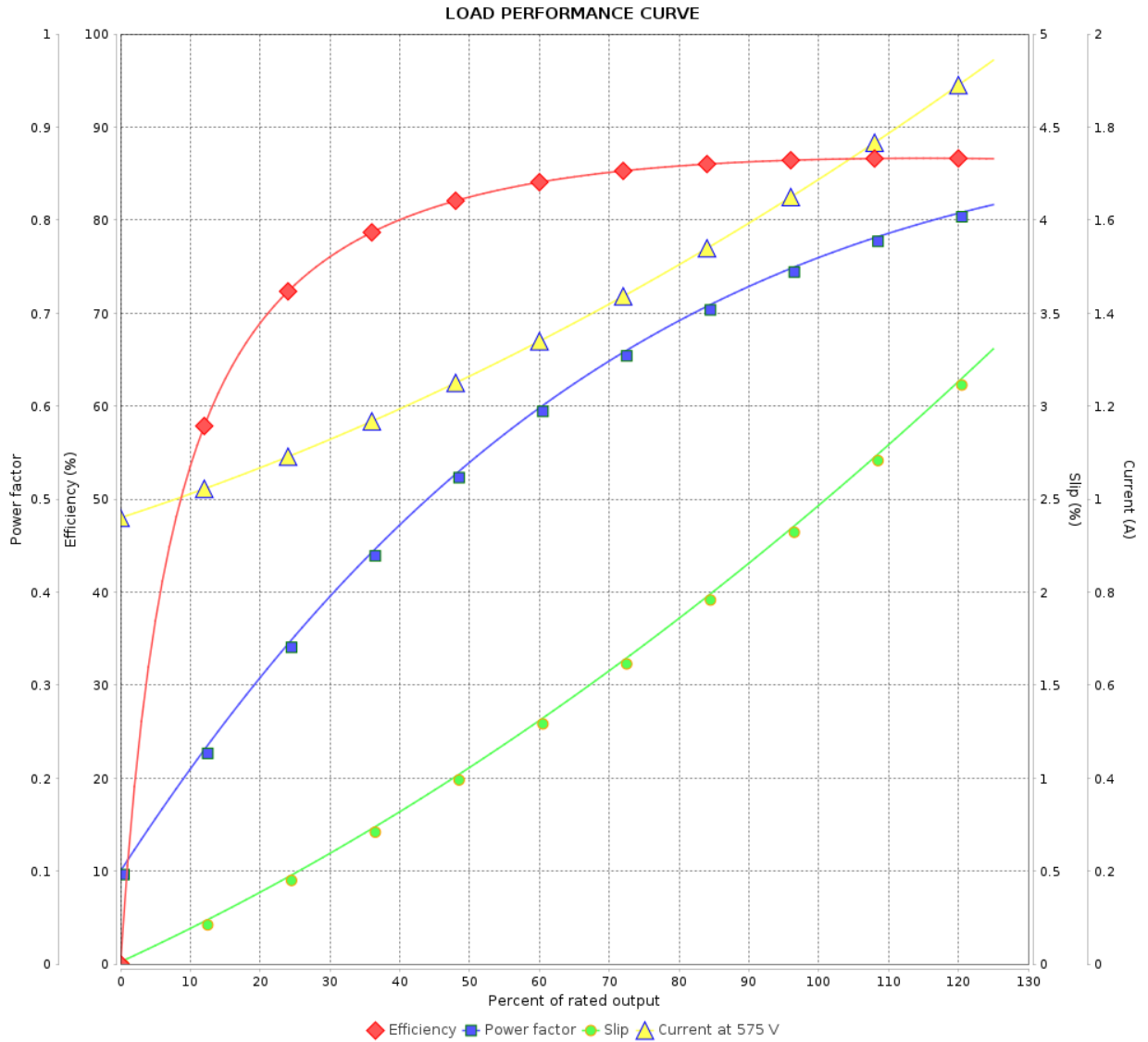
LOAD PERFORMANCE CURVE

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Customer : _____

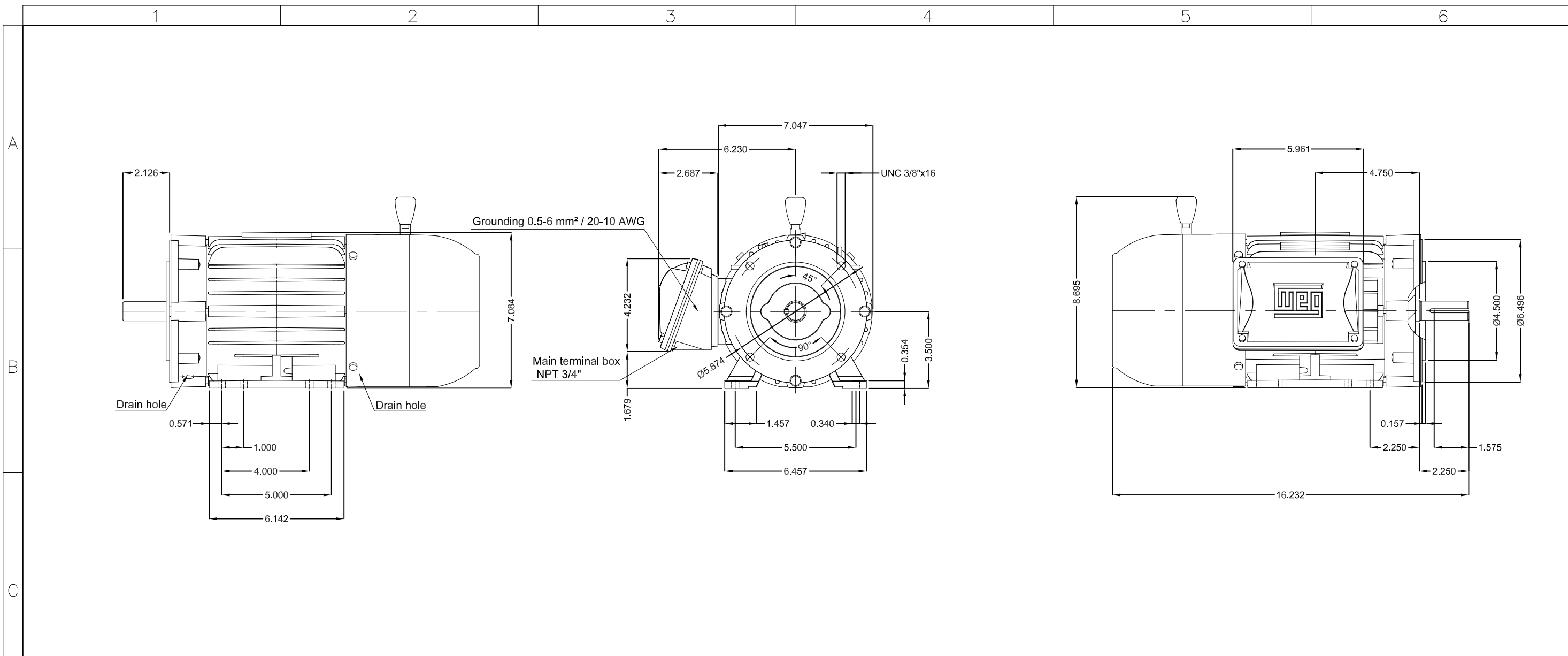
Product line : W22 Brake Motor NEMA Premium Product code : 14742134
 Efficiency Three-Phase



Performance : 575 V 60 Hz 4P

Rated current	: 1.68 A	Moment of inertia (J)	: 0.0060 kgm ²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 3	Revision
Checked by				
Date	07/09/2024			



1.5 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.	PREVIEW
CHECKED		FRAME 143/5TC IP55 TEFC	WDD 00
RELEASED			SHEET /
REL. DATE			

Brake voltage 525-575 V
With brake 10 (16 Nm)
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

