

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	
Frequency	:	60 Hz	Duty cycle	:	Cont.(S1)	
Rated voltage	:	575 V	Ambient temperature	:	-20°C to +40°C	
Poles	:	4	Altitude	:	1000 m.a.s.l.	
Rated current	:	1.68 A	Protection degree	:	IP55	
	:	8.4x(Code L)	Cooling method	:	IC411 - TEFC	
Rated speed	:	1755 rpm	Mounting	:	F-1	
Rated torque	:	0.620 kgfm	Rotation ¹	:	Both (CW and CCW)	
Insulation class	:	F	Noise level ²	:	51.0 dB(A)	
Service factor	:	1.25	Starting method	:	Direct On Line	
Moment of inertia (J)	:	0.0060 kgm ²	Approx. weight ³	:	27.3 kg	
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	:		00088			
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.		
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Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

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Date	26/04/2026			

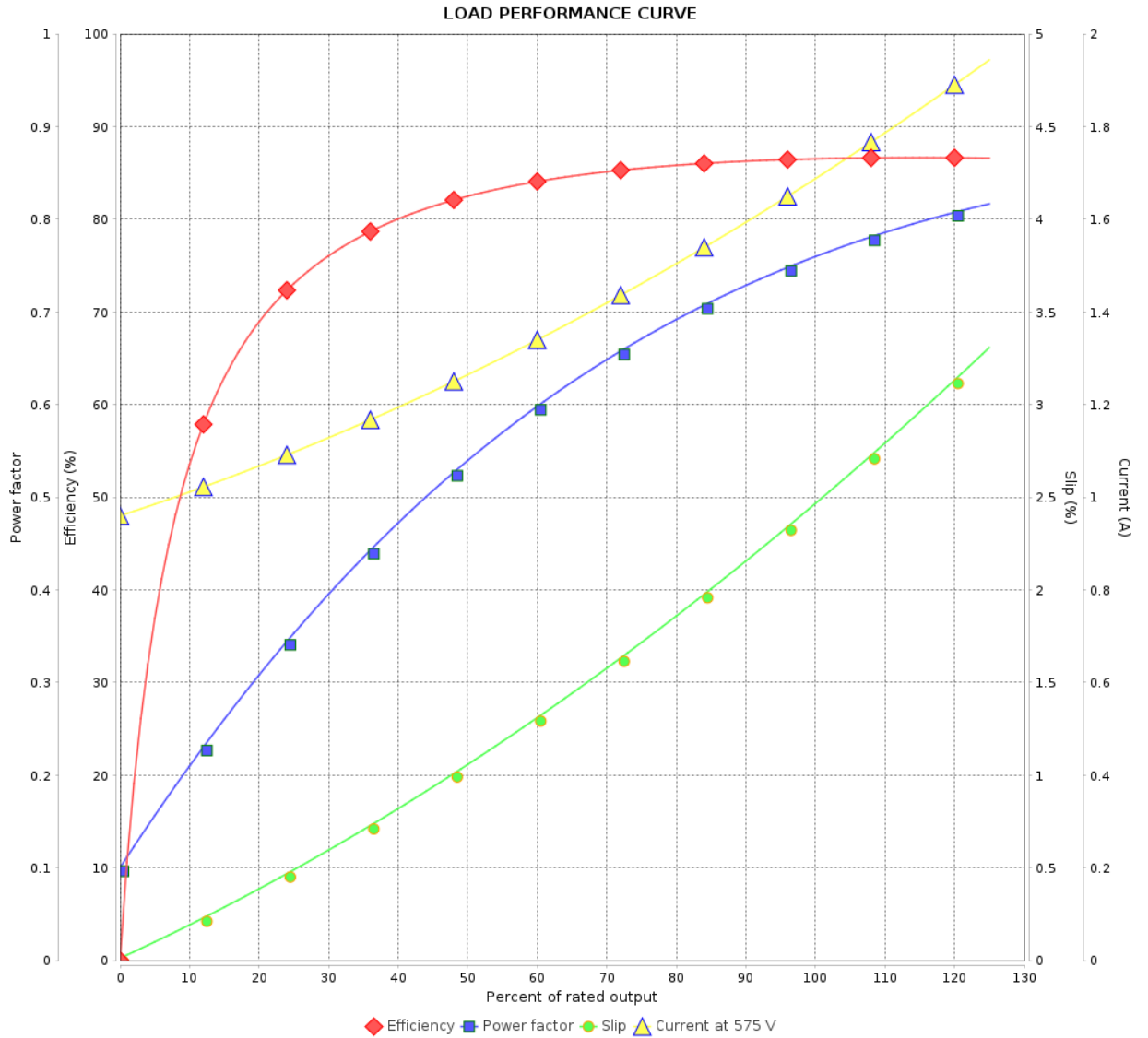
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

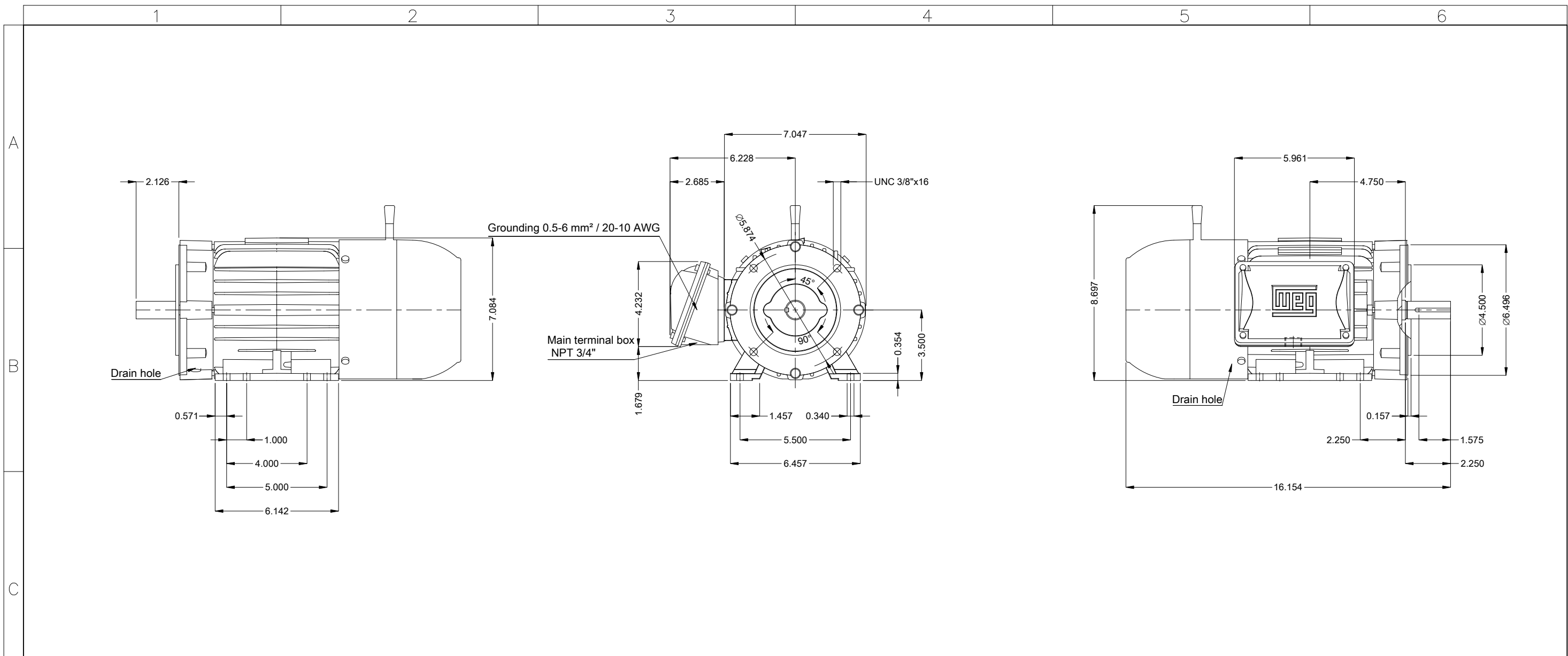


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Product line : W22 Brake Motor NEMA Premium Product code : 14742134
 Efficiency Three-Phase

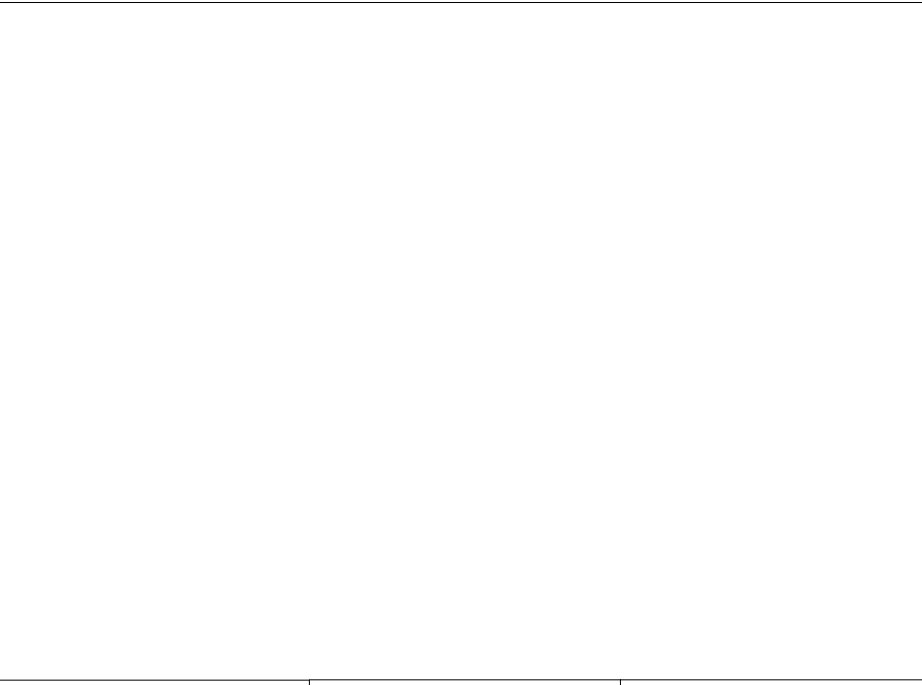


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1
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A
B
C
D
E



1.5 HP 04 Poles 60 Hz										A	
Scale 1 : 5											
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 143/5TC IP55 TEFC					EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED							EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE							EXECUTED	CHECKED	RELEASED	DATE	VER

With brake 10 (16 Nm)
 Brake voltage 525-575 V
 Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B34D

HYBRISUSER	00
EXECUTED	00
CHECKED	00
RELEASED	00
REL. DATE	00

PREVIEW
 WDD 00
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