

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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/05/2026				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	12/05/2026		2 / 3	

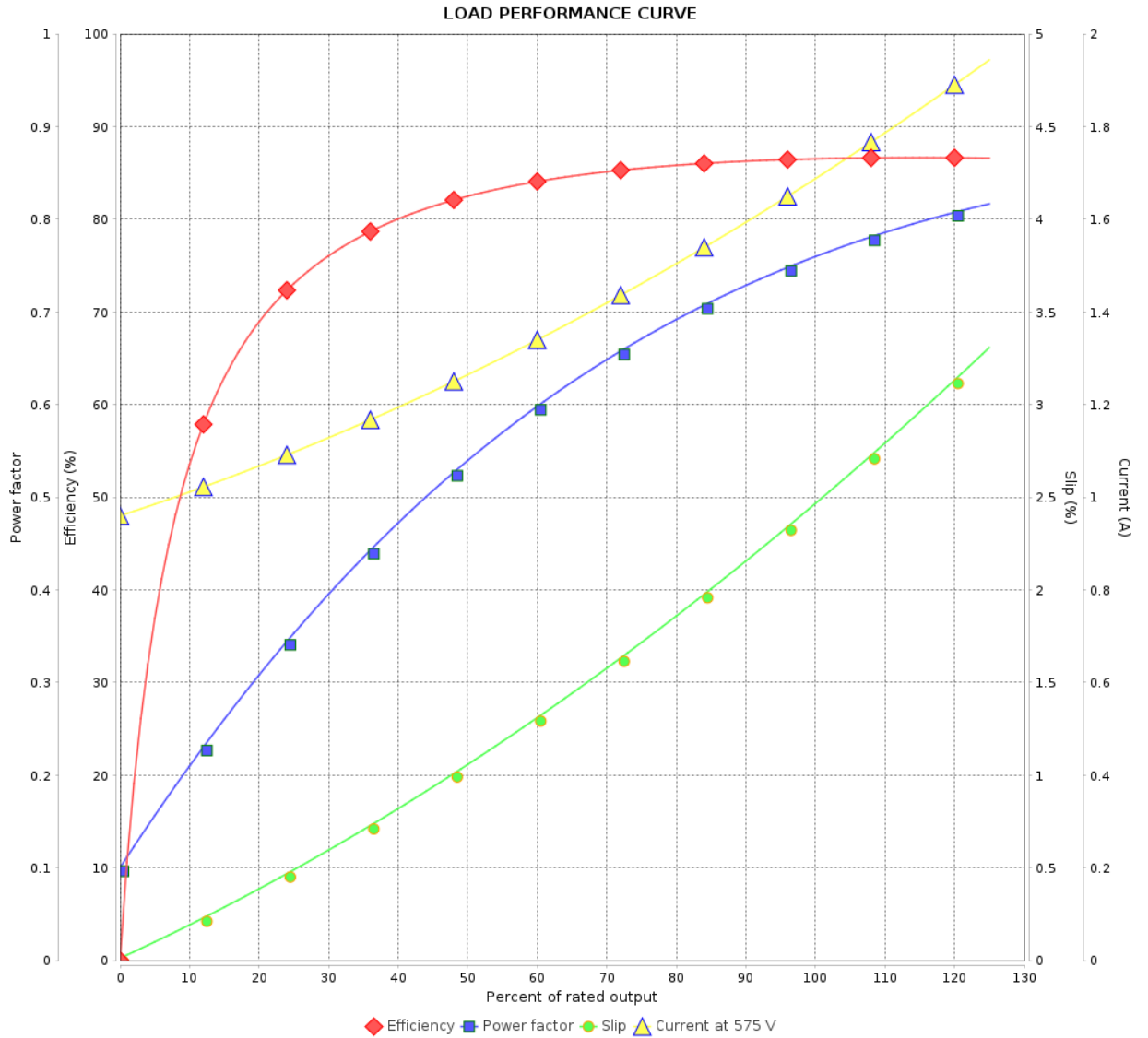
LOAD PERFORMANCE CURVE

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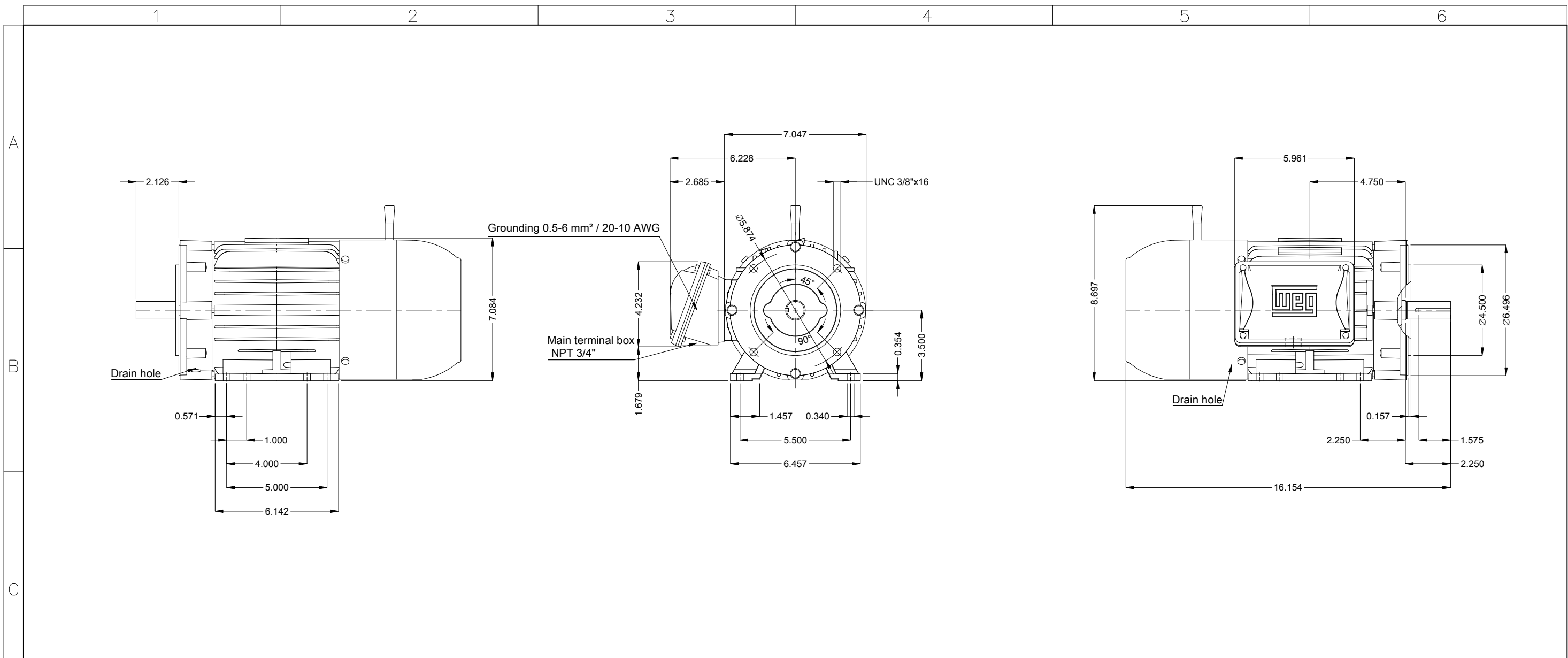


Customer : _____

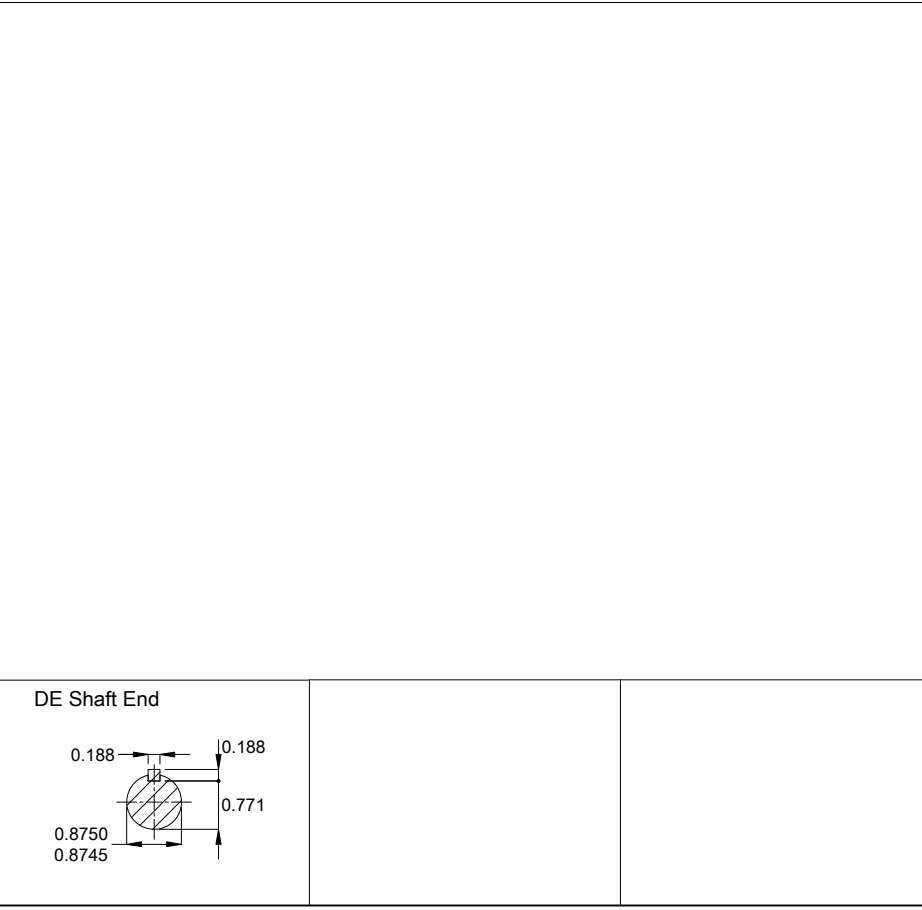
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		Revision
Checked by				
Date				



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



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
						PREVIEW		WDD 00			
						SHEET		1 / 1		A3	