

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		14016376
Frame	:	182/4TC	Locked rotor time	:	41s (cold) 23s (hot)	
Output	:	3 HP (2.2 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	:	3.21 A	Protection degree	:	IP55	
	:	8.2x(Code K)	Cooling method	:	IC411 - TEFC	
Rated speed	:	1765 rpm	Mounting	:	F-1	
Rated torque	:	1.23 kgfm	Rotation ¹	:	Both (CW and CCW)	
Insulation class	:	F	Noise level ²	:	56.0 dB(A)	
Service factor	:	1.25	Starting method	:	Direct On Line	
Moment of inertia (J)	:	0.0143 kgm ²	Approx. weight ³	:	53.8 kg	
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	87.5	88.5	89.5	Max. traction	:	56 kgf
Power Factor	0.58	0.69	0.77	Max. compression	:	109 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)
12.7	11.2	10.8	6.7	5.0	3.7	2.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6207 ZZ		6206 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: 6.12 kgfm

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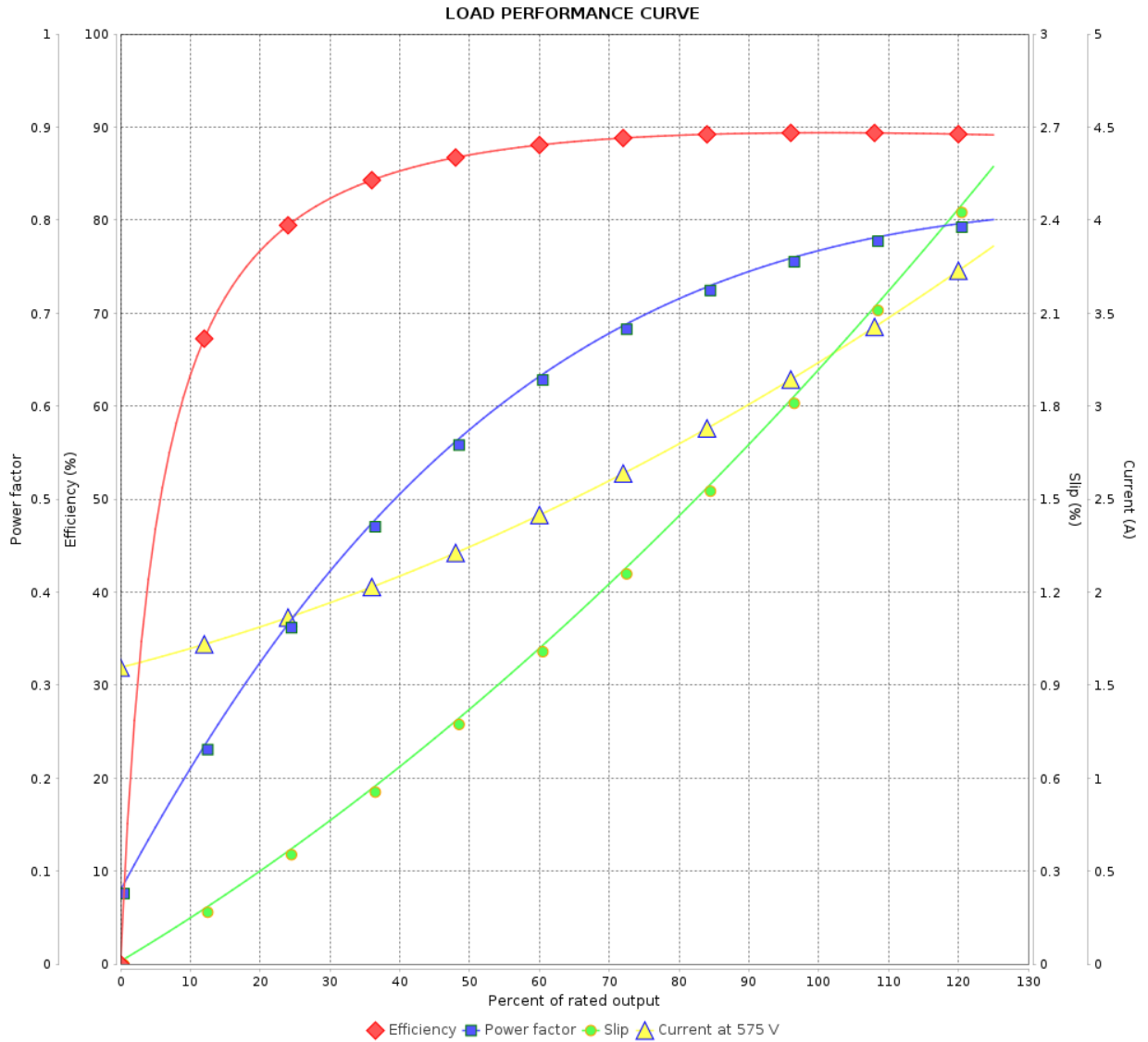
LOAD PERFORMANCE CURVE

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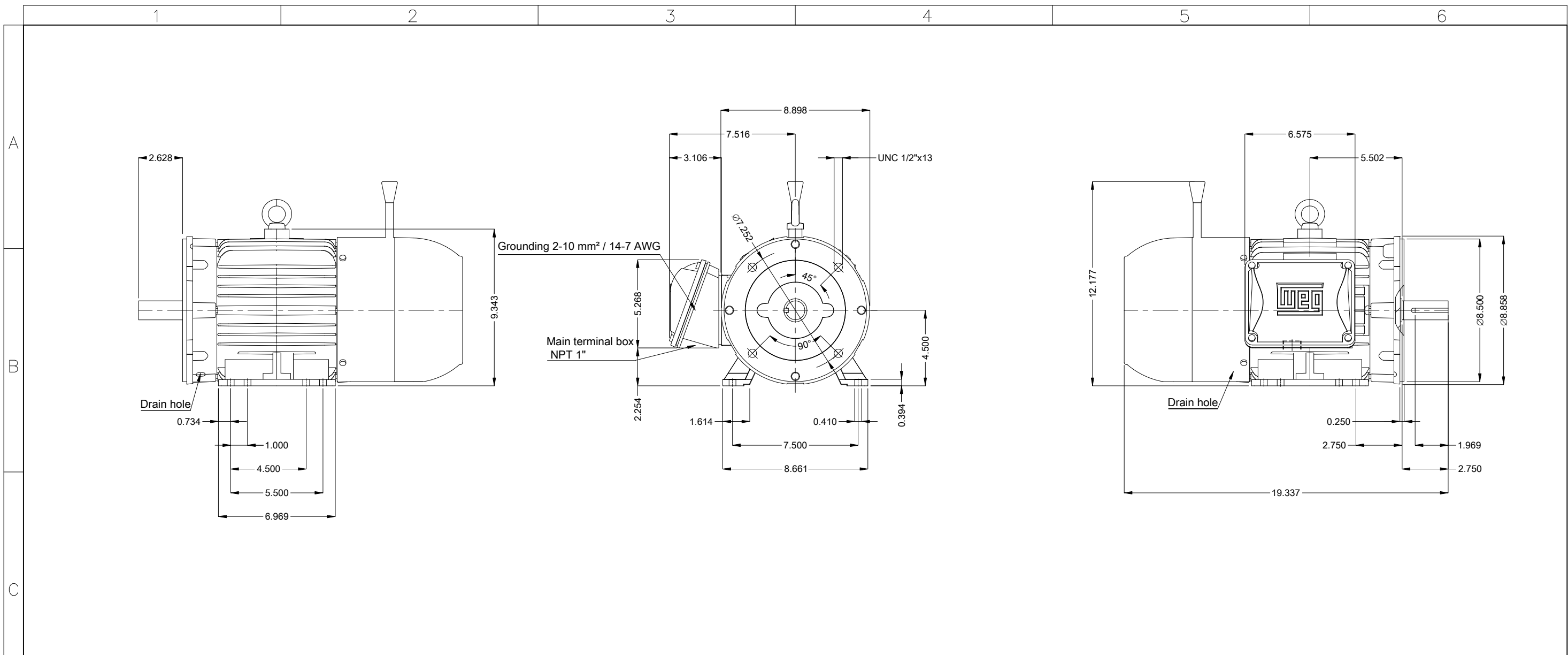


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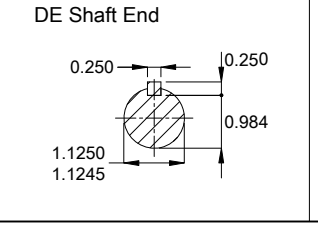


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				3 HP 04 Poles 60 Hz		A
				Scale		1 : 6
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.		EXECUTED	CHECKED	RELEASED
CHECKED		FRAME 182/4TC IP55 TEFC		EXECUTED	CHECKED	RELEASED
RELEASED				EXECUTED	CHECKED	RELEASED
REL. DATE				EXECUTED	CHECKED	RELEASED

With brake 14 (60 Nm)
 Brake voltage 525-575 V
 Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B34D



PREVIEW
 WDD 00
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