

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14009536						
Frame	: 182/4TC			Locked rotor time	: 27s (cold) 15s (hot)	
Output	: 5 HP (3.7 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	: 5.19 A			Protection degree	: IP55	
L. R. Amperes	: 38.9 A			Cooling method	: IC411 - TEFC	
LRC	: 7.5x(Code J)			Mounting	: F-1	
No load current	: 2.32 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1750 rpm			Noise level ²	: 56.0 dB(A)	
Slip	: 2.78 %			Starting method	: Direct On Line	
Rated torque	: 2.07 kgfm			Approx. weight ³	: 54.6 kg	
Locked rotor torque	: 229 %					
Breakdown torque	: 290 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0169 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	88.5	89.5	89.5	Max. traction	: 98 kgf
Power Factor	0.00	0.62	0.74	0.80	Max. compression	: 153 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)
11.3	9.4	8.6	5.5	3.7	2.5	1.8
		<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	:		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
Date	15/01/2024				1 / 3	

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Brake information

Voltage: 525-575 V
Brake Torque: 6.12 kgfm

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Checked by			Page	Revision
Date	15/01/2024		2 / 3	

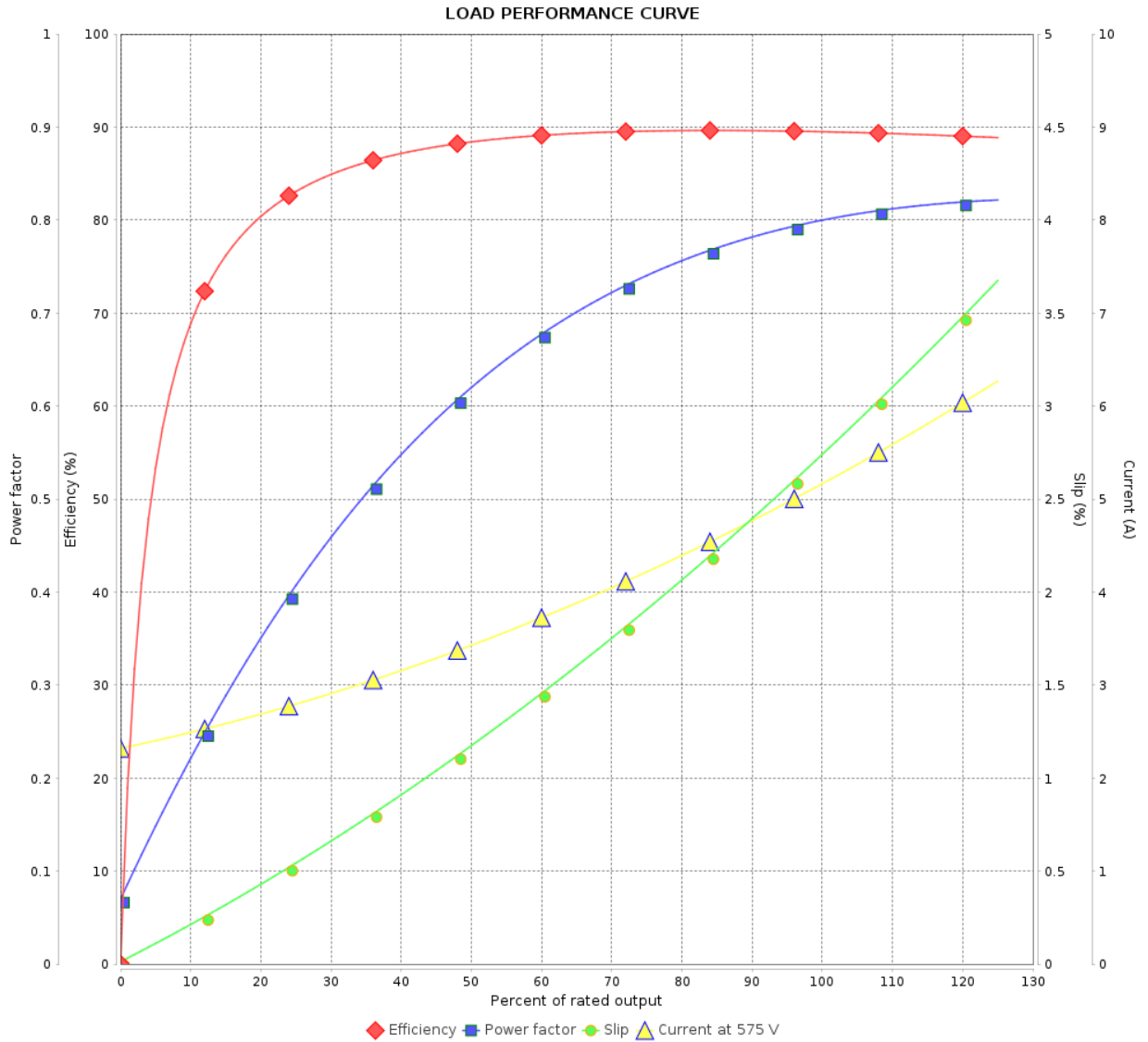
LOAD PERFORMANCE CURVE

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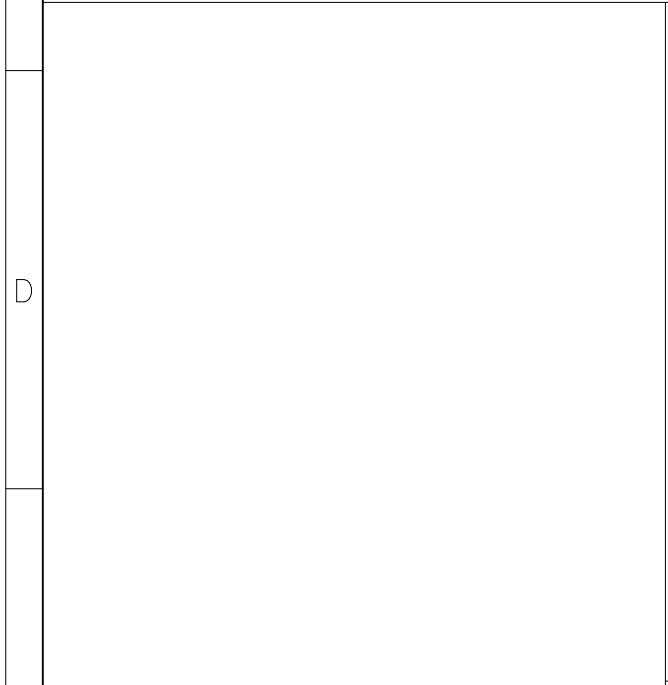
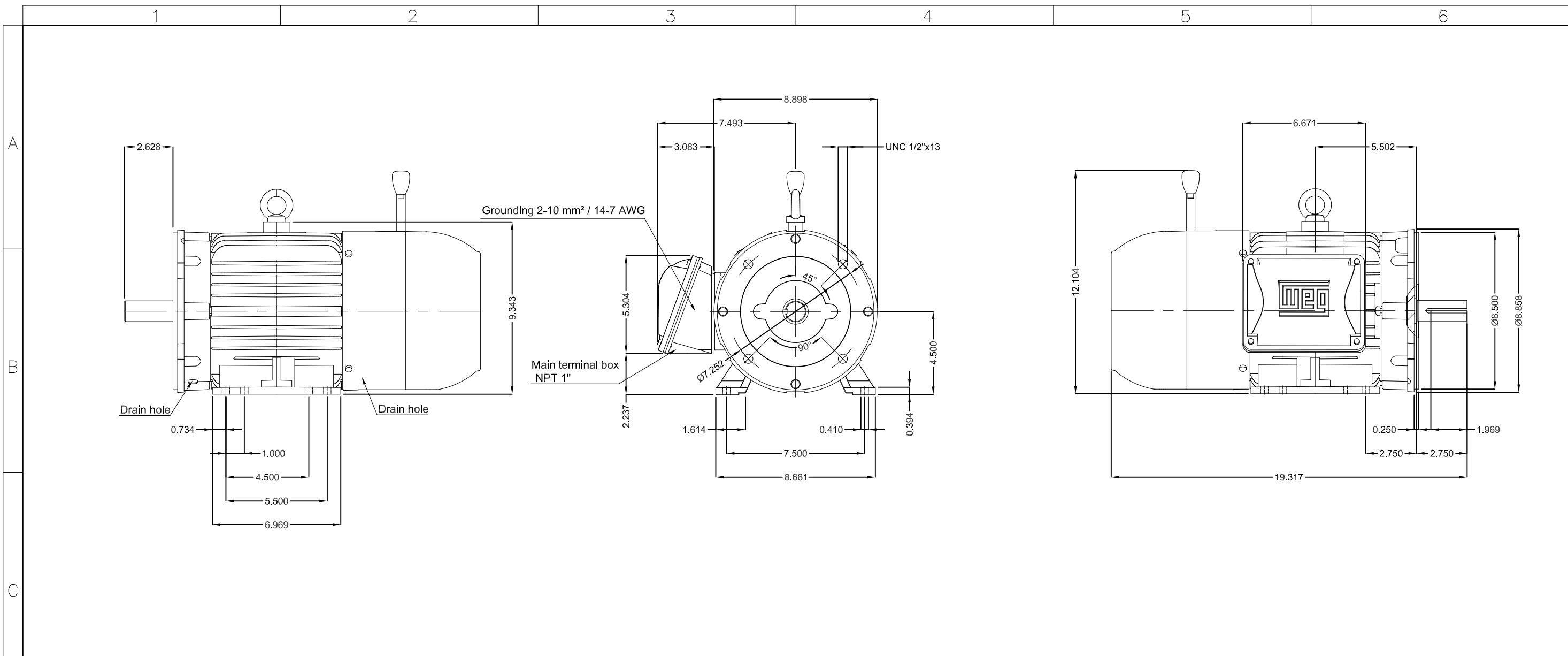


Performance : 575 V 60 Hz 4P

Rated current : 5.19 A
 LRC : 7.5
 Rated torque : 2.07 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Date				



Brake voltage 525-575 V
With brake 14 (60 Nm)
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

5 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.	EXECUTED	CHECKED	RELEASED	DATE
CHECKED		FRAME 182/4TC IP55 TEFC				
RELEASED						
REL. DATE						

PREVIEW
WDD 00
SHEET /