

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 17753755

Frame	: 182/4TD	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 3.01 A	Protection degree	: IP55
L. R. Amperes	: 25.9 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code K)	Mounting	: F-1
No load current	: 1.28 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight ³	: 38.4 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0080 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	86.0	86.5	Max. traction	: 30 kgf
Power Factor	0.70	0.80	0.85	Max. compression	: 68 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)
14.6	10.7	9.4	8.3	4.5	3.1	1.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
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	20/10/2024		1 / 2	

LOAD PERFORMANCE CURVE

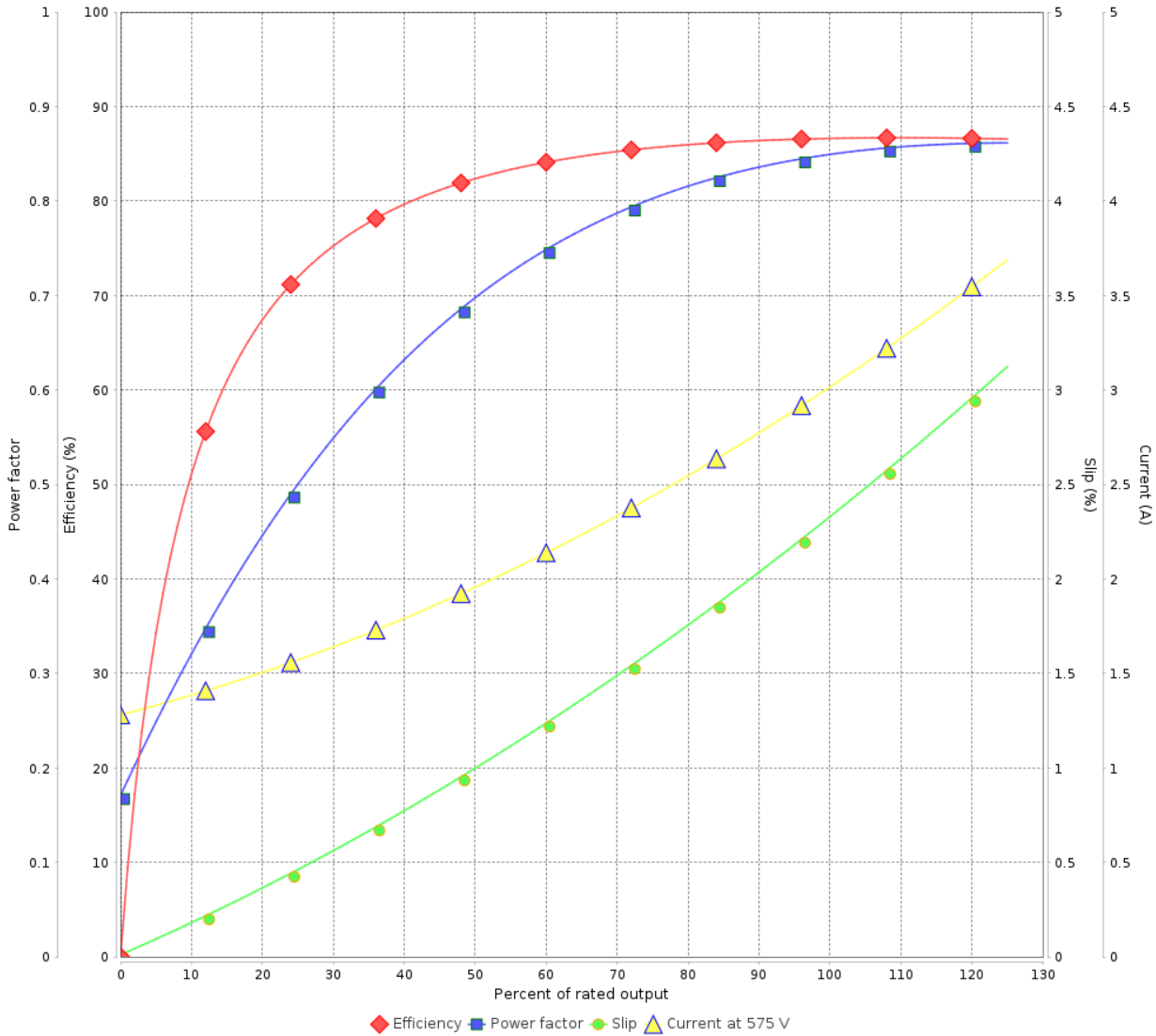
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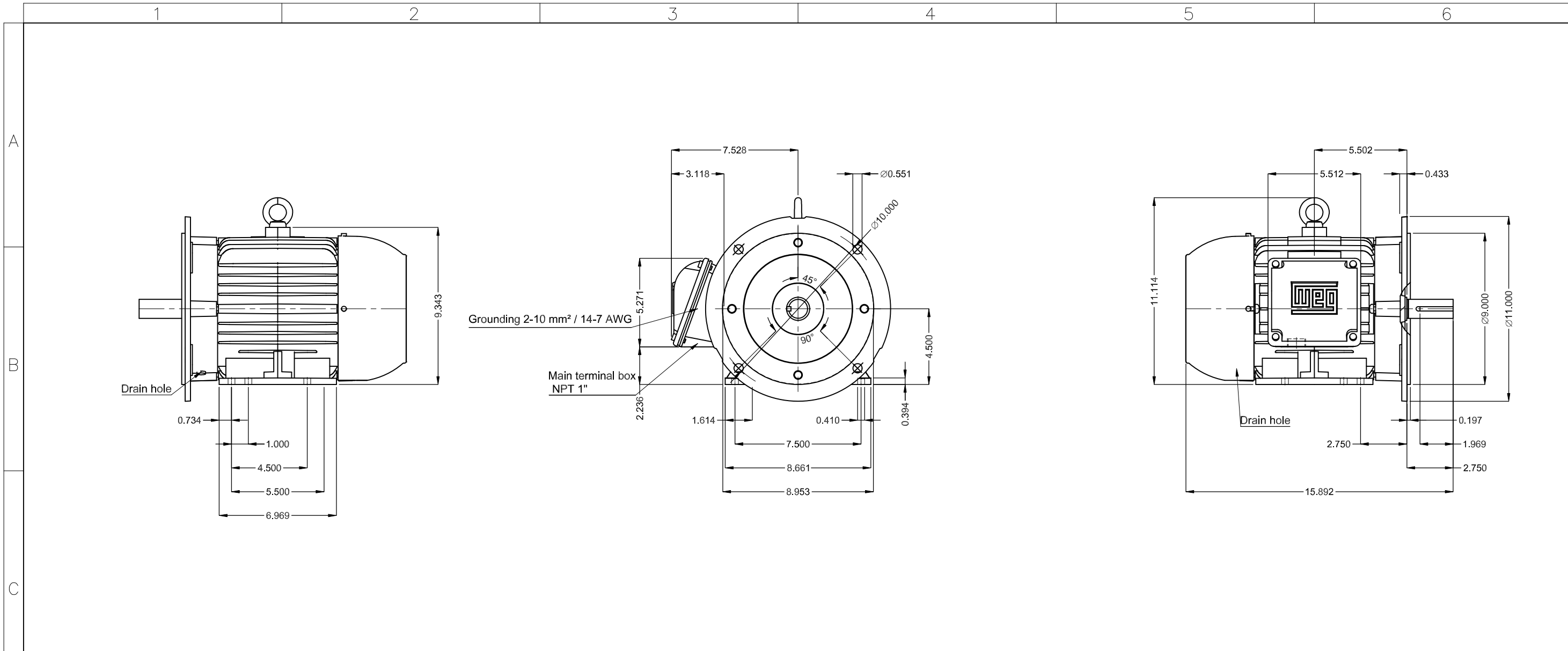
LOAD PERFORMANCE CURVE



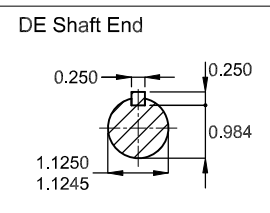
Performance : 575 V 60 Hz 2P

Rated current	: 3.01 A	Moment of inertia (J)	: 0.0080 kgm ²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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Performed by			Page 2 / 2	Revision
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Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B35R(D)



3 HP 02 Poles 60 Hz										A		
								Scale	1 : 6			
								HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 182/4TD IP55 TEFC					PREVIEW					
CHECKED							WDD				00	
RELEASED							SHEET				/	
REL. DATE												