

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11995122

Frame	: 182TC	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 3 HP (2.2 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	: 3.23 A	Protection degree	: IP21
L. R. Amperes	: 23.9 A	Cooling method	: IC01 - ODP
LRC	: 7.4x(Code J)	Mounting	: W-6
No load current	: 1.68 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 53.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight ³	: 25.7 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0107 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	86.5	86.5	Max. traction	: 65 kgf
Power Factor	0.60	0.72	0.79	Max. compression	: 90 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	Without Bearing Seal	Without Bearing 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
Performed by		Page Revision 1 / 2		
Checked by				
Date	24/08/2025			

LOAD PERFORMANCE CURVE

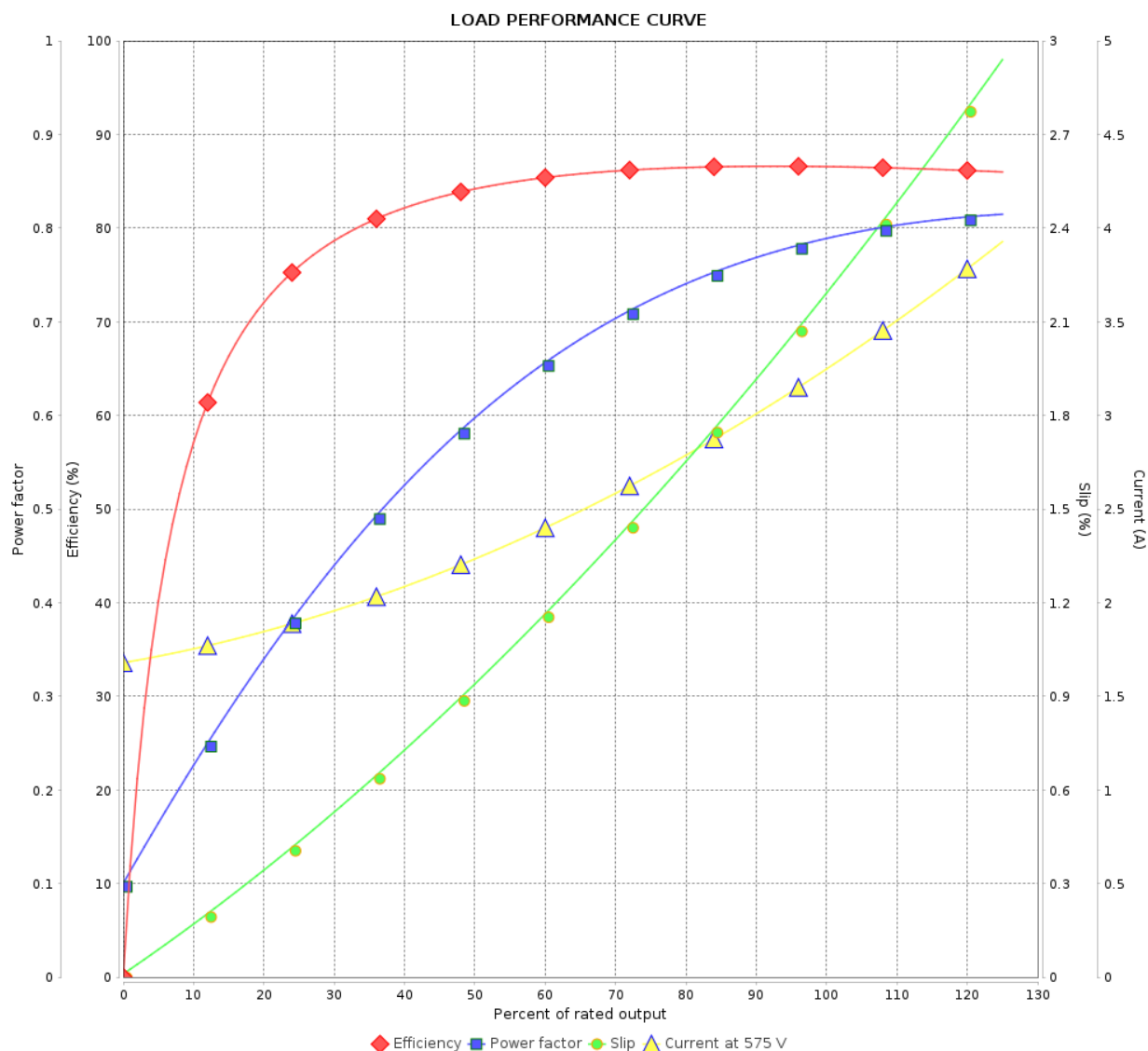
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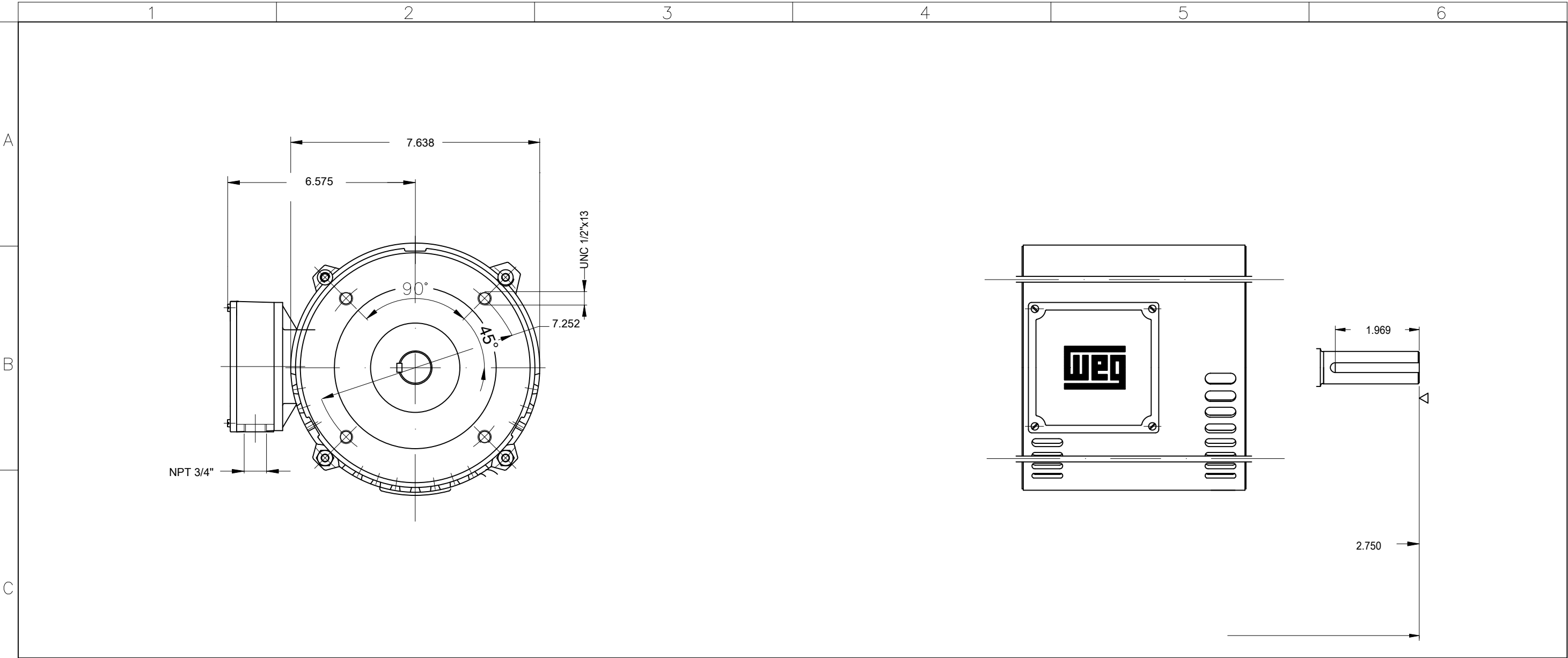


Performance : 575 V 60 Hz 4P

Rated current : 3.23 A
LRC : 7.4
Rated torque : 1.24 kgfm
Locked rotor torque : 229 %
Breakdown torque : 300 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0107 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
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D															A
								HYBRISUSER							00
E	<div>Plastic flat plug</div> <div>Packing - crate</div> <div>Color RAL 5009</div> <div>Painting plan 207A</div> <div>Mounting V18</div>	<div>DE Shaft End</div> <div></div>			ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
					EXECUTED	HYBRISUSER		THREE PH. MOTOR GENERAL HIGH EFF. FRAME 182TC IP21 ODP			PREVIEW				
					CHECKED										
					RELEASED										
					REL. DATE			WMO	Jaragua do Sul			Product Engineering			