

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase Product code : 11914799

Frame	: 256TC	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 25 HP (18.5 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	: 23.8 A	Protection degree	: IP23
L. R. Amperes	: 155 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 8.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 5.14 kgfm	Approx. weight ³	: 110 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0456 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	91.7	Max. traction	: 155 kgf
Power Factor	0.73	0.82	0.85	Max. compression	: 265 kgf

	Drive end	Non drive end
Bearing type	: 6309 Z C3	6209 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 13 g	9 g
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

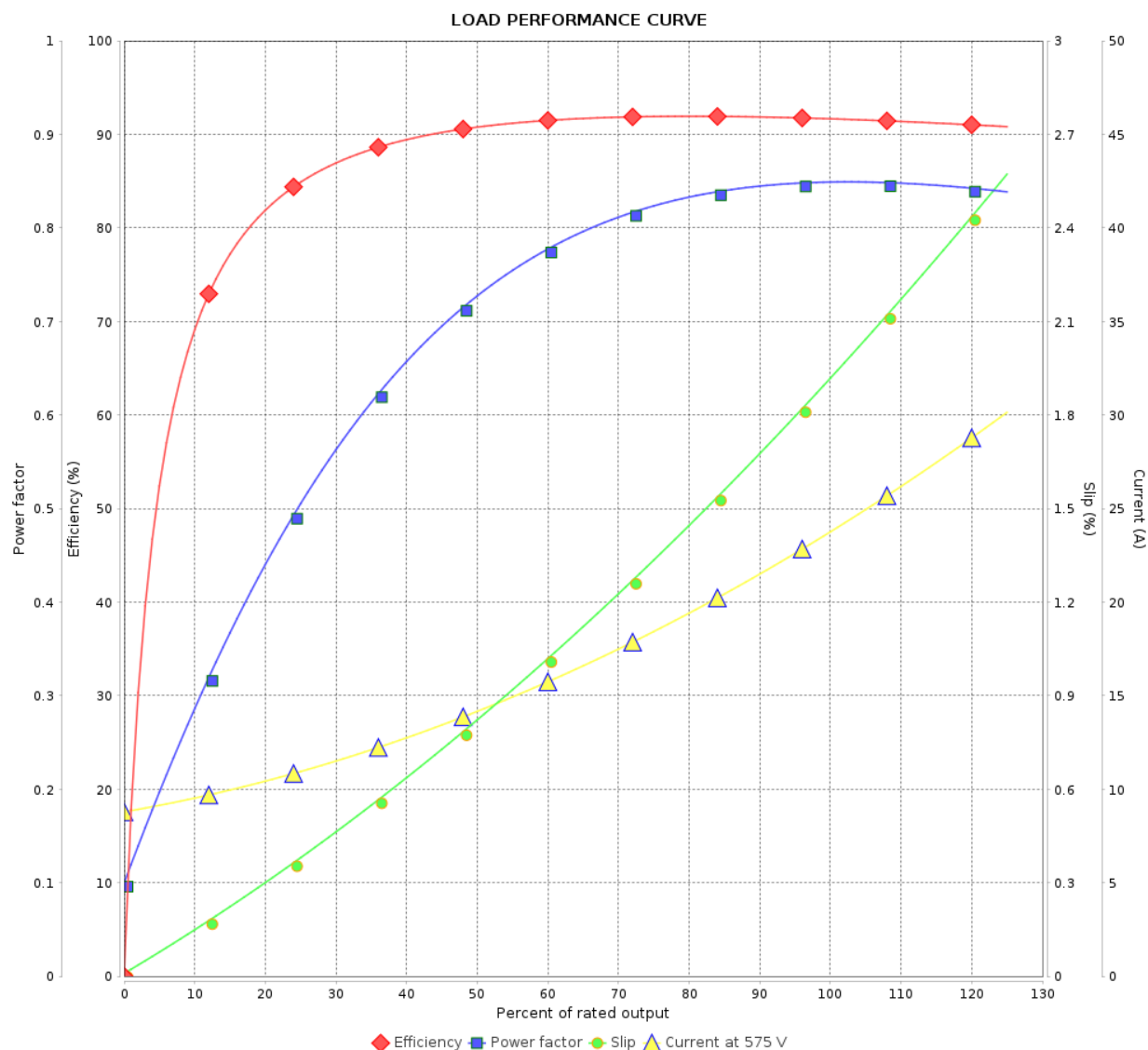
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Three-Phase

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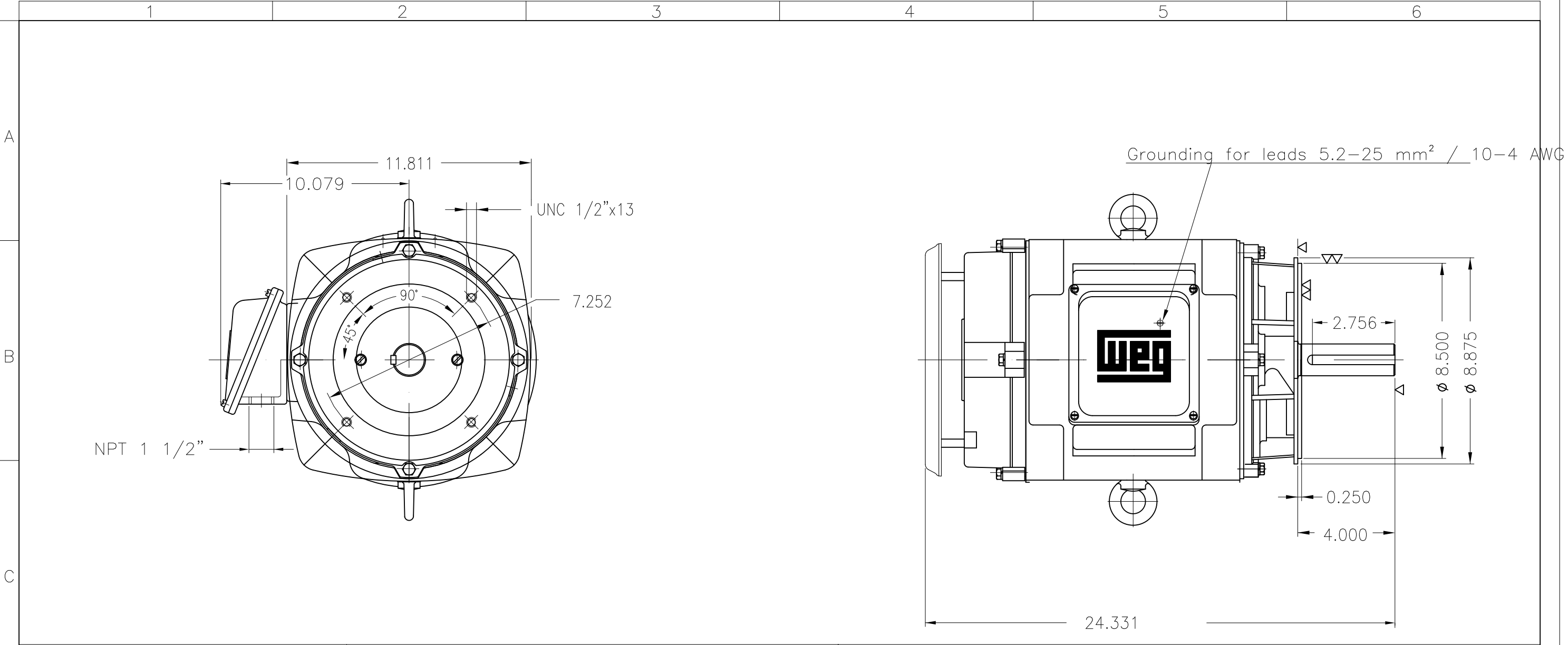


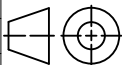

Performance : 575 V 60 Hz 2P

Rated current : 23.8 A
LRC : 6.5
Rated torque : 5.14 kgfm
Locked rotor torque : 200 %
Breakdown torque : 260 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0456 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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Performed by				Page 2 / 2	Revision
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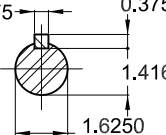
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E	25 HP 02 Poles 60 Hz A												
								HYBRISUSER					00
ECM		LOC		SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		HYBRISUSER				THREE PH. MOTOR GENERAL NEMA PREM. EFF. FRAME 256TC IP23 ODP				PREVIEW WDD 00			
CHECKED													
RELEASED													
REL. DATE				WMO Jaragua do Sul		Product Engineering		SHEET		1 / 1			

Color RAL 5009

Painting plan 203A

Mounting B14R(D)

DE Shaft End



Dimensions in inches

XME A3