

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: NEMA Premium Efficiency Three-Phase	Product code : 14460223	
Frame : 143/5TC		Cooling method : IC01 - ODP		
Insulation class : F		Mounting : F-1		
Duty cycle : Cont.(S1)		Rotation ¹ : Both (CW and CCW)		
Ambient temperature : -20°C to +40°C		Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.		Approx. weight ³ : 17.7 kg		
Design : B		Moment of inertia (J) : 0.0049 kgm ²		
Output [HP]		2		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		2.15		
L. R. Amperes [A]		16.6		
LRC [A]		7.7x(Code K)		
No load current [A]		1.10		
Rated speed [RPM]		1740		
Slip [%]		3.33		
Rated torque [kgfm]		0.834		
Locked rotor torque [%]		260		
Breakdown torque [%]		320		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		30s (cold) 17s (hot)		
Noise level ²		52.0 dB(A)		
Efficiency (%)	25%			
	50%	85.5		
	75%	86.5		
	100%	86.5		
Power Factor	25%			
	50%	0.61		
	75%	0.74		
	100%	0.81		
Bearing type : 6205 ZZ		Drive end	Non drive end	Foundation loads Max. traction : 67 kgf Max. compression : 85 kgf
Sealing : Without		Bearing Seal	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
Performed by				
Checked by				
Date	17/05/2022		Page 1 / 2	Revision

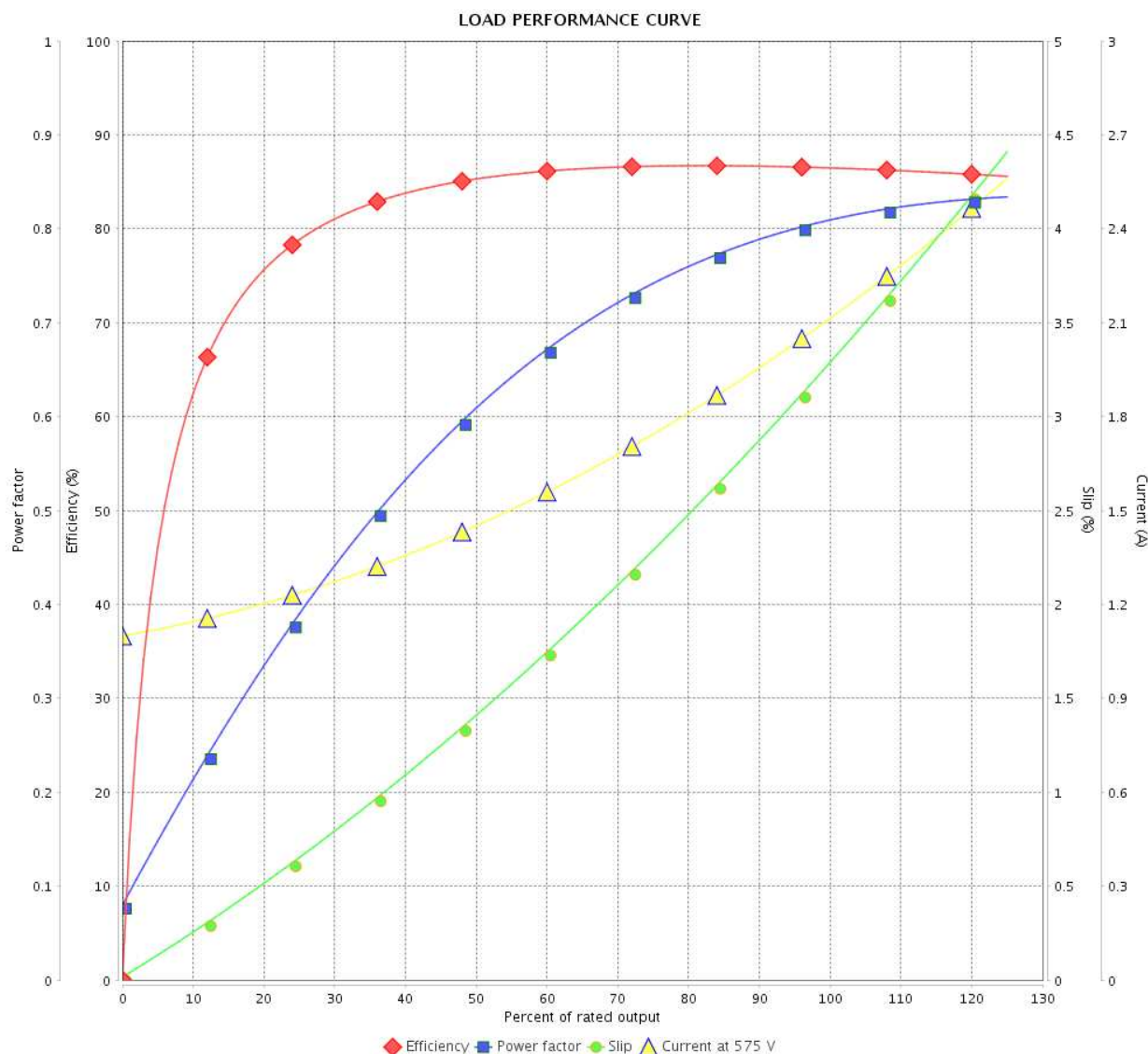
LOAD PERFORMANCE CURVE

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Customer :

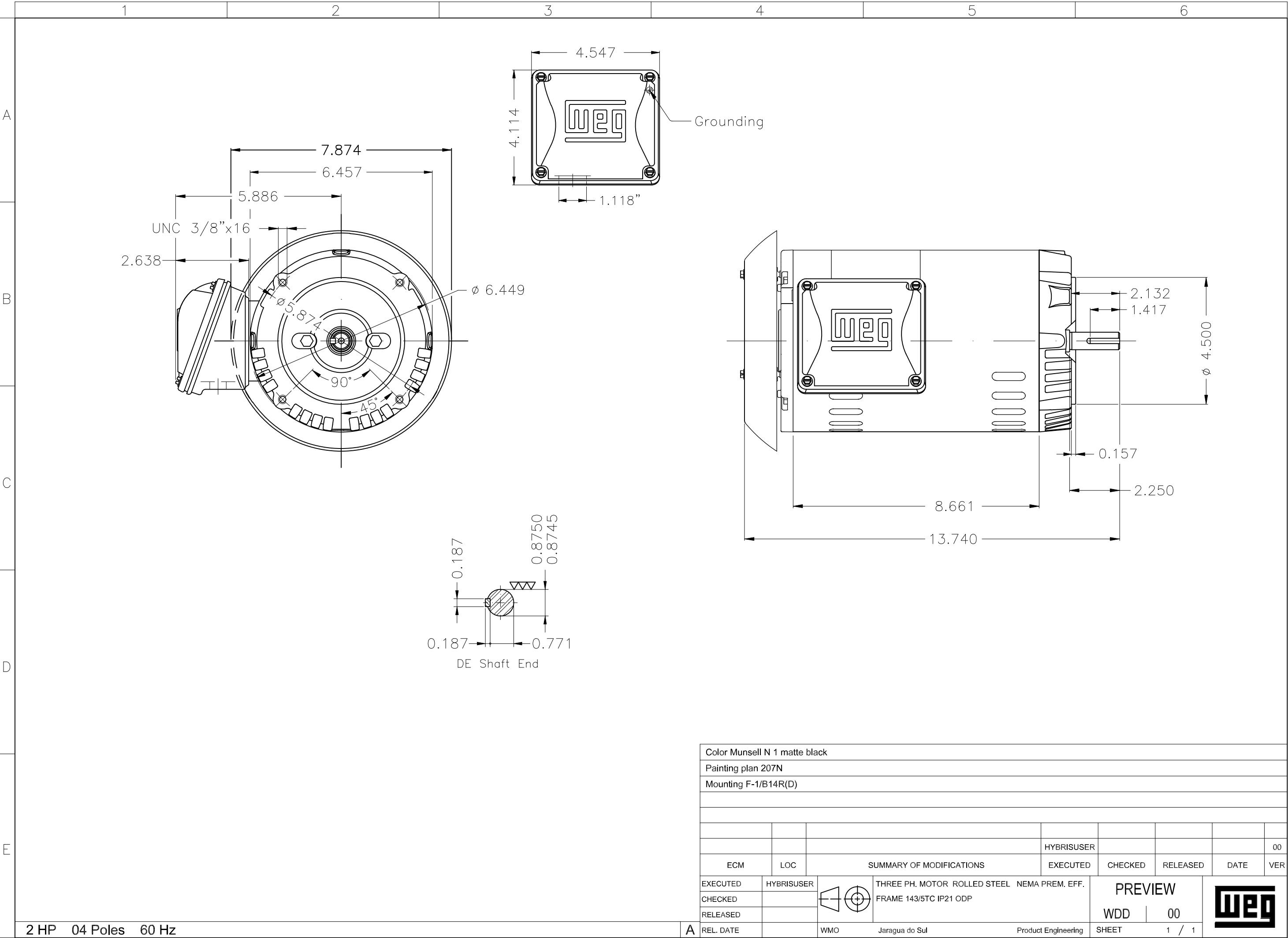
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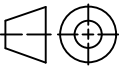


Performance : 575 V 60 Hz 4P

Rated current	: 2.15 A	Moment of inertia (J)	: 0.0049 kgm ²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.834 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2 Revision		
Checked by				
Date	17/05/2022			



Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
						HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER	 THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. FRAME 143/5TC IP21 ODP				PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			