

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Premium Efficiency Three-Phase	Product code : 14709259		
Frame	: 56C	Cooling method : IC411 - TEFC		
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 : 12.1 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0045 kgm ²		
Output [HP]		0.5		
Poles		6		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		0.781		
L. R. Amperes [A]		4.37		
LRC [A]		5.6x(Code K)		
No load current [A]		0.619		
Rated speed [RPM]		1160		
Slip [%]		3.33		
Rated torque [kgfm]		0.313		
Locked rotor torque [%]		240		
Breakdown torque [%]		330		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		46s (cold) 26s (hot)		
Noise level ²		50.0 dB(A)		
Efficiency (%)	25%			
	50%	68.0		
	75%	74.0		
	100%	75.5		
Power Factor	25%			
	50%	0.41		
	75%	0.53		
	100%	0.63		
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 27 kgf		
Lubrication interval	: - -	Max. compression : 39 kgf		
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

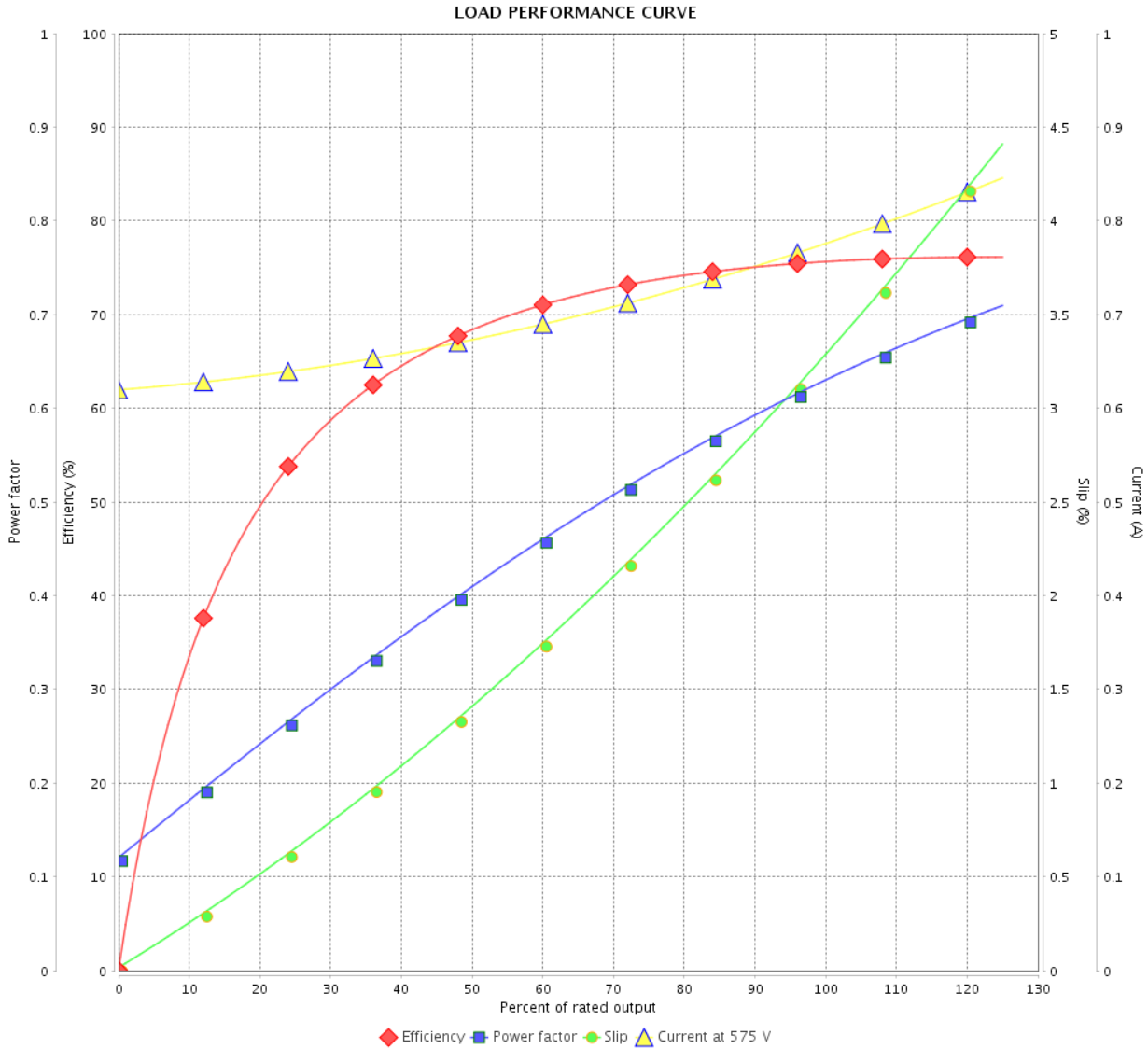
LOAD PERFORMANCE CURVE

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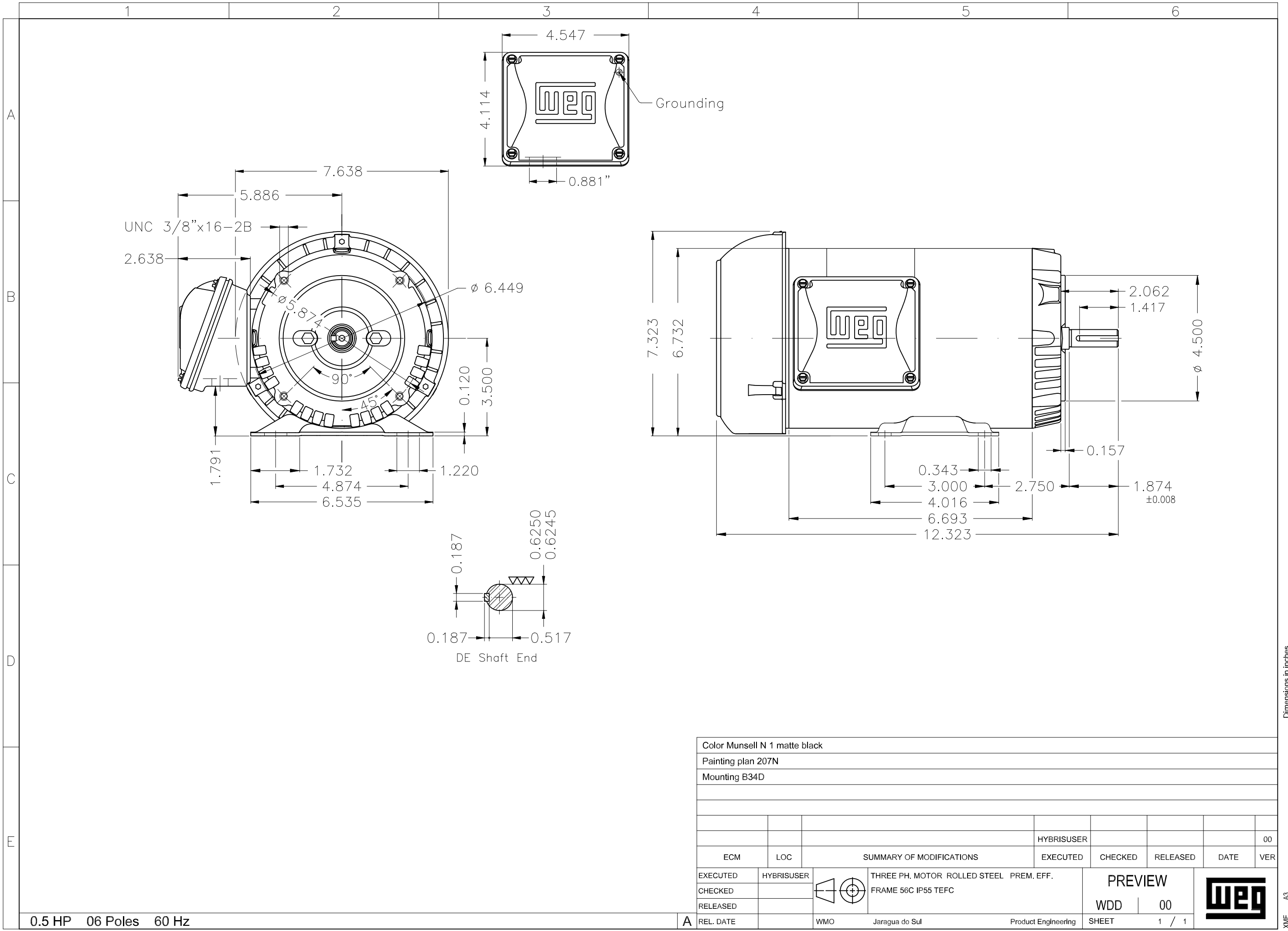



Performance : 575 V 60 Hz 6P

Rated current : 0.781 A
 LRC : 5.6
 Rated torque : 0.313 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 1160 rpm

Moment of inertia (J) : 0.0045 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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 B34D									
					HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW			
CHECKED		FRAME 56C IP55 TEFC				WDD	00		
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.5 HP 06 Poles 60 Hz

A