

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Single-Phase		Product code : 13420272		
Frame : W56C	Insulation class : F	Cooling method : IC01 - ODP	Mounting : F-1	
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation <sup>1</sup> : Both (CW and CCW)	Starting method : Direct On Line	
Altitude : 1000 m.a.s.l.	Design : N	Approx. weight <sup>3</sup> : 9.1 kg	Moment of inertia (J) : 0.0020 kgm <sup>2</sup>	
Output [HP]	0.5			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	8.24/4.56-4.12			
L. R. Amperes [A]	47.8/26.4-23.9			
LRC [A]	5.8x(Code M)			
No load current [A]	6.80/2.93-3.40			
Rated speed [RPM]	1735			
Slip [%]	3.61			
Rated torque [kgfm]	0.209			
Locked rotor torque [%]	320			
Breakdown torque [%]	270			
Service factor				
Temperature rise	80 K			
Locked rotor time	18s (cold) 10s (hot)			
Noise level <sup>2</sup>	50.0 dB(A)			
Efficiency (%)	25%			
	50%	54.0		
	75%	61.0		
	100%	63.0		
Power Factor	25%			
	50%	0.43		
	75%	0.53		
	100%	0.62		
Bearing type : 6203 ZZ	Drive end	Non drive end	Foundation loads	
Sealing : Without			Max. traction : 13 kgf	
	Bearing Seal	Bearing Seal	Max. compression : 22 kgf	
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			Page 1 / 2	Revision
Checked by				
Date	17/05/2022			

# LOAD PERFORMANCE CURVE

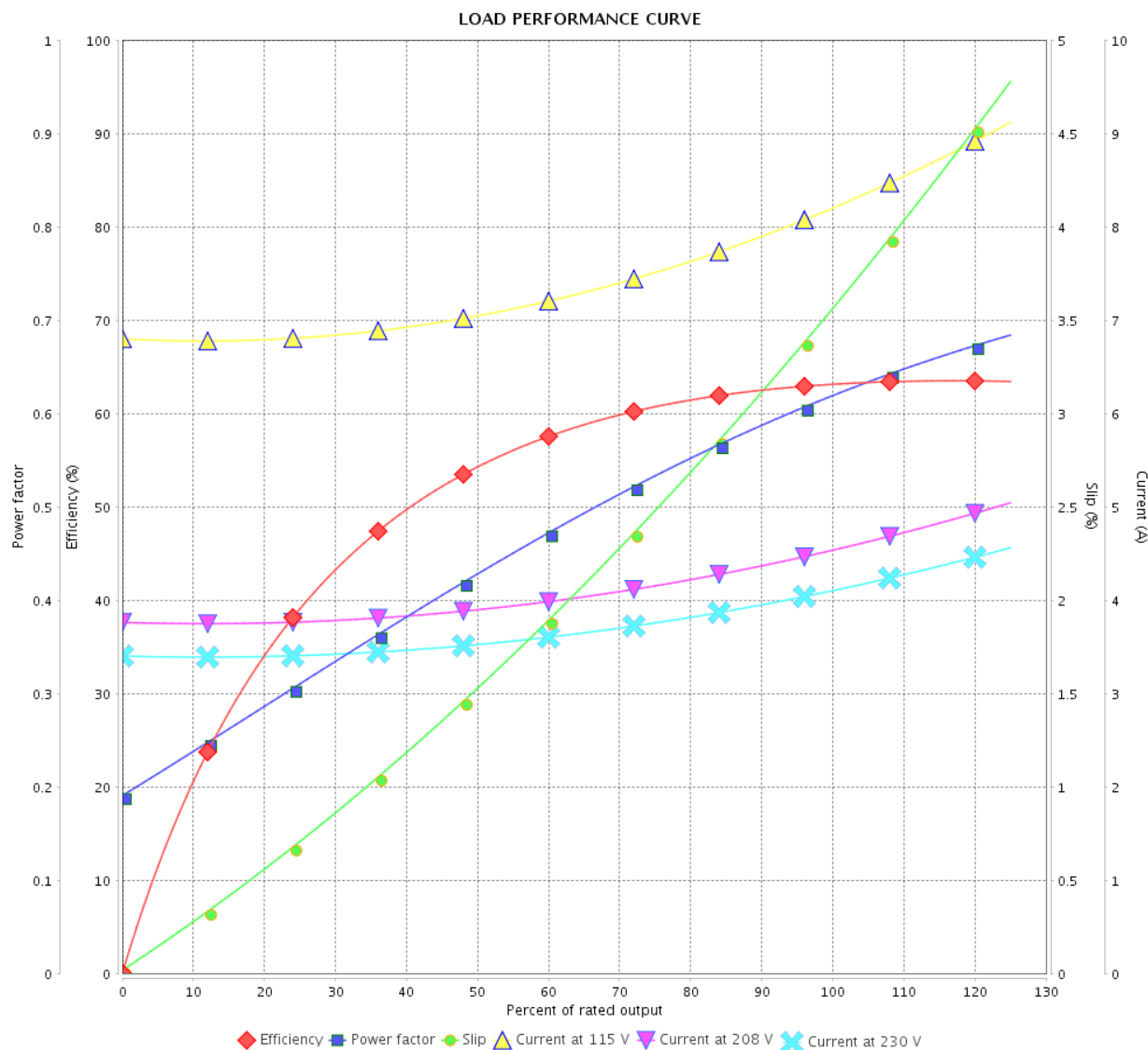
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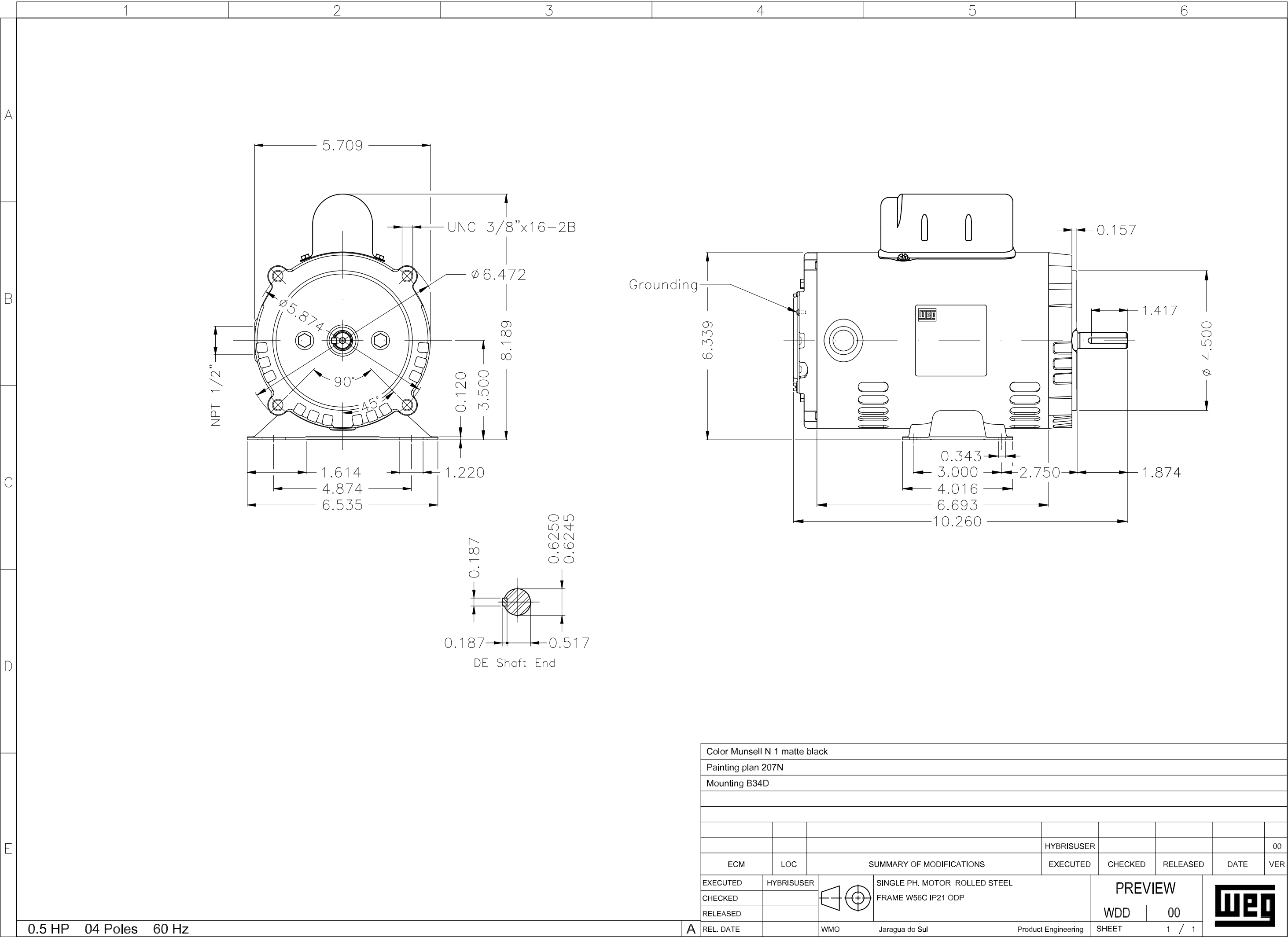




Performance : 115/208-230 V 60 Hz 4P

Rated current : 8.24/4.56-4.12 A  
 LRC : 5.8  
 Rated torque : 0.209 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 270 %  
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0020 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary		Performed	Checked	Date
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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		SINGLE PH. MOTOR ROLLED STEEL FRAME W56C IP21 ODP			PREVIEW  WDD   00			
CHECKED									
RELEASED									
REL. DATE									
		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			