

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 13420272		
Frame	: W56C	Cooling method : IC01 - ODP		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 9.1 kg		
Design	: N	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	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 13 kgf		
Lubrication interval	: - -	Max. compression : 22 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

Single Phase Induction Motor - Squirrel Cage

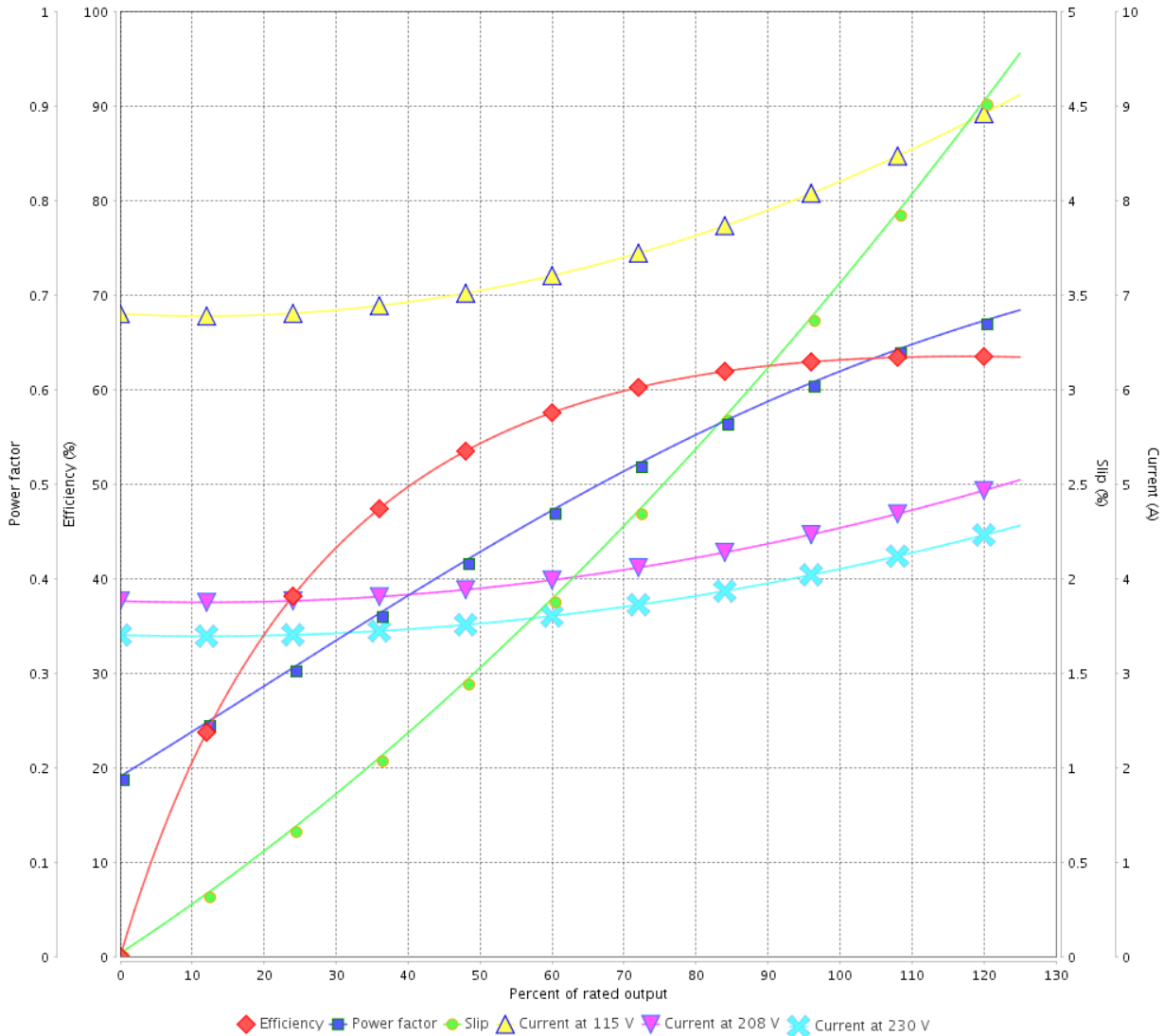


Customer :

Product line : Single-Phase

Product code : 13420272

LOAD PERFORMANCE CURVE



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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Date	17/05/2022			

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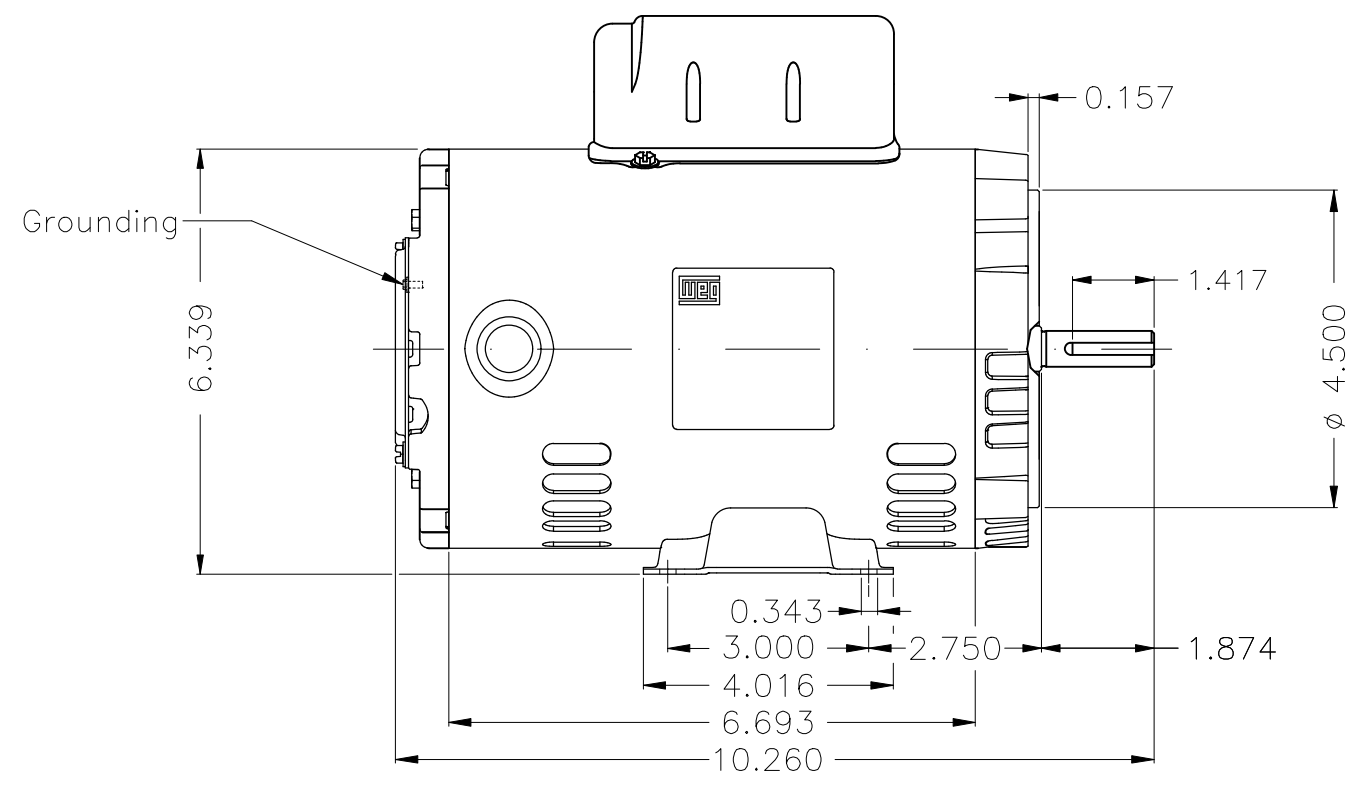
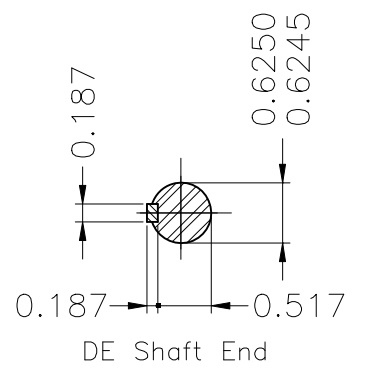
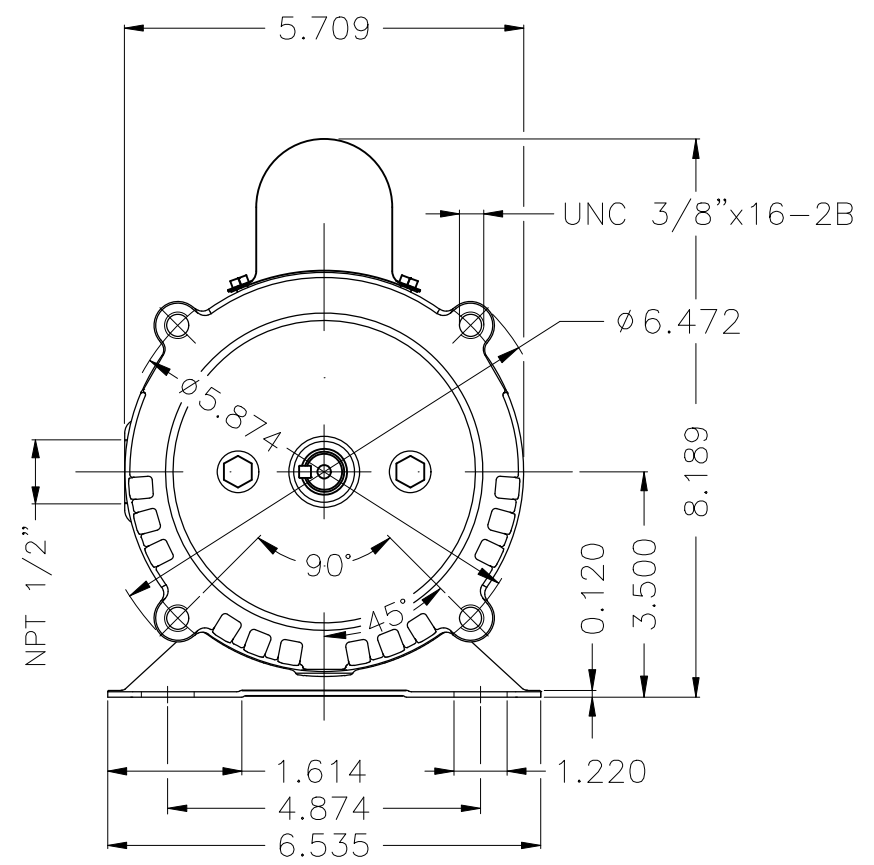
A


B

C

D

E



Color Munsell N 1 matte black					
Painting plan 207N					
Mounting B34D					
				HYBRISUSER	
ECM		LOC		SUMMARY OF MODIFICATIONS	
EXECUTED	HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE
CHECKED					
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	
SINGLE PH. MOTOR ROLLED STEEL FRAME W56C IP21 ODP				PREVIEW	
				WDD   00	
				SHEET 1 / 1	
					

0.5 HP 04 Poles 60 Hz

A