

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Single-Phase	Product code :	14371249		
Frame	: 56C	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	: 11.8 kg		
Design	: N	Moment of inertia (J)	: 0.0018 kgm ²		
Output [HP]	0.75				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	6.80/3.76-3.40				
L. R. Amperes [A]	58.5/32.3-29.2				
LRC [A]	8.6x(Code K)				
No load current [A]	2.40/1.03-1.20				
Rated speed [RPM]	3510				
Slip [%]	2.50				
Rated torque [kgfm]	0.155				
Locked rotor torque [%]	300				
Breakdown torque [%]	300				
Service factor					
Temperature rise	80 K				
Locked rotor time	32s (cold) 18s (hot)				
Noise level ²	58.0 dB(A)				
Efficiency (%)	25%				
	50%	64.0			
	75%	71.0			
	100%	76.2			
Power Factor	25%				
	50%	0.88			
	75%	0.92			
	100%	0.93			
Bearing type	: <u>Drive end</u> 6203 ZZ	<u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 9 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 20 kgf	
Lubrication interval	: -	-			
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

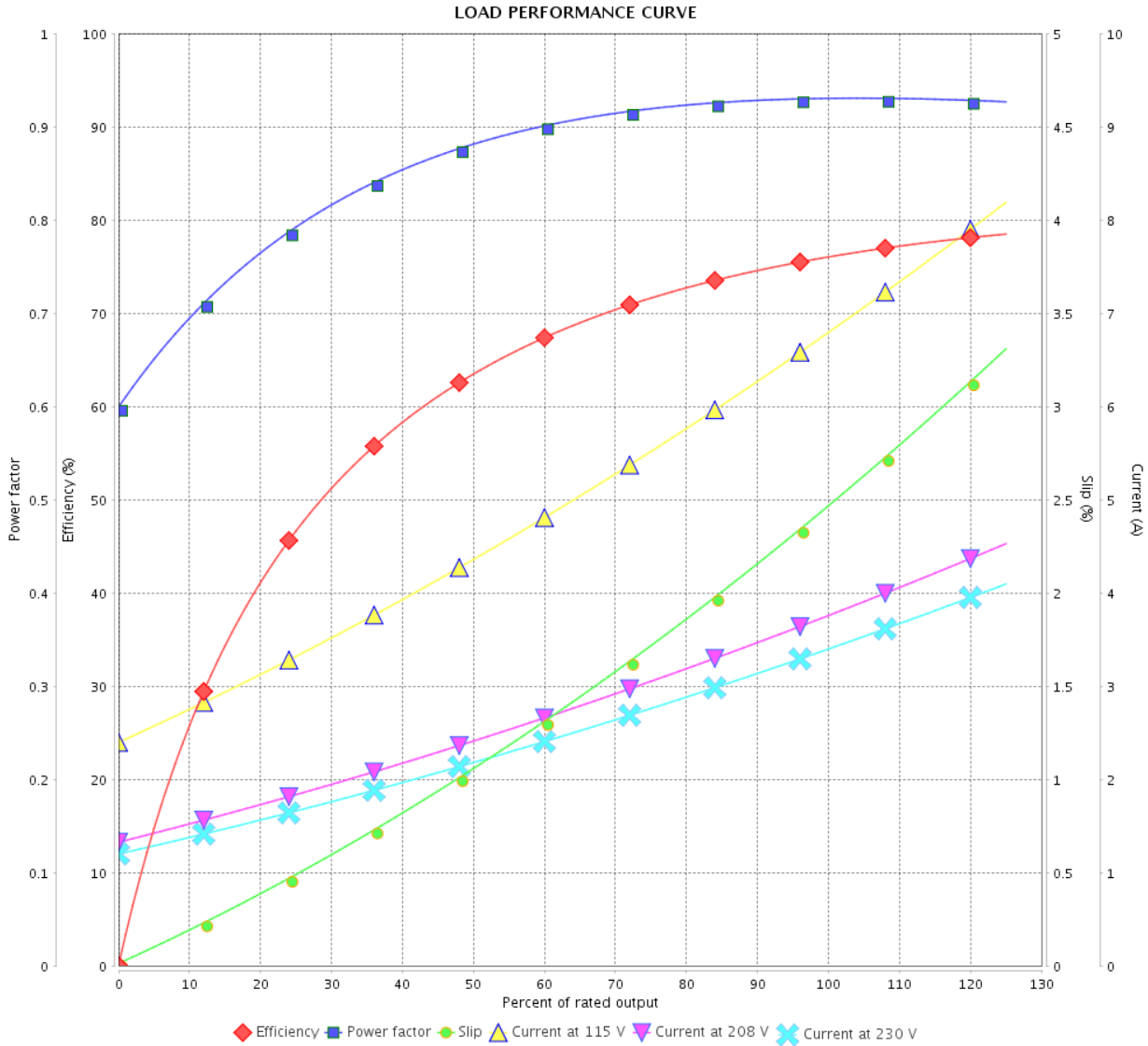
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 14371249



Performance : 115/208-230 V 60 Hz 2P

Rated current : 6.80/3.76-3.40 A
 LRC : 8.6
 Rated torque : 0.155 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 300 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0018 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

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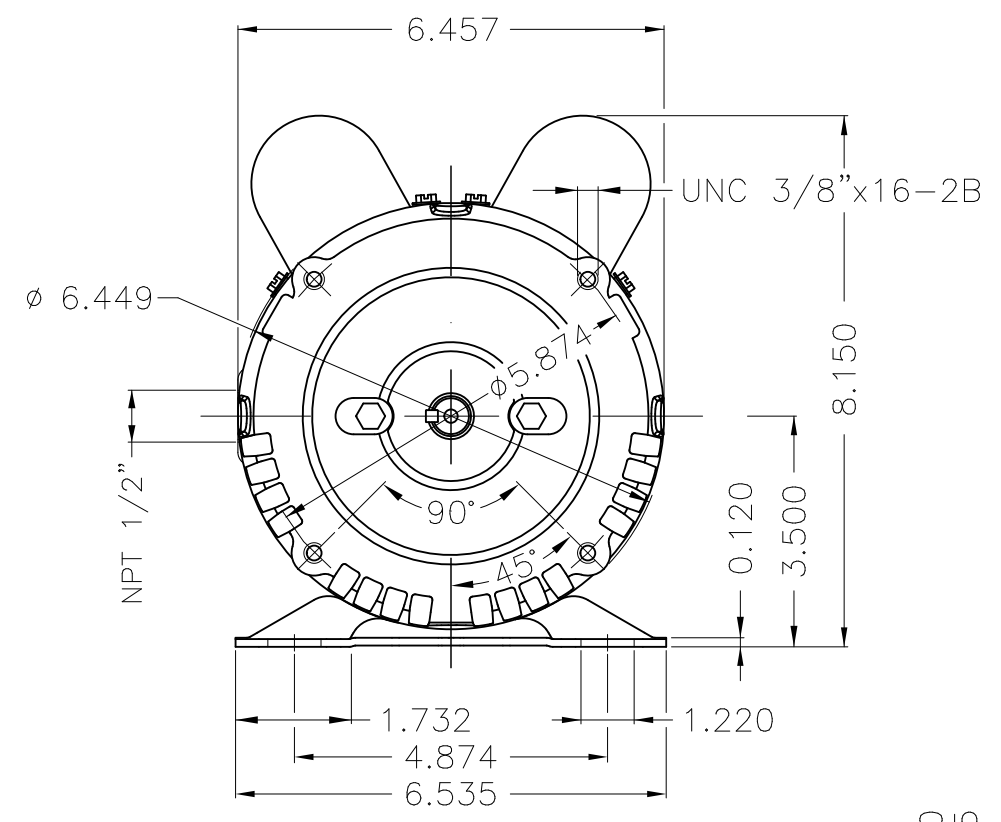
A

B

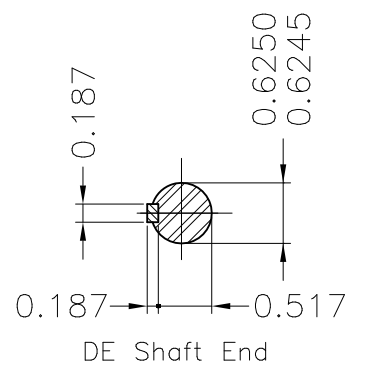
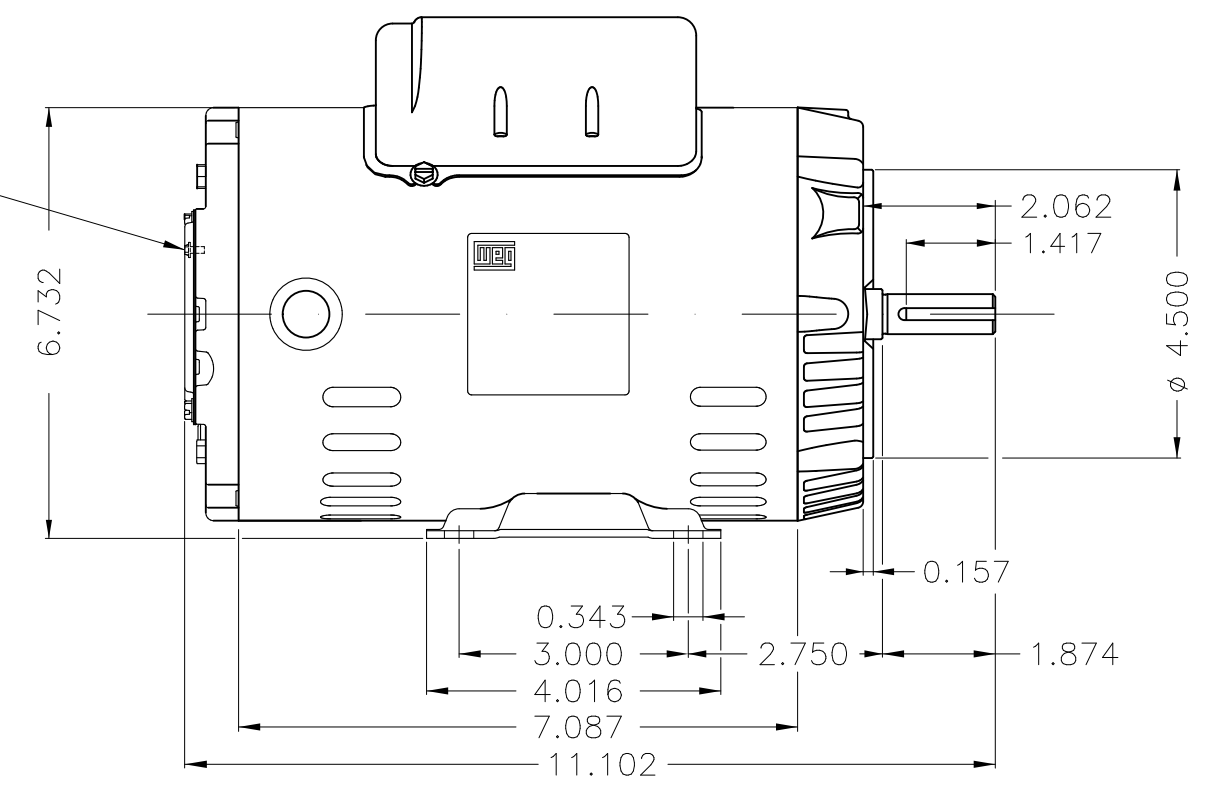
C

D


E



Grounding



Dimensions in inches

Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B34R(D)						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL PREM. EFF.		PREVIEW		
CHECKED		FRAME 56C IP21 ODP		WDD 00		
RELEASED				SHEET 1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering		

0.75 HP 02 Poles 60 Hz

A

XME A3