

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Single-Phase	Product code :	13724247		
Frame	: 56H	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>	: 24.8 kg		
Design	: L	Moment of inertia (J)	: 0.0068 kgm <sup>2</sup>		
Output [HP]	2				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	17.7/9.50-8.87				
L. R. Amperes [A]	115/61.7-57.7				
LRC [A]	6.5x(Code H)				
No load current [A]	6.20/2.67-3.10				
Rated speed [RPM]	1730				
Slip [%]	3.89				
Rated torque [kgfm]	0.839				
Locked rotor torque [%]	290				
Breakdown torque [%]	225				
Service factor					
Temperature rise	80 K				
Locked rotor time	32s (cold) 18s (hot)				
Noise level <sup>2</sup>	52.0 dB(A)				
Efficiency (%)	25%				
	50%	83.0			
	75%	84.0			
	100%	84.5			
Power Factor	25%				
	50%	0.75			
	75%	0.83			
	100%	0.87			
Bearing type	: Drive end	Non drive end	Foundation loads		
Sealing	: Without	Without	Max. traction	: 47 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 72 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

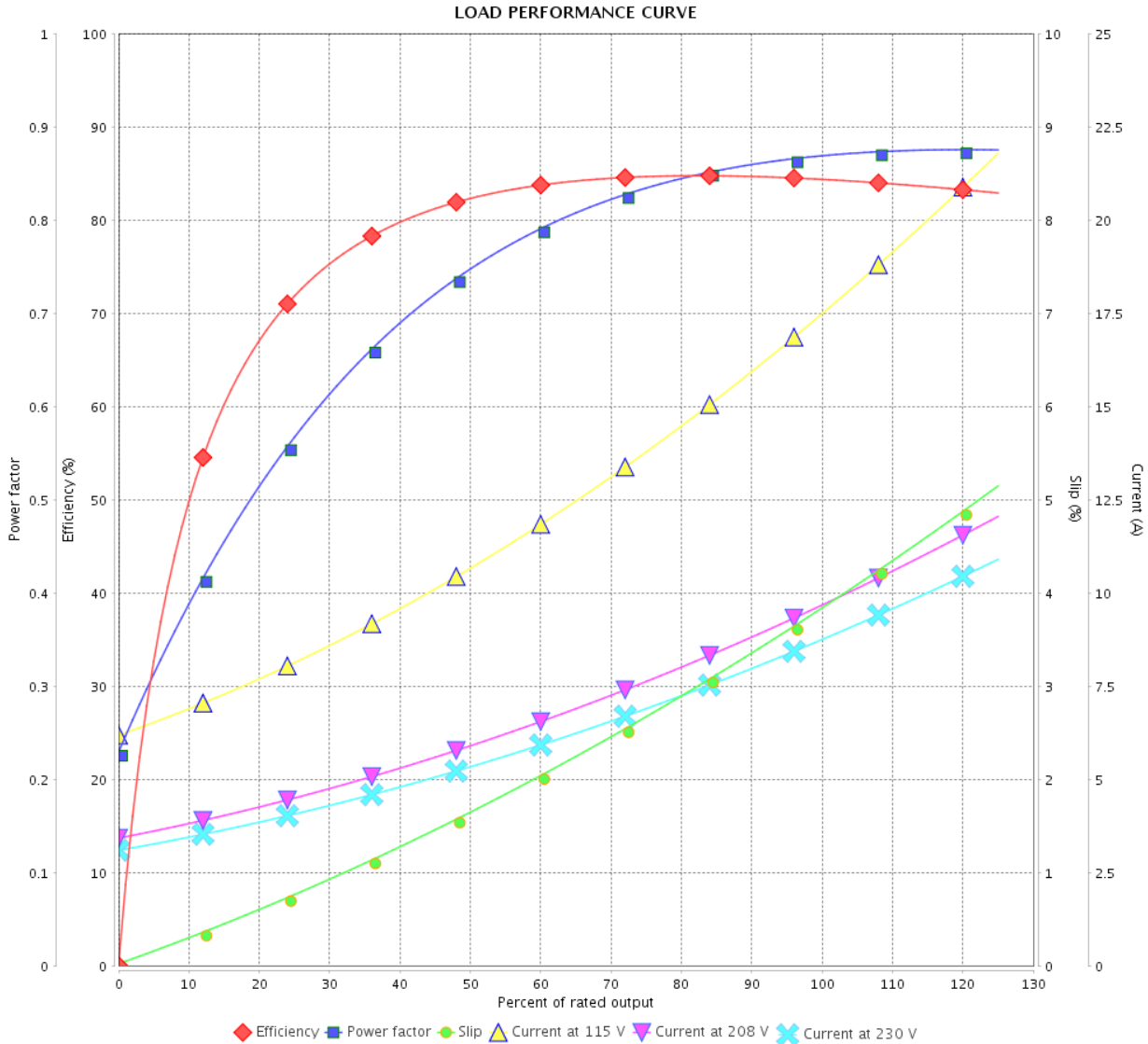
Single Phase Induction Motor - Squirrel Cage



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Product code : 13724247

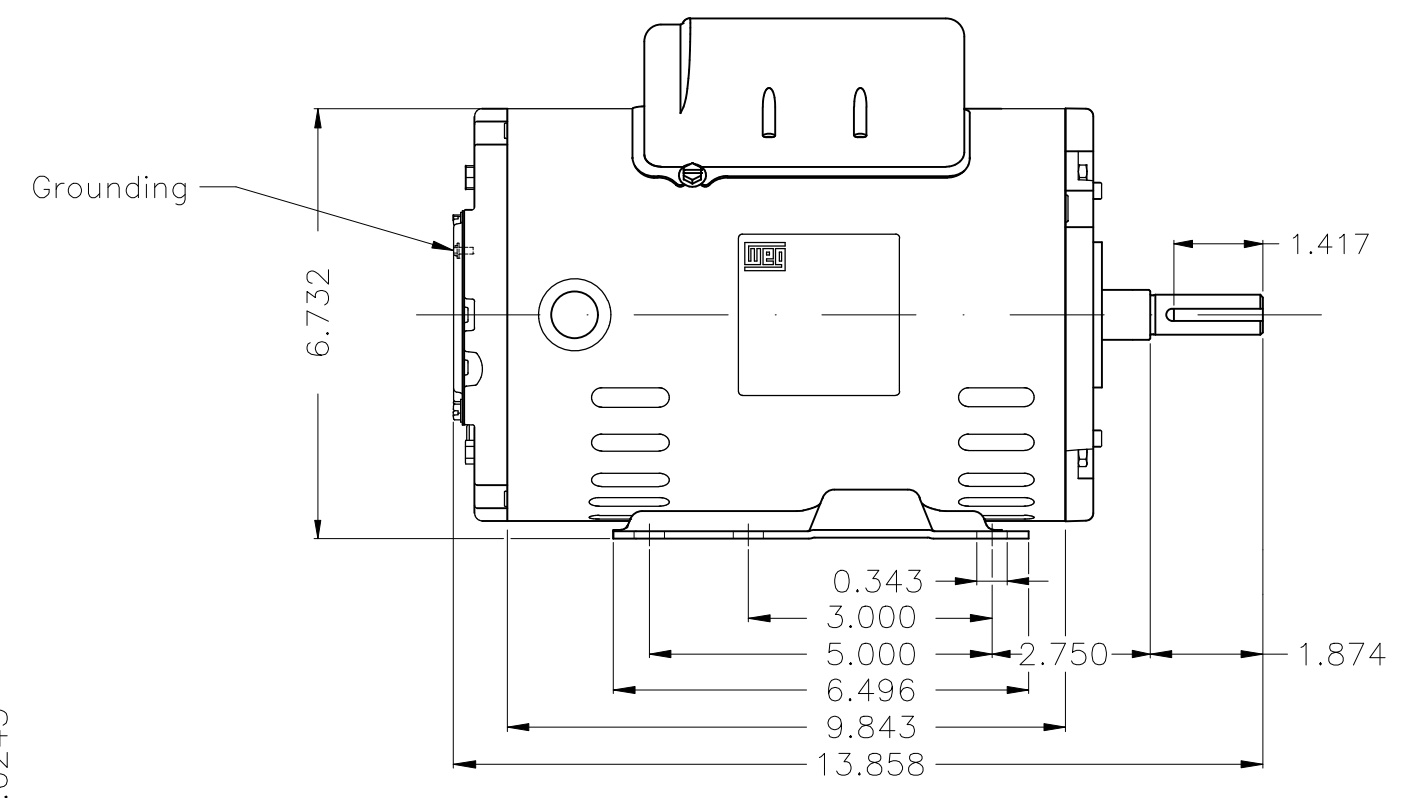
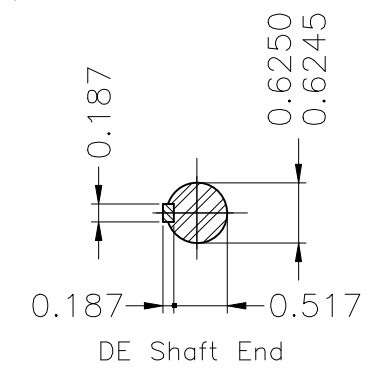
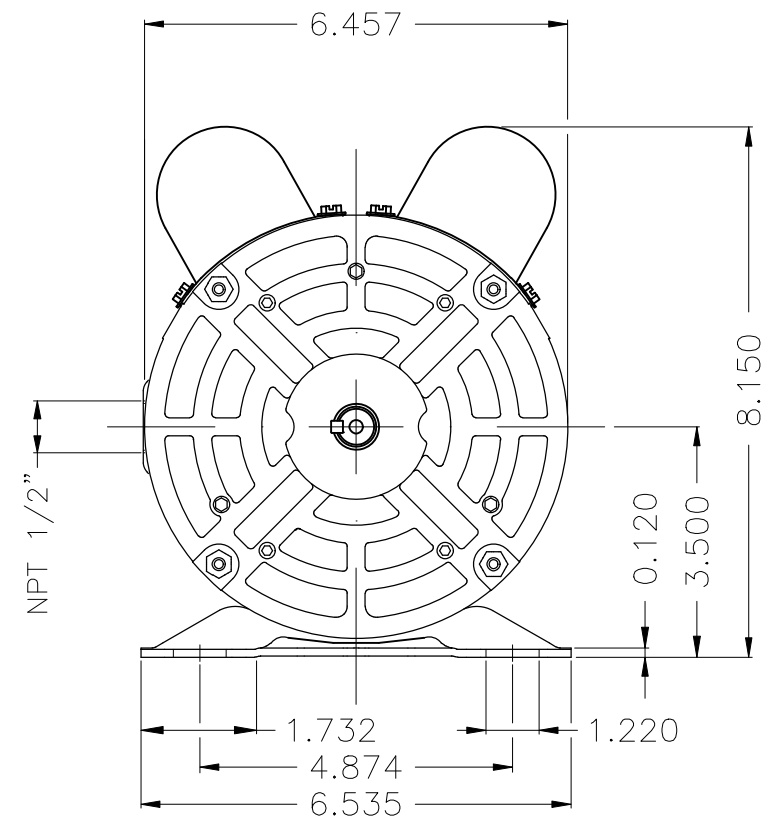


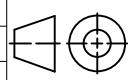

Performance : 115/208-230 V 60 Hz 4P

Rated current : 17.7/9.50-8.87 A  
 LRC : 6.5  
 Rated torque : 0.839 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 225 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0068 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

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/B3R(D)					
				HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED DATE VER
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56H IP21 ODP	<b>PREVIEW</b> WDD   00		
CHECKED					
RELEASED			SHEET 1 / 1		
REL. DATE	WMO	Jaragua do Sul	Product Engineering		

2 HP 04 Poles 60 Hz