

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Single-Phase	Product code	: 14611244		
Frame	: 56HC	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>	: 25.0 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	: 48 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 73 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	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			1 / 2	

# LOAD PERFORMANCE CURVE

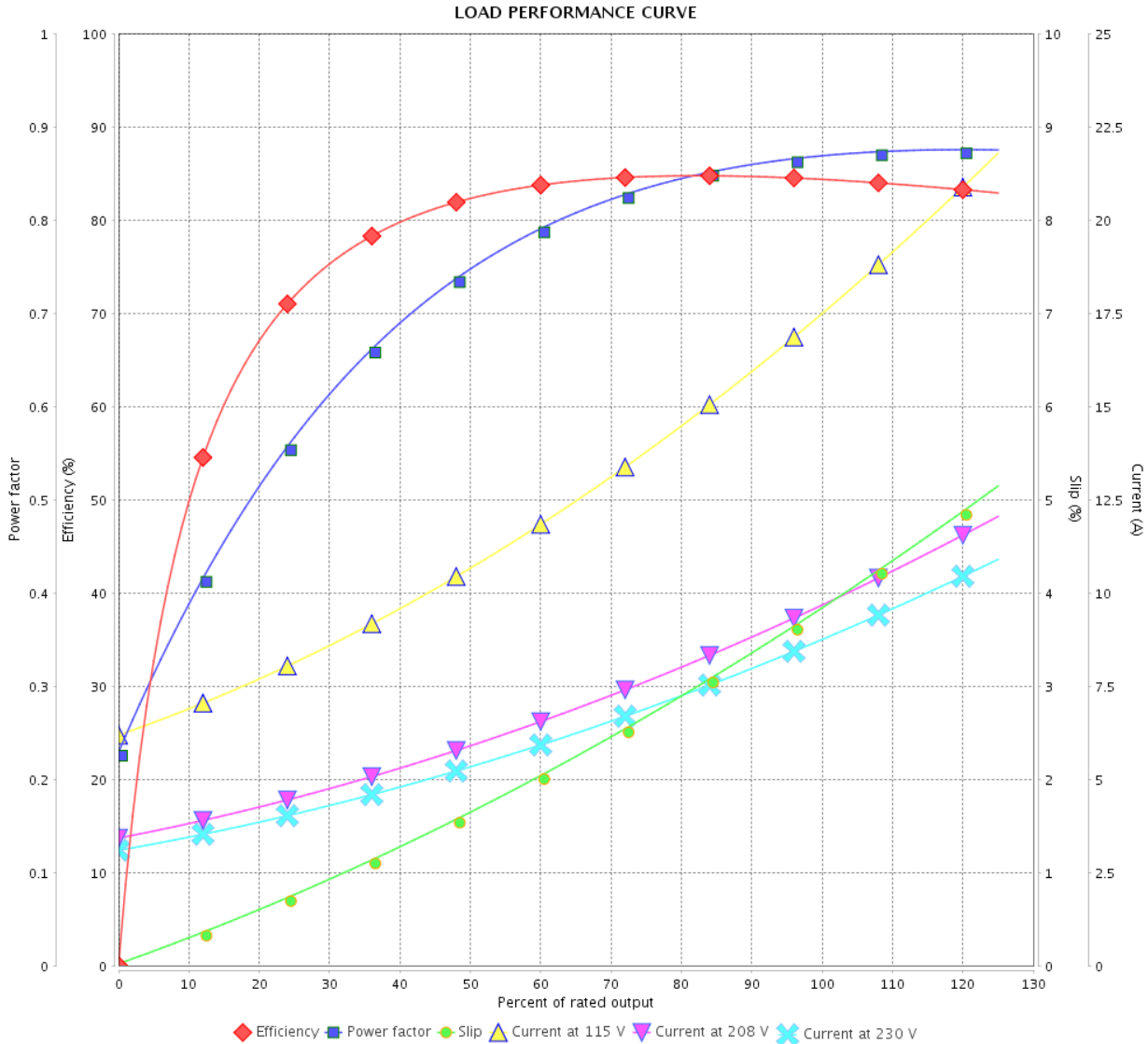
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 14611244



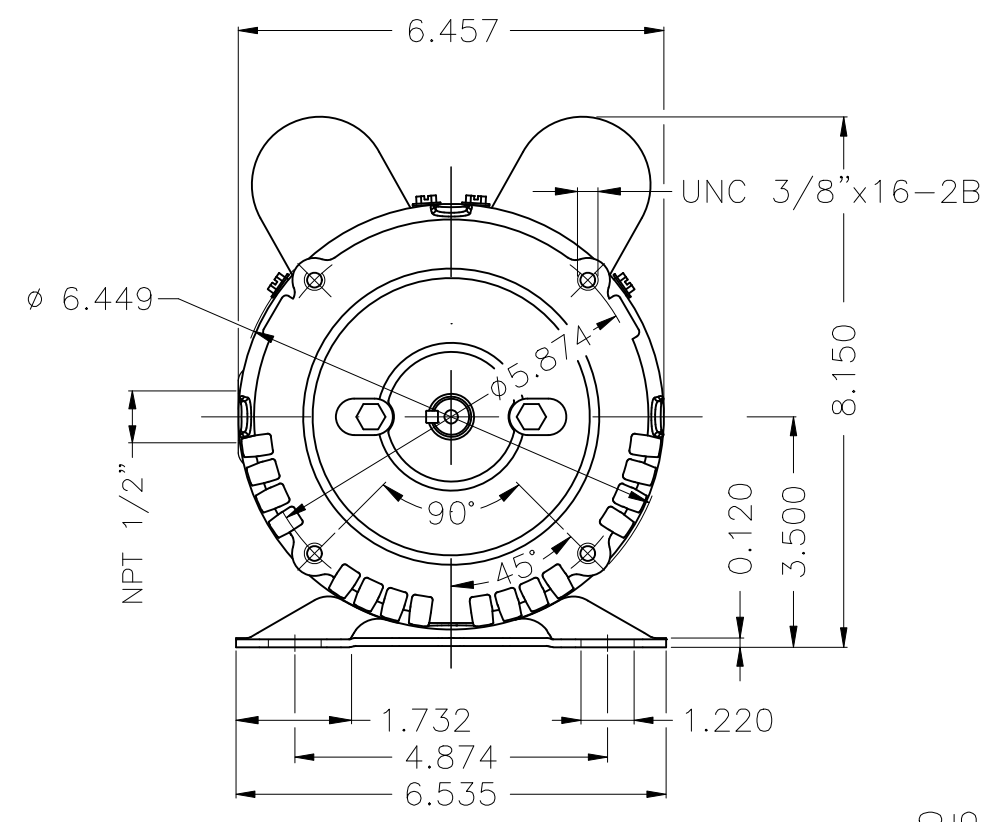
Performance : 115/208-230 V 60 Hz 4P

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

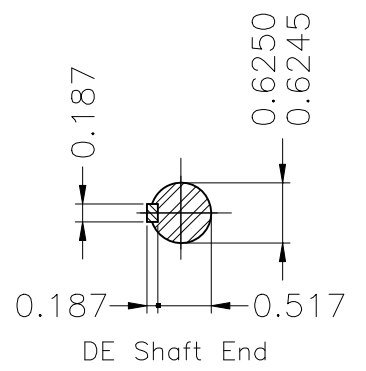
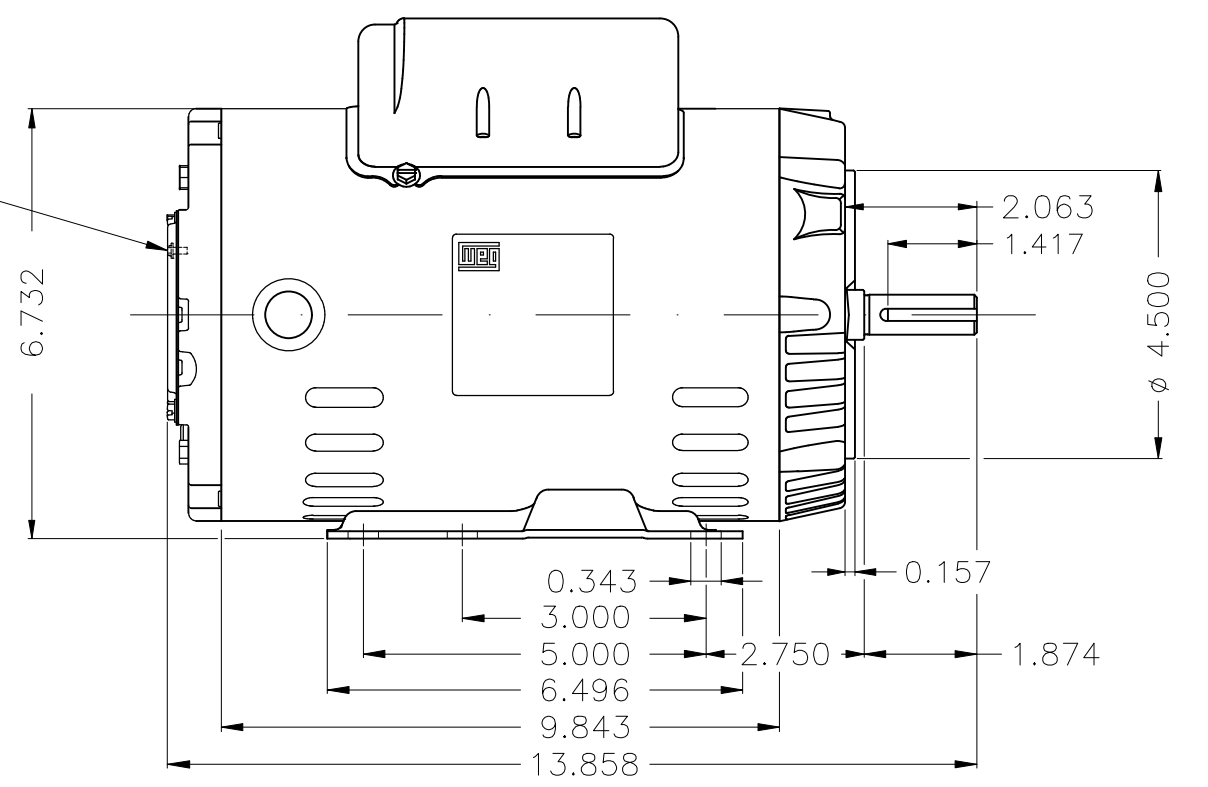
Moment of inertia (J) : 0.0068 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

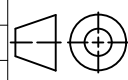
Rev.	Changes Summary	Performed	Checked	Date
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A  
B  
C  
D  
E



Grounding



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 PREM. EFF. FRAME 56HC IP21 ODP			
CHECKED					
RELEASED					
REL. DATE	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1	

2 HP 04 Poles 60 Hz

A

PREVIEW  
WDD 00

