

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Single-Phase	Product code : 13638771			
Frame : 56HC Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : L	Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ³ : 23.9 kg Moment of inertia (J) : 0.0068 kgm ²			
Output [HP]	2			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	20.0/11.1-10.0			
L. R. Amperes [A]	160/88.8-80.0			
LRC [A]	8.0x(Code L)			
No load current [A]	12.2/5.26-6.10			
Rated speed [RPM]	1745			
Slip [%]	3.06			
Rated torque [kgfm]	0.832			
Locked rotor torque [%]	260			
Breakdown torque [%]	260			
Service factor				
Temperature rise	80 K			
Locked rotor time	10s (cold) 6s (hot)			
Noise level ²	54.0 dB(A)			
Efficiency (%)	25%			
	50%	70.0		
	75%	76.0		
	100%	78.5		
Power Factor	25%			
	50%	0.66		
	75%	0.76		
	100%	0.82		
Bearing type : <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 56 kgf Max. compression : 80 kgf			
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	13/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

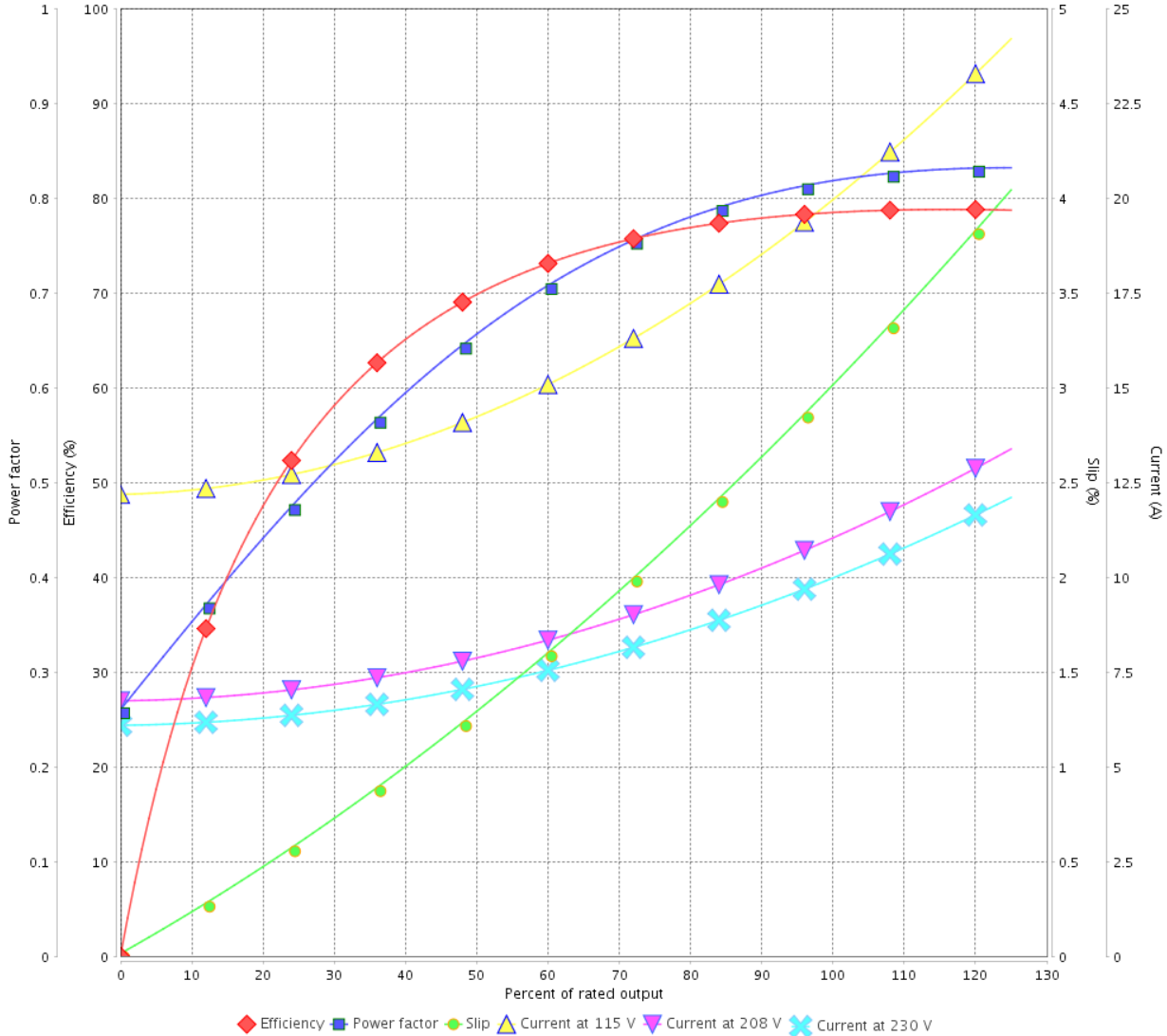


Customer :

Product line : Single-Phase

Product code : 13638771

LOAD PERFORMANCE CURVE



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

Rated current : 20.0/11.1-10.0 A
 LRC : 8.0
 Rated torque : 0.832 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 260 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0068 kgm²
 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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Date	13/05/2022			

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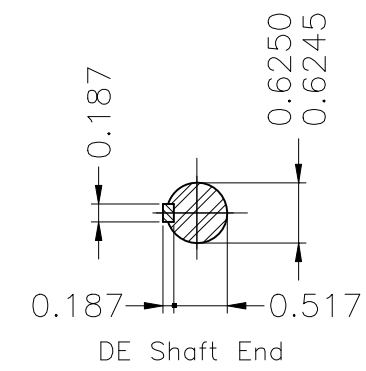
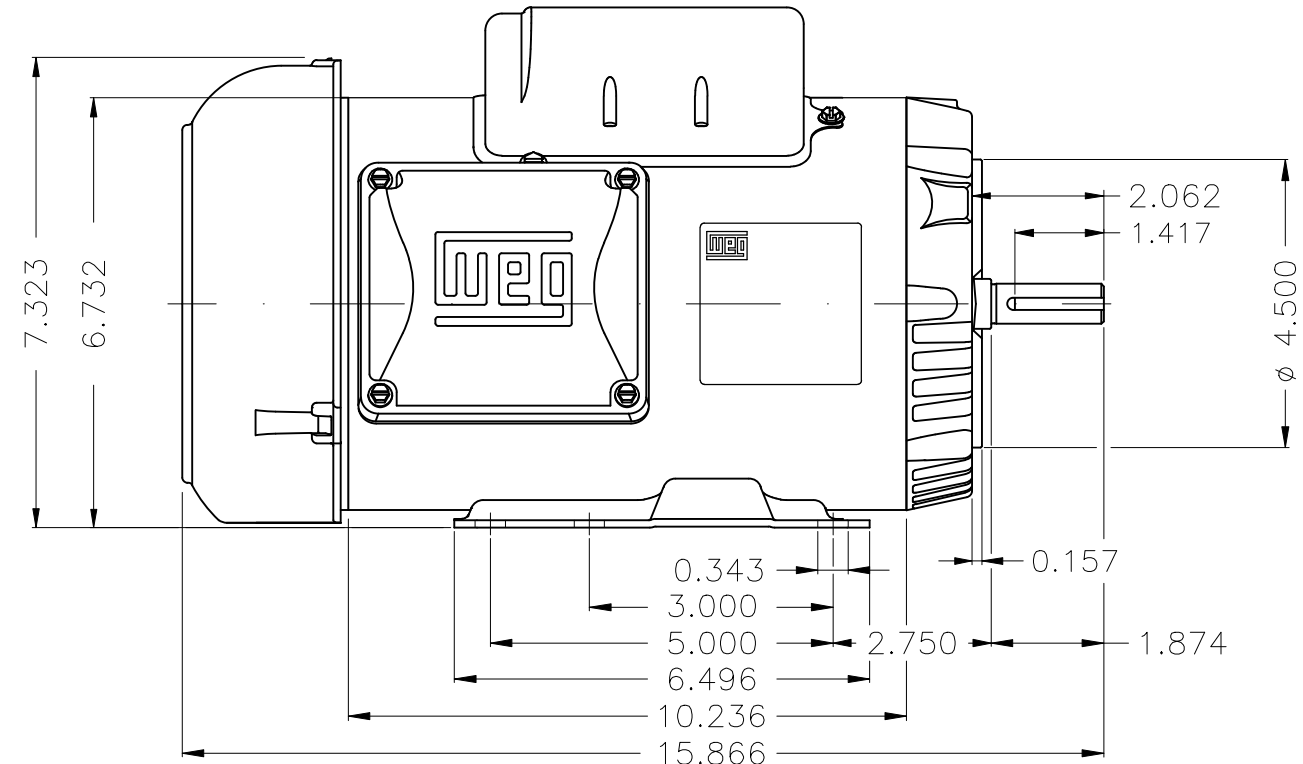
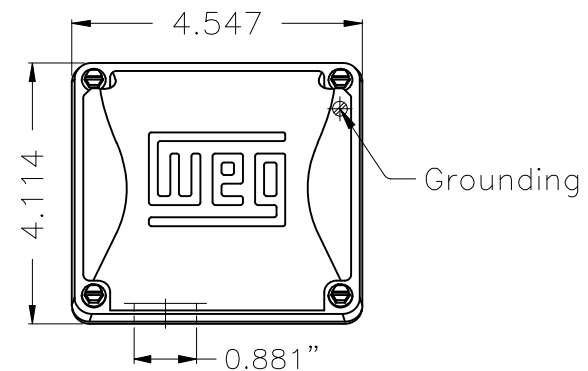
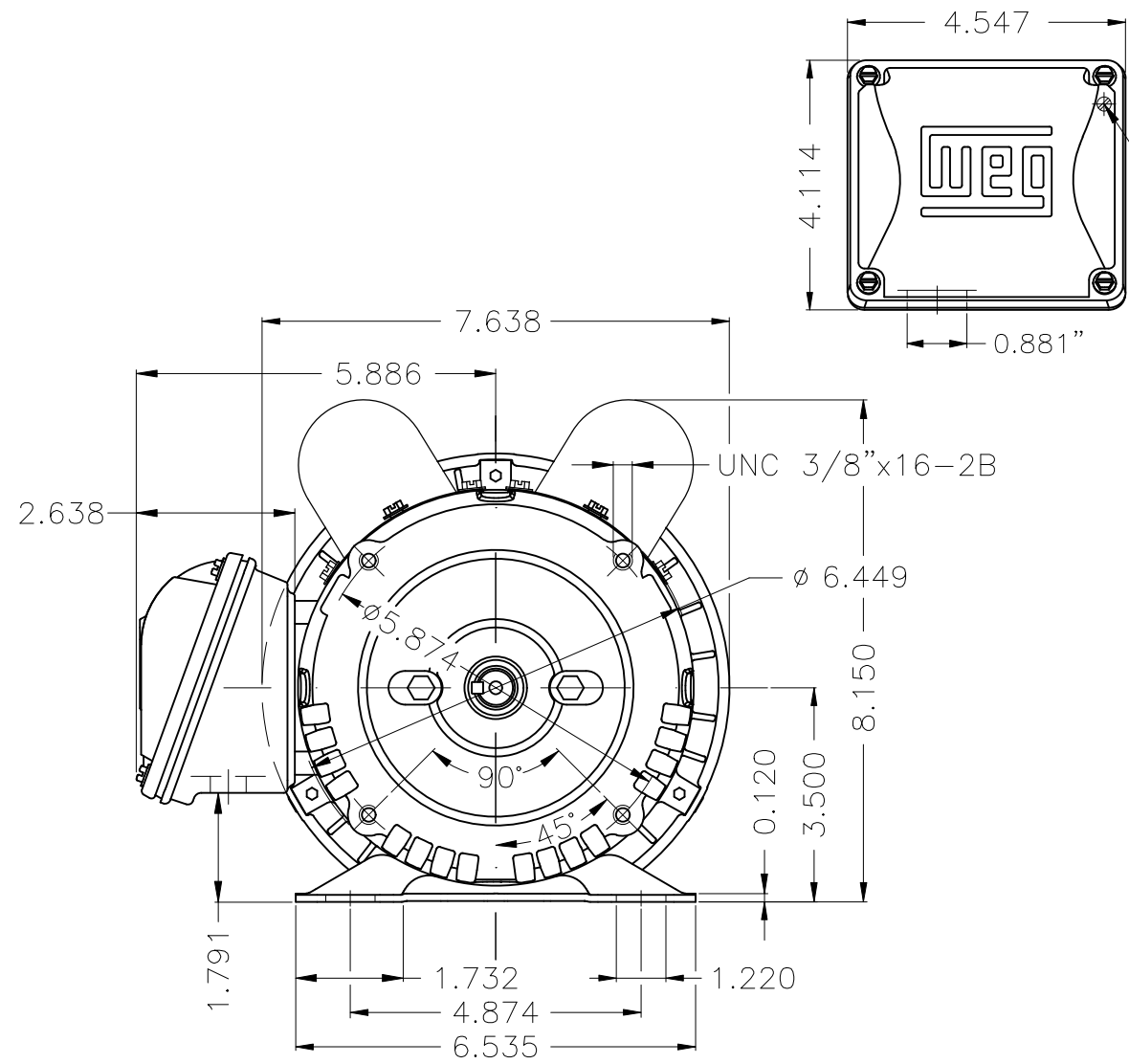
A

B


C

D

E



Color Munsell N 1 matte black
 Painting plan 207N
 Mounting B34D

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL FRAME 56HC IP55 TEFC					
CHECKED							
RELEASED							

HYBRISUSER					00
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2 HP 04 Poles 60 Hz

A REL. DATE WMO Jaragua do Sul Product Engineering SHEET 1 / 1

PREVIEW
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