

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Standard Efficiency Three-Phase	Product code : 12894767		
Frame	: 56HC	Cooling method : IC411 - TEFC		
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 : 15.1 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0044 kgm ²		
Design	: A			
Output [HP]		1.5		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		1.78		
L. R. Amperes [A]		13.4		
LRC [A]		7.5x(Code K)		
No load current [A]		1.20		
Rated speed [RPM]		1750		
Slip [%]		2.78		
Rated torque [kgfm]		0.622		
Locked rotor torque [%]		250		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		16s (cold) 9s (hot)		
Noise level ²		52.0 dB(A)		
Efficiency (%)	25%	75.4		
	50%	77.0		
	75%	80.0		
	100%	81.5		
Power Factor	25%	0.30		
	50%	0.54		
	75%	0.67		
	100%	0.76		
Bearing type	: Drive end : 6204 ZZ Non drive end : 6202 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 52 kgf		
Lubrication interval	: - -	Max. compression : 67 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	13/05/2022		1 / 2	

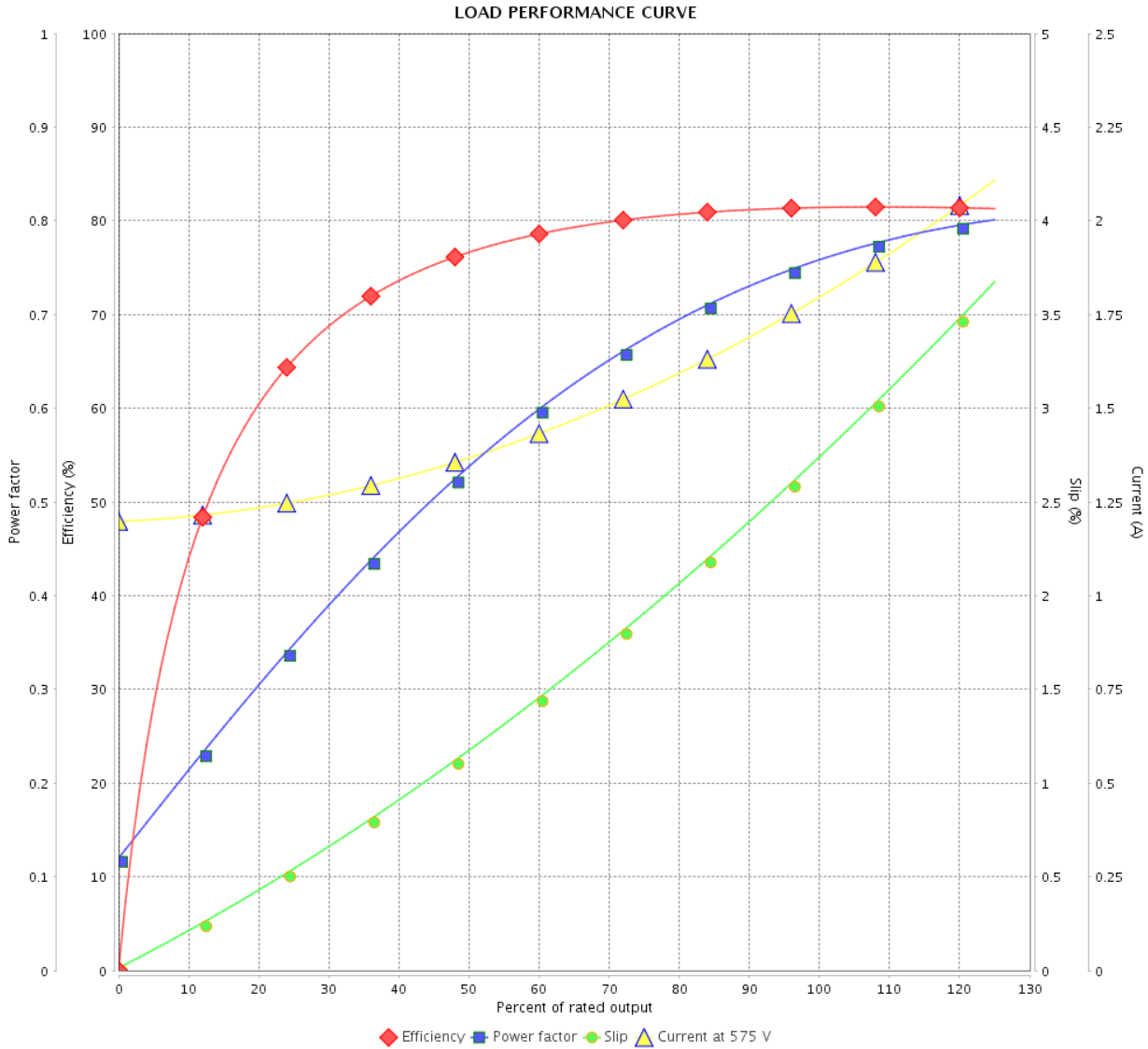
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12894767



Performance : 575 V 60 Hz 4P

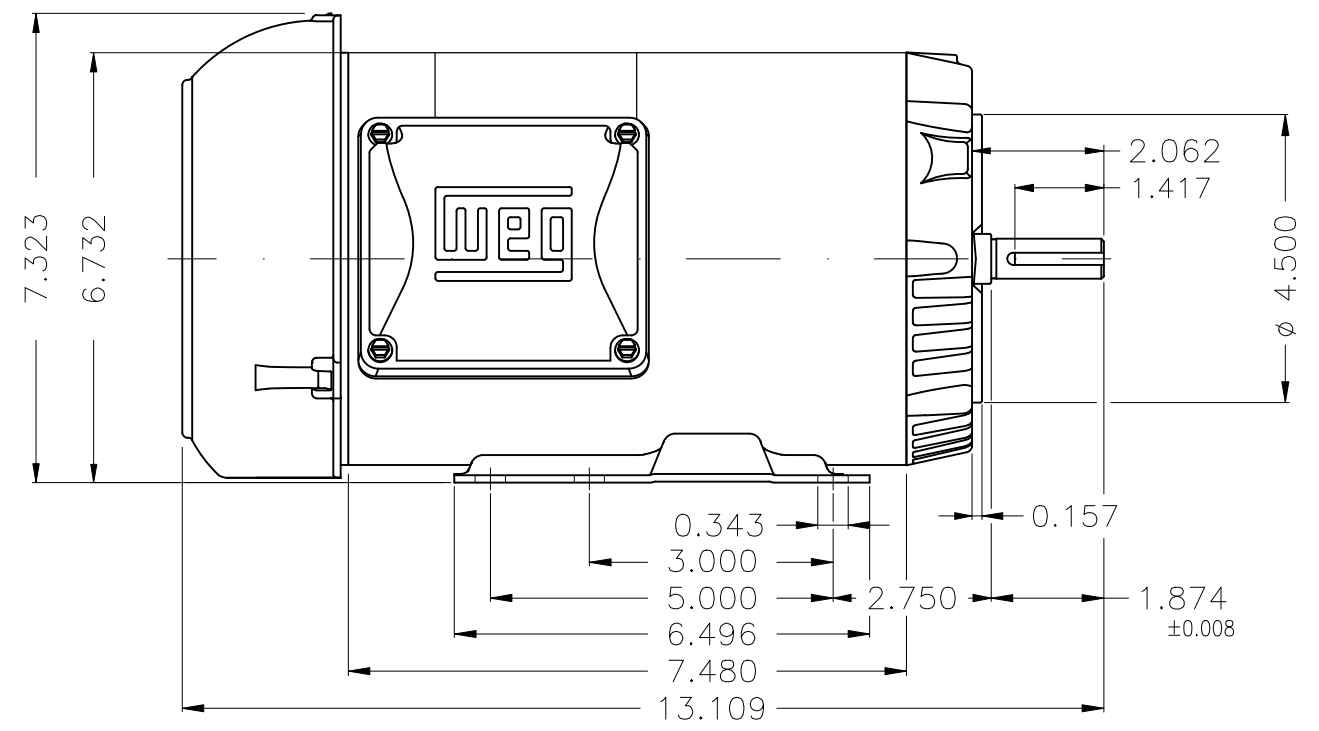
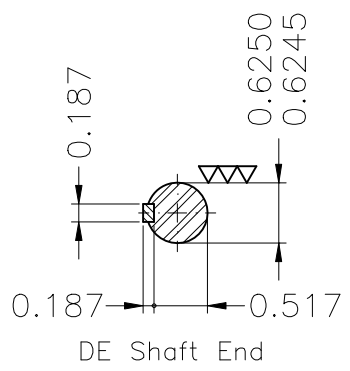
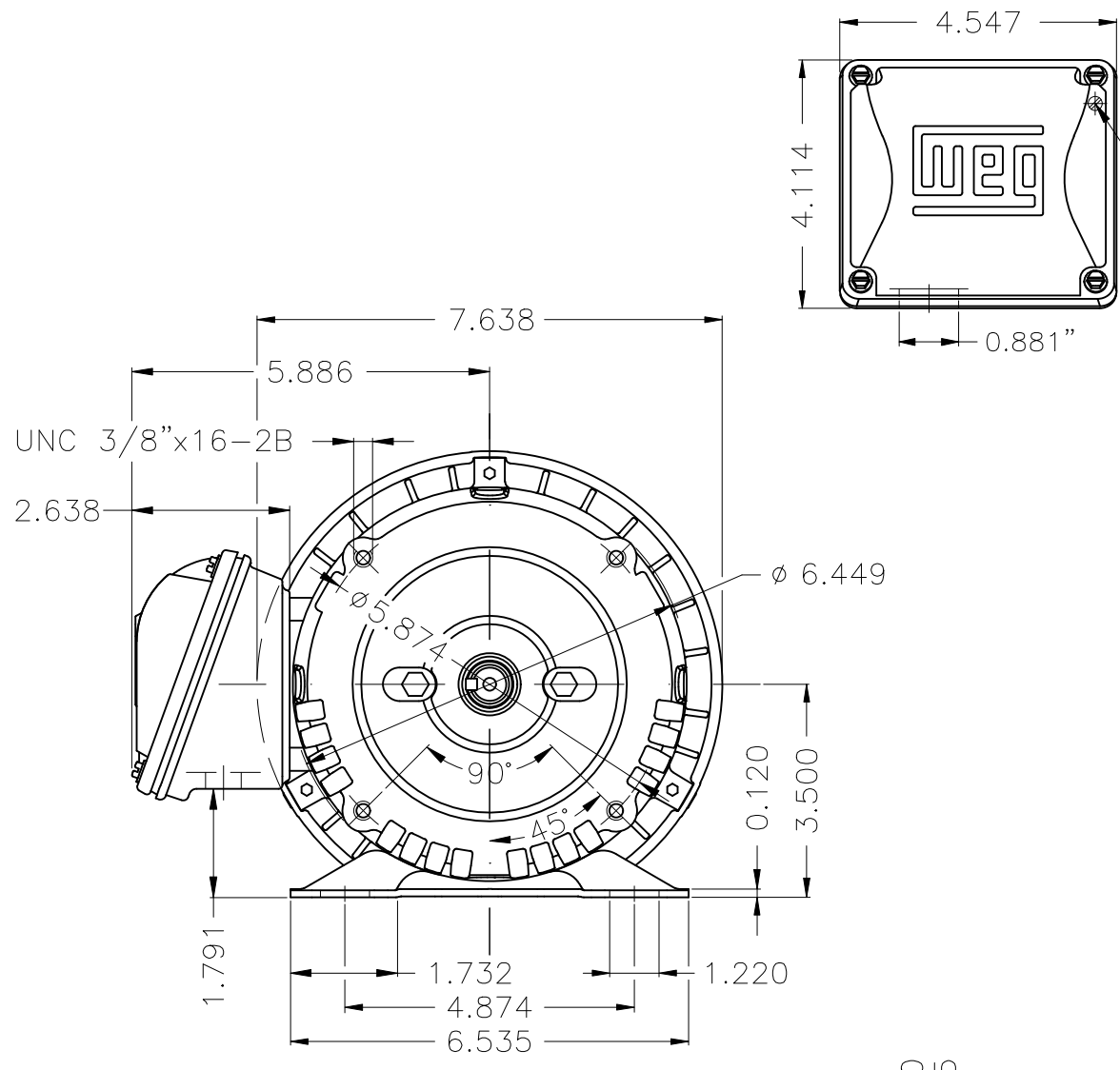
Rated current : 1.78 A
 LRC : 7.5
 Rated torque : 0.622 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

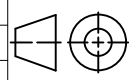

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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1 2 3 4 5 6

A
B
C
D
E



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	THREE PH. MOTOR ROLLED STEEL						PREVIEW			
CHECKED		FRAME 56HC IP55 TEFC						WDD	00		
RELEASED								SHEET	1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering							

1.5 HP 04 Poles 60 Hz

A