

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Three-Phase	Product code	: 13997238		
Frame	: 56HC	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	: 16.3 kg		
Design	: A	Moment of inertia (J)	: 0.0049 kgm ²		
Output [HP]	2				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	1.94				
L. R. Amperes [A]	17.2				
LRC [A]	8.9x(Code K)				
No load current [A]	0.734				
Rated speed [RPM]	3510				
Slip [%]	2.50				
Rated torque [kgfm]	0.414				
Locked rotor torque [%]	220				
Breakdown torque [%]	330				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	25s (cold) 14s (hot)				
Noise level ²	62.0 dB(A)				
Efficiency (%)	25%				
	50%	84.0			
	75%	85.5			
	100%	85.5			
Power Factor	25%				
	50%	0.77			
	75%	0.86			
	100%	0.91			
Bearing type	: <u>Drive end</u> 6204 ZZ	<u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 35 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 52 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	11/05/2022			1 / 2	

LOAD PERFORMANCE CURVE

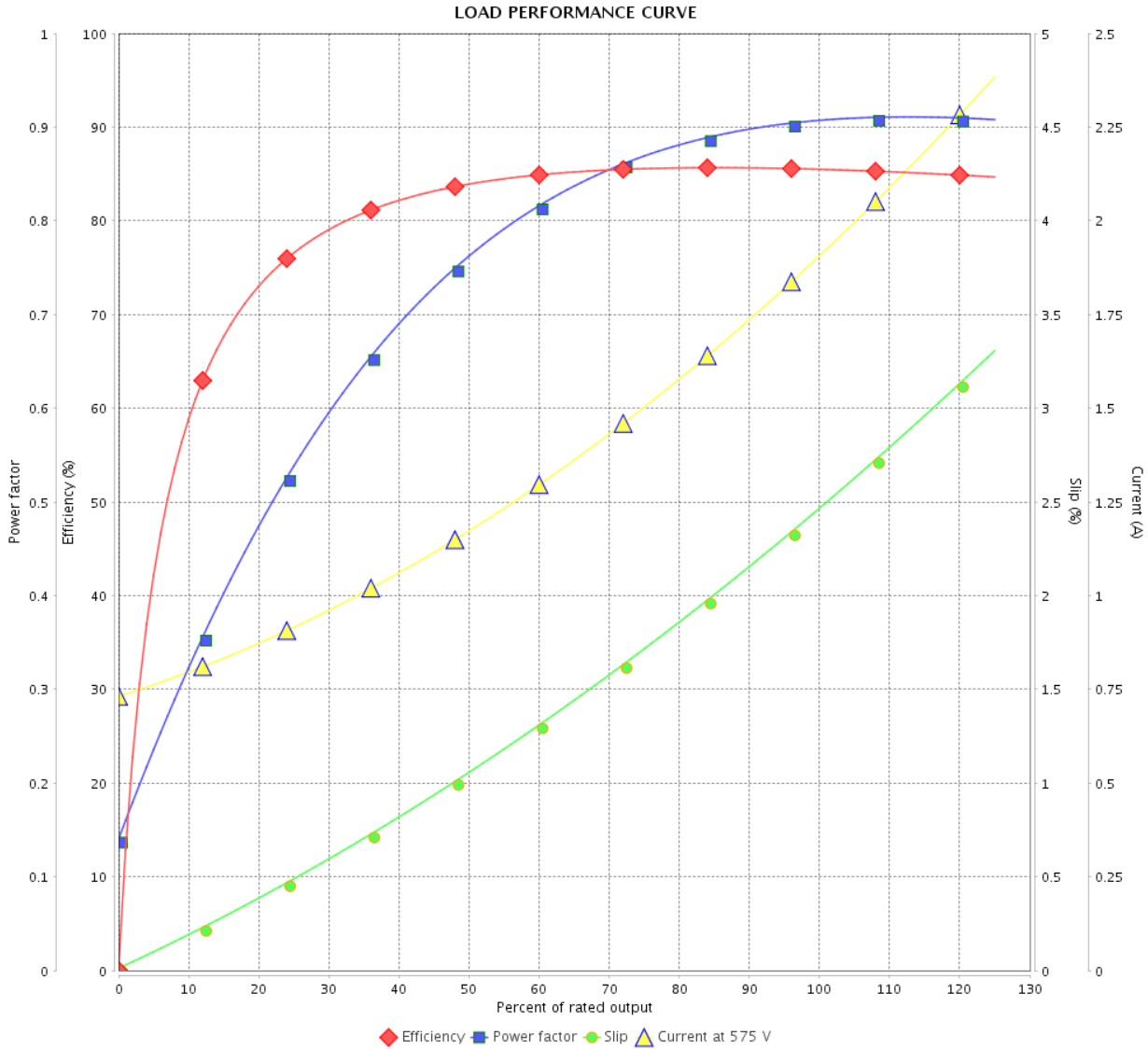
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Product code : 13997238

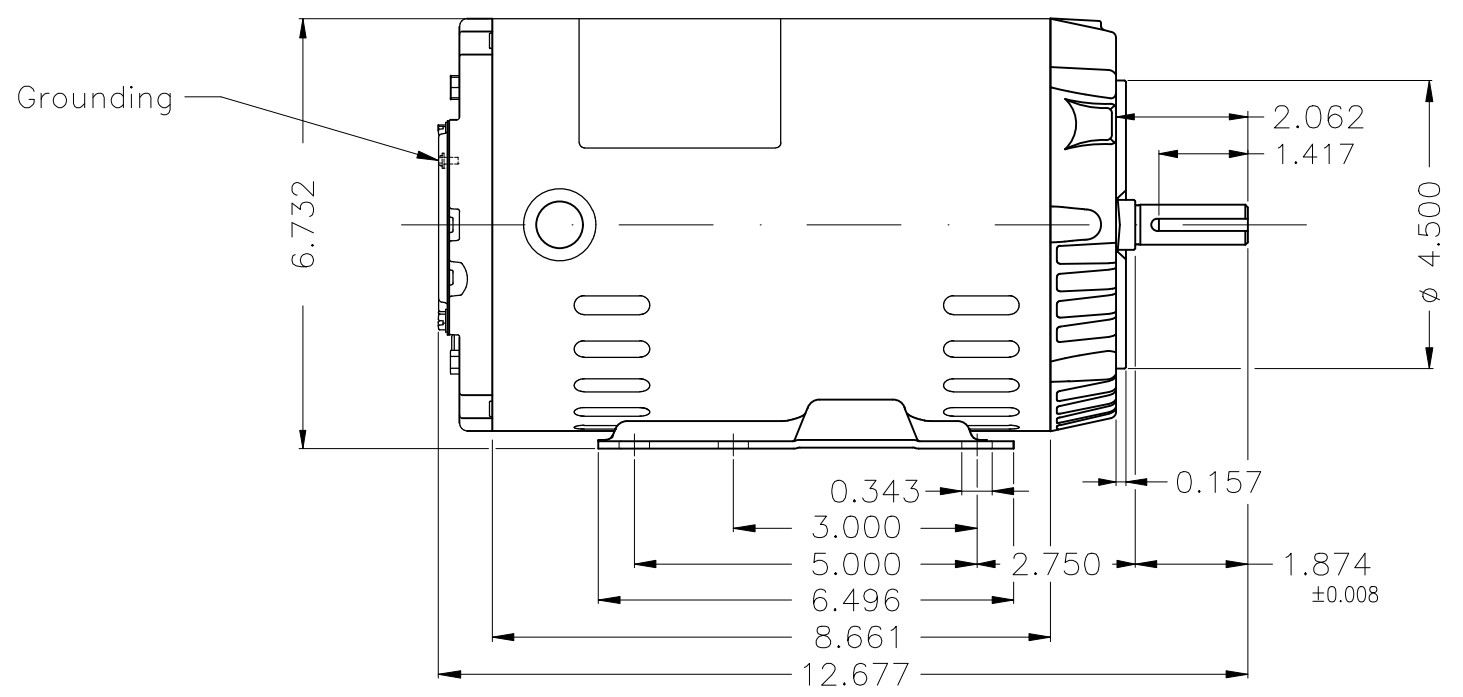
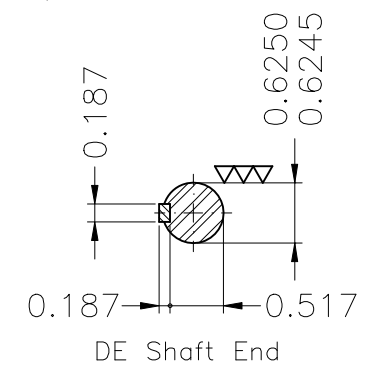
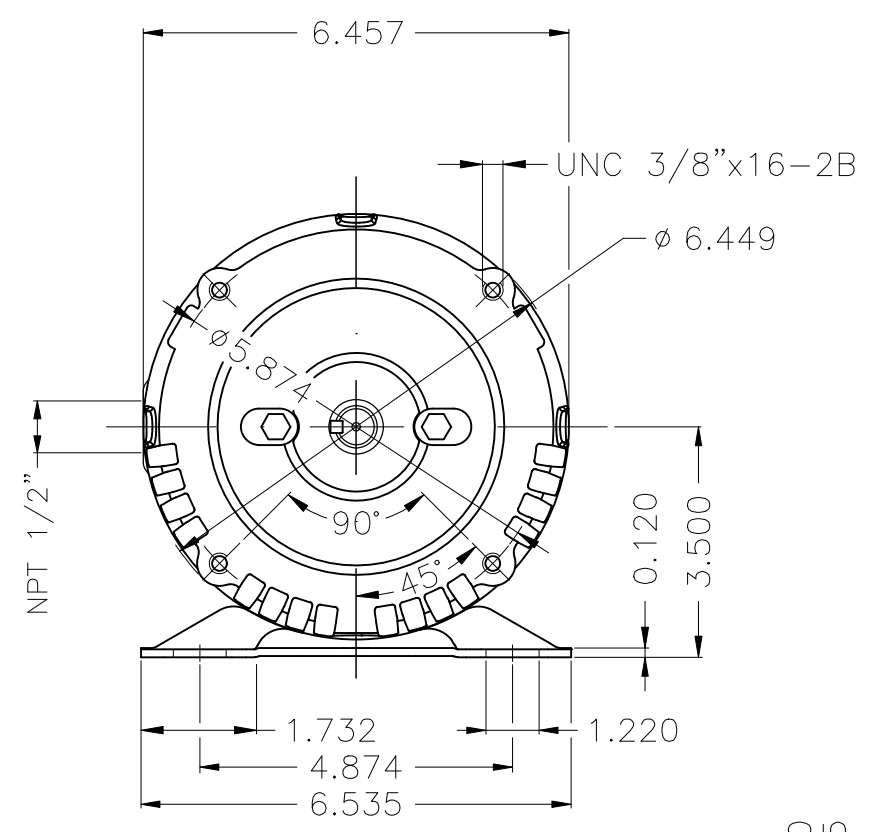


Performance : 575 V 60 Hz 2P

Rated current : 1.94 A
 LRC : 8.9
 Rated torque : 0.414 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	11/05/2022			



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 PREM. EFF.				
CHECKED		FRAME 56HC IP21 ODP				
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering	PREVIEW	
				WDD	00	
				SHEET	1 / 1	

2 HP 02 Poles 60 Hz

A

