

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Standard Efficiency Three-Phase	Product code :	13658097
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>	: 13.3 kg	
Design	: A	Moment of inertia (J)	: 0.0038 kgm <sup>2</sup>	
Output [HP]	1.5			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	1.84			
L. R. Amperes [A]	12.7			
LRC [A]	6.9x(Code K)			
No load current [A]	1.28			
Rated speed [RPM]	1745			
Slip [%]	3.06			
Rated torque [kgfm]	0.624			
Locked rotor torque [%]	250			
Breakdown torque [%]	280			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	18s (cold) 10s (hot)			
Noise level <sup>2</sup>	52.0 dB(A)			
Efficiency (%)	25%			
	50%	75.5		
	75%	78.5		
	100%	80.0		
Power Factor	25%			
	50%	0.51		
	75%	0.65		
	100%	0.75		
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 49 kgf		
		Max. compression : 63 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
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

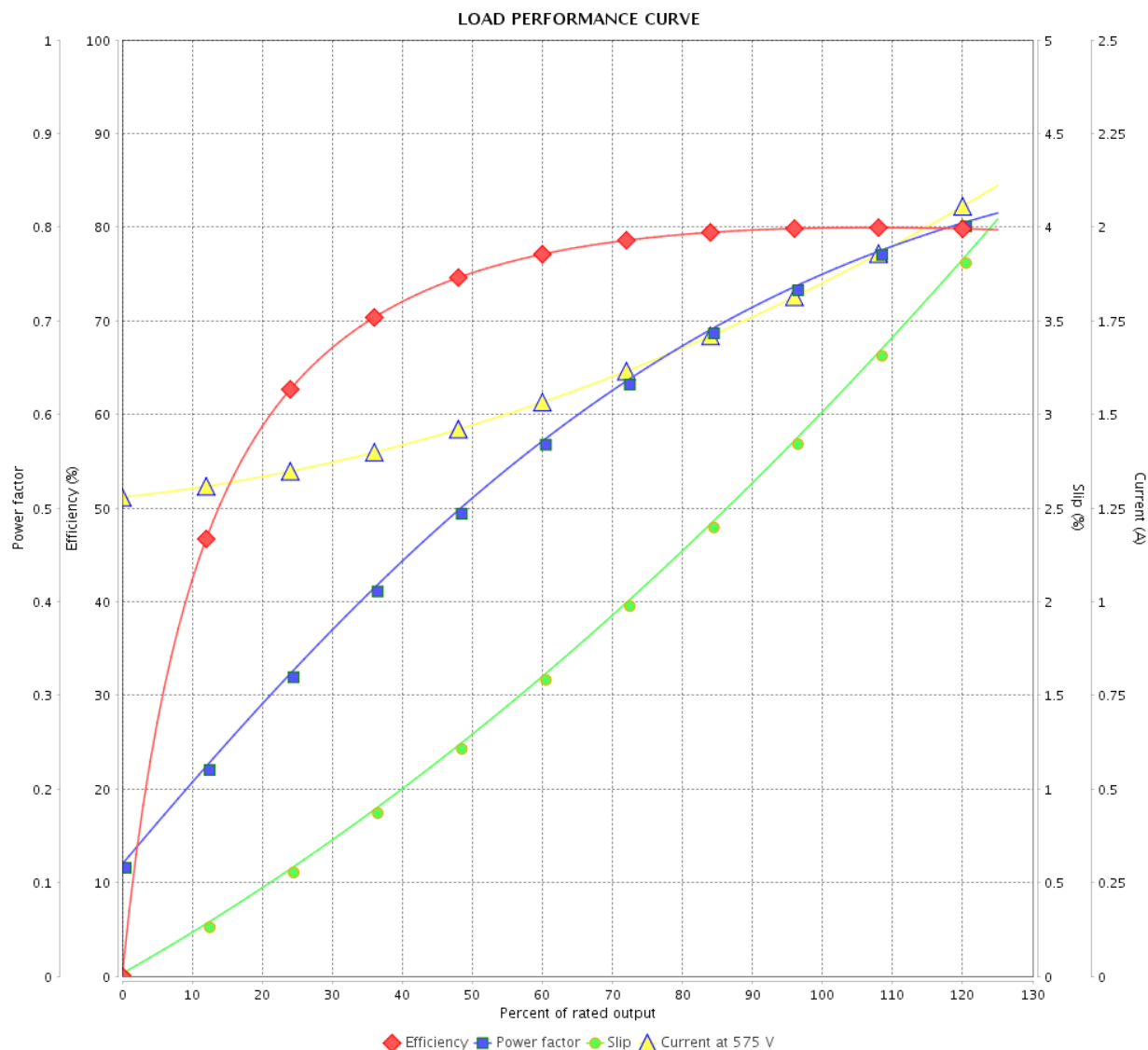
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13658097

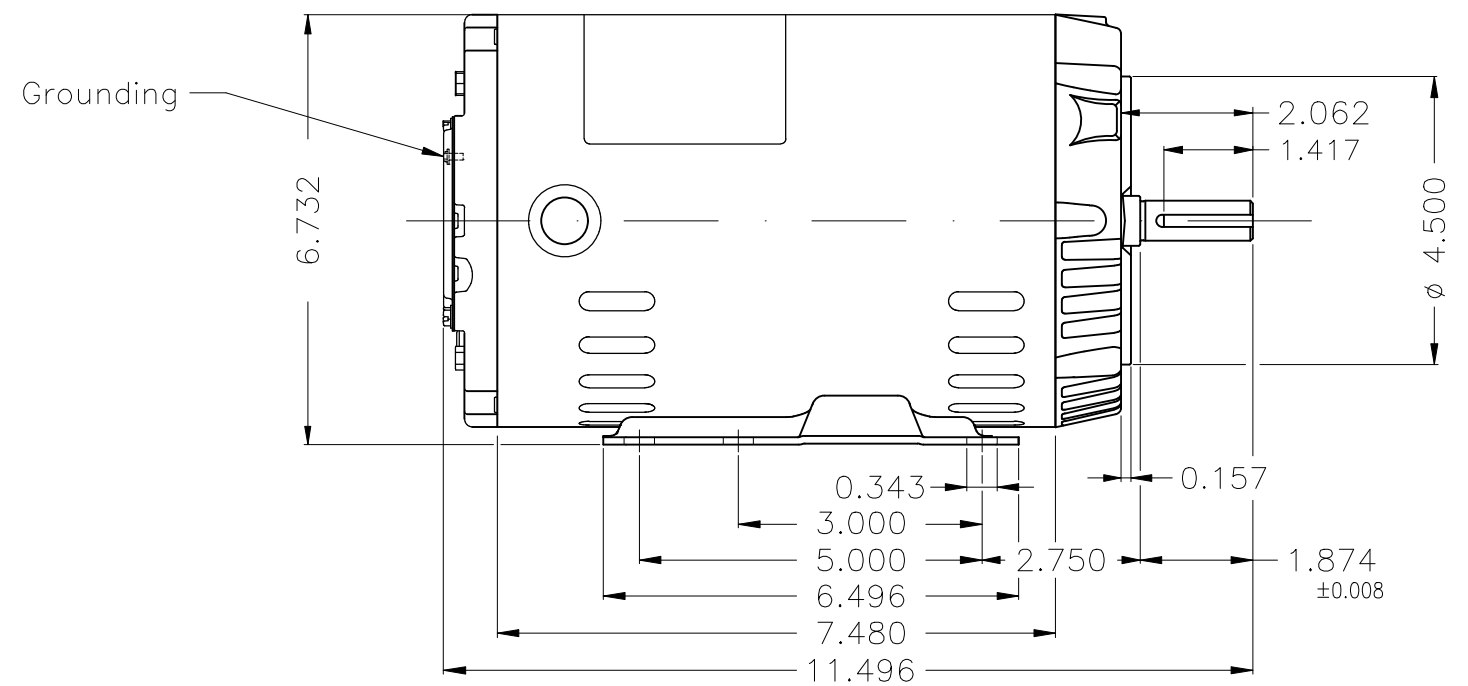
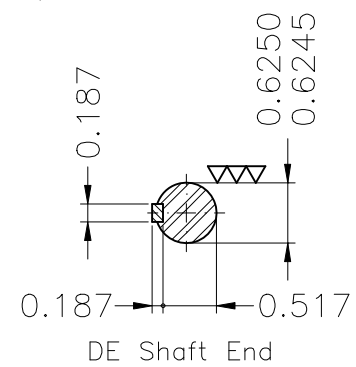
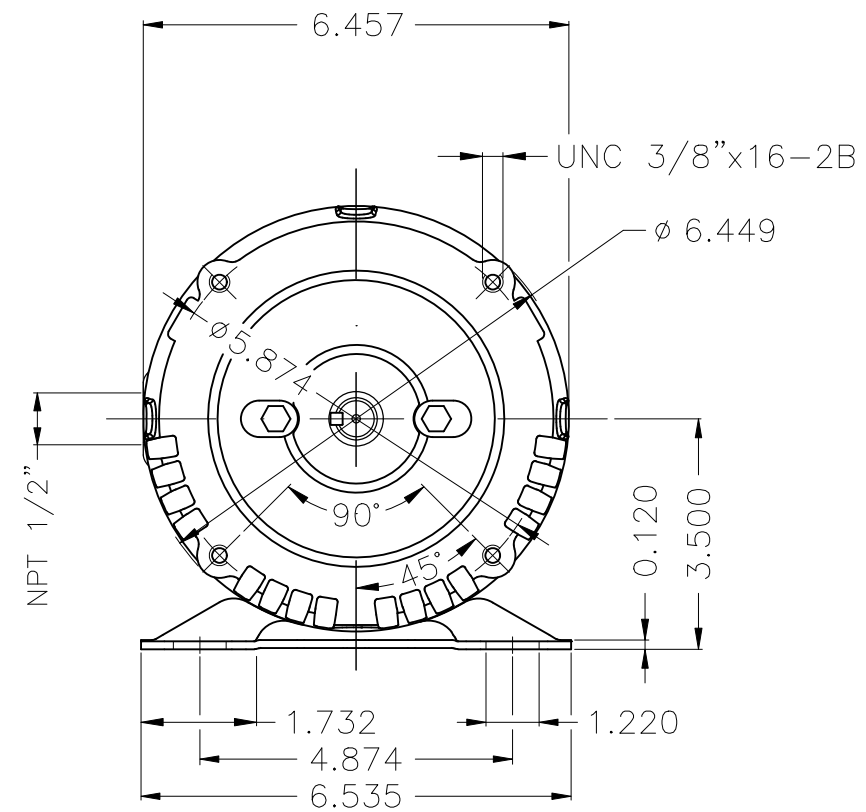


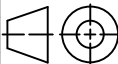

Performance : 575 V 60 Hz 4P

Rated current : 1.84 A  
 LRC : 6.9  
 Rated torque : 0.624 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0038 kgm<sup>2</sup>  
 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	Revision
Checked by				2 / 2	
Date					



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