

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer					
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	14328835		
Frame	: 56J	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 8.7 kg		
		Moment of inertia (J)	: 0.0016 kgm <sup>2</sup>		
Output [HP]	0.5				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	0.718				
L. R. Amperes [A]	4.45				
LRC [A]	6.2x(Code K)				
No load current [A]	0.520				
Rated speed [RPM]	3495				
Slip [%]	2.92				
Rated torque [kgfm]	0.104				
Locked rotor torque [%]	229				
Breakdown torque [%]	290				
Service factor	1.60				
Temperature rise	80 K				
Locked rotor time	59s (cold) 33s (hot)				
Noise level <sup>2</sup>	62.0 dB(A)				
Efficiency (%)	25%				
	50%	59.5			
	75%	66.0			
	100%	70.0			
Power Factor	25%				
	50%	0.52			
	75%	0.65			
	100%	0.74			
Bearing type	: Drive end : 6203 2RS	Non drive end : 6202 2RS	Foundation loads		
Sealing	: Without	Without	Max. traction	: 5 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 14 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	16/05/2022			1 / 2	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

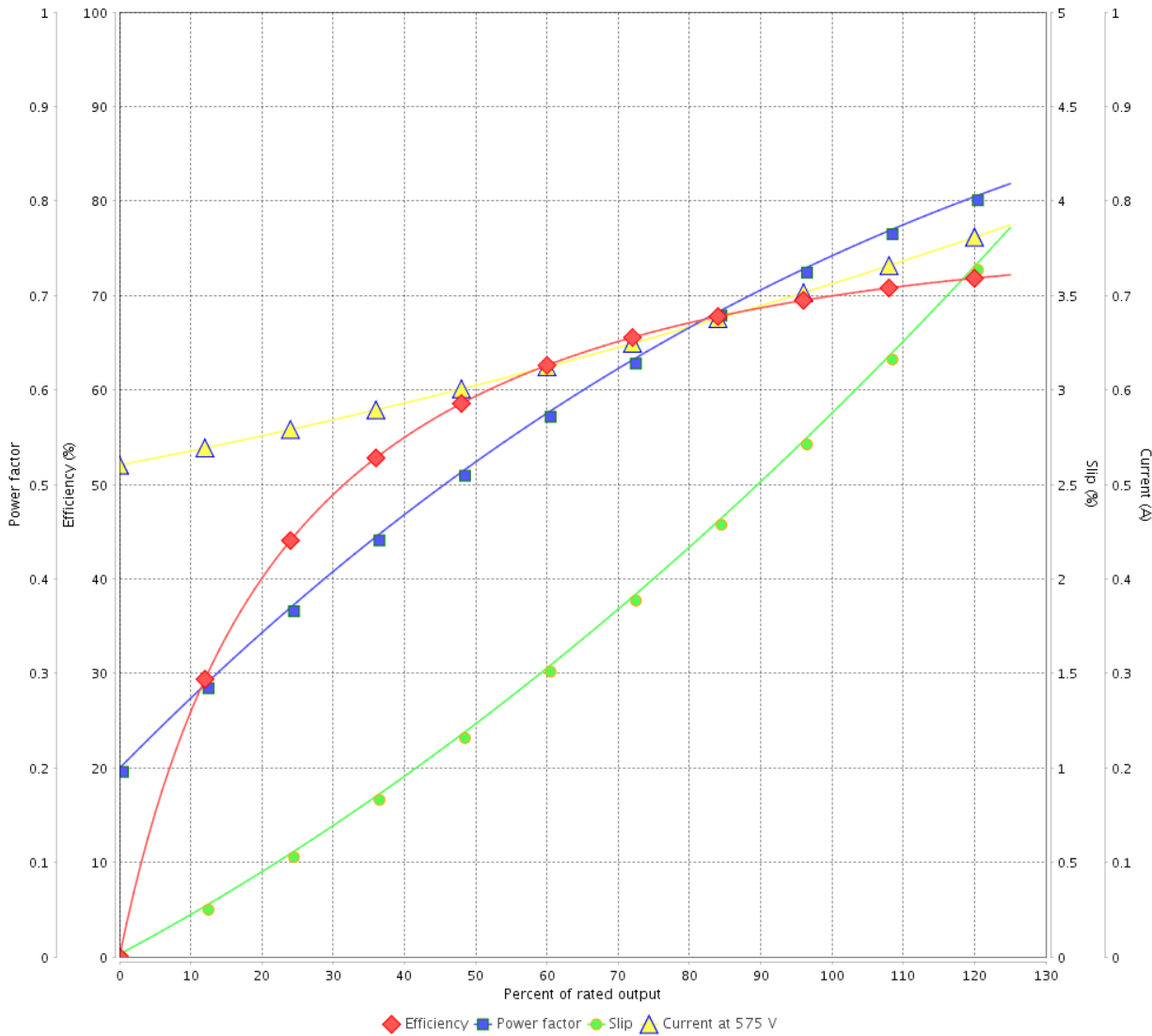


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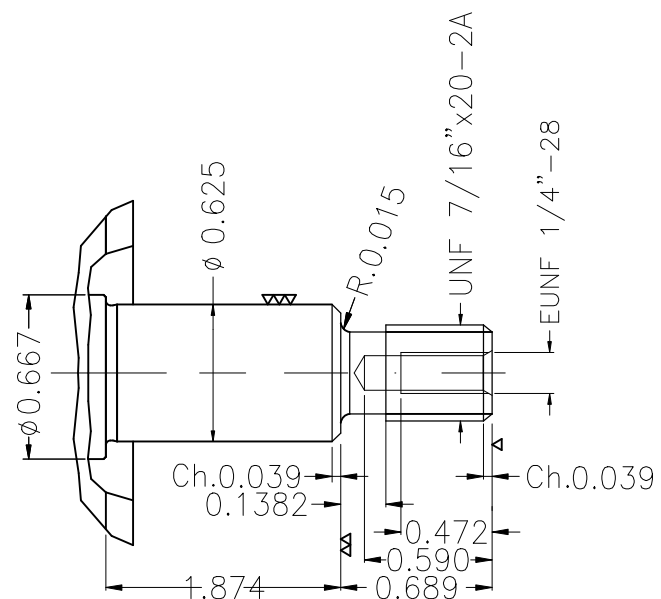
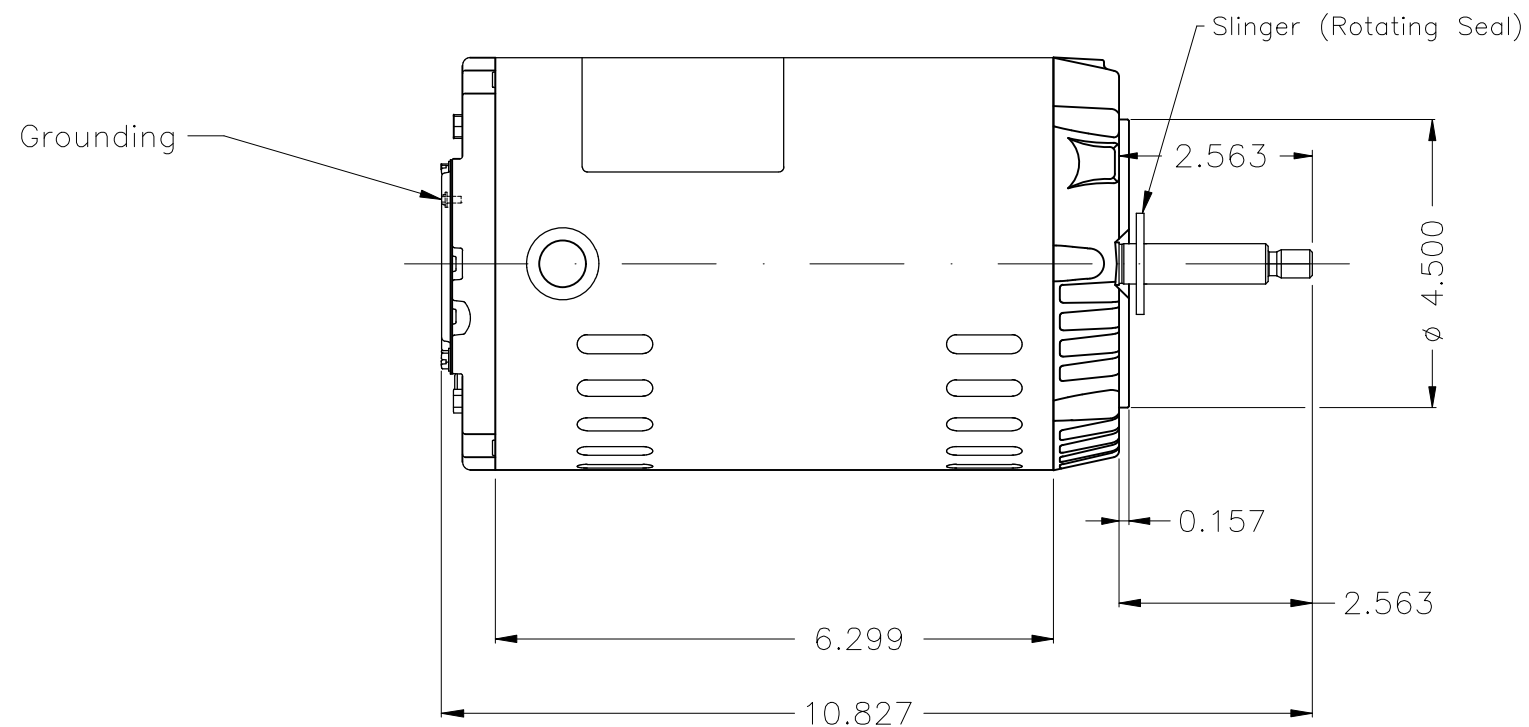
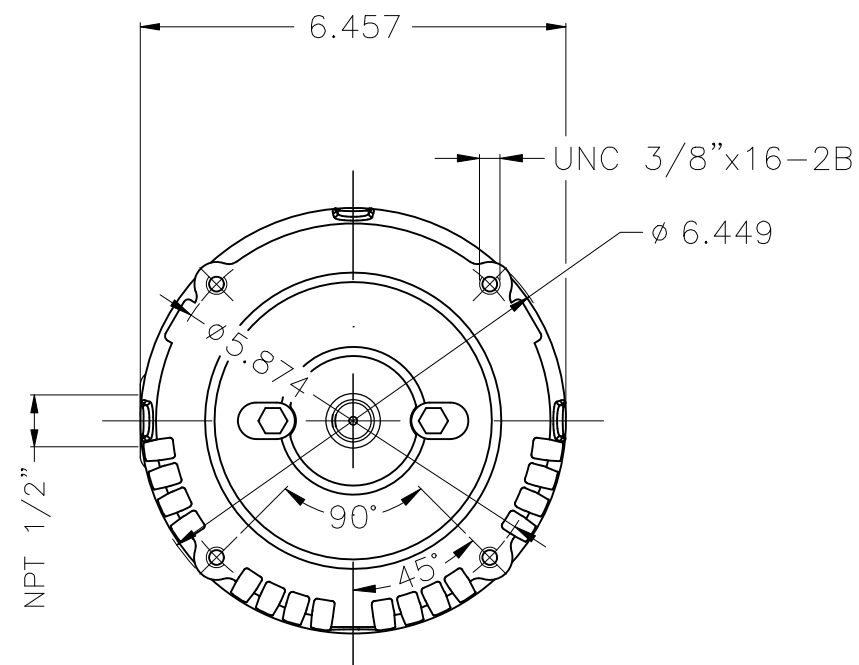


Performance : 575 V 60 Hz 2P

Rated current : 0.718 A  
LRC : 6.2  
Rated torque : 0.104 kgfm  
Locked rotor torque : 229 %  
Breakdown torque : 290 %  
Rated speed : 3495 rpm

Moment of inertia (J) : 0.0016 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.60  
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
HYBRISUSER 00									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED							
CHECKED		FRAME 56J IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	PREVIEW				
					WDD	00			
					SHEET	1 / 1			

0.5 HP 02 Poles 60 Hz

A

