

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Single-Phase		Product code : 14541715		
Frame	: 56H	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>	: 22.8 kg	
Design	: L	Moment of inertia (J)	: 0.0040 kgm <sup>2</sup>	
Output [HP]	3			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	24.4/13.5-12.2			
L. R. Amperes [A]	200/111-100			
LRC [A]	8.2x(Code J)			
No load current [A]	7.80/3.36-3.90			
Rated speed [RPM]	3500			
Slip [%]	2.78			
Rated torque [kgfm]	0.622			
Locked rotor torque [%]	220			
Breakdown torque [%]	280			
Service factor				
Temperature rise	80 K			
Locked rotor time	10s (cold) 6s (hot)			
Noise level <sup>2</sup>	58.0 dB(A)			
Efficiency (%)	25%			
	50%	76.0		
	75%	81.0		
	100%	84.1		
Power Factor	25%			
	50%	0.87		
	75%	0.92		
	100%	0.93		
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction : 44 kgf		
		Max. compression : 67 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				
Date	17/05/2022		Page 1 / 2	Revision

# LOAD PERFORMANCE CURVE

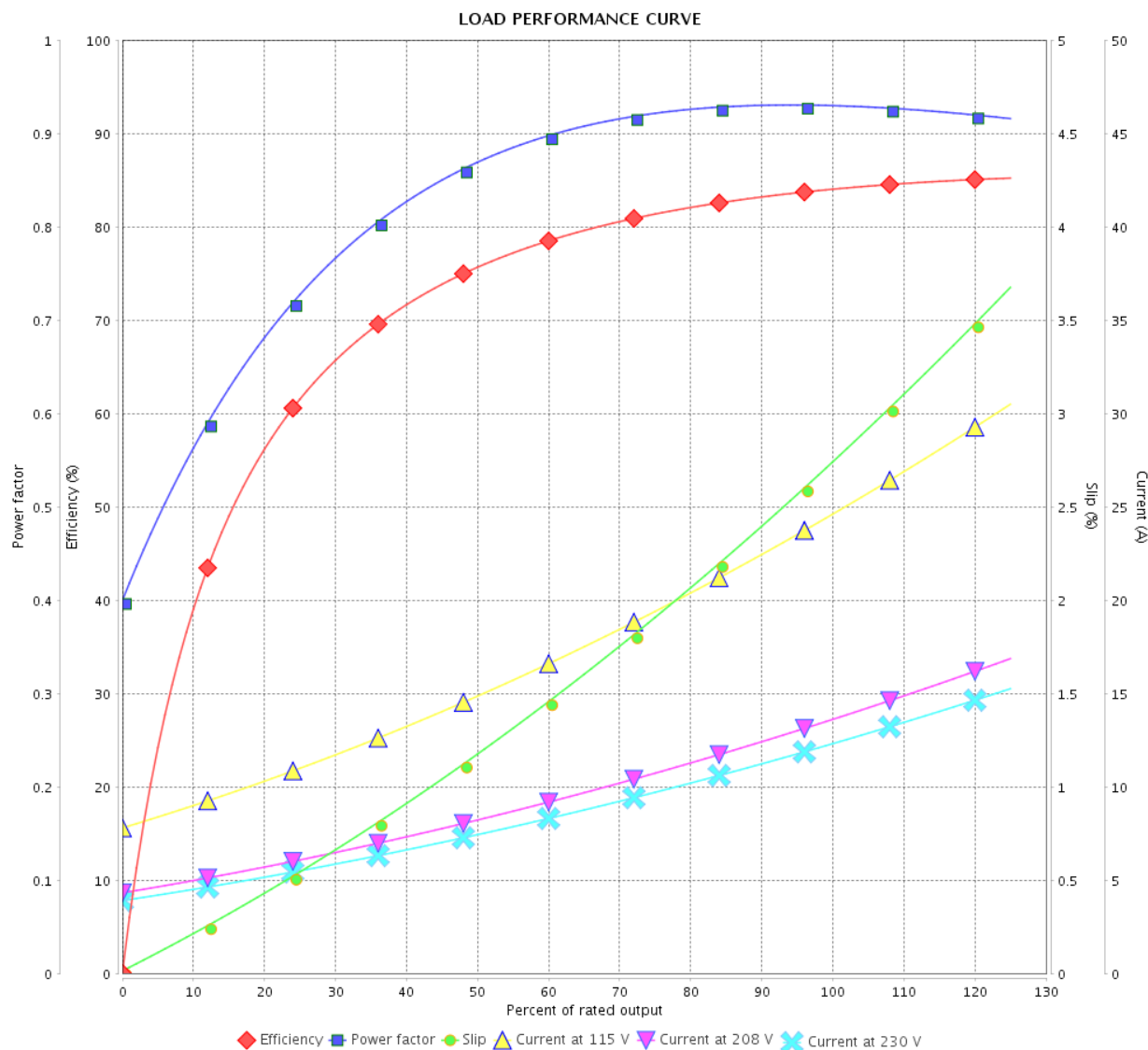
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 14541715



Performance : 115/208-230 V 60 Hz 2P

Rated current : 24.4/13.5-12.2 A  
 LRC : 8.2  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 280 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0040 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

Rev.	Changes Summary	Performed	Checked	Date
Performed by		<div>Page 2 / 2</div> <div>Revision</div>		
Checked by				
Date	17/05/2022			

