

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Premium Efficiency Three-Phase	Product code :	14709259
Frame	: 56C	Cooling method	: IC411 - TEFC	
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>	: 12.1 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0045 kgm <sup>2</sup>	
Output [HP]	0.5			
Poles	6			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	0.781			
L. R. Amperes [A]	4.37			
LRC [A]	5.6x(Code K)			
No load current [A]	0.619			
Rated speed [RPM]	1160			
Slip [%]	3.33			
Rated torque [kgfm]	0.313			
Locked rotor torque [%]	240			
Breakdown torque [%]	330			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	46s (cold) 26s (hot)			
Noise level <sup>2</sup>	50.0 dB(A)			
Efficiency (%)	25%			
	50%	68.0		
	75%	74.0		
	100%	75.5		
Power Factor	25%			
	50%	0.41		
	75%	0.53		
	100%	0.63		
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 27 kgf	
Lubrication interval	: -	-	Max. compression : 39 kgf	
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			Page	
Checked by			Revision	
Date	17/05/2022		1 / 2	

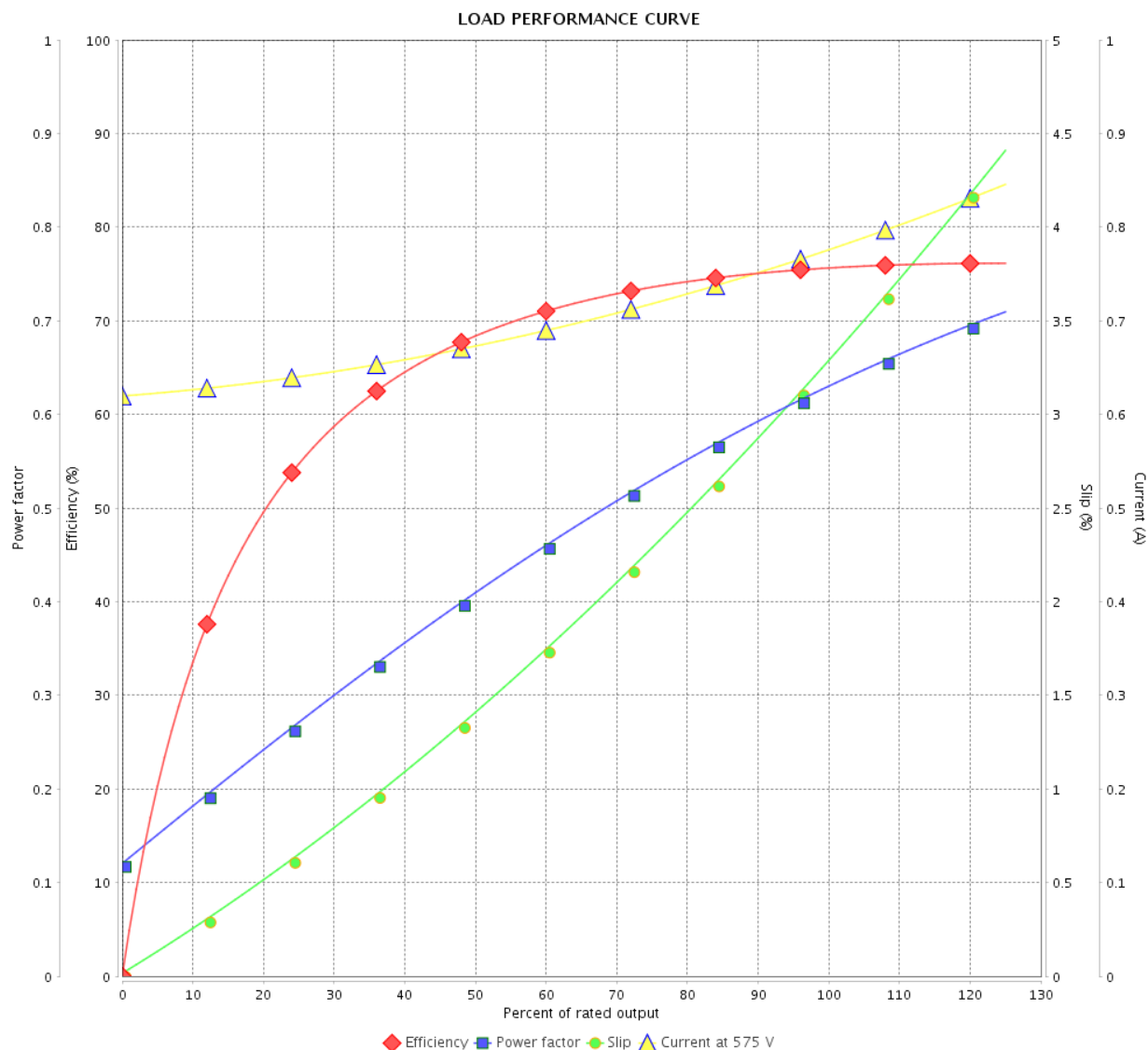
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14709259



Performance : 575 V 60 Hz 6P

Rated current : 0.781 A  
 LRC : 5.6  
 Rated torque : 0.313 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 330 %  
 Rated speed : 1160 rpm

Moment of inertia (J) : 0.0045 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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

