

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	13180741		
Frame	: 254/6T	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>	: 80.9 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0367 kgm <sup>2</sup>		
Design	: B				
Output [HP]	15				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	13.9				
L. R. Amperes [A]	94.7				
LRC [A]	6.8x(Code G)				
No load current [A]	5.20				
Rated speed [RPM]	3525				
Slip [%]	2.08				
Rated torque [kgfm]	3.09				
Locked rotor torque [%]	200				
Breakdown torque [%]	300				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	25s (cold) 14s (hot)				
Noise level <sup>2</sup>	75.0 dB(A)				
Efficiency (%)	25%	89.2			
	50%	89.5			
	75%	91.0			
	100%	91.0			
Power Factor	25%	0.47			
	50%	0.73			
	75%	0.83			
	100%	0.87			
Bearing type	: <u>Drive end</u> 6309 Z C3	<u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 105 kgf	
Lubrication interval	: 15797 h	20000 h	Max. compression	: 186 kgf	
Lubricant amount	: 13 g	8 g			
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	13/05/2022			1 / 2	

# LOAD PERFORMANCE CURVE

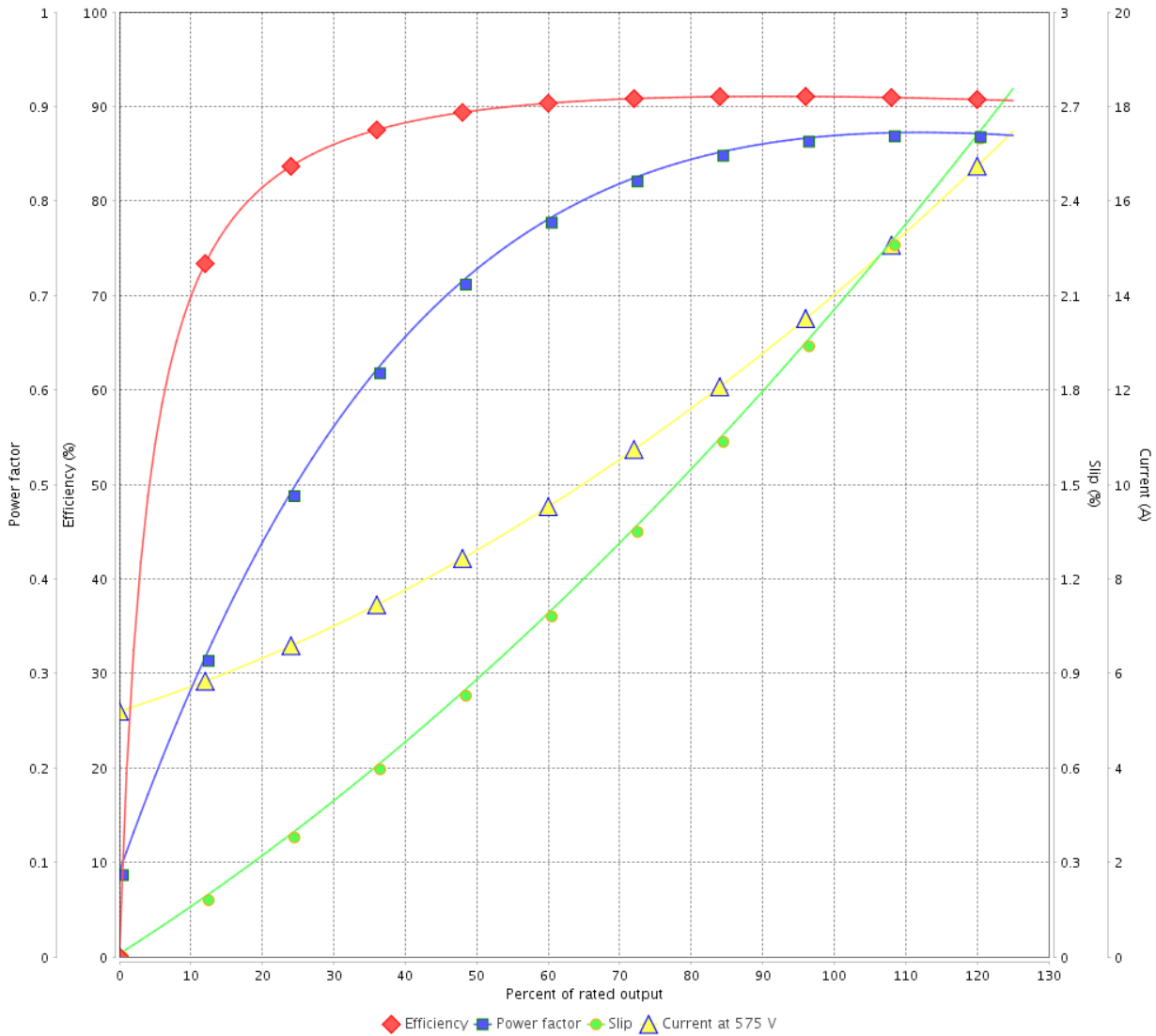
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase      Product code : 13180741

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 13.9 A	Moment of inertia (J)	: 0.0367 kgm <sup>2</sup>
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 3.09 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/05/2022			