

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14381273			
Frame	:	80M/MS		Locked rotor time	:	12s (cold) 7s (hot)	
Output	:	5 HP (3.7 kW)		Temperature rise	:	80 K	
Poles	:	2		Duty cycle	:	S6	
Frequency	:	60 Hz		Ambient temperature	:	-20°C to +40°C	
Rated voltage	:	575 V		Altitude	:	1000 m.a.s.l.	
Rated current	:	5.32 A		Protection degree	:	IP54	
L. R. Amperes	:	42.5 A		Cooling method	:	IC411 - TEFC	
LRC	:	8.0		Mounting	:	B3R(D)	
No load current	:	2.30 A		Rotation <sup>1</sup>	:	CCW	
Rated speed	:	3470 rpm		Noise level <sup>2</sup>	:	62.0 dB(A)	
Slip	:	3.61 %		Starting method	:	Direct On Line	
Rated torque	:	1.05 kgfm		Approx. weight <sup>3</sup>	:	44.8 kg	
Locked rotor torque	:	340 %					
Breakdown torque	:	409 %					
Insulation class	:	F					
Service factor	:	1.00					
Moment of inertia (J)	:	0.0041 kgm <sup>2</sup>					
Design	:	N					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	82.0	84.5	85.0	Max. traction		: 67 kgf	
Power Factor	0.66	0.77	0.82	Max. compression		: 112 kgf	
				<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6307 ZZ		6207 ZZ			
Sealing	:	Without Bearing Seal		Without Bearing Seal			
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	15/01/2024				1 / 2		

# LOAD PERFORMANCE CURVE

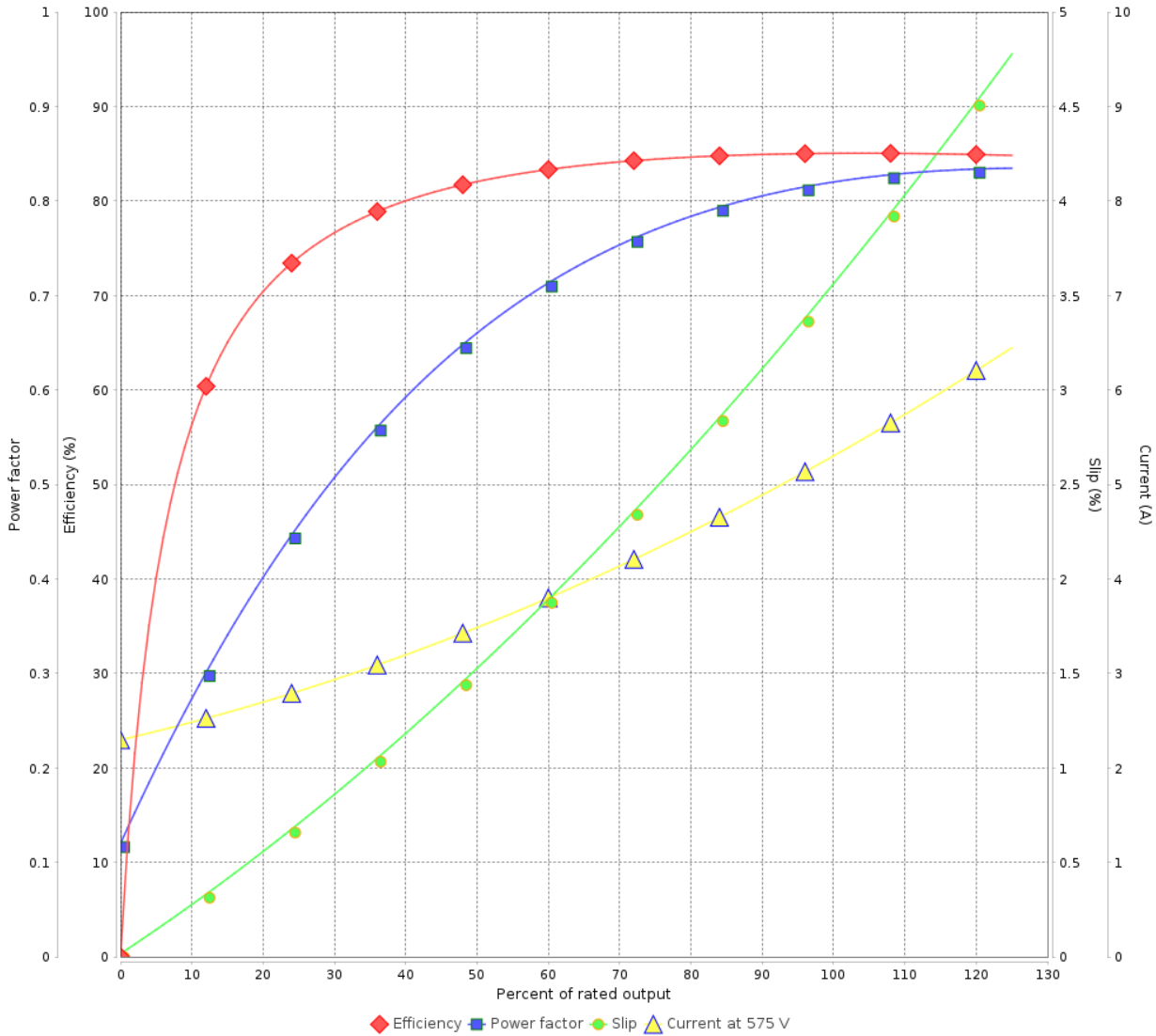
Three Phase Induction Motor - Squirrel Cage



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

Product line : Saw Arbor Motor Standard Efficiency Three-Phase      Product code : 14381273

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 5.32 A	Moment of inertia (J)	: 0.0041 kgm <sup>2</sup>
LRC	: 8.0	Duty cycle	: S6
Rated torque	: 1.05 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.00
Breakdown torque	: 409 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	15/01/2024			