

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: Saw Arbor Motor Standard Efficiency Three-Phase		Product code :	10684593
Frame	: 80L/MS		Locked rotor time	: 9s (cold) 5s (hot)
Output	: 7.5 HP (5.5 kW)		Temperature rise	: 80 K
Poles	: 2		Duty cycle	: S1
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.
Rated current	: 7.81 A		Protection degree	: IP54
L. R. Amperes	: 71.8 A		Cooling method	: IC411 - TEFC
LRC	: 9.2		Mounting	: B3R(D)
No load current	: 3.52 A		Rotation ¹	: CW
Rated speed	: 3490 rpm		Noise level ²	: 62.0 dB(A)
Slip	: 3.06 %		Starting method	: Direct On Line
Rated torque	: 1.56 kgfm		Approx. weight ³	: 55.5 kg
Locked rotor torque	: 400 %			
Breakdown torque	: 459 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.0061 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	85.2	87.0	87.4	Max. traction
Power Factor	0.64	0.75	0.81	Max. compression
				: 123 kgf
				: 178 kgf
Bearing type	:	<u>Drive end</u> 6307 ZZ	<u>Non drive end</u> 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
Performed by				
Checked by			Page	Revision
Date	14/01/2024		1 / 2	

LOAD PERFORMANCE CURVE

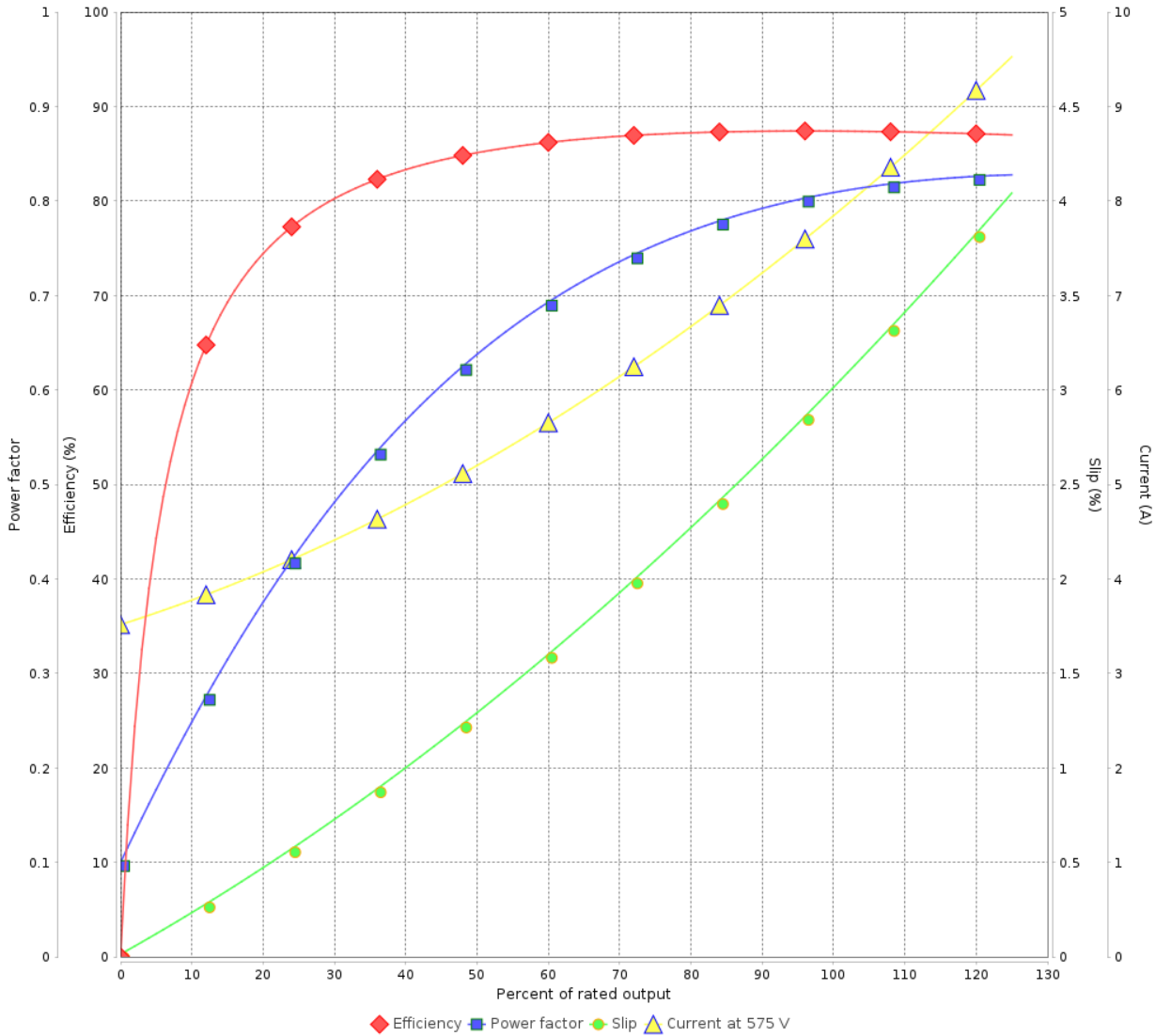
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10684593

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 7.81 A	Moment of inertia (J)	: 0.0061 kgm ²
LRC	: 9.2	Duty cycle	: S1
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.00
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 2		
Date	14/01/2024			