

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																						
Product line : Saw Arbor Motor Standard Efficiency Three-Phase			Product code : 10023135																			
Frame : 90L/MS Output : 10 HP (7.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 208-230/460 V Rated current : 32.5-29.4/14.7 A L. R. Amperes : 276-250/125 A LRC : 8.5 No load current : 18.0-16.3/8.13 A Rated speed : 1715 rpm Slip : 4.72 % Rated torque : 4.23 kgfm Locked rotor torque : 459 % Breakdown torque : 450 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0168 kgm ² Design : N			Locked rotor time : 10s (cold) 6s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP54 Cooling method : IC411 - TEFC Mounting : B3R(D) Rotation ¹ : CW Noise level ² : 55.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 82.5 kg																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>84.1</td> <td>84.5</td> <td>85.5</td> <td>85.5</td> </tr> <tr> <td>Power Factor</td> <td>0.31</td> <td>0.54</td> <td>0.67</td> <td>0.75</td> </tr> </table>			Output	25%	50%	75%	100%	Efficiency (%)	84.1	84.5	85.5	85.5	Power Factor	0.31	0.54	0.67	0.75	Foundation loads Max. traction : 434 kgf Max. compression : 517 kgf				
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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	14/01/2024			1 / 2																		

LOAD PERFORMANCE CURVE

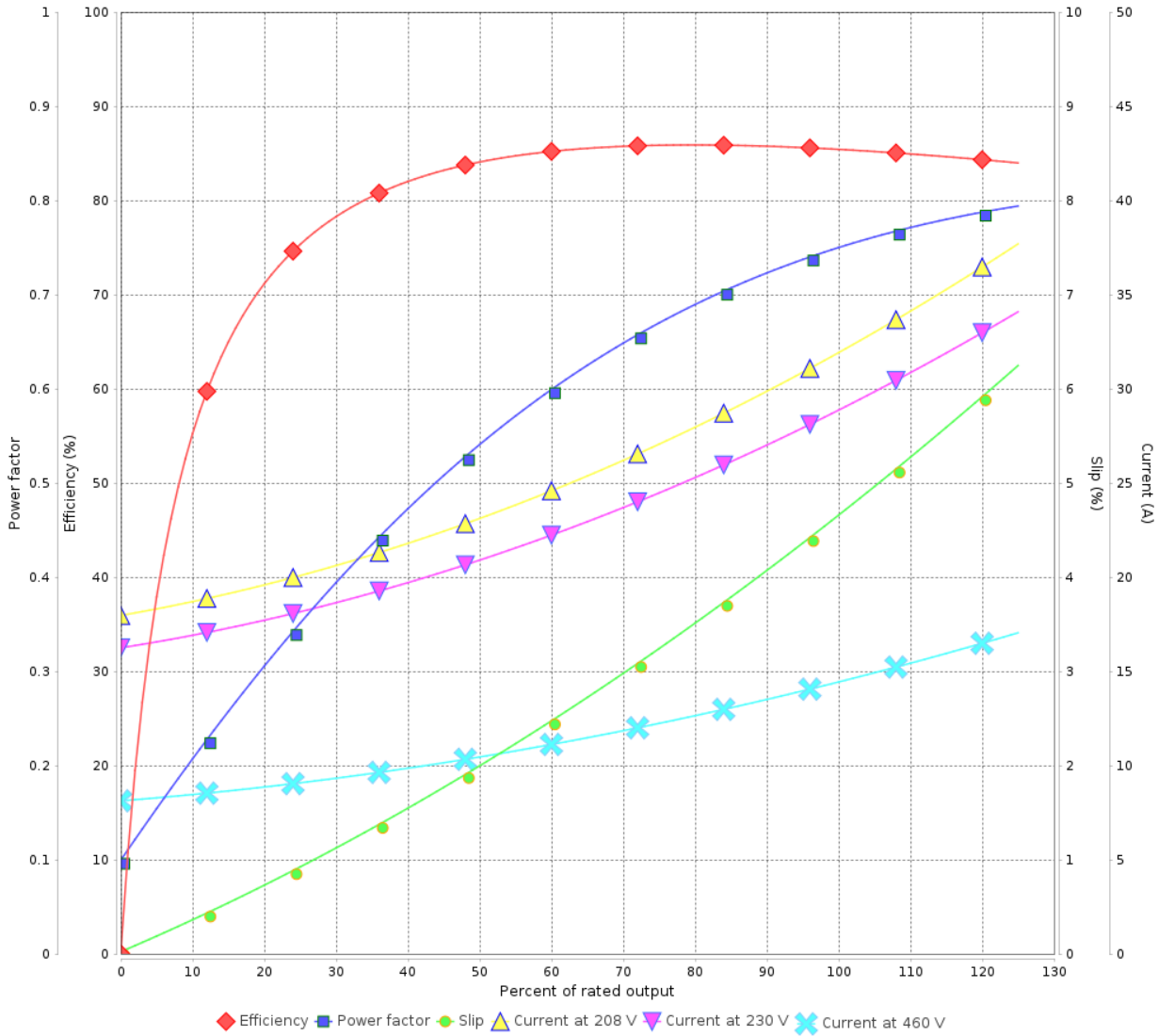
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Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10023135

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Performance : 208-230/460 V 60 Hz 4P

Rated current	: 32.5-29.4/14.7 A	Moment of inertia (J)	: 0.0168 kgm ²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 4.23 kgfm	Insulation class	: F
Locked rotor torque	: 459 %	Service factor	: 1.00
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 1715 rpm	Design	: N

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