

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :																												
Product line : Rolled Steel Single-Phase		Product code :	13400675																									
		Catalog # :	.5012ES1B56-S																									
Frame	: 56	Locked rotor time	: 32s (cold) 18s (hot)																									
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K																									
Poles	: 6	Duty cycle	: Cont.(S1)																									
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																									
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.																									
Rated current	: 6.40/3.54-3.20 A	Protection degree	: IP55																									
L. R. Amperes	: 42.2/23.4-21.1 A	Cooling method	: IC411 - TEFC																									
LRC	: 6.6x(Code L)	Mounting	: F-1																									
No load current	: 4.40/1.90-2.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)																									
Rated speed	: 1170 rpm	Noise level <sup>2</sup>	: 54.0 dB(A)																									
Slip	: 2.50 %	Starting method	: Direct On Line																									
Rated torque	: 2.24 ft.lb	Approx. weight <sup>3</sup>	: 32.4 lb																									
Locked rotor torque	: 240 %																											
Breakdown torque	: 260 %																											
Insulation class	: F																											
Service factor	: 1.15																											
Moment of inertia (J)	: 0.1241 sq.ft.lb																											
Design	: N																											
Output	25%	50%	75%	100%																								
Efficiency (%)	51.0	54.0	63.0	67.0																								
Power Factor	0.34	0.58	0.67	0.72																								
<table border="0"> <tr> <td></td><td style="text-align: center;"><u>Drive end</u></td><td style="text-align: center;"><u>Non drive end</u></td><td></td></tr> <tr> <td>Bearing type</td><td>: 6203 ZZ</td><td>: 6202 ZZ</td><td></td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td></td><td>Without Bearing Seal</td></tr> <tr> <td>Lubrication interval</td><td>: -</td><td></td><td>-</td></tr> <tr> <td>Lubricant amount</td><td>: -</td><td></td><td>-</td></tr> <tr> <td>Lubricant type</td><td>: Mobil Polyrex EM</td><td></td><td></td></tr> </table>						<u>Drive end</u>	<u>Non drive end</u>		Bearing type	: 6203 ZZ	: 6202 ZZ		Sealing	: V'Ring		Without Bearing Seal	Lubrication interval	: -		-	Lubricant amount	: -		-	Lubricant type	: Mobil Polyrex EM		
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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			Page 1 / 1	Revision
Checked by				
Date	26/03/2024			