

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: Rolled Steel Single-Phase		Product code :	14419270																								
			Catalog # :	.1236OS1B48-S																								
Frame	: 48		Locked rotor time	: 32s (cold) 18s (hot)																								
Output	: 0.12 HP (0.09 kW)		Temperature rise	: 80 K																								
Poles	: 2		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	: 2.48/1.37-1.24 A		Cooling method	: IC01 - ODP																								
L. R. Amperes	: 15.9/8.77-7.94 A		Mounting	: F-1																								
LRC	: 6.4x(Code R)		Rotation <sup>1</sup>	: Both (CW and CCW)																								
No load current	: 1.80/0.776-0.900 A		Noise level <sup>2</sup>	: 56.0 dB(A)																								
Rated speed	: 3500 rpm		Starting method	: Direct On Line																								
Slip	: 2.78 %		Approx. weight <sup>3</sup>	: 14.3 lb																								
Rated torque	: 0.180 ft.lb																											
Locked rotor torque	: 300 %																											
Breakdown torque	: 300 %																											
Insulation class	: F																											
Service factor	: 1.40																											
Moment of inertia (J)	: 0.0126 sq.ft.lb																											
Design	: N																											
Output	25%	50%	75%	100%																								
Efficiency (%)	29.5	32.0	40.0	44.0																								
Power Factor	0.35	0.60	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>: Without Bearing Seal</td><td>: Without Bearing Seal</td><td></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 colspan="3" rowspan="4" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>						<u>Drive end</u>	<u>Non drive end</u>		Bearing type	: 6203 ZZ	: 6202 ZZ		Sealing	: Without Bearing Seal	: 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	25/03/2024			