

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																						
Product line		Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12690436																		
			Catalog # :	00712OT3E254T-S																		
Frame	: 254/6T	Locked rotor time	: 66s (cold) 37s (hot)																			
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K																			
Poles	: 6	Duty cycle	: Cont.(S1)																			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																			
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.																			
Rated current	: 20.4/10.2 A	Cooling method	: IC01 - ODP																			
L. R. Amperes	: 104/52.0 A	Mounting	: F-1																			
LRC	: 5.1x(Code F)	Rotation <sup>1</sup>	: Both (CW and CCW)																			
No load current	: 10.7/5.37 A	Noise level <sup>2</sup>	: 59.0 dB(A)																			
Rated speed	: 1175 rpm	Starting method	: Direct On Line																			
Slip	: 2.08 %	Approx. weight <sup>3</sup>	: 187 lb																			
Rated torque	: 33.5 ft.lb																					
Locked rotor torque	: 200 %																					
Breakdown torque	: 229 %																					
Insulation class	: F																					
Service factor	: 1.15																					
Moment of inertia (J)	: 2.00 sq.ft.lb																					
Design	: B																					
Output	25%	50%	75%	100%																		
Efficiency (%)	88.2	90.1	88.5	89.3																		
	89.1	88.6	89.3	88.5																		
Power Factor	0.33	0.39	0.56	0.63																		
	0.33	0.56	0.69	0.75																		
<table border="0"> <tr> <td></td><td style="text-align: center;">Drive end</td><td style="text-align: center;">Non drive end</td></tr> <tr> <td>Bearing type</td><td>: 6309 Z C3</td><td>: 6208 Z C3</td></tr> <tr> <td>Sealing</td><td>: Without Bearing Seal</td><td>: Without Bearing Seal</td></tr> <tr> <td>Lubrication interval</td><td>: 20000 h</td><td>: 20000 h</td></tr> <tr> <td>Lubricant amount</td><td>: 13 g</td><td>: 8 g</td></tr> <tr> <td>Lubricant type</td><td colspan="3" rowspan="3" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>					Drive end	Non drive end	Bearing type	: 6309 Z C3	: 6208 Z C3	Sealing	: Without Bearing Seal	: Without Bearing Seal	Lubrication interval	: 20000 h	: 20000 h	Lubricant amount	: 13 g	: 8 g	Lubricant type	Mobil Polyrex EM		
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<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>																						
Rev.	Changes Summary			Performed																		
				Checked																		
Performed by				Page																		
Checked by				Revision																		
Date	27/03/2024			1 / 1																		