

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																				
Product line	: W22 High Efficiency Three-Phase		Product code : 12258801																	
Frame	: 254/6T	Locked rotor time	: 39s (cold) 22s (hot)																	
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K																	
Poles	: 8	Duty cycle	: Cont.(S1)																	
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C																	
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.																	
Rated current	: 13.7 A	Protection degree	: IP55																	
L. R. Amperes	: 58.9 A	Cooling method	: IC411 - TEFC																	
LCR	: 4.3x(Code F)	Mounting	: F-1																	
No load current	: 7.50 A	Rotation ¹	: Both (CW and CCW)																	
Rated speed	: 715 rpm	Noise level ²	: 51.0 dB(A)																	
Slip	: 4.67 %	Starting method	: Direct On Line																	
Rated torque	: 55.1 ft.lb	Approx. weight ³	: 264 lb																	
Locked rotor torque	: 160 %																			
Breakdown torque	: 180 %																			
Insulation class	: F																			
Service factor	: 1.25																			
Moment of inertia (J)	: 3.41 sq.ft.lb																			
Design	: B																			
Output	50%	75%	100%																	
Efficiency (%)	80.0 82.5	84.0 85.5	82.5 85.5																	
Power Factor	0.54 0.48	0.66 0.62	0.74 0.70																	
		Foundation loads																		
		Max. traction	: 426 lb																	
		Max. compression	: 690 lb																	
		<table border="0"> <tr> <td style="text-align: center;"><u>Drive end</u></td><td style="text-align: center;"><u>Non drive end</u></td></tr> <tr> <td>Bearing type</td><td>: 6309 C3</td><td>: 6209 C3</td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>: V'Ring</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>: 9 g</td></tr> <tr> <td>Lubricant type</td><td colspan="2" rowspan="2">Mobil Polyrex EM</td></tr> </table>		<u>Drive end</u>	<u>Non drive end</u>	Bearing type	: 6309 C3	: 6209 C3	Sealing	: V'Ring	: V'Ring	Lubrication interval	: 20000 h	: 20000 h	Lubricant amount	: 13 g	: 9 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>		<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	Revision															
Checked by																				
Date	29/03/2024			1 / 1																