

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																						
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14284841																		
Frame	: 404/5TSC	Locked rotor time	: 21s (cold) 12s (hot)																			
Output	: 100 HP (75 kW)	Temperature rise	: 80 K																			
Poles	: 4	Duty cycle	: Cont.(S1)																			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.																			
Rated current	: 91.8 A	Protection degree	: IP23																			
L. R. Amperes	: 624 A	Cooling method	: IC01 - ODP																			
LRC	: 6.8x(Code G)	Mounting	: F-2																			
No load current	: 29.6 A	Rotation ¹	: Both (CW and CCW)																			
Rated speed	: 1780 rpm	Noise level ²	: 69.0 dB(A)																			
Slip	: 1.11 %	Starting method	: Direct On Line																			
Rated torque	: 295 ft.lb	Approx. weight ³	: 992 lb																			
Locked rotor torque	: 200 %																					
Breakdown torque	: 250 %																					
Insulation class	: F																					
Service factor	: 1.25																					
Moment of inertia (J)	: 21.9 sq.ft.lb																					
Design	: B																					
Output	25%	50%	75%	100%																		
Efficiency (%)	94.9	95.0	95.4	95.4																		
Power Factor	0.50	0.75	0.83	0.86																		
Foundation loads																						
		Max. traction	: 1716 lb																			
		Max. compression	: 2708 lb																			
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 40%; text-align: center;"><u>Drive end</u></th> <th style="width: 30%; text-align: center;"><u>Non drive end</u></th> </tr> </thead> <tbody> <tr> <td>Bearing type</td> <td>: 6314 C3</td> <td>: 6212 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>: 27 g</td> <td>: 13 g</td> </tr> <tr> <td>Lubricant type</td> <td colspan="3" rowspan="3">: Mobil Polyrex EM</td></tr> </tbody> </table>					<u>Drive end</u>	<u>Non drive end</u>	Bearing type	: 6314 C3	: 6212 Z C3	Sealing	: Without Bearing Seal	: Without Bearing Seal	Lubrication interval	: 20000 h	: 20000 h	Lubricant amount	: 27 g	: 13 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>																						
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																		
Performed by																						
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				Revision																		