

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																						
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : 14284590																		
				Catalog # : 10018OT3E404TS-W40																		
Frame	: 404/5TS	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	: 230/460 V	Altitude	: 1000 m.a.s.l.																			
Rated current	: 229/115 A	Protection degree	: IP23																			
L. R. Amperes	: 1560/780 A	Cooling method	: IC01 - ODP																			
LRC	: 6.8x(Code G)	Mounting	: F-1																			
No load current	: 74.0/37.0 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	: 972 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	90.2	95.0	91.9	95.4	92.9	95.4	94.7														
	90.3	90.3	92.0	92.0	92.9	92.9	94.7	94.7														
Power Factor	0.50	0.48	0.75	0.73	0.83	0.82	0.86	0.86														
	0.46	0.43	0.72	0.68	0.80	0.78	0.85	0.84														
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33.33%;"></th><th style="width: 33.33%; text-align: center;">Drive end</th><th style="width: 33.33%; text-align: center;">Non drive end</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" style="text-align: center;">Mobil Polyrex EM</td></tr> </tbody> </table>					Drive end	Non drive end	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>																						
Rev.	Changes Summary			Performed																		
				Checked																		
Performed by																						
Checked by																						
Date	29/03/2024																					
		Page	Revision																			
		1 / 1																				