

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																						
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14011072																				
		Catalog # : 12536OT3E404TS-W40																				
Frame	: 404/5TS	Locked rotor time	: 21s (cold) 12s (hot)																			
Output	: 125 HP	Temperature rise	: 80 K																			
Poles	: 2	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	: 272/136 A	Protection degree	: IP23																			
L. R. Amperes	: 1850/925 A	Cooling method	: IC01 - ODP																			
LRC	: 6.8x(Code G)	Mounting	: F-1																			
No load current	: 72.0/36.0 A	Rotation ¹	: Both (CW and CCW)																			
Rated speed	: 3557 rpm	Noise level ²	: 84.0 dB(A)																			
Slip	: 1.19 %	Starting method	: Direct On Line																			
Rated torque	: 185 ft.lb	Approx. weight ³	: 898 lb																			
Locked rotor torque	: 170 %																					
Breakdown torque	: 260 %																					
Insulation class	: F																					
Service factor	: 1.25																					
Moment of inertia (J)	: 8.23 sq.ft.lb																					
Design	: B																					
Output	25%	50%	75%	100%																		
Efficiency (%)	92.8	90.2	93.0	91.9																		
	94.1	92.9	94.1	94.7																		
	90.3	90.3	92.0	92.0																		
	92.9	92.9	94.7	94.7																		
Power Factor	0.57	0.59	0.79	0.80																		
	0.86	0.86	0.88	0.88																		
	0.55	0.48	0.77	0.70																		
	0.84	0.80	0.86	0.84																		
Foundation loads		Max. traction : 1091 lb																				
		Max. compression : 1989 lb																				
		<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> </tr> <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>: 14418 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="2">: Mobil Polyrex EM</td> </tr> </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	: 14418 h	20000 h	Lubricant amount	: 27 g	13 g	Lubricant type	: Mobil Polyrex EM	
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Notes:																						
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.																				
(1) Looking the motor from the shaft end.																						
(2) Measured at 1m and with tolerance of +3dB(A).																						
(3) Approximate weight subject to changes after manufacturing process.																						
(4) At 100% of full load.																						
Rev.	Changes Summary		Performed	Checked																		
Performed by																						
Checked by																						
Date	29/03/2024		Page	Revision																		
			1 / 1																			