

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																							
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272479																			
			Catalog # :	10036OT3G365TS-W40																			
Frame	: 364/5TS	Locked rotor time	: 23s (cold) 13s (hot)																				
Output	: 100 HP (75 kW)	Temperature rise	: 80 K																				
Poles	: 2	Duty cycle	: Cont.(S1)																				
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																				
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.																				
Rated current	: 116 A	Protection degree	: IP23																				
L. R. Amperes	: 766 A	Cooling method	: IC01 - ODP																				
LRC	: 6.6x(Code G)	Mounting	: F-1																				
No load current	: 29.5 A	Rotation <sup>1</sup>	: Both (CW and CCW)																				
Rated speed	: 3555 rpm	Noise level <sup>2</sup>	: 84.0 dB(A)																				
Slip	: 1.25 %	Starting method	: Direct On Line																				
Rated torque	: 148 ft.lb	Approx. weight <sup>3</sup>	: 739 lb																				
Locked rotor torque	: 180 %																						
Breakdown torque	: 229 %																						
Insulation class	: F																						
Service factor	: 1.25																						
Moment of inertia (J)	: 7.20 sq.ft.lb																						
Design	: B																						
Output	25%	50%	75%	100%																			
Efficiency (%)	92.2	88.0	92.4	90.2	93.6	91.9	93.6	94.3															
Power Factor	0.55	0.53	0.77	0.74	0.84	0.83	0.87	0.86															
	0.47	0.47	0.69	0.70	0.78	0.80	0.84	0.83															
<table> <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>: 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="3" rowspan="3">: Mobil Polyrex EM</td></tr> </table>						Drive end	Non drive end	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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<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																				