

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																																																																																														
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : 14272485																																																																																										
				Catalog # : 06018OT3E364TC-W40																																																																																										
<table> <tr><td>Frame</td><td>:</td><td>364/5TC</td><td>Locked rotor time</td><td>: 34s (cold) 19s (hot)</td></tr> <tr><td>Output</td><td>:</td><td>60 HP (45 kW)</td><td>Temperature rise</td><td>: 80 K</td></tr> <tr><td>Poles</td><td>:</td><td>4</td><td>Duty cycle</td><td>: Cont.(S1)</td></tr> <tr><td>Frequency</td><td>:</td><td>60 Hz</td><td>Ambient temperature</td><td>: -20°C to +40°C</td></tr> <tr><td>Rated voltage</td><td>:</td><td>230/460 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>:</td><td>140/69.9 A</td><td>Protection degree</td><td>: IP23</td></tr> <tr><td>L. R. Amperes</td><td>:</td><td>909/454 A</td><td>Cooling method</td><td>: IC01 - ODP</td></tr> <tr><td>LRC</td><td>:</td><td>6.5x(Code G)</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>No load current</td><td>:</td><td>49.4/24.7 A</td><td>Rotation<sup>1</sup></td><td>: Both (CW and CCW)</td></tr> <tr><td>Rated speed</td><td>:</td><td>1780 rpm</td><td>Noise level<sup>2</sup></td><td>: 69.0 dB(A)</td></tr> <tr><td>Slip</td><td>:</td><td>1.11 %</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Rated torque</td><td>:</td><td>177 ft.lb</td><td>Approx. weight<sup>3</sup></td><td>: 780 lb</td></tr> <tr><td>Locked rotor torque</td><td>:</td><td>200 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>:</td><td>240 %</td><td></td><td></td></tr> <tr><td>Insulation class</td><td>:</td><td>F</td><td></td><td></td></tr> <tr><td>Service factor</td><td>:</td><td>1.25</td><td></td><td></td></tr> <tr><td>Moment of inertia (J)</td><td>:</td><td>15.6 sq.ft.lb</td><td></td><td></td></tr> <tr><td>Design</td><td>:</td><td>B</td><td></td><td></td></tr> </table>				Frame	:	364/5TC	Locked rotor time	: 34s (cold) 19s (hot)	Output	:	60 HP (45 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	:	140/69.9 A	Protection degree	: IP23	L. R. Amperes	:	909/454 A	Cooling method	: IC01 - ODP	LRC	:	6.5x(Code G)	Mounting	: F-1	No load current	:	49.4/24.7 A	Rotation <sup>1</sup>	: Both (CW and CCW)	Rated speed	:	1780 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)	Slip	:	1.11 %	Starting method	: Direct On Line	Rated torque	:	177 ft.lb	Approx. weight <sup>3</sup>	: 780 lb	Locked rotor torque	:	200 %			Breakdown torque	:	240 %			Insulation class	:	F			Service factor	:	1.25			Moment of inertia (J)	:	15.6 sq.ft.lb			Design	:	B			
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Output	25%	50%	75%	100%	Foundation loads																																																																																									
Efficiency (%)	94.4	93.4	94.5	93.5	Max. traction : 1246 lb																																																																																									
	93.4	93.4	93.5	93.5	Max. compression : 2026 lb																																																																																									
Power Factor	0.48	0.49	0.73	0.74	<table> <tr><td>Drive end</td><td>6314 C3</td><td>Non drive end</td><td>6212 Z C3</td></tr> <tr><td>Bearing type</td><td></td><td>Without Bearing Seal</td><td>Without Bearing Seal</td></tr> <tr><td>Sealing</td><td></td><td>20000 h</td><td>20000 h</td></tr> <tr><td>Lubrication interval</td><td></td><td>27 g</td><td>13 g</td></tr> <tr><td>Lubricant amount</td><td></td><td colspan="2" rowspan="6">Mobil Polyrex EM</td></tr> </table>			Drive end	6314 C3	Non drive end	6212 Z C3	Bearing type		Without Bearing Seal	Without Bearing Seal	Sealing		20000 h	20000 h	Lubrication interval		27 g	13 g	Lubricant amount		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	Date																																																																																								
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