

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																																																														
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14494889																																																																																										
				Catalog # : 02018OT3H256TC-W40																																																																																										
<table> <tr><td>Frame</td><td>:</td><td>254/6TC</td><td>Locked rotor time</td><td>: 46s (cold) 26s (hot)</td></tr> <tr><td>Output</td><td>:</td><td>20 HP (15 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>575 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>:</td><td>19.3 A</td><td>Protection degree</td><td>: IP23</td></tr> <tr><td>L. R. Amperes</td><td>:</td><td>123 A</td><td>Cooling method</td><td>: IC01 - ODP</td></tr> <tr><td>LRC</td><td>:</td><td>6.4x(Code G)</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>No load current</td><td>:</td><td>8.00 A</td><td>Rotation¹</td><td>: Both (CW and CCW)</td></tr> <tr><td>Rated speed</td><td>:</td><td>1770 rpm</td><td>Noise level²</td><td>: 62.0 dB(A)</td></tr> <tr><td>Slip</td><td>:</td><td>1.67 %</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Rated torque</td><td>:</td><td>59.3 ft.lb</td><td>Approx. weight³</td><td>: 283 lb</td></tr> <tr><td>Locked rotor torque</td><td>:</td><td>220 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>:</td><td>250 %</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>3.13 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	:	254/6TC	Locked rotor time	: 46s (cold) 26s (hot)	Output	:	20 HP (15 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	:	19.3 A	Protection degree	: IP23	L. R. Amperes	:	123 A	Cooling method	: IC01 - ODP	LRC	:	6.4x(Code G)	Mounting	: F-1	No load current	:	8.00 A	Rotation ¹	: Both (CW and CCW)	Rated speed	:	1770 rpm	Noise level ²	: 62.0 dB(A)	Slip	:	1.67 %	Starting method	: Direct On Line	Rated torque	:	59.3 ft.lb	Approx. weight ³	: 283 lb	Locked rotor torque	:	220 %			Breakdown torque	:	250 %			Insulation class	:	F			Service factor	:	1.25			Moment of inertia (J)	:	3.13 sq.ft.lb			Design	:	B			
Frame	:	254/6TC	Locked rotor time	: 46s (cold) 26s (hot)																																																																																										
Output	:	20 HP (15 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	:	19.3 A	Protection degree	: IP23																																																																																										
L. R. Amperes	:	123 A	Cooling method	: IC01 - ODP																																																																																										
LRC	:	6.4x(Code G)	Mounting	: F-1																																																																																										
No load current	:	8.00 A	Rotation ¹	: Both (CW and CCW)																																																																																										
Rated speed	:	1770 rpm	Noise level ²	: 62.0 dB(A)																																																																																										
Slip	:	1.67 %	Starting method	: Direct On Line																																																																																										
Rated torque	:	59.3 ft.lb	Approx. weight ³	: 283 lb																																																																																										
Locked rotor torque	:	220 %																																																																																												
Breakdown torque	:	250 %																																																																																												
Insulation class	:	F																																																																																												
Service factor	:	1.25																																																																																												
Moment of inertia (J)	:	3.13 sq.ft.lb																																																																																												
Design	:	B																																																																																												
Output	25%	50%	75%	100%	Foundation loads																																																																																									
Efficiency (%)	92.2	92.4	93.0	93.0	Max. traction																																																																																									
Power Factor	0.43	0.69	0.79	0.84	Max. compression																																																																																									
<table> <tr><td>Bearing type</td><td>:</td><td>Drive end</td><td>Non drive end</td><td></td></tr> <tr><td></td><td></td><td>6309 Z C3</td><td>6209 Z C3</td><td></td></tr> <tr><td>Sealing</td><td>:</td><td>Without Bearing Seal</td><td>Without Bearing Seal</td><td></td></tr> <tr><td>Lubrication interval</td><td>:</td><td>20000 h</td><td>20000 h</td><td></td></tr> <tr><td>Lubricant amount</td><td>:</td><td>13 g</td><td>9 g</td><td></td></tr> <tr><td>Lubricant type</td><td>:</td><td colspan="3" rowspan="3">Mobil Polyrex EM</td></tr> </table>					Bearing type	:	Drive end	Non drive end				6309 Z C3	6209 Z C3		Sealing	:	Without Bearing Seal	Without Bearing Seal		Lubrication interval	:	20000 h	20000 h		Lubricant amount	:	13 g	9 g		Lubricant type	:	Mobil Polyrex EM																																																														
Bearing type	:	Drive end	Non drive end																																																																																											
		6309 Z C3	6209 Z C3																																																																																											
Sealing	:	Without Bearing Seal	Without Bearing Seal																																																																																											
Lubrication interval	:	20000 h	20000 h																																																																																											
Lubricant amount	:	13 g	9 g																																																																																											
Lubricant type	:	Mobil Polyrex EM																																																																																												
Notes:																																																																																														
<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																																																																																											