

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																																																									
Product line		: Rolled Steel Premium Efficiency Three-Phase		Product code : 12809013																																																																																					
				Catalog # : .3318OT3E56-S																																																																																					
<table> <tr><td>Frame</td><td>:</td><td>56</td><td>Locked rotor time</td><td>: 64s (cold) 36s (hot)</td></tr> <tr><td>Output</td><td>:</td><td>0.33 HP (0.25 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>208-230/460 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>:</td><td>1.48-1.34/0.668 A</td><td>Cooling method</td><td>: IC01 - ODP</td></tr> <tr><td>L. R. Amperes</td><td>:</td><td>9.16-8.28/4.14 A</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>LRC</td><td>:</td><td>6.2x(Code L)</td><td>Rotation¹</td><td>: Both (CW and CCW)</td></tr> <tr><td>No load current</td><td>:</td><td>0.948-1.10/0.550 A</td><td>Noise level²</td><td>: 52.0 dB(A)</td></tr> <tr><td>Rated speed</td><td>:</td><td>1765 rpm</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Slip</td><td>:</td><td>1.94 %</td><td>Approx. weight³</td><td>: 17.2 lb</td></tr> <tr><td>Rated torque</td><td>:</td><td>0.982 ft.lb</td><td></td><td></td></tr> <tr><td>Locked rotor torque</td><td>:</td><td>229 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>:</td><td>330 %</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>1.35</td><td></td><td></td></tr> <tr><td>Moment of inertia (J)</td><td>:</td><td>0.0453 sq.ft.lb</td><td></td><td></td></tr> </table>				Frame	:	56	Locked rotor time	: 64s (cold) 36s (hot)	Output	:	0.33 HP (0.25 kW)	Temperature rise	: 80 K	Poles	:	4	Duty cycle	: Cont.(S1)	Frequency	:	60 Hz	Ambient temperature	: -20°C to +40°C	Rated voltage	:	208-230/460 V	Altitude	: 1000 m.a.s.l.	Rated current	:	1.48-1.34/0.668 A	Cooling method	: IC01 - ODP	L. R. Amperes	:	9.16-8.28/4.14 A	Mounting	: F-1	LRC	:	6.2x(Code L)	Rotation ¹	: Both (CW and CCW)	No load current	:	0.948-1.10/0.550 A	Noise level ²	: 52.0 dB(A)	Rated speed	:	1765 rpm	Starting method	: Direct On Line	Slip	:	1.94 %	Approx. weight ³	: 17.2 lb	Rated torque	:	0.982 ft.lb			Locked rotor torque	:	229 %			Breakdown torque	:	330 %			Insulation class	:	F			Service factor	:	1.35			Moment of inertia (J)	:	0.0453 sq.ft.lb			
Frame	:	56	Locked rotor time	: 64s (cold) 36s (hot)																																																																																					
Output	:	0.33 HP (0.25 kW)	Temperature rise	: 80 K																																																																																					
Poles	:	4	Duty cycle	: Cont.(S1)																																																																																					
Frequency	:	60 Hz	Ambient temperature	: -20°C to +40°C																																																																																					
Rated voltage	:	208-230/460 V	Altitude	: 1000 m.a.s.l.																																																																																					
Rated current	:	1.48-1.34/0.668 A	Cooling method	: IC01 - ODP																																																																																					
L. R. Amperes	:	9.16-8.28/4.14 A	Mounting	: F-1																																																																																					
LRC	:	6.2x(Code L)	Rotation ¹	: Both (CW and CCW)																																																																																					
No load current	:	0.948-1.10/0.550 A	Noise level ²	: 52.0 dB(A)																																																																																					
Rated speed	:	1765 rpm	Starting method	: Direct On Line																																																																																					
Slip	:	1.94 %	Approx. weight ³	: 17.2 lb																																																																																					
Rated torque	:	0.982 ft.lb																																																																																							
Locked rotor torque	:	229 %																																																																																							
Breakdown torque	:	330 %																																																																																							
Insulation class	:	F																																																																																							
Service factor	:	1.35																																																																																							
Moment of inertia (J)	:	0.0453 sq.ft.lb																																																																																							
Output	25%	50%	75%	100%																																																																																					
Efficiency (%)	59.2	63.1	62.0	65.0	70.0	70.6	73.4	72.5																																																																																	
	57.6		60.4		67.8		71.2																																																																																		
Power Factor	0.24	0.28	0.44	0.51	0.55	0.64	0.64	0.73																																																																																	
	0.24		0.44		0.56		0.66																																																																																		
<table> <tr> <td colspan="2"></td><td>Drive end</td><td colspan="2">Non drive end</td></tr> <tr> <td colspan="2">Bearing type</td><td>6203 ZZ</td><td colspan="2">6202 ZZ</td></tr> <tr> <td colspan="2">Sealing</td><td>Without Bearing Seal</td><td colspan="2">Without Bearing Seal</td></tr> <tr> <td colspan="2">Lubrication interval</td><td>-</td><td colspan="2">-</td></tr> <tr> <td colspan="2">Lubricant amount</td><td>-</td><td colspan="2" rowspan="5">-</td></tr> <tr> <td colspan="2">Lubricant type</td><td colspan="3" rowspan="4">Mobil Polyrex EM</td></tr> </table>							Drive end	Non drive end		Bearing type		6203 ZZ	6202 ZZ		Sealing		Without Bearing Seal	Without Bearing Seal		Lubrication interval		-	-		Lubricant amount		-	-		Lubricant type		Mobil Polyrex EM																																																									
		Drive end	Non drive end																																																																																						
Bearing type		6203 ZZ	6202 ZZ																																																																																						
Sealing		Without Bearing Seal	Without Bearing Seal																																																																																						
Lubrication interval		-	-																																																																																						
Lubricant amount		-	-																																																																																						
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>																																																																																									
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																																																																																			
Performed by					Page 1 / 1																																																																																				
Checked by																																																																																									
Date	27/03/2024																																																																																								
Customer :																																																																																									
Product line		: Rolled Steel Premium Efficiency Three-Phase		Product code : 12809013																																																																																					
				Catalog # : .3318OT3E56-S																																																																																					
<table> <tr><td>Frame</td><td>:</td><td>56</td><td>Locked rotor time</td><td>: 64s (cold) 36s (hot)</td></tr> <tr><td>Output</td><td>:</td><td>0.33 HP (0.25 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>208-230/460 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>:</td><td>1.48-1.34/0.668 A</td><td>Cooling method</td><td>: IC01 - ODP</td></tr> <tr><td>L. R. Amperes</td><td>:</td><td>9.16-8.28/4.14 A</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>LRC</td><td>:</td><td>6.2x(Code L)</td><td>Rotation¹</td><td>: Both (CW and CCW)</td></tr> <tr><td>No load current</td><td>:</td><td>0.948-1.10/0.550 A</td><td>Noise level²</td><td>: 52.0 dB(A)</td></tr> <tr><td>Rated speed</td><td>:</td><td>1765 rpm</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Slip</td><td>:</td><td>1.94 %</td><td>Approx. weight³</td><td>: 17.2 lb</td></tr> <tr><td>Rated torque</td><td>:</td><td>0.982 ft.lb</td><td></td><td></td></tr> <tr><td>Locked rotor torque</td><td>:</td><td>229 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>:</td><td>330 %</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>1.35</td><td></td><td></td></tr> <tr><td>Moment of inertia (J)</td><td>:</td><td>0.0453 sq.ft.lb</td><td></td><td></td></tr> </table>				Frame	:	56	Locked rotor time	: 64s (cold) 36s (hot)	Output	:	0.33 HP (0.25 kW)	Temperature rise	: 80 K	Poles	:	4	Duty cycle	: Cont.(S1)	Frequency	:	60 Hz	Ambient temperature	: -20°C to +40°C	Rated voltage	:	208-230/460 V	Altitude	: 1000 m.a.s.l.	Rated current	:	1.48-1.34/0.668 A	Cooling method	: IC01 - ODP	L. R. Amperes	:	9.16-8.28/4.14 A	Mounting	: F-1	LRC	:	6.2x(Code L)	Rotation ¹	: Both (CW and CCW)	No load current	:	0.948-1.10/0.550 A	Noise level ²	: 52.0 dB(A)	Rated speed	:	1765 rpm	Starting method	: Direct On Line	Slip	:	1.94 %	Approx. weight ³	: 17.2 lb	Rated torque	:	0.982 ft.lb			Locked rotor torque	:	229 %			Breakdown torque	:	330 %			Insulation class	:	F			Service factor	:	1.35			Moment of inertia (J)	:	0.0453 sq.ft.lb			
Frame	:	56	Locked rotor time	: 64s (cold) 36s (hot)																																																																																					
Output	:	0.33 HP (0.25 kW)	Temperature rise	: 80 K																																																																																					
Poles	:	4	Duty cycle	: Cont.(S1)																																																																																					
Frequency	:	60 Hz	Ambient temperature	: -20°C to +40°C																																																																																					
Rated voltage	:	208-230/460 V	Altitude	: 1000 m.a.s.l.																																																																																					
Rated current	:	1.48-1.34/0.668 A	Cooling method	: IC01 - ODP																																																																																					
L. R. Amperes	:	9.16-8.28/4.14 A	Mounting	: F-1																																																																																					
LRC	:	6.2x(Code L)	Rotation ¹	: Both (CW and CCW)																																																																																					
No load current	:	0.948-1.10/0.550 A	Noise level ²	: 52.0 dB(A)																																																																																					
Rated speed	:	1765 rpm	Starting method	: Direct On Line																																																																																					
Slip	:	1.94 %	Approx. weight ³	: 17.2 lb																																																																																					
Rated torque	:	0.982 ft.lb																																																																																							
Locked rotor torque	:	229 %																																																																																							
Breakdown torque	:	330 %																																																																																							
Insulation class	:	F																																																																																							
Service factor	:	1.35																																																																																							
Moment of inertia (J)	:	0.0453 sq.ft.lb																																																																																							
Output	25%	50%	75%	100%	Foundation loads																																																																																				
Efficiency (%)	59.2	63.1	62.0	65.0	Max. traction : 26 lb																																																																																				
	57.6		60.4	67.8	Max. compression : 43 lb																																																																																				
Power Factor	0.24	0.28	0.44	0.51																																																																																					
	0.24		0.44	0.56																																																																																					
<table> <tr> <td colspan="2"></td><td>Drive end</td><td colspan="2">Non drive end</td></tr> <tr> <td colspan="2">Bearing type</td><td>6203 ZZ</td><td colspan="2">6202 ZZ</td></tr> <tr> <td colspan="2">Sealing</td><td>Without Bearing Seal</td><td colspan="2">Without Bearing Seal</td></tr> <tr> <td colspan="2">Lubrication interval</td><td>-</td><td colspan="2">-</td></tr> <tr> <td colspan="2">Lubricant amount</td><td>-</td><td colspan="2" rowspan="6">-</td></tr> <tr> <td colspan="2">Lubricant type</td><td colspan="3" rowspan="5">Mobil Polyrex EM</td></tr> </table>							Drive end	Non drive end		Bearing type		6203 ZZ	6202 ZZ		Sealing		Without Bearing Seal	Without Bearing Seal		Lubrication interval		-	-		Lubricant amount		-	-		Lubricant type		Mobil Polyrex EM																																																									
		Drive end	Non drive end																																																																																						
Bearing type		6203 ZZ	6202 ZZ																																																																																						
Sealing		Without Bearing Seal	Without Bearing Seal																																																																																						
Lubrication interval		-	-																																																																																						
Lubricant amount		-	-																																																																																						
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>					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																																																																																			
Performed by					Page 1 / 1																																																																																				
Checked by																																																																																									
Date	27/03/2024																																																																																								