

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																						
Product line	: Rolled Steel High Efficiency Three-Phase		Product code :	12677355																		
Frame	: 182/4TC		Locked rotor time	: 23s (cold) 13s (hot)																		
Output	: 5 HP (3.7 kW)		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	: 12.1/6.03 A		Protection degree	: IP55																		
L. R. Amperes	: 89.2/44.6 A		Cooling method	: IC411 - TEFC																		
LCR	: 7.4x(Code J)		Mounting	: W-6																		
No load current	: 4.80/2.40 A		Rotation ¹	: Both (CW and CCW)																		
Rated speed	: 3495 rpm		Noise level ²	: 68.0 dB(A)																		
Slip	: 2.92 %		Starting method	: Direct On Line																		
Rated torque	: 7.51 ft.lb		Approx. weight ³	: 79.3 lb																		
Locked rotor torque	: 210 %																					
Breakdown torque	: 340 %																					
Insulation class	: F																					
Service factor	: 1.15																					
Moment of inertia (J)	: 0.1739 sq.ft.lb																					
Design	: B																					
Output	25%	50%	75%	100%																		
Efficiency (%)	86.2	86.5	87.5	87.5																		
Power Factor	0.46	0.72	0.83	0.88																		
<table border="0"> <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>: 6206 ZZ</td><td>6205 ZZ</td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>Without Bearing Seal</td></tr> <tr> <td>Lubrication interval</td><td>: -</td><td>-</td></tr> <tr> <td>Lubricant amount</td><td>: -</td><td>-</td></tr> <tr> <td>Lubricant type</td><td colspan="2" rowspan="3" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>						Drive end	Non drive end	Bearing type	: 6206 ZZ	6205 ZZ	Sealing	: V'Ring	Without Bearing Seal	Lubrication interval	: -	-	Lubricant amount	: -	-	Lubricant type	Mobil Polyrex EM	
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<p>Notes:</p> <p>USABLE @208V 13.2A SF 1.00 SFA 13.2A</p>																						
<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																		
Performed by																						
Checked by				Page																		
Date	26/03/2024			Revision																		
				1 / 1																		