

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :																							
Product line	: Close Coupled Pump Single-Phase		Product code :	11833339																			
Frame	: 145JP		Locked rotor time	: 14s (cold) 8s (hot)																			
Output	: 3 HP (2.2 kW)		Temperature rise	: 80 K																			
Poles	: 2		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	: 14.6-13.5/6.75 A		Protection degree	: IP55																			
L. R. Amperes	: 102-94.5/47.2 A		Cooling method	: IC411 - TEFC																			
LRC	: 7.0x(Code J)		Mounting	: F-1																			
No load current	: 4.57-5.30/2.65 A		Rotation ¹	: Both (CW and CCW)																			
Rated speed	: 3500 rpm		Starting method	: Direct On Line																			
Slip	: 2.78 %		Approx. weight ³	: 68.1 lb																			
Rated torque	: 4.50 ft.lb																						
Locked rotor torque	: 210 %																						
Breakdown torque	: 229 %																						
Insulation class	: F																						
Service factor	: 1.15																						
Moment of inertia (J)	: 0.0664 sq.ft.lb																						
Output	25%	50%	75%	100%																			
Efficiency (%)	74.2	75.0	78.5	79.0																			
Power Factor	0.51	0.79	0.87	0.90																			
<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>: 6203 ZZ</td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>: V'Ring</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="3" rowspan="3" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>						Drive end	Non drive end	Bearing type	: 6206 ZZ	: 6203 ZZ	Sealing	: V'Ring	: V'Ring	Lubrication interval	: -	: -	Lubricant amount	: -	: -	Lubricant type	Mobil Polyrex EM		
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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																			
Performed by																							
Checked by																							
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