

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																																														
Product line : W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code : 13039455 Catalog # : 03012ET3E326JP-W22																																													
Frame : 324/6JP Output : 30 HP (22 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 72.4/36.2 A L. R. Amperes : 449/225 A LRC : 6.2x(Code G) No load current : 32.8/16.4 A Rated speed : 1180 rpm Slip : 1.67 % Rated torque : 134 ft.lb Locked rotor torque : 220 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 13.2 sq.ft.lb Design : B	Locked rotor time : 37s (cold) 21s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 62.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 560 lb																																													
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> <td>Foundation loads</td> <td></td> </tr> <tr> <td rowspan="4">Efficiency (%)</td> <td>91.5</td> <td>91.2</td> <td>91.7</td> <td>91.3</td> <td rowspan="4">Max. traction</td> <td rowspan="4">: 1201 lb</td> </tr> <tr> <td>91.2</td> <td>90.4</td> <td>91.3</td> <td>90.7</td> </tr> <tr> <td>92.1</td> <td>92.1</td> <td>91.7</td> <td>91.7</td> </tr> <tr> <td>91.3</td> <td>91.0</td> <td>92.4</td> <td>91.7</td> </tr> <tr> <td rowspan="4">Power Factor</td> <td>0.40</td> <td>0.40</td> <td>0.65</td> <td>0.64</td> <td rowspan="4">Max. compression</td> <td rowspan="4">: 1760 lb</td> </tr> <tr> <td>0.37</td> <td>0.34</td> <td>0.61</td> <td>0.58</td> </tr> <tr> <td>0.46</td> <td>0.43</td> <td>0.71</td> <td>0.68</td> </tr> <tr> <td>0.40</td> <td>0.65</td> <td>0.76</td> <td>0.82</td> </tr> </table>	Output	25%	50%	75%	100%	Foundation loads		Efficiency (%)	91.5	91.2	91.7	91.3	Max. traction	: 1201 lb	91.2	90.4	91.3	90.7	92.1	92.1	91.7	91.7	91.3	91.0	92.4	91.7	Power Factor	0.40	0.40	0.65	0.64	Max. compression	: 1760 lb	0.37	0.34	0.61	0.58	0.46	0.43	0.71	0.68	0.40	0.65	0.76	0.82	
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Losses at normative operating points (speed;torque), in percentage of rated output power																																														
Losses (%)	P1 (0,9;1,0)	7.3	8.8	8.3	8.4	9.6	8.8	8.8																																						
	P2 (0,5;1,0)	6.1	7.4	7.0	7.1	8.1	7.4	7.4																																						
	P3 (0,25;1,0)	6.0	7.2	6.8	6.9	7.9	7.2	7.2																																						
	P4 (0,9;0,5)	3.6	4.3	4.1	4.2	4.8	4.3	4.3																																						
	P5 (0,5;0,5)	2.5	3.1	2.9	2.9	3.3	3.1	3.1																																						
	P6 (0,5;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1																																						
	P7 (0,25;0,25)	1.2	1.5	1.4	1.4	1.6	1.5	1.5																																						
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :		Drive end 6312 C3 V'Ring 20000 h 21 g		Non drive end 6212 C3 V'Ring 20000 h 13 g			Mobil Polyrex EM																																							
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This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				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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Date	30/03/2024					1 / 1																																								