

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																							
Product line	: W22 High Efficiency Three-Phase		Product code :	11896088																			
Frame	: 447/9T	Locked rotor time	: 25s (cold) 14s (hot)																				
Output	: 300 HP (220 kW)	Temperature rise	: 80 K																				
Poles	: 4	Duty cycle	: Cont.(S1)																				
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																				
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.																				
Rated current	: 337 A	Protection degree	: IP55																				
L. R. Amperes	: 2191 A	Cooling method	: IC411 - TEFC																				
LRC	: 6.5x(Code G)	Mounting	: F-1																				
No load current	: 105 A	Rotation ¹	: Both (CW and CCW)																				
Rated speed	: 1780 rpm	Noise level ²	: 75.0 dB(A)																				
Slip	: 1.11 %	Starting method	: Direct On Line																				
Rated torque	: 885 ft.lb	Approx. weight ³	: 2725 lb																				
Locked rotor torque	: 229 %																						
Breakdown torque	: 229 %																						
Insulation class	: F																						
Service factor	: 1.15																						
Moment of inertia (J)	: 105 sq.ft.lb																						
Design	: B																						
Output	25%	50%	75%	100%																			
Efficiency (%)	95.6 95.3 95.4 95.0 95.8 95.5 95.4 95.0	Foundation loads																					
	95.3 95.3 95.0 95.0 95.5 95.5 95.0 95.0	Max. traction	: 4786 lb																				
Power Factor	0.52 0.52 0.76 0.77 0.84 0.84 0.86 0.87	Max. compression	: 7511 lb																				
	0.50 0.48 0.75 0.74 0.83 0.82 0.86 0.85																						
Losses at normative operating points (speed;torque), in percentage of rated output power																							
Losses (%)	P1 (0,9;1,0)	4.9	5.4	5.4																			
	P2 (0,5;1,0)	4.1	4.5	4.5																			
	P3 (0,25;1,0)	3.8	4.1	4.1																			
	P4 (0,9;0,5)	2.4	2.6	2.6																			
	P5 (0,5;0,5)	1.7	1.8	1.8																			
	P6 (0,5;0,25)	1.1	1.2	1.2																			
	P7 (0,25;0,25)	0.7	0.7	0.7																			
<table> <thead> <tr> <th></th> <th>Drive end</th> <th>Non drive end</th> </tr> </thead> <tbody> <tr> <td>Bearing type</td> <td>: NU-322 C3</td> <td>6319 C3</td> </tr> <tr> <td>Sealing</td> <td>: WSeal</td> <td>WSeal</td> </tr> <tr> <td>Lubrication interval</td> <td>: 4000 h</td> <td>8000 h</td> </tr> <tr> <td>Lubricant amount</td> <td>: 60 g</td> <td>45 g</td> </tr> <tr> <td>Lubricant type</td> <td colspan="3" rowspan="3">: Mobil Polyrex EM</td></tr> </tbody> </table>						Drive end	Non drive end	Bearing type	: NU-322 C3	6319 C3	Sealing	: WSeal	WSeal	Lubrication interval	: 4000 h	8000 h	Lubricant amount	: 60 g	45 g	Lubricant type	: Mobil Polyrex EM		
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<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				Page																			
Checked by				Revision																			
Date	28/03/2024			1 / 1																			