

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	11992396																							
				Catalog # :	00736ET3H184TC-W22																							
Frame	: 182/4TC	Locked rotor time	: 30s (cold) 17s (hot)																									
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K																									
Poles	: 2	Duty cycle	: Cont.(S1)																									
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																									
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.																									
Rated current	: 7.01 A	Protection degree	: IP55																									
L. R. Amperes	: 57.5 A	Cooling method	: IC411 - TEFC																									
LRC	: 8.2x(Code J)	Mounting	: F-1																									
No load current	: 2.32 A	Rotation ¹	: Both (CW and CCW)																									
Rated speed	: 3485 rpm	Noise level ²	: 66.0 dB(A)																									
Slip	: 3.19 %	Starting method	: Direct On Line																									
Rated torque	: 11.3 ft.lb	Approx. weight ³	: 102 lb																									
Locked rotor torque	: 270 %																											
Breakdown torque	: 330 %																											
Insulation class	: F																											
Service factor	: 1.25																											
Moment of inertia (J)	: 0.2242 sq.ft.lb																											
Design	: A																											
Output	50%	75%	100%	Foundation loads																								
Efficiency (%)	88.5	89.5	89.5	Max. traction	: 187 lb																							
Power Factor	0.75	0.84	0.88	Max. compression	: 289 lb																							
Losses at normative operating points (speed;torque), in percentage of rated output power																												
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)																						
11.4	9.4	8.7	5.3	3.4	2.1	1.3																						
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th><th style="width: 50%;">Drive end</th><th style="width: 50%;">Non drive end</th></tr> </thead> <tbody> <tr> <td>Bearing type</td><td>: 6207 ZZ</td><td>: 6206 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">: Mobil Polyrex EM</td><td></td><td></td><td></td></tr> </tbody></table>								Drive end	Non drive end	Bearing type	: 6207 ZZ	: 6206 ZZ	Sealing	: V'Ring	: V'Ring	Lubrication interval	: -	: -	Lubricant amount	: -	: -	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>				<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>																								
Rev.	Changes Summary			Performed	Checked	Date																						
Performed by					Page	Revision																						
Checked by																												
Date	29/03/2024				1 / 1																							