

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	12744550																																											
				Catalog # :	00159ET3H184T-W22																																											
Frame	: 182/4T	Locked rotor time	: 30s (cold) 17s (hot)																																													
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K																																													
Poles	: 8	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	: 2.27 A	Protection degree	: IP55																																													
L. R. Amperes	: 13.4 A	Cooling method	: IC411 - TEFC																																													
LRC	: 5.9x(Code K)	Mounting	: F-1																																													
No load current	: 1.68 A	Rotation ¹	: Both (CW and CCW)																																													
Rated speed	: 860 rpm	Noise level ²	: 50.0 dB(A)																																													
Slip	: 4.44 %	Starting method	: Direct On Line																																													
Rated torque	: 9.16 ft.lb	Approx. weight ³	: 77.2 lb																																													
Locked rotor torque	: 229 %																																															
Breakdown torque	: 290 %																																															
Insulation class	: F																																															
Service factor	: 1.25																																															
Moment of inertia (J)	: 0.5766 sq.ft.lb																																															
Design	: B																																															
Output	50%	75%	100%	Foundation loads																																												
Efficiency (%)	76.0	78.0	78.5	Max. traction	: 131 lb																																											
Power Factor	0.43	0.54	0.62	Max. compression	: 208 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)																																										
25.9	20.5	18.6	18.4	13.2	11.6	8.8																																										
<table border="0"> <tr> <td></td><td style="text-align: center;">Drive end</td><td style="text-align: center;">Non drive end</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Bearing type</td><td>: 6207 ZZ</td><td>: 6206 ZZ</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>: V'Ring</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Lubrication interval</td><td>: -</td><td>: -</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Lubricant amount</td><td>: -</td><td>: -</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Lubricant type</td><td>: Mobil Polyrex EM</td><td></td><td></td><td></td><td></td><td></td></tr> </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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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	26/03/2024				1 / 1																																											