

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	12446944																																											
				Catalog # :	01512ET3H284T-W22																																											
Frame	: 284/6T	Locked rotor time	: 36s (cold) 20s (hot)																																													
Output	: 15 HP (11 kW)	Temperature rise	: 80 K																																													
Poles	: 6	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	: 14.3 A	Protection degree	: IP55																																													
L. R. Amperes	: 91.8 A	Cooling method	: IC411 - TEFC																																													
LRC	: 6.4x(Code G)	Mounting	: F-1																																													
No load current	: 5.60 A	Rotation ¹	: Both (CW and CCW)																																													
Rated speed	: 1175 rpm	Noise level ²	: 59.0 dB(A)																																													
Slip	: 2.08 %	Starting method	: Direct On Line																																													
Rated torque	: 67.0 ft.lb	Approx. weight ³	: 392 lb																																													
Locked rotor torque	: 229 %																																															
Breakdown torque	: 260 %																																															
Insulation class	: F																																															
Service factor	: 1.25																																															
Moment of inertia (J)	: 7.85 sq.ft.lb																																															
Design	: B																																															
Output	50%	75%	100%	Foundation loads																																												
Efficiency (%)	91.0	91.7	91.7	Max. traction	: 564 lb																																											
Power Factor	0.69	0.80	0.84	Max. compression	: 956 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)																																										
8.6	6.9	6.2	4.3	2.8	1.8	1.2																																										
<table border="0"> <tr> <td colspan="4" style="text-align: center;">Drive end</td><td colspan="3" style="text-align: center;">Non drive end</td></tr> <tr> <td>Bearing type</td><td>: 6311 C3</td><td></td><td></td><td>6211 C3</td><td></td><td></td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td></td><td></td><td>V'Ring</td><td></td><td></td></tr> <tr> <td>Lubrication interval</td><td>: 20000 h</td><td></td><td></td><td>20000 h</td><td></td><td></td></tr> <tr> <td>Lubricant amount</td><td>: 18 g</td><td></td><td></td><td>11 g</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	: 6311 C3			6211 C3			Sealing	: V'Ring			V'Ring			Lubrication interval	: 20000 h			20000 h			Lubricant amount	: 18 g			11 g			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	28/03/2024				1 / 1																																											