

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																		
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	11457867													
				Catalog # :	05018ET3H326T-W22													
Frame	: 324/6T	Locked rotor time	: 27s (cold) 15s (hot)															
Output	: 50 HP (37 kW)	Temperature rise	: 80 K															
Poles	: 4	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	: 47.4 A	Protection degree	: IP55															
L. R. Amperes	: 294 A	Cooling method	: IC411 - TEFC															
LRC	: 6.2x(Code G)	Mounting	: F-1															
No load current	: 18.8 A	Rotation <sup>1</sup>	: Both (CW and CCW)															
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 70.0 dB(A)															
Slip	: 1.39 %	Starting method	: Direct On Line															
Rated torque	: 148 ft.lb	Approx. weight <sup>3</sup>	: 594 lb															
Locked rotor torque	: 229 %																	
Breakdown torque	: 270 %																	
Insulation class	: F																	
Service factor	: 1.25																	
Moment of inertia (J)	: 9.16 sq.ft.lb																	
Design	: B																	
Output	25%	50%	75%	100%	Foundation loads													
Efficiency (%)	0.000	93.0	94.1	94.5	Max. traction	: 1236 lb												
Power Factor	0.00	0.66	0.77	0.83	Max. compression	: 1830 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)												
5.7	4.9	4.7	2.7	1.9	1.2	0.9												
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center; padding-bottom: 5px;">Drive end</th><th style="width: 50%; text-align: center; padding-bottom: 5px;">Non drive end</th></tr> </thead> <tbody> <tr> <td>Bearing type : 6312 C3</td><td>6212 C3</td></tr> <tr> <td>Sealing : V'Ring</td><td>V'Ring</td></tr> <tr> <td>Lubrication interval : 20000 h</td><td>20000 h</td></tr> <tr> <td>Lubricant amount : 21 g</td><td>13 g</td></tr> <tr> <td>Lubricant type : Mobil Polyrex EM</td><td></td></tr> </tbody> </table>							Drive end	Non drive end	Bearing type : 6312 C3	6212 C3	Sealing : V'Ring	V'Ring	Lubrication interval : 20000 h	20000 h	Lubricant amount : 21 g	13 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>				<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													