

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	11556413																							
				Catalog # :	05018ET3H326TC-W22																							
Frame	: 324/6TC	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>	: 610 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	: 1228 lb																						
Power Factor	0.00	0.66	0.77	0.83	Max. compression	: 1838 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%;"></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>: 6312 C3</td><td>: 6212 C3</td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>: V'Ring</td></tr> <tr> <td>Lubrication interval</td><td>: 20000 h</td><td>: 20000 h</td></tr> <tr> <td>Lubricant amount</td><td>: 21 g</td><td>: 13 g</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	: 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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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																						
Performed by					Page	Revision																						
Checked by																												
Date	29/03/2024				1 / 1																							