

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																		
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase			Product code :	14425095													
				Catalog # :	05018ET3HCT326TF1-W2													
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 ¹	:	Both (CW and CCW)													
Rated speed	:	1775 rpm	Noise level ²	:	70.0 dB(A)													
Slip	:	1.39 %	Starting method	:	Direct On Line													
Rated torque	:	148 ft.lb	Approx. weight ³	:	599 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 (%)	92.5	93.0	94.1	94.5														
Power Factor	0.42	0.66	0.77	0.83														
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 2RS C3</td><td>6212 2RS C3</td></tr> <tr> <td>Sealing : V'Ring</td><td>V'Ring</td></tr> <tr> <td>Lubrication interval : -</td><td>-</td></tr> <tr> <td>Lubricant amount : -</td><td>-</td></tr> <tr> <td>Lubricant type : Mobil Polyrex EM</td><td></td></tr> </tbody> </table>							Drive end	Non drive end	Bearing type : 6312 2RS C3	6212 2RS C3	Sealing : V'Ring	V'Ring	Lubrication interval : -	-	Lubricant amount : -	-	Lubricant type : Mobil Polyrex EM	
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Notes:																		
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.														
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Date	28/03/2024																	

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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