

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																									
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase			Product code :	12095894																				
				Catalog # :	10018ET3PCT405T-W22																				
Frame	: 404/5T	Locked rotor time	: 23s (cold) 13s (hot)																						
Output	: 100 HP (75 kW)	Temperature rise	: 80 K																						
Poles	: 4	Duty cycle	: Cont.(S1)																						
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																						
Rated voltage	: 200 V	Altitude	: 1000 m.a.s.l.																						
Rated current	: 260 A	Protection degree	: IP55																						
L. R. Amperes	: 1897 A	Cooling method	: IC411 - TEFC																						
LRC	: 7.3x(Code H)	Mounting	: F-2																						
No load current	: 87.4 A	Rotation ¹	: Both (CW and CCW)																						
Rated speed	: 1780 rpm	Noise level ²	: 68.0 dB(A)																						
Slip	: 1.11 %	Starting method	: Direct On Line																						
Rated torque	: 295 ft.lb	Approx. weight ³	: 0.0 lb																						
Locked rotor torque	: 240 %																								
Breakdown torque	: 260 %																								
Insulation class	: F																								
Service factor	: 1.25																								
Moment of inertia (J)	: 29.9 sq.ft.lb																								
Design	: B																								
Output	25%	50%	75%	100%	Foundation loads																				
Efficiency (%)	94.6	95.0	95.0	95.4	Max. traction	: 2302 lb																			
Power Factor	0.51	0.77	0.84	0.87	Max. compression	: 2302 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)																			
4.7	3.8	3.7	2.2	1.5	0.9	0.6																			
<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>: 6316 2RS C3</td><td>: 6314 2RS C3</td></tr> <tr> <td>Sealing</td><td>: WSeal</td><td>: WSeal</td></tr> <tr> <td>Lubrication interval</td><td>: -</td><td>: -</td></tr> <tr> <td>Lubricant amount</td><td>: -</td><td>: -</td></tr> <tr> <td>Lubricant type</td><td colspan="3" rowspan="3">: POLYREA ESTER OIL (WT/ ENS)</td></tr> </tbody> </table>								Drive end	Non drive end	Bearing type	: 6316 2RS C3	: 6314 2RS C3	Sealing	: WSeal	: WSeal	Lubrication interval	: -	: -	Lubricant amount	: -	: -	Lubricant type	: POLYREA ESTER OIL (WT/ ENS)		
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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.																					
Rev.	Changes Summary			Performed	Checked	Date																			
Performed by					Page	Revision																			
Checked by																									
Date	28/03/2024				1 / 2																				

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Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			2 / 2	