

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																								
Product line	: W22 High Efficiency Three-Phase		Product code :	11474987																				
Frame : 445/7T Output : 250 HP (185 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 460 V Rated current : 286 A L. R. Amperes : 1830 A LRC : 6.4x(Code G) No load current : 80.0 A Rated speed : 1781 rpm Slip : 1.06 % Rated torque : 737 ft.lb Locked rotor torque : 210 % Breakdown torque : 220 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 89.6 sq.ft.lb Design : B		Locked rotor time : 28s (cold) 16s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 73.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 2281 lb																						
Output	25%	50%	75%	100%																				
Efficiency (%)	94.9	95.2	95.0	95.0																				
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Power Factor	0.54	0.54	0.78	0.78																				
	0.51	0.48	0.75	0.73																				
Losses at normative operating points (speed;torque), in percentage of rated output power																								
Losses (%)	P1 (0,9;1,0)	4.8	5.2	4.8	4.8																			
	P2 (0,5;1,0)	3.8	4.2	3.8	3.8																			
	P3 (0,25;1,0)	3.5	3.8	3.5	3.5																			
	P4 (0,9;0,5)	2.3	2.5	2.3	2.3																			
	P5 (0,5;0,5)	1.5	1.6	1.5	1.5																			
	P6 (0,5;0,25)	1.0	1.1	1.0	1.0																			
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6																			
<table> <thead> <tr> <th></th><th>Drive end</th><th>Non drive end</th></tr> </thead> <tbody> <tr> <td>Bearing type</td><td>: 6319 C3</td><td>6316 C3</td></tr> <tr> <td>Sealing</td><td>: WSeal</td><td>WSeal</td></tr> <tr> <td>Lubrication interval</td><td>: 8000 h</td><td>10000 h</td></tr> <tr> <td>Lubricant amount</td><td>: 45 g</td><td>34 g</td></tr> <tr> <td>Lubricant type</td><td colspan="4" rowspan="2">Mobil Polyrex EM</td></tr> </tbody> </table>						Drive end	Non drive end	Bearing type	: 6319 C3	6316 C3	Sealing	: WSeal	WSeal	Lubrication interval	: 8000 h	10000 h	Lubricant amount	: 45 g	34 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	28/03/2024				1 / 1																			