

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																					
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11437959 Catalog # : 00718ET3E213T-W22S																				
Frame : 213T Output : 7.5 HP (5.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 18.4/9.18 A L. R. Amperes : 130/65.2 A LRC : 7.1x(Code H) No load current : 8.40/4.20 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 22.3 ft.lb Locked rotor torque : 220 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.34 sq.ft.lb Design : B	Locked rotor time : 36s (cold) 20s (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 : 58.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 158 lb																				
<table border="1"> <tr> <td>Output</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>89.5 89.5</td> <td>91.0 89.5</td> <td>91.7 89.6</td> </tr> <tr> <td></td> <td>89.5 89.5</td> <td>90.2 90.2</td> <td>90.2 90.2</td> </tr> <tr> <td>Power Factor</td> <td>0.66 0.72</td> <td>0.76 0.81</td> <td>0.82 0.85</td> </tr> <tr> <td></td> <td>0.69 0.66</td> <td>0.78 0.76</td> <td>0.83 0.82</td> </tr> </table>	Output	50%	75%	100%	Efficiency (%)	89.5 89.5	91.0 89.5	91.7 89.6		89.5 89.5	90.2 90.2	90.2 90.2	Power Factor	0.66 0.72	0.76 0.81	0.82 0.85		0.69 0.66	0.78 0.76	0.83 0.82	Foundation loads Max. traction : 361 lb Max. compression : 519 lb
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Losses at normative operating points (speed;torque), in percentage of rated output power																					
Losses (%)	P1 (0,9;1,0)	8.8	8.8	8.8	8.8																
	P2 (0,5;1,0)	7.0	7.0	7.0	7.0																
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5																
	P4 (0,9;0,5)	4.9	4.9	4.9	4.9																
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3																
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4																
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6																
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	<table border="0"> <tr> <td style="text-align: center;"><u>Drive end</u></td> <td style="text-align: center;"><u>Non drive end</u></td> </tr> <tr> <td style="text-align: center;">6308 ZZ</td> <td style="text-align: center;">6207 ZZ</td> </tr> <tr> <td style="text-align: center;">V'Ring</td> <td style="text-align: center;">V'Ring</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td colspan="2" style="text-align: center;">Mobil Polyrex EM</td> </tr> </table>	<u>Drive end</u>	<u>Non drive end</u>	6308 ZZ	6207 ZZ	V'Ring	V'Ring	-	-	-	-	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																					
Checked by			Page	Revision																	
Date	29/03/2024		1 / 1																		