

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																					
Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code : 11677501 Catalog # : 00159ST3QIE184T-W22																				
Frame : 182/4T Output : 1.5 HP (1.1 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 460 V Rated current : 2.84 A L. R. Amperes : 16.8 A LRC : 5.9x(Code K) No load current : 2.10 A Rated speed : 860 rpm Slip : 4.44 % Rated torque : 9.16 ft.lb Locked rotor torque : 229 % Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.5766 sq.ft.lb Design : B	Locked rotor time : 30s (cold) 17s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP56 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 50.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 90.9 lb																				
<table border="1"> <tr> <td>Output</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>76.0 74.0</td> <td>78.0 76.0</td> <td>78.5 77.0</td> </tr> <tr> <td></td> <td>74.5 73.5</td> <td>76.0 76.0</td> <td>76.9 76.9</td> </tr> <tr> <td>Power Factor</td> <td>0.43 0.51</td> <td>0.54 0.62</td> <td>0.62 0.70</td> </tr> <tr> <td></td> <td>0.47 0.44</td> <td>0.58 0.55</td> <td>0.66 0.64</td> </tr> </table>	Output	50%	75%	100%	Efficiency (%)	76.0 74.0	78.0 76.0	78.5 77.0		74.5 73.5	76.0 76.0	76.9 76.9	Power Factor	0.43 0.51	0.54 0.62	0.62 0.70		0.47 0.44	0.58 0.55	0.66 0.64	Foundation loads Max. traction : 146 lb Max. compression : 237 lb
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Losses at normative operating points (speed;torque), in percentage of rated output power																					
Losses (%)	P1 (0,9;1,0)	25.9	28.3	28.4	28.4																
	P2 (0,5;1,0)	20.5	22.4	22.5	22.5																
	P3 (0,25;1,0)	18.6	20.3	20.4	20.4																
	P4 (0,9;0,5)	18.4	20.1	20.2	20.2																
	P5 (0,5;0,5)	13.2	14.4	14.4	14.4																
	P6 (0,5;0,25)	11.6	12.7	12.8	12.8																
	P7 (0,25;0,25)	8.8	9.6	9.7	9.7																
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;">6207 C3</td> <td style="text-align: center;">6206 C3</td> </tr> <tr> <td style="text-align: center;">Inpro/Seal</td> <td style="text-align: center;">Inpro/Seal</td> </tr> <tr> <td style="text-align: center;">20000 h</td> <td style="text-align: center;">20000 h</td> </tr> <tr> <td style="text-align: center;">7 g</td> <td style="text-align: center;">5 g</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>	6207 C3	6206 C3	Inpro/Seal	Inpro/Seal	20000 h	20000 h	7 g	5 g	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																		