

DATA SHEET

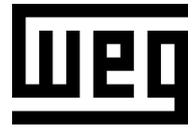


Three Phase Induction Motor - Squirrel Cage

Customer :																																										
Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code : 12126219 Catalog # : 00218AT3ECT145T-W22																																									
Frame : 143/5T Output : 2 HP (1.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 208-230/460 V Rated current : 5.85-5.58/2.79 A L. R. Amperes : 48.6-46.3/23.2 A LRC : 8.3x(Code L) No load current : 2.81-3.26/1.63 A Rated speed : 1750 rpm Slip : 2.78 % Rated torque : 6.00 ft.lb Locked rotor torque : 270 % Breakdown torque : 320 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1561 sq.ft.lb Design : B	Locked rotor time : 18s (cold) 10s (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 : IC418 - TEAO Mounting : F-2 Rotation ¹ : Both (CW and CCW) Noise level ² : 51.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 0.0 lb																																									
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> <td>Foundation loads</td> <td></td> </tr> <tr> <td rowspan="3">Efficiency (%)</td> <td>85.2</td> <td>83.5</td> <td>85.5</td> <td>84.0</td> <td rowspan="3">Max. traction</td> <td rowspan="3">: 183 lb</td> </tr> <tr> <td>80.9</td> <td>80.3</td> <td>82.0</td> <td>81.4</td> </tr> <tr> <td>86.7</td> <td>83.7</td> <td>85.5</td> <td>84.0</td> </tr> <tr> <td rowspan="4">Power Factor</td> <td>0.32</td> <td>0.31</td> <td>0.57</td> <td>0.55</td> <td rowspan="4">Max. compression</td> <td rowspan="4">: 183 lb</td> </tr> <tr> <td>0.27</td> <td>0.25</td> <td>0.50</td> <td>0.47</td> </tr> <tr> <td>0.39</td> <td>0.35</td> <td>0.66</td> <td>0.62</td> </tr> <tr> <td>0.32</td> <td>0.60</td> <td>0.72</td> <td>0.79</td> </tr> </table>	Output	25%	50%	75%	100%	Foundation loads		Efficiency (%)	85.2	83.5	85.5	84.0	Max. traction	: 183 lb	80.9	80.3	82.0	81.4	86.7	83.7	85.5	84.0	Power Factor	0.32	0.31	0.57	0.55	Max. compression	: 183 lb	0.27	0.25	0.50	0.47	0.39	0.35	0.66	0.62	0.32	0.60	0.72	0.79	
Output	25%	50%	75%	100%	Foundation loads																																					
Efficiency (%)	85.2	83.5	85.5	84.0	Max. traction	: 183 lb																																				
	80.9	80.3	82.0	81.4																																						
	86.7	83.7	85.5	84.0																																						
Power Factor	0.32	0.31	0.57	0.55	Max. compression	: 183 lb																																				
	0.27	0.25	0.50	0.47																																						
	0.39	0.35	0.66	0.62																																						
	0.32	0.60	0.72	0.79																																						
Losses at normative operating points (speed;torque), in percentage of rated output power																																										
Losses (%)	P1 (0,9;1,0)	15.0	15.0	15.0	15.0	15.0	15.0																																			
	P2 (0,5;1,0)	12.8	12.8	12.8	12.8	12.8	12.8																																			
	P3 (0,25;1,0)	12.1	12.1	12.1	12.1	12.1	12.1																																			
	P4 (0,9;0,5)	8.4	8.4	8.4	8.4	8.4	8.4																																			
	P5 (0,5;0,5)	6.0	6.0	6.0	6.0	6.0	6.0																																			
	P6 (0,5;0,25)	4.7	4.7	4.7	4.7	4.7	4.7																																			
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5	3.5	3.5																																			
Bearing type	:	Drive end 6205 2RS		Non drive end 6204 2RS																																						
Sealing	:	V'Ring		V'Ring																																						
Lubrication interval	:	-		-																																						
Lubricant amount	:	-		-																																						
Lubricant type	:	Mobil Polyrex EM																																								
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																																										
Checked by					Page	Revision																																				
Date	28/03/2024				1 / 2																																					

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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	