

DATA SHEET

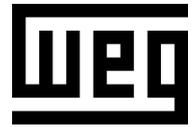


Three Phase Induction Motor - Squirrel Cage

Customer :																																																																																	
Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code : 11976413 Catalog # : 07518ET3ECT365T-W22																																																																																
Frame : 364/5T Output : 75 HP (55 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 174/87.2 A L. R. Amperes : 1116/558 A LRC : 6.4x(Code G) No load current : 66.0/33.0 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 221 ft.lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.3 sq.ft.lb Design : B	Locked rotor time : 25s (cold) 14s (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-2 Rotation ¹ : Both (CW and CCW) Noise level ² : 67.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 919 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="4">Efficiency (%)</td> <td>94.0</td> <td>93.6</td> <td>94.5</td> <td>93.7</td> <td rowspan="4">Max. traction</td> <td rowspan="4">: 1727 lb</td> </tr> <tr> <td>95.0</td> <td>94.2</td> <td>95.4</td> <td>94.2</td> </tr> <tr> <td>93.3</td> <td>93.0</td> <td>93.6</td> <td>93.5</td> </tr> <tr> <td>94.2</td> <td>94.2</td> <td>94.4</td> <td>94.6</td> </tr> <tr> <td rowspan="4">Power Factor</td> <td>94.8</td> <td>94.7</td> <td>94.5</td> <td>94.5</td> <td rowspan="4">Max. compression</td> <td rowspan="4">: 2646 lb</td> </tr> <tr> <td>94.1</td> <td>94.1</td> <td>94.5</td> <td>94.5</td> </tr> <tr> <td>0.44</td> <td>0.44</td> <td>0.68</td> <td>0.68</td> </tr> <tr> <td>0.78</td> <td>0.78</td> <td>0.83</td> <td>0.82</td> </tr> <tr> <td></td> <td>0.40</td> <td>0.37</td> <td>0.64</td> <td>0.61</td> <td></td> <td></td> </tr> <tr> <td></td> <td>0.75</td> <td>0.73</td> <td>0.81</td> <td>0.80</td> <td></td> <td></td> </tr> <tr> <td></td> <td>0.51</td> <td>0.46</td> <td>0.75</td> <td>0.70</td> <td></td> <td></td> </tr> <tr> <td></td> <td>0.82</td> <td>0.80</td> <td>0.84</td> <td>0.83</td> <td></td> <td></td> </tr> <tr> <td></td> <td>0.43</td> <td>0.67</td> <td>0.78</td> <td>0.82</td> <td></td> <td></td> </tr> </table>	Output	25%	50%	75%	100%	Foundation loads		Efficiency (%)	94.0	93.6	94.5	93.7	Max. traction	: 1727 lb	95.0	94.2	95.4	94.2	93.3	93.0	93.6	93.5	94.2	94.2	94.4	94.6	Power Factor	94.8	94.7	94.5	94.5	Max. compression	: 2646 lb	94.1	94.1	94.5	94.5	0.44	0.44	0.68	0.68	0.78	0.78	0.83	0.82		0.40	0.37	0.64	0.61				0.75	0.73	0.81	0.80				0.51	0.46	0.75	0.70				0.82	0.80	0.84	0.83				0.43	0.67	0.78	0.82			
Output	25%	50%	75%	100%	Foundation loads																																																																												
Efficiency (%)	94.0	93.6	94.5	93.7	Max. traction	: 1727 lb																																																																											
	95.0	94.2	95.4	94.2																																																																													
	93.3	93.0	93.6	93.5																																																																													
	94.2	94.2	94.4	94.6																																																																													
Power Factor	94.8	94.7	94.5	94.5	Max. compression	: 2646 lb																																																																											
	94.1	94.1	94.5	94.5																																																																													
	0.44	0.44	0.68	0.68																																																																													
	0.78	0.78	0.83	0.82																																																																													
	0.40	0.37	0.64	0.61																																																																													
	0.75	0.73	0.81	0.80																																																																													
	0.51	0.46	0.75	0.70																																																																													
	0.82	0.80	0.84	0.83																																																																													
	0.43	0.67	0.78	0.82																																																																													
Losses at normative operating points (speed;torque), in percentage of rated output power																																																																																	
Losses (%)	P1 (0,9;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7																																																																									
	P2 (0,5;1,0)	3.8	3.8	3.8	3.8	3.8	3.8	3.8																																																																									
	P3 (0,25;1,0)	3.5	3.5	3.5	3.5	3.5	3.5	3.5																																																																									
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4	2.4	2.4	2.4																																																																									
	P5 (0,5;0,5)	1.6	1.6	1.6	1.6	1.6	1.6	1.6																																																																									
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1																																																																									
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7	0.7	0.7	0.7																																																																									
Bearing type : Drive end 6314 2RS C3 Non drive end 6314 2RS C3 Sealing : WSeal WSeal Lubrication interval : - - Lubricant amount : - - Lubricant type : POLYREA ESTER OIL (WT/ ENS)																																																																																	
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	