DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Cooling Tower NEMA Premium Product code: 11976563 Efficiency Three-Phase Catalog #: 02012ET3ECT286T-W22 Frame : 284/6T Locked rotor time : 28s (cold) 16s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 48.4/24.2 A Protection degree : IP55 L. R. Amperes : 300/150 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-2 No load current : 19.0/9.50 A Rotation¹ : Both (CW and CCW) Rated speed : 1175 rpm Noise level² : 59.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 89.4 ft.lb Approx. weight³ : 445 lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 90.8 89.8 91.0 90.0 91.7 90.3 91.7 90.3 Max. traction : 905 lb 89.1 88.9 89.3 89.3 90.3 90.6 90.3 90.8 91.5 90.6 90.2 90.2 90.2 90.2 88.5 89.5 90.7 90.2 91.0 90.2 0.44 0.41 0.70 0.66 0.80 0.79 0.85 0.84 Power Factor Max. compression : 1350 lb 0.38 0.36 0.63 0.60 0.76 0.73 0.83 0.81 0.51 0.47 0.76 0.73 0.83 0.82 0.86 0.86 0.44 0.70 0.80 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 8.7 8.7 8.7 8.7 8.7 8.7 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.9 6.9 6.9 6.9 6.9 6.9 6.9 P4 (0,9;0,5) Losses (%) 4.3 4.3 4.3 4.3 4.3 4.3 4.3 P5 (0,5;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P6 (0,5;0,25) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P7 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Drive end Non drive end 6311 2RS C3 Bearing type 6211 2RS C3 Sealing V'Ring V'Ring Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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

(4) / 11 100 / 10 01 10	iii ioaa.				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			1/2	

DATA SHEET

	П
	ш

Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Voltage: 110-127	7/200-240 V	Space heater informa	ation				
Voltage: 110-127	7200-240 V						
Rev.		Changes Summary	Performed	Checked	Date		
					_		
Performed by							
Checked by				Page	Revision		
Date	28/03/2024			2/2			