

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Cooling Tower NEMA Premium  
Efficiency Three-Phase

Product code : 12096032

Catalog # : 02012ET3PCT286T-W22

Frame : 284/6T  
Output : 20 HP (15 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 55.7 A  
L. R. Amperes : 345 A  
LRC : 6.2x(Code G)  
No load current : 21.9 A  
Rated speed : 1175 rpm  
Slip : 2.08 %  
Rated torque : 89.4 ft.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

Locked rotor time : 28s (cold) 16s (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<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 59.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 0.0 lb

Output	25%	50%	75%	100%
Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.44	0.70	0.80	0.85

Foundation loads  
Max. traction : 1013 lb  
Max. compression : 1013 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.7	7.1	6.9	4.3	2.8	1.9	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 2RS C3	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 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				
Date	28/03/2024			

Page 1 / 2  
Revision

# 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			Page 2 / 2		Revision
Checked by					
Date	28/03/2024				