

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456698

Catalog # : 00312ET3E213T-W22S

Frame : 213T  
Output : 3 HP (2.2 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 8.83/4.41 A  
L. R. Amperes : 61.8/30.9 A  
LRC : 7.0x(Code K)  
No load current : 5.50/2.75 A  
Rated speed : 1175 rpm  
Slip : 2.08 %  
Rated torque : 13.4 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 1.20 sq.ft.lb  
Design : B

Locked rotor time : 104s (cold) 58s (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-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 55.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 147 lb

Output	25%		50%		75%		100%	
Efficiency (%)	85.4	88.0	86.5	87.5	88.5	88.5	89.5	87.5
	86.1	86.1	86.5	86.5	88.5	88.5	88.5	88.5
Power Factor	0.28	0.33	0.50	0.57	0.63	0.70	0.70	0.75
	0.30	0.28	0.53	0.50	0.66	0.64	0.73	0.71

Foundation loads  
Max. traction : 173 lb  
Max. compression : 321 lb

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

Losses (%)	P1 (0,9;1,0)	11.0	11.0	11.0	11.0
	P2 (0,5;1,0)	8.5	8.5	8.5	8.5
	P3 (0,25;1,0)	7.7	7.7	7.7	7.7
	P4 (0,9;0,5)	6.7	6.7	6.7	6.7
	P5 (0,5;0,5)	4.4	4.4	4.4	4.4
	P6 (0,5;0,25)	3.4	3.4	3.4	3.4
	P7 (0,25;0,25)	2.5	2.5	2.5	2.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
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			

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Revision