

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456657

Catalog # : 00309ET3E215T-W22

Frame : 213/5T
Output : 3 HP (2.2 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 9.22/4.61 A
L. R. Amperes : 62.7/31.3 A
LRC : 6.8x(Code K)
No load current : 6.00/3.00 A
Rated speed : 870 rpm
Slip : 3.33 %
Rated torque : 18.1 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 2.11 sq.ft.lb
Design : B

Locked rotor time : 79s (cold) 44s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 179 lb

Output	50%	75%	100%
Efficiency (%)	84.0 82.0	85.5 82.5	85.5 82.5
	82.0 82.5	82.5 84.0	82.5 84.0
Power Factor	0.49 0.55	0.62 0.68	0.70 0.74
	0.51 0.50	0.64 0.63	0.71 0.71

Foundation loads
Max. traction : 280 lb
Max. compression : 460 lb

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

Losses (%)	P1 (0,9;1,0)	19.1	24.0	24.0	21.5
	P2 (0,5;1,0)	18.2	23.0	23.0	20.6
	P3 (0,25;1,0)	17.9	22.9	22.9	20.4
	P4 (0,9;0,5)	9.5	12.1	12.1	10.7
	P5 (0,5;0,5)	7.8	10.0	10.0	8.9
	P6 (0,5;0,25)	5.8	7.6	7.6	6.6
	P7 (0,25;0,25)	4.5	5.9	5.9	5.2

		<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