

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606439

Catalog # : 00512ET3E215TC-W22

Frame : 213/5TC
Output : 5 HP (3.7 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.7/6.83 A
L. R. Amperes : 92.9/46.4 A
LRC : 6.8x(Code J)
No load current : 6.90/3.45 A
Rated speed : 1170 rpm
Slip : 2.50 %
Rated torque : 22.4 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 1.47 sq.ft.lb
Design : B

Locked rotor time : 102s (cold) 57s (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 : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 173 lb

Output	50%	75%	100%
Efficiency (%)	88.5 88.5	89.5 88.5	89.5 86.8
	88.5 87.5	88.5 88.5	87.5 88.5
Power Factor	0.58 0.65	0.70 0.75	0.76 0.79
	0.61 0.58	0.73 0.71	0.78 0.76

Foundation loads
Max. traction : 295 lb
Max. compression : 468 lb

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

Losses (%)	P1 (0,9;1,0)	11.1	14.4	13.5	12.3
	P2 (0,5;1,0)	9.1	11.8	11.1	10.1
	P3 (0,25;1,0)	8.8	11.4	10.8	9.8
	P4 (0,9;0,5)	5.8	7.5	7.1	6.4
	P5 (0,5;0,5)	4.0	5.2	4.9	4.5
	P6 (0,5;0,25)	2.9	3.7	3.5	3.2
	P7 (0,25;0,25)	2.1	2.7	2.6	2.3

		<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	29/03/2024			

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Revision