

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441768

Catalog # : 01036ET3E215T-W22

Frame : 213/5T
Output : 10 HP (7.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 23.2/11.6 A
L. R. Amperes : 167/83.5 A
LRC : 7.2x(Code H)
No load current : 7.20/3.60 A
Rated speed : 3530 rpm
Slip : 1.94 %
Rated torque : 14.9 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.6362 sq.ft.lb
Design : B

Locked rotor time : 32s (cold) 18s (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 : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 162 lb

Output	50%	75%	100%
Efficiency (%)	89.5 88.6 88.4 87.7 89.5 89.5 89.5	90.2 89.6 89.6 89.5 89.5 89.5 89.5	90.2 89.5 89.5 89.8 88.5 88.5 88.5
Power Factor	0.79 0.75 0.72 0.70 0.83 0.81 0.79	0.87 0.86 0.83 0.82 0.90 0.88 0.87	0.90 0.90 0.88 0.86 0.91 0.91 0.90

Foundation loads
Max. traction : 192 lb

Max. compression : 354 lb

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

Losses (%)	P1 (0,9;1,0)	10.7	10.7	10.7	10.7	10.7	10.7	10.7
	P2 (0,5;1,0)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3	1.3

	Drive end	Non drive end
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
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Checked by				Revision
Date				1 / 1