

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13730029

Catalog # : 00712ET3ECT254TF1-W2

Frame : 254T
Output : 7.5 HP (5.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 19.0/9.48 A
L. R. Amperes : 129/64.5 A
LRC : 6.8x(Code H)
No load current : 9.00/4.50 A
Rated speed : 1178 rpm
Slip : 1.83 %
Rated torque : 33.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 3.92 sq.ft.lb
Design : B

Locked rotor time : 54s (cold) 30s (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 : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 273 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.6	87.2	89.5	87.5	90.2	88.0	91.0	88.0
	87.3	87.3	87.5	87.5	88.0	88.0	88.0	88.0
Power Factor	0.38	0.45	0.63	0.70	0.74	0.79	0.80	0.83
	0.41	0.39	0.66	0.64	0.77	0.75	0.82	0.81

Foundation loads
Max. traction : 367 lb
Max. compression : 640 lb

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

Losses (%)	P1 (0,9;1,0)	9.6	9.6	9.6	9.6
	P2 (0,5;1,0)	8.0	8.0	8.0	8.0
	P3 (0,25;1,0)	7.4	7.4	7.4	7.4
	P4 (0,9;0,5)	5.1	5.1	5.1	5.1
	P5 (0,5;0,5)	3.4	3.4	3.4	3.4
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.7	1.7	1.7	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 2RS C3	6209 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.

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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