

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12604362

Catalog # : 00712EG3E254T-W22

Frame : 254/6T
Output : 7.5 HP (5.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 18.9/9.46 A
L. R. Amperes : 129/64.3 A
LRC : 6.8x(Code H)
No load current : 10.0/5.00 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 33.5 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 4.57 sq.ft.lb
Design : A

Locked rotor time : 90s (cold) 50s (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 : 334 lb

Output	50%	75%	100%
Efficiency (%)	90.2 90.2	91.7 91.0	92.4 91.0
	91.0 91.0	91.7 91.7	91.7 91.7
Power Factor	0.60 0.67	0.72 0.78	0.79 0.84
	0.64 0.61	0.76 0.74	0.82 0.81

Foundation loads
Max. traction : 411 lb
Max. compression : 745 lb

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

Losses (%)	P1 (0,9;1,0)	7.9	9.5	8.7	8.7
	P2 (0,5;1,0)	6.3	7.6	7.0	7.0
	P3 (0,25;1,0)	5.9	7.1	6.5	6.5
	P4 (0,9;0,5)	4.6	5.5	5.0	5.0
	P5 (0,5;0,5)	3.0	3.6	3.3	3.3
	P6 (0,5;0,25)	2.3	2.7	2.5	2.5
	P7 (0,25;0,25)	1.5	1.9	1.7	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
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