

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11478114

Catalog # : 00712OT3E254JM

Frame : 254JM
Output : 7.5 HP (5.5 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 19.4/9.69 A
L. R. Amperes : 134/66.9 A
LRC : 6.9x(Code J)
No load current : 10.4/5.20 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 33.5 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 2.73 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 229 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.6	86.8	87.5	87.5	89.5	87.5	90.2	88.0
	87.2	86.2	87.5	86.5	88.5	88.5	88.5	88.5
Power Factor	0.35	0.41	0.59	0.66	0.72	0.77	0.79	0.83
	0.37	0.35	0.62	0.60	0.75	0.73	0.81	0.80

Foundation loads
Max. traction : 428 lb
Max. compression : 657 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6209 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
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			

Page 1 / 1
Revision