

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12440442

Catalog # : 02036OT3ECD254TF2

Frame : 254T
 Output : 20 HP (15 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 49.2/24.6 A
 L. R. Amperes : 276/138 A
 LRC : 5.6x(Code F)
 No load current : 18.2/9.10 A
 Rated speed : 3520 rpm
 Slip : 2.22 %
 Rated torque : 29.8 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.7328 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-2
 Rotation¹ : Both (CW and CCW)
 Noise level² : 66.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 209 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.6	81.1	89.5	84.7	90.2	86.9	91.0	91.2
	80.8	81.9	84.4	85.0	86.9	87.9	91.2	91.4
	86.2	86.2	86.5	86.5	87.5	87.5	87.5	87.5
	87.2		87.5		88.5		88.5	
Power Factor	0.46	0.43	0.71	0.65	0.80	0.77	0.84	0.83
	0.39	0.34	0.60	0.55	0.72	0.68	0.79	0.76
	0.51	0.46	0.74	0.69	0.83	0.79	0.86	0.84
	0.41		0.64		0.76		0.82	

Foundation loads
 Max. traction : 309 lb
 Max. compression : 518 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	26/03/2024			

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 Revision