

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12729173

Frame	: 143/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.84/2.42 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 43.1/21.5 A	Mounting	: F-1
LRC	: 8.9x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.83/0.917 A	Noise level ²	: 62.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 37.4 lb
Rated torque	: 2.99 ft.lb		
Locked rotor torque	: 220 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1151 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	83.7	85.5	84.0	85.0	85.5	85.1	85.5	84.2	Max. traction	: 78 lb
	85.4	84.7	84.7	84.3	85.4	85.5	84.3	84.7		
Power Factor	0.49	0.56	0.77	0.83	0.86	0.90	0.91	0.93	Max. compression	: 116 lb
	0.52	0.49	0.80	0.77	0.88	0.87	0.92	0.91		

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6205 ZZ	6203 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

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				Page	Revision
Checked by				1 / 1	
Date	27/03/2024				