

# Three Phase Induction Motor - Squirrel Cage



Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10579597
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Frame	: E143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 2.90/1.45 A	Protection degree	: IP21
L. R. Amperes	: 23.2/11.6 A	Cooling method	: IC01 - ODP
LRC	: 8.0x(Code L)	Mounting	: F-3
No load current	: 2.00/1.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1730 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 3.04 ft.lb	Approx. weight <sup>3</sup>	: 38.2 lb
Locked rotor torque	: 320 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1241 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	82.0	82.2	82.5	81.5	85.5	84.0	85.5	82.5	Max. traction	: 80 lb
	80.7	80.7	81.5	81.5	82.0	82.0	82.5	82.5		
Power Factor	0.29	0.38	0.54	0.65	0.68	0.77	0.76	0.84	Max. compression	: 119 lb
	0.36	0.34	0.63	0.61	0.75	0.73	0.82	0.80		

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6205 ZZ	6204 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

Notes:

- (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 1 / 1	Revision
Checked by					
Date	25/03/2024				