

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12674623

Catalog # : 00156OT3E143TC-S

Frame : 143/5TC
Output : 1.5 HP (1.1 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.70/1.85 A
L. R. Amperes : 31.8/15.9 A
LRC : 8.6x(Code K)
No load current : 1.62/0.809 A
Rated speed : 3510 rpm
Slip : 2.50 %
Rated torque : 2.24 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0835 sq.ft.lb
Design : B

Locked rotor time : 34s (cold) 19s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 30.2 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.1	83.2	81.5	82.7	84.0	83.6	84.0	82.7
	80.7		81.0		83.3		83.2	
Power Factor	0.45	0.51	0.73	0.79	0.83	0.88	0.89	0.92
	0.43		0.71		0.83		0.88	

Foundation loads
Max. traction : 55 lb
Max. compression : 85 lb

	Drive end	Non drive end
Bearing type :	6205 ZZ	6203 ZZ
Sealing :	Without Bearing Seal	Without Bearing Seal
Lubrication interval :	-	-
Lubricant amount :	-	-
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			
			Page	Revision
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