

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 13304573

Catalog # : 00118OT3ER143TC-S

Frame : 143/5TC
Output : 1 HP (0.75 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.02/1.51 A
L. R. Amperes : 24.2/12.1 A
LRC : 8.0x(Code L)
No load current : 1.92/0.958 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 2.98 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 360 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1101 sq.ft.lb
Design : B

Locked rotor time : 39s (cold) 22s (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 : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 34.3 lb

Output	50%	75%	100%
Efficiency (%)	81.5 81.9	84.0 83.4	85.5 82.6
	80.1	82.9	83.2
Power Factor	0.51 0.59	0.65 0.73	0.73 0.80
	0.52	0.66	0.75

Foundation loads
Max. traction : 86 lb
Max. compression : 121 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		Page 1 / 1		
Checked by				
Date	26/03/2024			
		Revision		