

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 14019506

Catalog # : 00236OT3ER145TC-S

Frame : 143/5TC
Output : 2 HP (1.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 4.84/2.42 A
L. R. Amperes : 43.1/21.5 A
LRC : 8.9x(Code K)
No load current : 1.83/0.917 A
Rated speed : 3510 rpm
Slip : 2.50 %
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

Locked rotor time : 25s (cold) 14s (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 : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 35.9 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.7	85.5	84.0	85.0	85.5	85.1	85.5	84.2
	84.7		84.3		85.5		84.7	
Power Factor	0.49	0.56	0.77	0.83	0.86	0.90	0.91	0.93
	0.49		0.77		0.87		0.91	

Foundation loads
Max. traction : 79 lb
Max. compression : 115 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	27/03/2024			
		Revision		