

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 14802851

Catalog # : 00336ET3V145TC-S

Frame : 143/5TC
Output : 3 HP (2.2 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 200/400 V
Rated current : 8.07/4.04 A
L. R. Amperes : 76.7/38.3 A
LRC : 9.5x(Code K)
No load current : 2.95/1.47 A
Rated speed : 3500 rpm
Slip : 2.78 %
Rated torque : 4.50 ft.lb
Locked rotor torque : 300 %
Breakdown torque : 380 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1663 sq.ft.lb
Design : B

Locked rotor time : 18s (cold) 10s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 50.7 lb

Output 25% 50% 75% 100%

Efficiency (%) 83.6 84.0 86.5 86.5
Power Factor 0.51 0.78 0.87 0.91

Foundation loads

Max. traction : 123 lb
Max. compression : 174 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
14.5	10.8	9.9	8.0	4.4	3.0	1.7

	Drive end	Non drive end
Bearing type :	6205 ZZ	6203 ZZ
Sealing :	V'Ring	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 Revision 1 / 1		
Checked by				
Date	27/03/2024			