

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12675349

Catalog # : 00236ET3E145TC-S

Frame : 143/5TC
Output : 2 HP (1.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 4.94/2.47 A
L. R. Amperes : 48.9/24.5 A
LRC : 9.9x(Code L)
No load current : 2.13/1.06 A
Rated speed : 3520 rpm
Slip : 2.22 %
Rated torque : 2.98 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1279 sq.ft.lb
Design : B

Locked rotor time : 23s (cold) 13s (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 : 41.0 lb

Output	50%	75%	100%
Efficiency (%)	82.5 84.0 83.3	85.5 84.6 84.9	85.5 83.3 84.5
Power Factor	0.73 0.79 0.73	0.83 0.88 0.84	0.89 0.92 0.89

Foundation loads
Max. traction : 86 lb
Max. compression : 127 lb

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

Losses (%)	P1 (0,9;1,0)	15.4	18.2	16.7
	P2 (0,5;1,0)	10.7	12.6	11.6
	P3 (0,25;1,0)	9.4	11.2	10.2
	P4 (0,9;0,5)	9.5	11.3	10.3
	P5 (0,5;0,5)	4.8	5.7	5.2
	P6 (0,5;0,25)	3.5	4.1	3.8
	P7 (0,25;0,25)	1.9	2.3	2.1

		<u>Drive end</u>	<u>Non drive end</u>
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 1 / 1		
Checked by				
Date	27/03/2024			
		Revision		