

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12628877

Catalog # : 00336OT3E145TC-S

Frame : 143/5TC
Output : 3 HP (2.2 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.18/3.59 A
L. R. Amperes : 57.4/28.7 A
LRC : 8.0x(Code J)
No load current : 2.60/1.30 A
Rated speed : 3480 rpm
Slip : 3.33 %
Rated torque : 4.53 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1279 sq.ft.lb
Design : B

Locked rotor time : 16s (cold) 9s (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 : 40.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.7	89.4	84.0	86.6	85.5	85.0	85.5	81.8
	87.7		86.2		85.9		83.9	
Power Factor	0.50	0.56	0.76	0.83	0.86	0.90	0.90	0.93
	0.48		0.76		0.86		0.91	

Foundation loads
Max. traction : 109 lb
Max. compression : 150 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	27/03/2024			

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Revision