

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 13639218

Catalog # : 00158OT3ER145TC-S

Frame : 143/5TC
Output : 1.5 HP (1.1 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 4.14/2.07 A
L. R. Amperes : 36.0/18.0 A
LRC : 8.7x(Code L)
No load current : 2.40/1.20 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 4.48 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1426 sq.ft.lb
Design : B

Locked rotor time : 27s (cold) 15s (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 : 42.1 lb

Output	50%	75%	100%
Efficiency (%)	84.0 84.3	86.5 84.7	86.5 83.2
	83.0	84.7	84.2
Power Factor	0.56 0.64	0.69 0.77	0.77 0.83
	0.57	0.70	0.79

Foundation loads
Max. traction : 125 lb
Max. compression : 167 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 Revision 1 / 1		
Checked by				
Date	26/03/2024			