

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12628889

Catalog # : 00118OT3E143TC-S

Frame : 143/5TC
Output : 1 HP (0.75 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.02/1.51 A
L. R. Amperes : 24.2/12.1 A
LRC : 8.0x(Code L)
No load current : 1.92/0.958 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 2.98 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 360 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1101 sq.ft.lb
Design : B

Locked rotor time : 39s (cold) 22s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 35.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	79.9	82.2	81.5	81.9	84.0	83.4	85.5	82.6
	79.4		80.1		82.9		83.2	
Power Factor	0.29	0.34	0.51	0.59	0.65	0.73	0.73	0.80
	0.29		0.52		0.66		0.75	

Foundation loads
Max. traction : 86 lb
Max. compression : 121 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	26/03/2024			
			Page	Revision
			1 / 1	