

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12674729

Catalog # : 00218OT3E145TC-S

Frame	: 143/5TC	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.38/2.69 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 41.4/20.7 A	Mounting	: F-1
LRC	: 7.7x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 2.75/1.38 A	Noise level ²	: 52.0 dB(A)
Rated speed	: 1740 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight ³	: 40.2 lb
Rated torque	: 6.04 ft.lb		
Locked rotor torque	: 260 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1168 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	85.2	88.2	85.5	85.9	86.5	85.0	86.5	82.2	Max. traction	: 159 lb
	85.5		84.6		85.2		83.8			
Power Factor	0.36	0.42	0.61	0.69	0.74	0.80	0.81	0.85	Max. compression	: 199 lb
	0.35		0.61		0.74		0.81			

					<u>Drive end</u>	<u>Non drive end</u>
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			
			Page	Revision
			1 / 1	