

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12677287

Catalog # : 00158ET3ER145TC-S

Frame	: 143/5TC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1.5 HP (1.1 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	: 4.04/2.02 A	Protection degree	: IP55
L. R. Amperes	: 33.1/16.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)	Mounting	: W-6
No load current	: 2.17/1.08 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 4.50 ft.lb	Approx. weight ³	: 37.7 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1101 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	85.2	86.1	85.5	84.7	86.5	82.7
	83.8	83.5	84.9	84.1		
Power Factor	0.35	0.41	0.59	0.67	0.72	0.78
	0.34	0.59	0.72	0.80		

				<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				
Checked by				
Date	26/03/2024			
			Page	Revision
			1 / 1	