

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12677329

Catalog # : 00218ET3ER145TC-S

Frame : 143/5TC
Output : 2 HP (1.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 5.44/2.72 A
L. R. Amperes : 44.6/22.3 A
LRC : 8.2x(Code K)
No load current : 2.80/1.40 A
Rated speed : 1745 rpm
Slip : 3.06 %
Rated torque : 6.02 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1296 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.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 42.5 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.0	87.1	85.5	85.4	87.5	84.9	86.5	82.6
	84.8		84.2		85.1		84.0	
Power Factor	0.35	0.42	0.60	0.68	0.73	0.80	0.80	0.85
	0.35		0.60		0.73		0.81	

Foundation loads
Max. traction : 170 lb
Max. compression : 212 lb

		<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		Page 1 / 1		
Checked by				
Date	27/03/2024			
			Revision	