

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12675381

Catalog # : 00112ET3E145TC-S

Frame : 143/5TC
Output : 1 HP (0.75 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.16/1.58 A
L. R. Amperes : 18.3/9.16 A
LRC : 5.8x(Code J)
No load current : 2.03/1.01 A
Rated speed : 1145 rpm
Slip : 4.58 %
Rated torque : 4.59 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1597 sq.ft.lb
Design : B

Locked rotor time : 55s (cold) 31s (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 : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 50.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 39.0 lb

Output	50%	75%	100%
Efficiency (%)	80.0 80.1	82.5 80.1	82.5 77.3
	78.6	80.3	79.3
Power Factor	0.50 0.58	0.63 0.71	0.72 0.79
	0.51	0.65	0.74

Foundation loads
Max. traction : 102 lb
Max. compression : 142 lb

	Drive end	Non drive end
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	26/03/2024			
		Revision		