

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase

Product code : 10321698

Catalog # : 002180T3E145TF2

Frame : E143/5T
 Output : 2 HP (1.5 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 5.80/2.90 A
 L. R. Amperes : 47.6/23.8 A
 LRC : 8.2x(Code L)
 No load current : 3.20/1.60 A
 Rated speed : 1730 rpm
 Slip : 3.89 %
 Rated torque : 6.07 ft.lb
 Locked rotor torque : 350 %
 Breakdown torque : 330 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1597 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 : IP21
 Cooling method : IC01 - ODP
 Mounting : F-2
 Rotation¹ : Both (CW and CCW)
 Noise level² : 52.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 44.1 lb

Output	25%	50%	75%	100%
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Efficiency (%)	81.2	82.5	85.5	86.5
Power Factor	0.34	0.58	0.70	0.78

Foundation loads

Max. traction : 152 lb
 Max. compression : 196 lb

	Drive end	Non drive end
Bearing type	6205 ZZ	6204 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

Notes:
 USABLE @208V 5.95A SF 1.00 SFA 5.95A

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	25/03/2024			
		Revision		