

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase

Product code : 10016391

Catalog # : 005180T3E184TF2

Frame : 184T
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.0/6.49 A
L. R. Amperes : 94.8/47.4 A
LRC : 7.3x(Code J)
No load current : 6.80/3.40 A
Rated speed : 1755 rpm
Slip : 2.50 %
Rated torque : 15.0 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.3495 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 105 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 : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 71.5 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.2	81.5	88.5	83.3	89.5	86.0	89.5	87.7
	81.4	81.2	83.1	82.9	86.1	86.1	87.7	87.7
	84.3	84.3	85.5	85.5	86.5	86.5	87.5	87.5
	84.3		85.5		86.5		87.5	
Power Factor	0.35	0.36	0.59	0.60	0.72	0.72	0.80	0.79
	0.32	0.29	0.55	0.51	0.68	0.64	0.75	0.73
	0.42	0.38	0.67	0.62	0.78	0.74	0.83	0.80
	0.34		0.58		0.71		0.78	

Foundation loads
Max. traction : 288 lb
Max. compression : 360 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 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	25/03/2024			

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Revision