

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11452806

Catalog # : 00159ET3E184T-W22

Frame : 182/4T  
Output : 1.5 HP (1.1 kW)  
Poles : 8  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 5.68/2.84 A  
L. R. Amperes : 33.5/16.8 A  
LRC : 5.9x(Code K)  
No load current : 4.20/2.10 A  
Rated speed : 860 rpm  
Slip : 4.44 %  
Rated torque : 9.16 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 0.5766 sq.ft.lb  
Design : B

Locked rotor time : 30s (cold) 17s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 50.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 78.6 lb

Output	50%	75%	100%
Efficiency (%)	76.0 74.0 74.5 73.5	78.0 76.0 76.0 76.0	78.5 77.0 76.9 76.9
Power Factor	0.43 0.51 0.47 0.44	0.54 0.62 0.58 0.55	0.62 0.70 0.66 0.64

Foundation loads  
Max. traction : 152 lb  
Max. compression : 230 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	25.9	28.3	28.4	28.4
	P2 (0,5;1,0)	20.5	22.4	22.5	22.5
	P3 (0,25;1,0)	18.6	20.3	20.4	20.4
	P4 (0,9;0,5)	18.4	20.1	20.2	20.2
	P5 (0,5;0,5)	13.2	14.4	14.4	14.4
	P6 (0,5;0,25)	11.6	12.7	12.8	12.8
	P7 (0,25;0,25)	8.8	9.6	9.7	9.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
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		