

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12378662

Catalog # : 00336ET3E182T-W22

Frame : 182/4T
Output : 3 HP (2.2 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.52/3.76 A
L. R. Amperes : 64.7/32.3 A
LRC : 8.6x(Code K)
No load current : 3.20/1.60 A
Rated speed : 3515 rpm
Slip : 2.36 %
Rated torque : 4.48 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 380 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.1889 sq.ft.lb
Design : B

Locked rotor time : 46s (cold) 26s (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 : 66.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 79.0 lb

Output	50%	75%	100%
Efficiency (%)	82.0 81.0 80.6 79.7 84.0 84.0 84.0	86.0 84.5 84.5 84.1 85.5 85.5 85.5	86.5 85.8 85.8 85.9 85.5 85.5 85.5
Power Factor	0.70 0.63 0.58 0.55 0.76 0.71 0.68	0.80 0.75 0.71 0.67 0.84 0.81 0.79	0.85 0.81 0.78 0.75 0.88 0.86 0.84

Foundation loads
Max. traction : 74 lb

Max. compression : 153 lb

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

Losses (%)	P1 (0,9;1,0)	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	P2 (0,5;1,0)	10.7	10.7	10.7	10.7	10.7	10.7	10.7
	P3 (0,25;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P4 (0,9;0,5)	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	P5 (0,5;0,5)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P6 (0,5;0,25)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8

	Drive end	Non drive end
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	28/03/2024			
		Revision		