

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11647930

Catalog # : 00736ET3E184T-W22

Frame : 182/4T
Output : 7.5 HP (5.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 17.5/8.76 A
L. R. Amperes : 144/71.8 A
LRC : 8.2x(Code J)
No load current : 5.80/2.90 A
Rated speed : 3485 rpm
Slip : 3.19 %
Rated torque : 11.3 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.2242 sq.ft.lb
Design : A

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
Rotation¹ : Both (CW and CCW)
Noise level² : 66.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 97.9 lb

Output	50%	75%	100%
Efficiency (%)	88.5 85.5 85.9 86.2 87.0 87.5 88.0	89.5 87.0 87.6 88.1 87.0 88.0 88.5	89.5 88.1 88.1 88.7 84.5 86.0 87.0
Power Factor	0.75 0.70 0.66 0.63 0.80 0.77 0.74	0.84 0.82 0.79 0.77 0.88 0.86 0.84	0.88 0.88 0.86 0.84 0.91 0.90 0.88

Foundation loads
Max. traction : 224 lb

Max. compression : 322 lb

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

Losses (%)	P1 (0,9;1,0)	11.4	11.4	11.4	11.4	11.4	11.4	11.4
	P2 (0,5;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P3 (0,25;1,0)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P4 (0,9;0,5)	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	P5 (0,5;0,5)	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3	1.3

	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 Revision		
Checked by				
Date	29/03/2024			