DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : AutomationSTE Customer reference : AutomationSTE

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11647930

Catalog #:

00736ET3E184T-W22

: 182/4T Frame

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 : 3.19 % Slip Rated torque : 15.3 Nm

Locked rotor torque : 270 % : 330 % Breakdown torque Insulation class : F : 1.25 Service factor : 0.0095 kgm² Moment of inertia (J)

50%

88.5

0.75

Design

Locked rotor time : 30s (cold) 17s (hot)

: 80 K Temperature rise 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)

: 995 N

: 1434 N

Starting method : Direct On Line

: 44.7 kg Approx. weight3

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

100%

89.5

0.88

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

Foundation loads

Max. compression

Max. traction

Drive end Non drive end 6207 ZZ Bearing type 6206 ZZ Sealing V'Ring V'Ring Lubrication interval

Lubricant amount

Lubricant type Mobil Polyrex EM

75%

89.5

0.84

Notes:

Output

Efficiency (%)

Power Factor

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				Page	Revision
Data	11/05/0004	1		4 / 4	