

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16576976

Catalog # : 00736ET3H213T-W22G

Frame : 213/5T
 Output : 7.5 HP (5.5 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 7.01 A
 L. R. Amperes : 50.5 A
 LRC : 7.2x(Code H)
 No load current : 2.40 A
 Rated speed : 3530 rpm
 Slip : 1.94 %
 Rated torque : 11.2 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.4665 sq.ft.lb
 Design : B

Locked rotor time : 36s (cold) 20s (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 : 68.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 149 lb

Output 25% 50% 75% 100%

Efficiency (%) 87.2 87.5 89.5 89.5
 Power Factor 0.50 0.75 0.84 0.88

Foundation loads

Max. traction : 114 lb
 Max. compression : 263 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.3	9.1	8.4	5.9	3.6	2.4	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6308 ZZ	6207 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 Revision 1 / 1		
Checked by				
Date	26/03/2024			