

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445723

Catalog # : 00312ET3H213T-W22

Frame : 213/5T
 Output : 3 HP (2.2 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 3.53 A
 L. R. Amperes : 24.7 A
 LRC : 7.0x(Code K)
 No load current : 2.20 A
 Rated speed : 1175 rpm
 Slip : 2.08 %
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 1.20 sq.ft.lb
 Design : B

Locked rotor time : 104s (cold) 58s (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 : 55.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 155 lb

Output	50%	75%	100%
Efficiency (%)	86.5	88.5	89.5
Power Factor	0.50	0.63	0.70

Foundation loads
 Max. traction : 134 lb
 Max. compression : 289 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)
11.0	8.5	7.7	6.7	4.4	3.4	2.5

		<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 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		