

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12792176

Catalog # : 00312EG3E213T-W22

Frame : 213/5T
 Output : 3 HP (2.2 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 8.62/4.31 A
 L. R. Amperes : 62.1/31.0 A
 LRC : 7.2x(Code K)
 No load current : 5.13/2.56 A
 Rated speed : 1175 rpm
 Slip : 2.08 %
 Rated torque : 13.4 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 290 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 1.53 sq.ft.lb
 Design : A

Locked rotor time : 162s (cold) 90s (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 : 179 lb

Output	50%	75%	100%
Efficiency (%)	87.5 88.5	89.5 89.5	90.2 89.5
	88.5 88.5	90.2 90.2	89.5 90.2
Power Factor	0.51 0.57	0.63 0.69	0.71 0.76
	0.54 0.51	0.66 0.64	0.74 0.72

Foundation loads
 Max. traction : 174 lb
 Max. compression : 354 lb

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

Losses (%)	P1 (0,9;1,0)	10.2	11.0	11.0	10.2
	P2 (0,5;1,0)	7.5	8.1	8.1	7.5
	P3 (0,25;1,0)	6.5	7.1	7.1	6.5
	P4 (0,9;0,5)	6.5	7.0	7.0	6.5
	P5 (0,5;0,5)	4.0	4.3	4.3	4.0
	P6 (0,5;0,25)	3.2	3.5	3.5	3.2
	P7 (0,25;0,25)	2.2	2.4	2.4	2.2

		<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	29/03/2024			
		Revision		