

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12604360

Catalog # : 00336EG3E182T-W22

Frame : 182/4T
 Output : 3 HP (2.2 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 7.34/3.67 A
 L. R. Amperes : 62.4/31.2 A
 LRC : 8.5x(Code K)
 No load current : 2.20/1.10 A
 Rated speed : 3520 rpm
 Slip : 2.22 %
 Rated torque : 4.48 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 360 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.1920 sq.ft.lb
 Design : A

Locked rotor time : 90s (cold) 50s (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 : 95.6 lb

Output	50%	75%	100%
Efficiency (%)	84.0 85.0	86.5 86.5	88.5 88.0
	85.5 85.5	86.5 86.5	88.2 88.2
Power Factor	0.70 0.74	0.81 0.83	0.85 0.88
	0.72 0.69	0.82 0.80	0.87 0.86

Foundation loads
 Max. traction : 90 lb
 Max. compression : 185 lb

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

Losses (%)	P1 (0,9;1,0)	11.8	12.4	12.2	12.2
	P2 (0,5;1,0)	8.0	8.3	8.2	8.2
	P3 (0,25;1,0)	7.0	7.3	7.2	7.2
	P4 (0,9;0,5)	7.2	7.5	7.4	7.4
	P5 (0,5;0,5)	3.6	3.8	3.7	3.7
	P6 (0,5;0,25)	2.6	2.7	2.6	2.6
	P7 (0,25;0,25)	1.3	1.4	1.4	1.4

		<u>Drive end</u>	<u>Non drive end</u>
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				
Checked by				
Date	29/03/2024			

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 Revision