

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13864031

Catalog # : 00536ET3H184T-W22G

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 4.72 A
L. R. Amperes : 35.9 A
LRC : 7.6x(Code J)
No load current : 1.60 A
Rated speed : 3500 rpm
Slip : 2.78 %
Rated torque : 7.50 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 350 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.2233 sq.ft.lb
Design : B

Locked rotor time : 32s (cold) 18s (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 : 102 lb

Output 25% 50% 75% 100%

Efficiency (%) 0.000 86.5 88.5 88.5
Power Factor 0.00 0.76 0.85 0.89

Foundation loads

Max. traction : 117 lb
Max. compression : 218 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)
12.2	10.1	9.7	5.9	3.7	2.3	1.5

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