

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 12685544

Catalog # : 01009ST3HIE284T-W22

Frame : 284/6T
Output : 10 HP (7.5 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 10.7 A
L. R. Amperes : 60.0 A
LRC : 5.6x(Code G)
No load current : 5.20 A
Rated speed : 880 rpm
Slip : 2.22 %
Rated torque : 59.7 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 7.20 sq.ft.lb
Design : B

Locked rotor time : 57s (cold) 32s (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 : 54.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 344 lb

Output 25% 50% 75% 100%

Efficiency (%) 89.3 89.5 90.2 90.2
Power Factor 0.36 0.61 0.72 0.78

Foundation loads

Max. traction : 452 lb
Max. compression : 796 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)
10.3	8.5	8.4	5.4	3.7	2.6	1.8

	Drive end	Non drive end
Bearing type :	6311 C3	6211 C3
Sealing :	Inpro/Seal	Inpro/Seal
Lubrication interval :	20000 h	20000 h
Lubricant amount :	18 g	11 g
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	25/03/2024			