

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11594953

Catalog # : 00158ST3HIE145TC-W22

Frame	: 143/5TC	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.62 A	Protection degree	: IP56
L. R. Amperes	: 13.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code L)	Mounting	: F-1
No load current	: 0.880 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 4.49 ft.lb	Approx. weight ³	: 60.5 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1431 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
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Efficiency (%)	81.3	82.5	85.5	86.5
Power Factor	0.35	0.60	0.70	0.79

Foundation loads

Max. traction : 106 lb
Max. compression : 167 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)
14.6	12.1	12.2	8.2	5.7	4.3	3.2

	Drive end	Non drive end
Bearing type	: 6205 C3	: 6204 C3
Sealing	: Inpro/Seal	: Inpro/Seal
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 4 g	: 4 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 1 / 1 Revision		
Checked by				
Date	29/03/2024			