

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717786

Catalog # : 00509ET3H254T-W22

Frame : 254/6T
 Output : 5 HP (3.7 kW)
 Poles : 8
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 6.15 A
 L. R. Amperes : 32.6 A
 LRC : 5.3x(Code H)
 No load current : 4.32 A
 Rated speed : 883 rpm
 Slip : 1.89 %
 Rated torque : 29.7 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 3.41 sq.ft.lb
 Design : B

Locked rotor time : 77s (cold) 43s (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 : 258 lb

Output	50%	75%	100%
Efficiency (%)	84.7	87.0	87.5
Power Factor	0.48	0.61	0.69

Foundation loads
 Max. traction : 270 lb
 Max. compression : 528 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)
13.7	11.9	12.0	7.8	5.9	4.6	3.6

	Drive end	Non drive end
Bearing type	6309 C3	6209 C3
Sealing	V'Ring	V'Ring
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 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		
Checked by				
Date	29/03/2024			
		Revision		