

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12438113

Catalog # : 00136ET3H143T-W22

Frame : 143/5T
Output : 1 HP (0.75 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 1.18 A
L. R. Amperes : 9.64 A
LRC : 8.2x(Code L)
No load current : 0.616 A
Rated speed : 3500 rpm
Slip : 2.78 %
Rated torque : 1.50 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.0332 sq.ft.lb

Locked rotor time : 36s (cold) 20s (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 : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 38.2 lb

Output	50%	75%	100%
Efficiency (%)	75.0	79.0	80.0
Power Factor	0.63	0.74	0.80

Foundation loads
Max. traction : 21 lb
Max. compression : 59 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)
22.8	16.9	16.0	14.5	8.4	6.7	4.4

	Drive end	Non drive end
Bearing type	6205 ZZ	6204 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	26/03/2024			