

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11418368

Catalog # : 10012ET3HRB444T-W22

Frame : 444/5T
Output : 100 HP (75 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 96.7 A
L. R. Amperes : 599 A
LRC : 6.2x(Code G)
No load current : 36.0 A
Rated speed : 1189 rpm
Slip : 0.92 %
Rated torque : 442 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 87.3 sq.ft.lb
Design : B

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 : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1553 lb

Output	50%	75%	100%
Efficiency (%)	94.5	95.0	95.0
Power Factor	0.68	0.78	0.82

Foundation loads
Max. traction : 2167 lb
Max. compression : 3720 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)
5.2	4.2	3.8	2.8	1.8	1.3	0.9

	Drive end	Non drive end
Bearing type	NU-319 C3	6316 C3
Sealing	WSeal	WSeal
Lubrication interval	9000 h	16000 h
Lubricant amount	45 g	34 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	28/03/2024			