

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165651

Catalog # : 12512ET3ERB445T-W22

Frame : 444/5T
 Output : 125 HP
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 290/145 A
 L. R. Amperes : 1856/928 A
 LRC : 6.4x(Code G)
 No load current : 116/58.0 A
 Rated speed : 1188 rpm
 Slip : 1.00 %
 Rated torque : 553 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 104 sq.ft.lb
 Design : B

Locked rotor time : 34s (cold) 19s (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 : 1697 lb

Output	50%	75%	100%
Efficiency (%)	95.0 94.8 94.7 94.7 95.0 95.0 95.0	95.4 94.9 94.9 95.1 94.5 94.5 95.0	95.0 94.6 94.6 94.8 93.6 93.6 94.1
Power Factor	0.70 0.68 0.65 0.62 0.73 0.71 0.69	0.79 0.78 0.76 0.74 0.81 0.79 0.78	0.82 0.82 0.81 0.80 0.84 0.82 0.82

Foundation loads
 Max. traction : 3229 lb
 Max. compression : 4926 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	5.2	5.6	5.6	5.4	6.7	6.7	6.1
	P2 (0,5;1,0)	4.1	4.5	4.5	4.3	5.4	5.4	4.9
	P3 (0,25;1,0)	3.8	4.1	4.1	4.0	5.0	5.0	4.5
	P4 (0,9;0,5)	2.7	2.9	2.9	2.8	3.4	3.4	3.2
	P5 (0,5;0,5)	1.8	1.9	1.9	1.8	2.3	2.3	2.1
	P6 (0,5;0,25)	1.2	1.3	1.3	1.3	1.6	1.6	1.5
	P7 (0,25;0,25)	0.8	0.9	0.9	0.9	1.1	1.1	1.0

	<u>Drive end</u>	<u>Non drive end</u>
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 1 / 1 Revision		
Checked by				
Date	28/03/2024			