

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11953403

Catalog # : 12518ET3E444TC-W22

Frame : 444/5TC
 Output : 125 HP
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 279/139 A
 L. R. Amperes : 1811/905 A
 LRC : 6.5x(Code G)
 No load current : 92.0/46.0 A
 Rated speed : 1785 rpm
 Slip : 0.83 %
 Rated torque : 368 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 57.2 sq.ft.lb
 Design : B

Locked rotor time : 48s (cold) 27s (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 : 73.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 1564 lb

Output	50%	75%	100%
Efficiency (%)	95.0 94.7 94.6 94.3 95.0 95.0 95.0	95.4 95.1 95.1 95.1 95.0 95.0 95.0	95.4 95.0 95.0 95.2 94.5 94.5 95.0
Power Factor	0.74 0.73 0.69 0.67 0.79 0.76 0.74	0.82 0.82 0.80 0.78 0.84 0.83 0.82	0.85 0.85 0.84 0.83 0.86 0.85 0.85

Foundation loads
 Max. traction : 1814 lb
 Max. compression : 3378 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.9	4.9	4.7	5.5	5.5	4.9
	P2 (0,5;1,0)	3.4	3.7	3.7	3.5	4.1	4.1	3.7
	P3 (0,25;1,0)	3.0	3.3	3.3	3.1	3.6	3.6	3.3
	P4 (0,9;0,5)	2.4	2.6	2.6	2.5	2.9	2.9	2.6
	P5 (0,5;0,5)	1.4	1.5	1.5	1.5	1.7	1.7	1.5
	P6 (0,5;0,25)	0.9	1.0	1.0	1.0	1.1	1.1	1.0
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.7	0.7	0.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6319 C3	6316 C3
Sealing :	WSeal	WSeal
Lubrication interval :	8000 h	10000 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 / 1Revision		
Checked by				
Date	28/03/2024			