

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11536355

Catalog # : 15018ET3E445T-W22

Frame : 444/5T
 Output : 150 HP (110 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 340/170 A
 L. R. Amperes : 2244/1122 A
 LRC : 6.6x(Code G)
 No load current : 116/58.0 A
 Rated speed : 1784 rpm
 Slip : 0.89 %
 Rated torque : 442 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 66.7 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 : 1743 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.3	95.2	95.4	95.1	95.8	95.5	95.8	95.3
	95.2	94.7	95.1	94.8	95.5	95.5	95.3	95.5
	95.6	95.7	95.4	95.4	95.4	95.4	95.0	95.0
	95.3	95.4	95.4	95.4	95.4			
Power Factor	0.49	0.49	0.74	0.73	0.82	0.83	0.85	0.85
	0.45	0.43	0.70	0.68	0.81	0.79	0.85	0.84
	0.55	0.51	0.79	0.76	0.85	0.83	0.86	0.86
	0.49		0.74		0.82		0.85	

Foundation loads
 Max. traction : 2529 lb
 Max. compression : 4272 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P2 (0,5;1,0)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	P3 (0,25;1,0)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

	Drive end	Non drive end
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				
Checked by				
Date	28/03/2024			

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 Revision