

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792519

Catalog # : 10012EG3E444T-W22

Frame : 444/5T
 Output : 100 HP (75 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 249/124 A
 L. R. Amperes : 1891/945 A
 LRC : 7.6x(Code J)
 No load current : 102/51.0 A
 Rated speed : 1189 rpm
 Slip : 0.92 %
 Rated torque : 442 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 106 sq.ft.lb
 Design : A

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 : 69.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 1970 lb

Output	50%	75%	100%
Efficiency (%)	94.5 94.6	95.4 95.0	95.8 95.0
	95.0 95.0	95.4 95.4	95.4 95.4
Power Factor	0.60 0.67	0.72 0.77	0.79 0.82
	0.63 0.60	0.75 0.73	0.81 0.79

Foundation loads
 Max. traction : 2695 lb
 Max. compression : 4665 lb

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

Losses (%)	P1 (0,9;1,0)	4.3	5.1	4.7	4.7
	P2 (0,5;1,0)	3.3	4.0	3.6	3.6
	P3 (0,25;1,0)	2.9	3.5	3.2	3.2
	P4 (0,9;0,5)	2.4	2.9	2.6	2.6
	P5 (0,5;0,5)	1.5	1.9	1.7	1.7
	P6 (0,5;0,25)	1.1	1.4	1.2	1.2
	P7 (0,25;0,25)	0.7	0.9	0.8	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 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				
Checked by				
Date	29/03/2024			

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 Revision