

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792521

Catalog # : 12518EG3G444T-W22

Frame : 444/5T
Output : 125 HP
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 147 A
L. R. Amperes : 1308 A
LRC : 8.9x(Code K)
No load current : 68.0 A
Rated speed : 1789 rpm
Slip : 0.61 %
Rated torque : 367 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 320 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 58.4 sq.ft.lb
Design : A

Locked rotor time : 59s (cold) 33s (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 : 1679 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.5	94.9	95.0	95.0	95.8	95.4	96.2	95.4
	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8
Power Factor	0.39	0.45	0.64	0.70	0.75	0.79	0.80	0.83
	0.42	0.39	0.67	0.65	0.77	0.75	0.81	0.80

Foundation loads
Max. traction : 2686 lb
Max. compression : 4365 lb

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

Losses (%)	P1 (0,9;1,0)	3.8	4.6	4.2	4.2
	P2 (0,5;1,0)	2.6	3.2	2.9	2.9
	P3 (0,25;1,0)	2.2	2.7	2.4	2.4
	P4 (0,9;0,5)	2.5	3.0	2.7	2.7
	P5 (0,5;0,5)	1.4	1.7	1.6	1.6
	P6 (0,5;0,25)	1.1	1.4	1.2	1.2
	P7 (0,25;0,25)	0.7	0.8	0.7	0.7

		<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 / 1		
Checked by				
Date	29/03/2024			
		Revision		