

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11355772

Catalog # : 12518ET3ERB444T-W22

Frame	: 444/5T	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 279/139 A	Protection degree	: IP55
L. R. Amperes	: 1811/905 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 92.0/46.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 368 ft.lb	Approx. weight ³	: 1536 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		

Output	50%	75%	100%	Foundation loads			
Efficiency (%)	95.0 94.7	95.4 95.1	95.4 95.0	Max. traction			: 1828 lb
	94.6 94.3	95.1 95.1	95.0 95.2				
	95.0 95.0	95.0 95.0	94.5 94.5				
	95.0	95.0	95.0	Max. compression			: 3364 lb
Power Factor	0.74 0.73	0.82 0.82	0.85 0.85				
	0.69 0.67	0.80 0.78	0.84 0.83				
	0.79 0.76	0.84 0.83	0.86 0.85				
	0.74	0.82	0.85				

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

	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
Losses (%)	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.7	0.7	0.6

		Drive end		Non drive end			
		NU-319 C3	WSeal	6316 C3	WSeal		
Bearing type	:						
Sealing	:						
Lubrication interval	:	5000 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				Page	Revision
					1 / 1	