

# 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  
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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 73.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1536 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 : 1828 lb  
  
Max. compression : 3364 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 :	NU-319 C3	6316 C3
Sealing :	WSeal	WSeal
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		Page 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		