

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11626903

Catalog # : 15012ET3E447T-W22

Frame : 445/7T  
 Output : 150 HP (110 kW)  
 Poles : 6  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 352/176 A  
 L. R. Amperes : 2179/1090 A  
 LRC : 6.2x(Code G)  
 No load current : 136/68.0 A  
 Rated speed : 1189 rpm  
 Slip : 0.92 %  
 Rated torque : 662 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Insulation class : F  
 Service factor : 1.15  
 Moment of inertia (J) : 134 sq.ft.lb  
 Design : B

Locked rotor time : 36s (cold) 20s (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> : 69.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 2212 lb

Output	50%	75%	100%
Efficiency (%)	95.0 94.8 94.5 94.5 95.0 95.0 95.0	95.4 95.1 95.1 95.1 95.0 95.0 95.0	95.8 94.9 95.1 95.1 94.5 95.0 95.0
Power Factor	0.67 0.67 0.64 0.60 0.73 0.70 0.67	0.78 0.79 0.76 0.74 0.82 0.80 0.78	0.82 0.83 0.82 0.80 0.84 0.83 0.82

Foundation loads  
 Max. traction : 4218 lb  
 Max. compression : 6430 lb

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

Losses (%)	P1 (0,9;1,0)	4.6	5.7	5.4	5.4	6.1	5.6	5.6
	P2 (0,5;1,0)	3.8	4.6	4.4	4.4	5.0	4.5	4.5
	P3 (0,25;1,0)	3.4	4.2	4.0	4.0	4.5	4.1	4.1
	P4 (0,9;0,5)	2.4	2.9	2.8	2.8	3.2	2.9	2.9
	P5 (0,5;0,5)	1.7	2.0	1.9	1.9	2.2	2.0	2.0
	P6 (0,5;0,25)	1.2	1.4	1.4	1.4	1.5	1.4	1.4
	P7 (0,25;0,25)	0.7	0.9	0.9	0.9	1.0	0.9	0.9

	Drive end	Non drive end
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		Page Revision 1 / 1		
Checked by				
Date	28/03/2024			