

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165226

Catalog # : 25018ET3HRB447T-W22

Frame : 445/7T  
Output : 250 HP (185 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 225 A  
L. R. Amperes : 1461 A  
LRC : 6.5x(Code G)  
No load current : 72.0 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 738 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 89.6 sq.ft.lb  
Design : B

Locked rotor time : 27s (cold) 15s (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> : 2569 lb

Output	50%	75%	100%
Efficiency (%)	95.8	96.2	96.2
Power Factor	0.75	0.83	0.86

Foundation loads  
Max. traction : 3434 lb  
Max. compression : 6003 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.2	3.5	3.1	2.1	1.5	1.0	0.6

	Drive end	Non drive end
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				
Checked by				
Date	28/03/2024			

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Revision