

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792555

Catalog # : 25018EG3G449T-W22

Frame : 447/9T  
Output : 250 HP (185 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 286 A  
L. R. Amperes : 2345 A  
LRC : 8.2x(Code J)  
No load current : 100 A  
Rated speed : 1785 rpm  
Slip : 0.83 %  
Rated torque : 735 ft.lb  
Locked rotor torque : 270 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 104 sq.ft.lb  
Design : A

Locked rotor time : 37s (cold) 21s (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> : 75.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 2885 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.8	95.7	96.2	95.8	96.5	96.2	96.8	96.2
	95.7	96.1	95.8	96.2	96.2	96.4	96.2	96.4
Power Factor	0.45	0.51	0.68	0.74	0.78	0.82	0.84	0.86
	0.48	0.45	0.71	0.69	0.80	0.79	0.85	0.84

Foundation loads  
Max. traction : 4685 lb  
Max. compression : 7570 lb

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

Losses (%)	P1 (0,9;1,0)	3.6	4.3	4.3	4.0
	P2 (0,5;1,0)	2.8	3.4	3.4	3.2
	P3 (0,25;1,0)	2.4	2.9	2.9	2.7
	P4 (0,9;0,5)	2.0	2.4	2.4	2.3
	P5 (0,5;0,5)	1.4	1.7	1.7	1.6
	P6 (0,5;0,25)	1.1	1.3	1.3	1.2
	P7 (0,25;0,25)	0.6	0.7	0.7	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	6000 h	8000 h
Lubricant amount	:	60 g	45 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	29/03/2024			

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Revision