

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792553

Catalog # : 20012EG3G449T-W22

Frame	: 447/9T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 245 A	Protection degree	: IP55
L. R. Amperes	: 1838 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code J)	Mounting	: F-1
No load current	: 122 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1190 rpm	Noise level <sup>2</sup>	: 70.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 883 ft.lb	Approx. weight <sup>3</sup>	: 2945 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 156 sq.ft.lb		
Design	: A		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.9	94.9	95.4	95.0	95.8	95.6	96.2	95.6	Max. traction	: 6729 lb
	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8		
Power Factor	0.35	0.41	0.60	0.67	0.72	0.77	0.80	0.83	Max. compression	: 9674 lb
	0.38	0.36	0.63	0.61	0.75	0.73	0.81	0.80		

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

Losses (%)	P1 (0,9;1,0)	4.3	5.0	4.7	4.7
	P2 (0,5;1,0)	3.3	3.9	3.7	3.7
	P3 (0,25;1,0)	2.8	3.2	3.1	3.1
	P4 (0,9;0,5)	2.6	3.1	2.9	2.9
	P5 (0,5;0,5)	1.8	2.1	2.0	2.0
	P6 (0,5;0,25)	1.4	1.7	1.6	1.6
	P7 (0,25;0,25)	0.9	1.0	1.0	1.0

		Drive end	Non drive end
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	11000 h	13000 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		Page 1 / 1	Revision