

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line		: W22 Super Premium Efficiency Three-Phase		Product code :	11792552			
				Catalog # :	20018EG3G449T-W22			
Frame	: 447/9T	Locked rotor time	: 43s (cold) 24s (hot)					
Output	: 200 HP (150 kW)	Temperature rise	: 80 K					
Poles	: 4	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	: 234 A	Protection degree	: IP55					
L. R. Amperes	: 2036 A	Cooling method	: IC411 - TEFC					
LRC	: 8.7x(Code K)	Mounting	: F-1					
No load current	: 92.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)					
Rated speed	: 1787 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)					
Slip	: 0.72 %	Starting method	: Direct On Line					
Rated torque	: 588 ft.lb	Approx. weight <sup>3</sup>	: 2855 lb					
Locked rotor torque	: 280 %							
Breakdown torque	: 300 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 98.7 sq.ft.lb							
Design	: A							
Output	50%	75%	100%	Foundation loads				
Efficiency (%)	95.8 95.8	96.5 96.2	96.8 96.2	Max. traction	: 4040 lb			
	95.8 96.2	96.2 96.4	96.2 96.4	Max. compression	: 6895 lb			
Power Factor	0.66 0.72	0.77 0.81	0.83 0.86					
	0.69 0.67	0.79 0.78	0.85 0.84					
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	3.3	3.3	3.1			
	P3 (0,25;1,0)	2.3	2.7	2.7	2.6			
	P4 (0,9;0,5)	2.2	2.6	2.6	2.5			
	P5 (0,5;0,5)	1.5	1.7	1.7	1.6			
	P6 (0,5;0,25)	1.1	1.4	1.4	1.3			
	P7 (0,25;0,25)	0.7	0.8	0.8	0.8			
			Drive end					
Bearing type	:	6322 C3	Non drive end					
Sealing	:	WSeal	6319 C3					
Lubrication interval	:	6000 h	WSeal					
Lubricant amount	:	60 g	8000 h					
Lubricant type	:	Mobil Polyrex EM						
Notes:								
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.					
(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.								
Rev.	Changes Summary			Performed	Checked			
Performed by					Page			
Checked by					Revision			
Date	29/03/2024				1 / 1			