

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



### Customer

Product line : W22 High Efficiency Three-Phase Product code : 11302582  
Catalog # : 35036EP3G449TS-W22

Frame	: 447/9TS	Locked rotor time	: 18s (cold) 10s (hot)			
Output	: 350 HP (260 kW)	Temperature rise	: 80 K			
Poles	: 2	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	: 380 A	Protection degree	: IP55			
L. R. Amperes	: 2470 A	Cooling method	: IC411 - TEFC			
LRC	: 6.5x(Code G)	Mounting	: F-1			
No load current	: 75.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 3565 rpm	Starting method	: Direct On Line			
Slip	: 0.97 %	Approx. weight <sup>3</sup>	: 2945 lb			
Rated torque	: 516 ft.lb					
Locked rotor torque	: 229 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 68.1 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.7	95.0	95.2	95.4	Max. traction	: 1826 lb
Power Factor	0.65	0.85	0.89	0.90	Max. compression	: 4771 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)
5.2	4.2	3.6	2.7	1.8	1.2	0.7
<u>Drive end</u>				<u>Non drive end</u>		
Bearing type	: 6314 C3				6314 C3	
Sealing	: WSeal				WSeal	
Lubrication interval	: 4000 h				4000 h	
Lubricant amount	: 27 g				27 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
Checked by					
Date	28/03/2024			1 / 1	