

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12088976

Catalog # : 70036ET3G588/9S-W22

Frame	: 588/9TS	Locked rotor time	: 61s (cold) 34s (hot)
Output	: 700 HP (515.20 kW)	Temperature rise	: 105 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	: 736 A	Protection degree	: IP55
L. R. Amperes	: 5299 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code G)	Mounting	: F-1
No load current	: 140 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3585 rpm	Noise level ²	: 89.0 dB(A)
Slip	: 0.42 %	Starting method	: Direct On Line
Rated torque	: 1030 ft.lb	Approx. weight ³	: 5321 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 183 sq.ft.lb		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	96.2	96.6	96.6
Power Factor	0.00	0.86	0.90	0.91

Foundation loads	
Max. traction	: 2688 lb
Max. compression	: 8008 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)
3.7	2.5	1.9	2.3	1.2	0.9	0.5

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: Taconite Labyrinth	: Taconite Labyrinth
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				
Checked by				
Date	29/03/2024			
			Page	Revision
			1 / 2	

Customer :

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page		Revision
Checked by					
Date	29/03/2024				