

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
Output : 200 HP (150 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 234 A
L. R. Amperes : 2036 A
LRC : 8.7x(Code K)
No load current : 92.0 A
Rated speed : 1787 rpm
Slip : 0.72 %
Rated torque : 588 ft.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

Locked rotor time : 43s (cold) 24s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 75.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2855 lb

Output	50%	75%	100%
Efficiency (%)	95.8 95.8	96.5 96.2	96.8 96.2
	95.8 96.2	96.2 96.4	96.2 96.4
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

Foundation loads
Max. traction : 4040 lb
Max. compression : 6895 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	3.3	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

		<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