

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13827809
Catalog # : 45018ET3GKD586/7-W22

Frame	: 586/7T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 450 HP (330 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	: 501 A	Protection degree	: IP55
L. R. Amperes	: 3758 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code H)	Mounting	: F-1
No load current	: 160 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1786 rpm	Noise level ²	: 78.0 dB(A)
Slip	: 0.78 %	Starting method	: Direct On Line
Rated torque	: 1310 ft.lb	Approx. weight ³	: 3794 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: A		
Design			

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7	95.8	96.2	96.2	Max. traction	: 4912 lb
Power Factor	0.50	0.75	0.83	0.86	Max. compression	: 8706 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-322 C3	6319 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	4000 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
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Checked by				
Date	27/01/2018			

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Space heater information

Voltage: 200 - 240 V

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