

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
 Output : 450 HP (330 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 460 V
 Rated current : 501 A
 L. R. Amperes : 3758 A
 LRC : 7.5x(Code H)
 No load current : 160 A
 Rated speed : 1786 rpm
 Slip : 0.78 %
 Rated torque : 1320 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 229 sq.ft.lb
 Design : A

Locked rotor time : 45s (cold) 25s (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 : 78.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 3912 lb

Output 25% 50% 75% 100%

Efficiency (%) 0.000 95.8 96.2 96.2
 Power Factor 0.00 0.75 0.83 0.86

Foundation loads

Max. traction : 4945 lb
 Max. compression : 8857 lb

	Drive end	Non drive end
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
Performed by		Page Revision 1 / 2		
Checked by				
Date	27/03/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page		Revision
Checked by					
Date	27/03/2024				