

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14285039

Catalog # : 20018OT3G445TSDF2-W4

Frame : 444/5TSD
Output : 200 HP (150 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 234 A
L. R. Amperes : 1544 A
LRC : 6.6x(Code G)
No load current : 86.5 A
Rated speed : 1783 rpm
Slip : 0.94 %
Rated torque : 589 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 46.4 sq.ft.lb
Design : B

Locked rotor time : 25s (cold) 14s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-2
Rotation¹ : Both (CW and CCW)
Noise level² : 78.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1421 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.3	95.1	95.4	95.2	95.8	95.6	95.8	95.6
	95.3	95.1	95.4	95.2	95.6	95.6	95.6	95.6
Power Factor	0.46	0.48	0.72	0.74	0.80	0.82	0.84	0.85
	0.44	0.41	0.70	0.67	0.80	0.77	0.84	0.82

Foundation loads
Max. traction : 3744 lb
Max. compression : 5165 lb

	Drive end	Non drive end
Bearing type	6314 C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	27 g	13 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 1 / 1		
Checked by				
Date	29/03/2024			
			Revision	