

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272919

Catalog # : 07536OT3E364TSC-W40G

Frame : 364/5TSC
 Output : 75 HP (55 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 170/84.8 A
 L. R. Amperes : 1119/560 A
 LRC : 6.6x(Code G)
 No load current : 43.0/21.5 A
 Rated speed : 3555 rpm
 Slip : 1.25 %
 Rated torque : 111 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 6.40 sq.ft.lb
 Design : B

Locked rotor time : 34s (cold) 19s (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-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 84.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 736 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.0	90.5	91.7	91.7	93.0	92.9	93.6	94.0
	90.2	89.7	91.4	91.0	92.8	92.7	94.0	94.0
Power Factor	0.56	0.56	0.77	0.78	0.84	0.85	0.87	0.88
	0.51	0.47	0.73	0.69	0.83	0.80	0.87	0.85

Foundation loads
 Max. traction : 651 lb
 Max. compression : 1387 lb

	Drive end	Non drive end
Bearing type	6314 C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	14418 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				
Checked by				
Date	28/03/2024			

Page 1 / 1
 Revision