

Three Phase Induction Motor - Squirrel Cage



Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14272903
		Catalog # :	06018OT3E364TC-W40G

Frame	: 364/5TC	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 140/69.9 A	Protection degree	: IP23
L. R. Amperes	: 909/454 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 49.4/24.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 177 ft.lb	Approx. weight ³	: 772 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 15.6 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.4	93.4	94.5	93.5	95.0	93.9	95.0	93.9	Max. traction	: 1250 lb
	93.4	93.4	93.5	93.5	93.9	93.9	93.9	93.9		
Power Factor	0.48	0.49	0.73	0.74	0.82	0.83	0.85	0.86	Max. compression	: 2022 lb
	0.45	0.42	0.71	0.68	0.81	0.79	0.85	0.84		

	<u>Drive end</u>	<u>Non drive end</u>
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:

- (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	Revision
Checked by					
Date	28/03/2024				