

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272544

Catalog # : 15036OT3G405TSC-W40

Frame	: 404/5TSC	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 167 A	Protection degree	: IP23
L. R. Amperes	: 1102 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 40.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3552 rpm	Noise level ²	: 84.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 222 ft.lb	Approx. weight ³	: 905 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 8.80 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.5	93.3	93.6	93.7	94.1	94.4	94.1	94.7	Max. traction	: 1459 lb
	92.6	91.8	93.2	92.7	94.2	93.9	94.7	94.7		
Power Factor	0.58	0.51	0.79	0.76	0.86	0.85	0.88	0.88	Max. compression	: 2364 lb
	0.47	0.43	0.70	0.65	0.81	0.77	0.86	0.83		

		<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	:	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		Page 1 / 1		
Checked by				
Date	29/03/2024			
			Revision	