

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14027019		
		Catalog # : 10018OT3G404T-W40		
Frame	: 404/5T	Locked rotor time	: 21s (cold) 12s (hot)	
Output	: 100 HP (75 kW)	Temperature rise	: 80 K	
Poles	: 4	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	: 115 A	Protection degree	: IP23	
L. R. Amperes	: 780 A	Cooling method	: IC01 - ODP	
LRC	: 6.8x(Code G)	Mounting	: F-1	
No load current	: 37.0 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	: 295 ft.lb	Approx. weight ³	: 984 lb	
Locked rotor torque	: 200 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 21.9 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	94.9	90.2	95.0	91.9
	95.4	92.9	95.4	94.7
	90.3	90.3	92.0	92.0
	92.9	92.9	94.7	94.7
Power Factor	0.50	0.48	0.75	0.73
	0.83	0.82	0.86	0.86
	0.46	0.43	0.72	0.68
	0.80	0.78	0.85	0.84
Foundation loads		Max. traction : 1894 lb		
		Max. compression : 2878 lb		
Bearing type	:	<u>Drive end</u>	<u>Non drive end</u>	
Sealing	:	6316 C3	6212 Z C3	
Lubrication interval	:	Without Bearing Seal	Without Bearing Seal	
Lubricant amount	:	20000 h	20000 h	
Lubricant type	:	34 g	13 g	
		Mobil Polyrex EM		
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.				
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by			Page	Revision
Date	29/03/2024		1 / 1	