DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14284977
		Catalog # :	12518OT3G405TSDF2-W4

Frame	: 404/5TSD	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 125 HP	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	: 138 A	Protection degree	: IP23
L. R. Amperes	: 952 A	Cooling method	: IC01 - ODP
LRC	: 6.9x(Code G)	Mounting	: F-2
No load current	: 47.0 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level²	: 69.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 369 ft.lb	Approx. weight³	: 1067 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 25.5 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	94.5	95.0	94.6	95.4	95.0	95.4	95.0
	94.5	94.8	94.6	94.9	95.0	95.0	95.0	95.0
Power Factor	0.50	0.50	0.75	0.76	0.83	0.84	0.86	0.87
	0.46	0.43	0.72	0.69	0.82	0.80	0.86	0.85

Foundation loads

Max. traction	: 2871 lb
Max. compression	: 3939 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				
Checked by			Page	Revision
Date	29/03/2024		1 / 1	

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