

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272924

Catalog # : 12512OT3G445T-W40G

Frame : 444/5T
Output : 125 HP
Poles : 6
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 154 A
L. R. Amperes : 970 A
LRC : 6.3x(Code G)
No load current : 66.0 A
Rated speed : 1189 rpm
Slip : 0.92 %
Rated torque : 552 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 63.2 sq.ft.lb
Design : B

Locked rotor time : 19s (cold) 11s (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 : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1389 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.4	94.1	94.5	94.2	95.0	94.6	95.0	94.6
	93.4	92.5	93.7	93.1	94.4	94.1	94.6	94.6
Power Factor	0.37	0.37	0.59	0.60	0.71	0.73	0.77	0.79
	0.33	0.30	0.55	0.51	0.68	0.65	0.76	0.73

Foundation loads
Max. traction : 3543 lb
Max. compression : 4932 lb

	Drive end	Non drive end
Bearing type	: 6319 C3	: 6314 C3
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 45 g	: 27 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	29/03/2024			

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Revision