DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency		13610460 02509ET3H326T-W22
					Catalog # :	02309E13F13201-W22
Frame		: 324	·/6T		Locked rotor time	: 41s (cold) 23s (hot)
Output		: 25 I	HP (18.5 k	W)	Temperature rise	: 80 K
Poles		: 8			Duty cycle	: Cont.(S1)
Frequency		: 60 l	Hz		Ambient temperature	: -20°C to +40°C
Rated voltage		: 575	i V		Altitude	: 1000 m.a.s.l.
Rated current		: 28.7	7 A		Protection degree	: IP55
L. R. Amperes		: 149			Cooling method	: IC411 - TEFC
LRC			x(Code G)		Mounting	: F-1
No load current		: 16.0 A			Rotation ¹	: Both (CW and CCW)
Rated speed		: 880 rpm			Noise level ²	: 56.0 dB(A)
Slip		: 2.22 %			Starting method	: Direct On Line
Rated torque		: 149 ft.lb			Approx. weight ³	: 553 lb
Locked rotor torque			: 200 % : 229 %			
Breakdown torque			1 %			
Insulation class		: F	-			
Service factor	. (1)	: 1.25	-			
Moment of inerti	a (J)		9 sq.ft.lb			
Design		: B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	89.2	89.5	91.0	91.0	Max. traction	: 1040 lb
Power Factor	0.30	0.51	0.64	0.71	Max. compression	: 1593 lb
			Driv	re end	Non drive end	<u></u>
Bearing type		:	63	312 C3	6212 C3	
Sealing		:	V	"Ring	V'Ring	
Lubrication inter		:		0000 h	20000 h	
Lubricant amour	nt	:		21 g	13 g	
Lubricant type		:		Mo	obil Polyrex EM	
Notes						

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



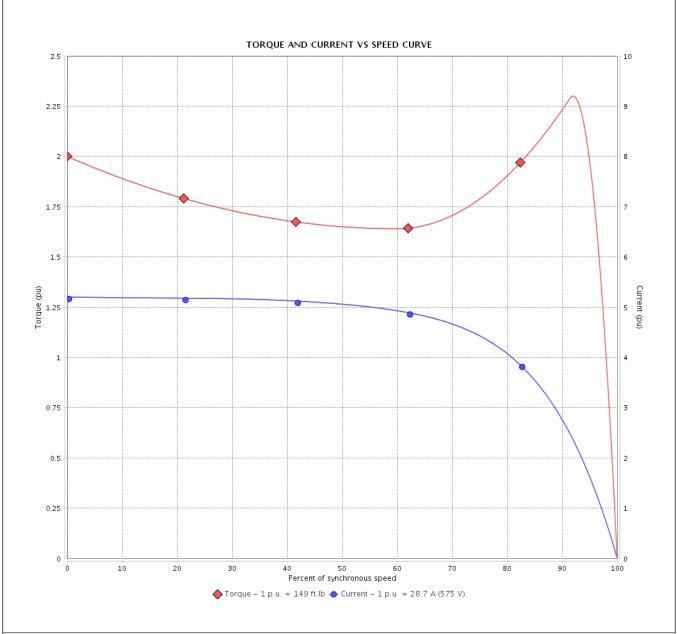
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 13610460

Catalog #: 02509ET3H326T-W22



Performance : 575 V 60 Hz 8P Rated current : 28.7 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 149 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 : 229 % Breakdown torque Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 41s (cold) 23s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



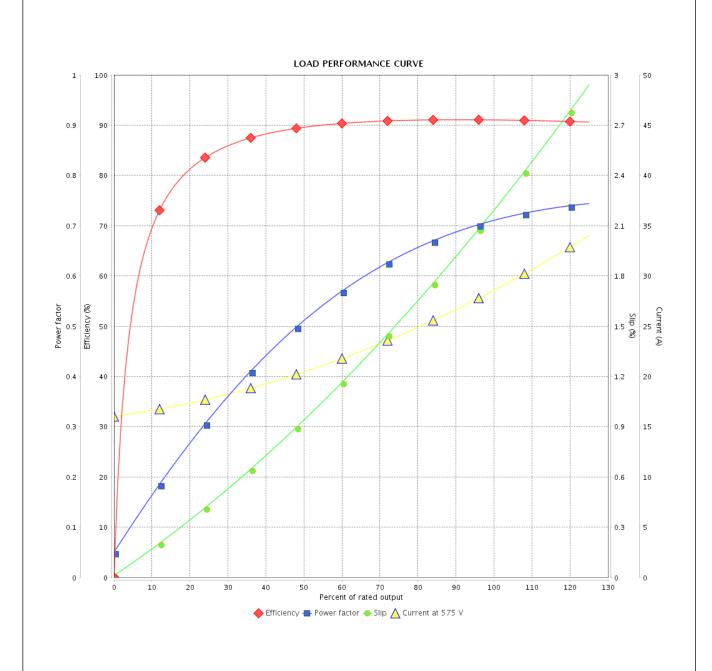
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02509ET3H326T-W22

13610460



Performance	: 575 V 60 Hz 8P				
Rated current	: 28.7 A Moment of inertia (J)		: 11.9 sq.ft.lb		
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 149 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	: 229 % Tempe		ure rise	e rise : 80 K	
Rated speed	: 880 rpm	Design		: B	
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Rated speed	: 88	30 rpm	Design		: В	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



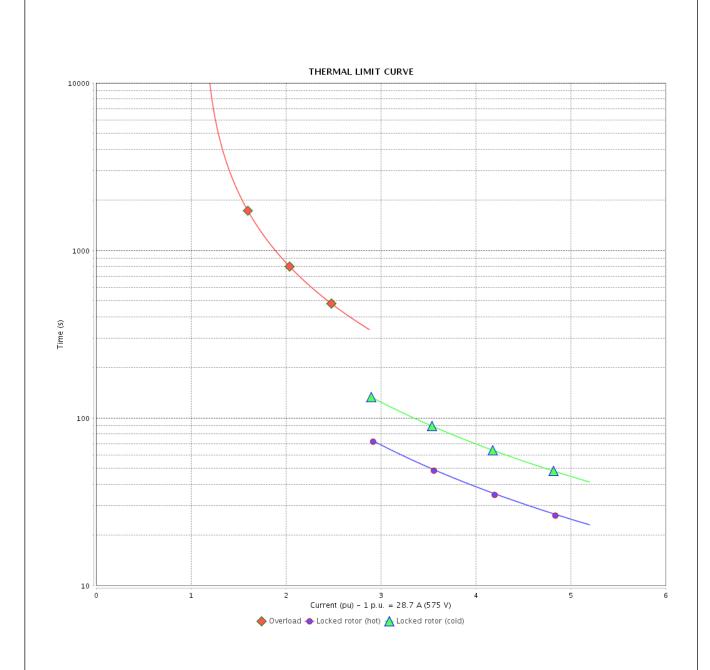
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13610460	
	PI	hase		Catalog # :	02509ET3H32	26T-W22
Denfermen		75 \				
Performance Rated current		75 V 60 Hz 8P 3.7 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.	2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		49 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 22	29 %	Temperatu	ure rise	: 80 K	
Rated speed	. 80	30 rpm	Design		: B	
Heating constant Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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Checked by

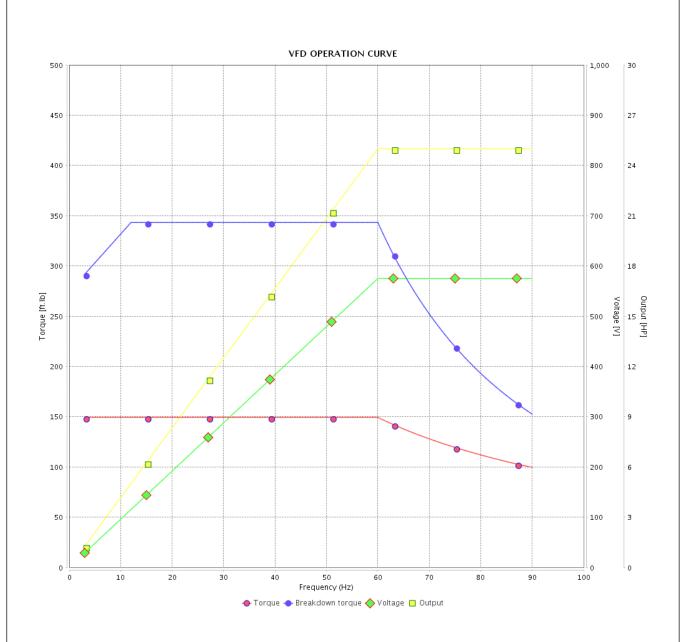
Date

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13610460

Catalog #: 02509ET3H326T-W22



Performance : 575 V 60 Hz 8P Rated current : 28.7 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.2 : 149 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

