DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEN Phas		m Efficiency	Three- Produ	ct code :	14383370 12536ET3H444TS-W22G
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 125 : 2 : 60 H : 575 : 107 : 708 : 6.6) : 27.2 : 357 : 0.83 : 184 : 200 : 250 : F	: 60 Hz : 575 V : 107 A : 708 A : 6.6x(Code G) : 27.2 A : 3570 rpm : 0.83 % : 184 ft.lb : 200 % : 250 % : F : 1.15 : 33.5 sq.ft.lb		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³		: 52s (cold) 29s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 81.0 dB(A) : Direct On Line : 1599 lb
Output	25%	50%	75%	100%	Foundation load	ds	
Efficiency (%) Power Factor	93.0 0.59	93.6 0.82	94.5 0.87	95.0 0.89	Max. traction Max. compress	ion	: 425 lb : 2025 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	63 V 4	r <u>e end</u> 114 C3 VSeal 000 h 27 g	<u>No</u> obil Polyrex EM	on drive end 6314 C3 WSeal 4000 h 27 g	
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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Checked by				Page	Revision
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

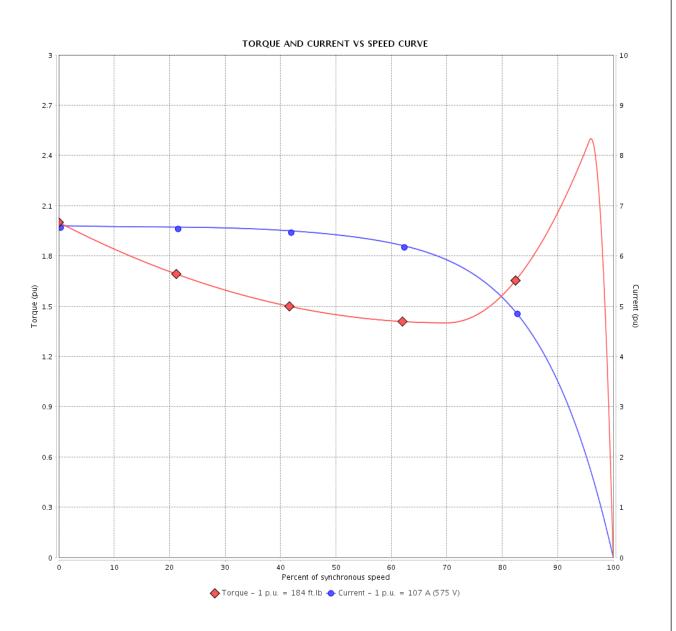


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383370

Phase

Catalog #: 12536ET3H444TS-W22G



Performance : 575 V 60 Hz 2P Rated current : 107 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 184 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B

Locked rotor time : 52s (cold) 29s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

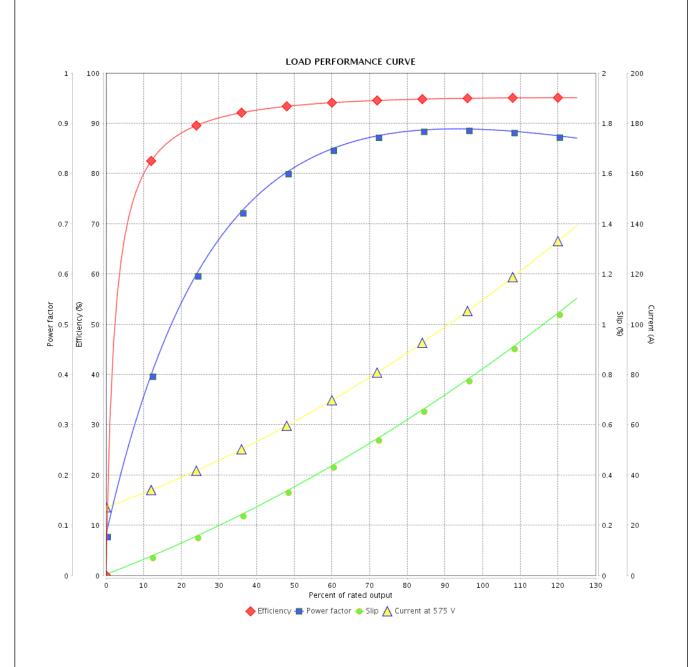


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14383370

Phase

Catalog #: 12536ET3H444TS-W22G



			·					
Performance	: 5	: 575 V 60 Hz 2P						
Rated current	: 1	107 A	Moment of inertia (J)		: 33.5 sq.ft.lb			
LRC	: 6	3.6	Duty cycle		: Cont.(S1)			
Rated torque	: 1	84 ft.lb	Insulation class		:F			
Locked rotor torqu	ie : 2	200 %	Service factor		: 1.15			
Breakdown torque	: : 2	: 250 % : 3570 rpm		Temperature rise Design				
Rated speed	: 3							
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



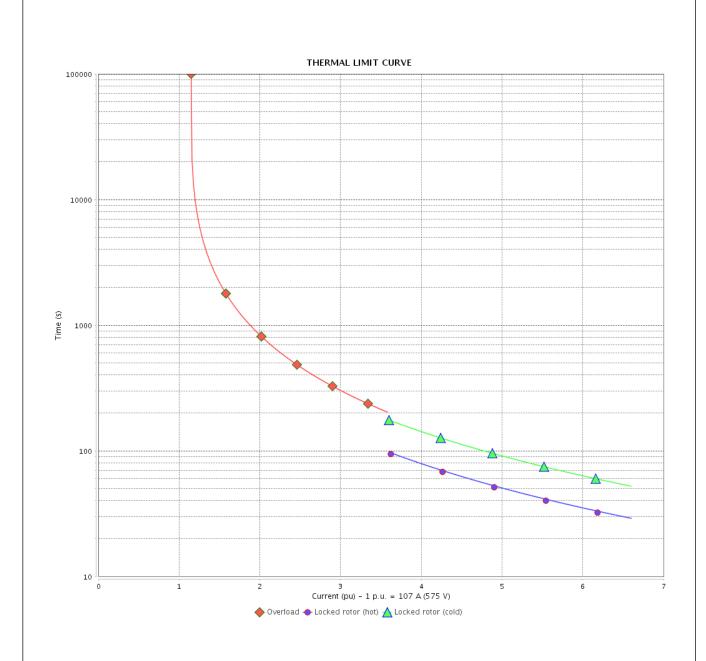
Customer		:					
Product line		: NEMA Premium Efficiency	Three-	Product code :	14383370		
		Tildoc		Catalog # :	12536ET3H4	44TS-W22G	
Performance		575 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : :ue :e	107 A 6.6 184 ft.lb 200 % 250 % 3570 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant			200911		. <u> </u>		
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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Customer :

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Date

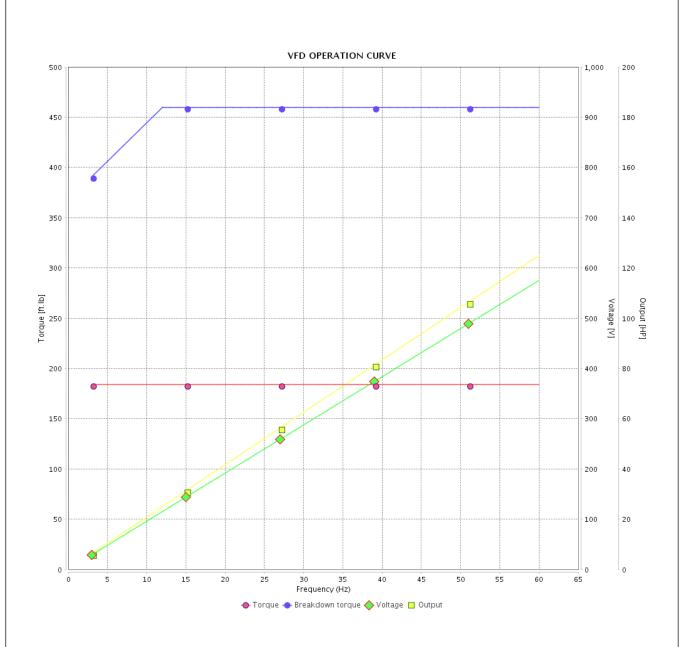
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383370

Catalog #: 12536ET3H444TS-W22G



Performance : 575 V 60 Hz 2P : 107 A Rated current Moment of inertia (J) : 33.5 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 184 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

