## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code : Catalog #:	11359238 10012ET3H444T-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertia	ie	: 6 : 60 H : 575 : 96.8 : 600 : 6.25 : 36.0 : 118 : 1.25 : 443 : 220 : 250 : F	HP (75 kV) Hz V 3 A A K(Code G) A 5 rpm 5 % ft.lb %	v)	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 36s (cold) 20s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 69.0 dB(A) : Direct On Line : 1659 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.4	94.5	95.0	95.0	Max. traction	: 2124 lb
Power Factor	0.44	0.68	0.78	0.82	Max. compression	: 3783 lb
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		: : : : : : : : : : : : : : : : : : : :	63 W 13	e end 19 C3 /Seal 000 h 45 g	Non drive en 6316 C3 WSeal 16000 h 34 g 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



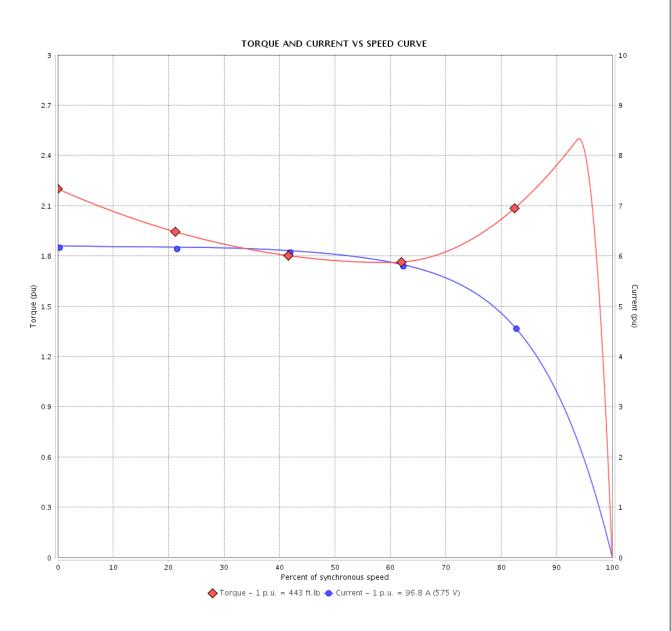
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11359238

Catalog #: 10012ET3H444T-W22



Performance : 575 V 60 Hz 6P Rated current : 96.8 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 443 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

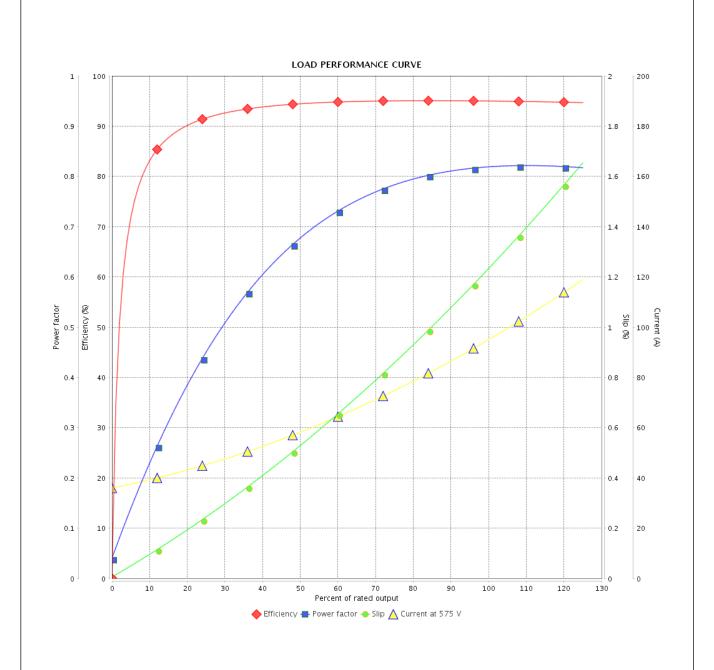


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11359238

Phase

Catalog #: 10012ET3H444T-W22



Performance		: 575 V 60 Hz 6P					
Rated current		6.8 A Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC	: 6	.2	Duty cycle		: Cont.(S1)		
Rated torque	: 4	43 ft.lb	Insulation class		: F		
Locked rotor torque		20 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	50 %	Temperatu	Temperature rise			
Rated speed	: 1	185 rpm	Design	Design			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



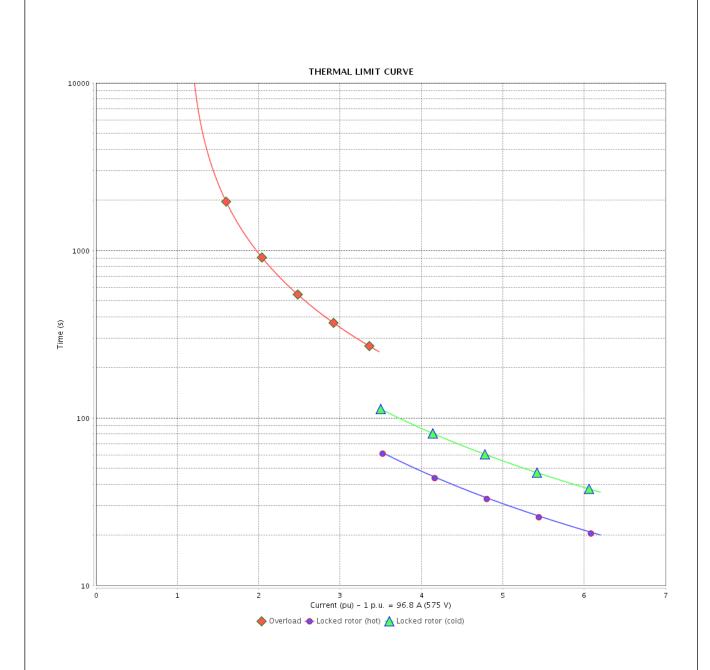
Customer	:				
Product line	: NEMA Premium Effici Phase	ency Three-	Product code :	11359238	
	Pilase		Catalog # :	10012ET3H4	44T-W22
Performance	: 575 V 60 Hz 6P				
Rated current	: 96.8 A	Moment of	of inertia (J)	: 87.3 sq.ft.lb	
LRC Rated torque	: 6.2 : 443 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 250 % : 1185 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant	r				
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



Customer :

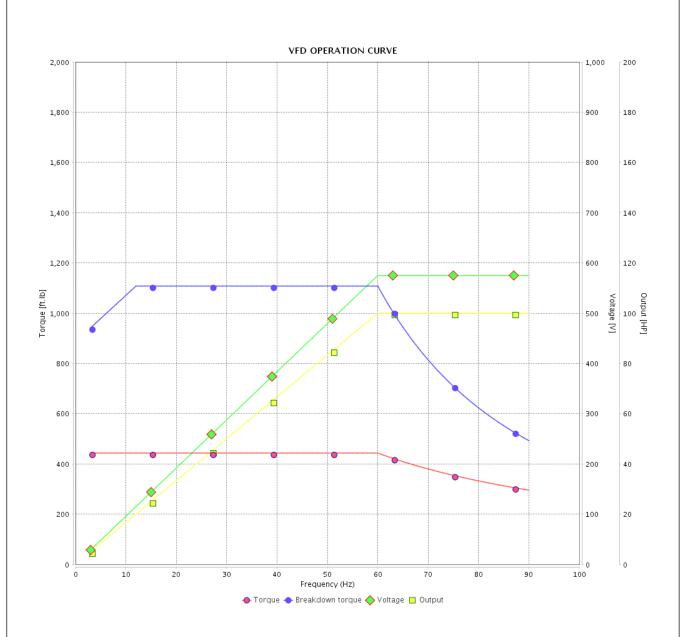
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11359238

Catalog #: 10012ET3H444T-W22

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Performance	: 575 V 60 Hz 6P				
Rated current	: 96.8 A	Moment of inertia (J)		: 87.3 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 443 ft.lb	Insulation class	SS	: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise Design		: 80 K	
Rated speed	: 1185 rpm			: B	
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Date

