## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEN Phas		m Efficiency	Three- Product code  Catalog # :	e:	12447061 01536ET3H254TC-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 torque Insulation class Service factor Moment of inertic	ie	: 2 : 60 F : 575 : 13.8 : 92.2 : 6.7x : 4.80 : 353 : 1.94 : 22.3 : 220 : 270 : F : 1.25	HP (11 kW) Hz V 3 A 2 A k(Code G) 0 A 0 rpm 4 % 3 ft.lb %		Locked rotor time Temperature rise Duty cycle Ambient temperatur Altitude Protection degree Cooling method Mounting Rotation <sup>1</sup> Noise level <sup>2</sup> Starting method Approx. weight <sup>3</sup>	e	: 45s (cold) 25s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 72.0 dB(A) : Direct On Line : 265 lb
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	89.2	89.5	91.0	91.0	Max. traction		: 156 lb
Power Factor	0.51	0.77	0.85	0.88	Max. compression		: 421 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : : : : : : : : : : : : : : : : : :	Drive end 6309 C3 V'Ring 19000 h 13 g Mo		Non drive end 6209 C3 V'Ring 20000 h 9 g Mobil 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

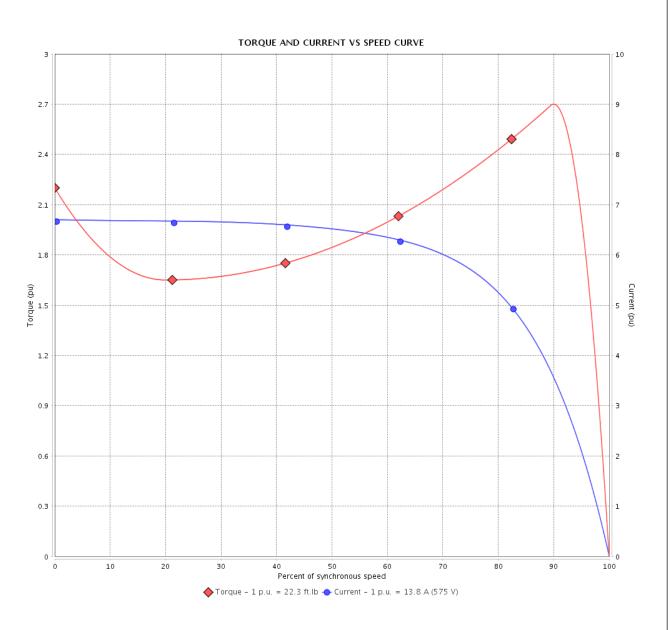
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447061

Catalog #: 01536ET3H254TC-W22



Performance : 575 V 60 Hz 2P Rated current : 13.8 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Locked rotor time

: 45s (cold) 25s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



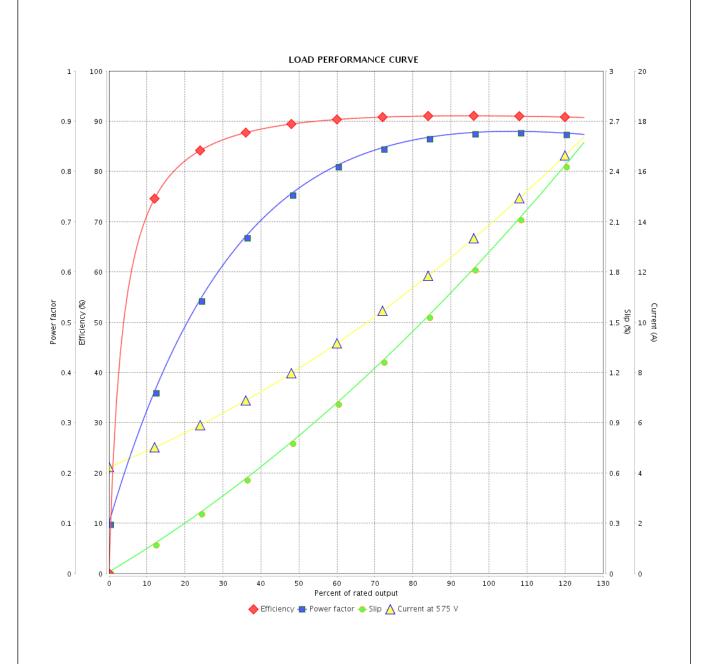
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447061

Phase

Catalog #: 01536ET3H254TC-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A Moment of in : 6.7 Duty cycle : 22.3 ft.lb Insulation cla : 220 % Service facto : 270 % Temperature : 3530 rpm Design		e : Cont.(\$1) class : F actor : 1.25		
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



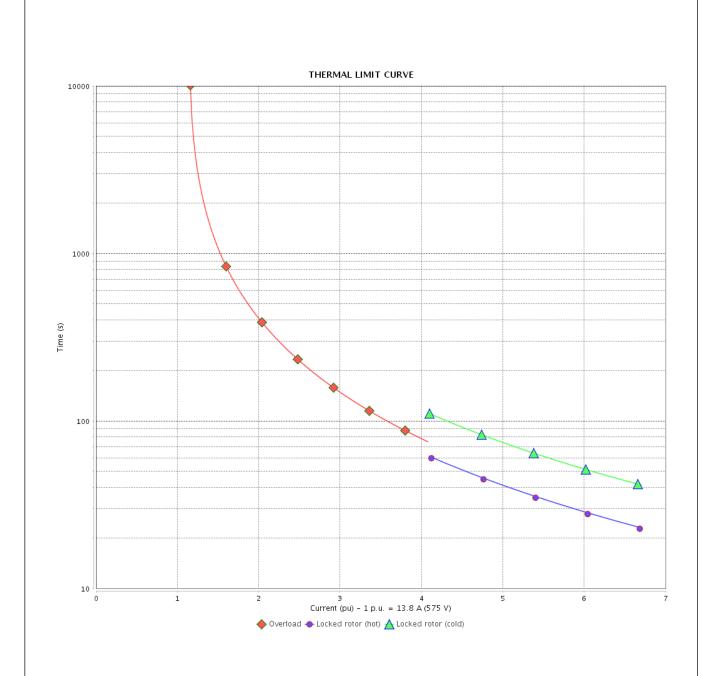
Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12447061	
	Phase		Catalog # :	01536ET3H2	54TC-W22
Performance	: 575 V 60 Hz 2P			<u> </u>	
Rated current	: 13.8 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC Rated torque	: 6.7 : 22.3 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 270 % : 3530 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 5000 ipili	Doolgii			
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



Customer :

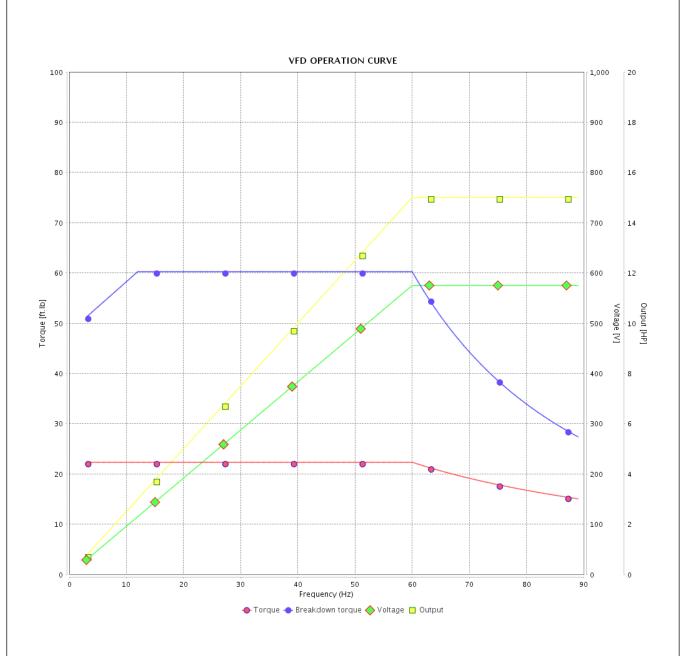
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ET3H254TC-W22

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12447061



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 13.8 A : 6.7 : 22.3 ft.lb : 220 % : 270 % : 3530 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rated speed  Rev.	Changes Summary	Design	Performed	Checked	Date
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13/04/2022

Date

