## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code : Catalog # :	12446943 01512ET3H284TC-W22
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		: 284/6TC : 15 HP (11 kW) : 6 : 60 Hz : 575 V : 14.3 A : 91.6 A : 6.4x(Code G) : 5.60 A : 1175 rpm : 2.08 % : 67.0 ft.lb : 229 % : 260 % : F : 1.25 : 7.85 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	: 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) : 59.0 dB(A) : Direct On Line : 416 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	91.0	91.7	91.7	Max. traction	: 552 lb
Power Factor	0.44	0.69	0.80	0.84	Max. compression	: 968 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	63 V 20	re end 111 C3 "Ring 0000 h 18 g M	Non drive end 6211 C3 V'Ring 20000 h 11 g obil Polyrex EM	<u>d</u>
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



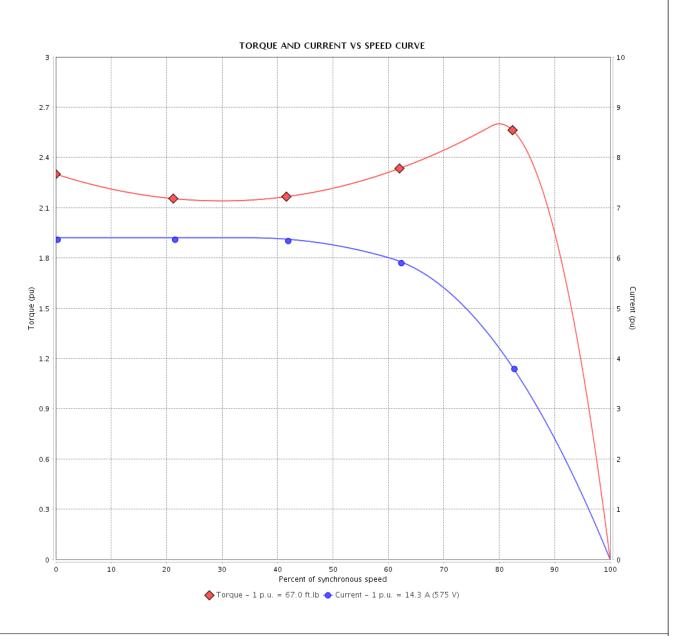
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12446943

Catalog #: 01512ET3H284TC-W22



Performance : 575 V 60 Hz 6P Rated current : 14.3 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 67.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



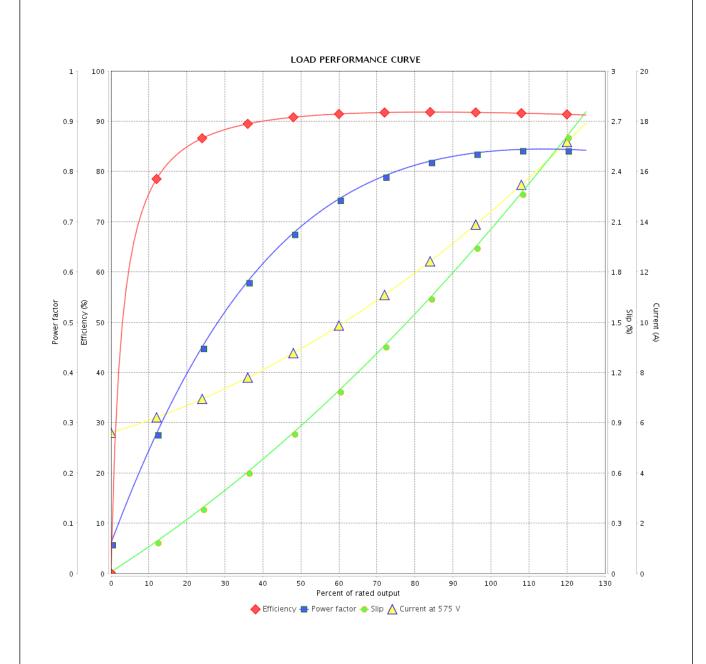
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446943

Phase

Catalog #: 01512ET3H284TC-W22

3/6



Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3 A  : 6.4  : 67.0 ft.lb  : 229 %  : 260 %  : 1175 rpm  Moment of inertia (J  Duty cycle  Insulation class  Service factor  Temperature rise  Design		class	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



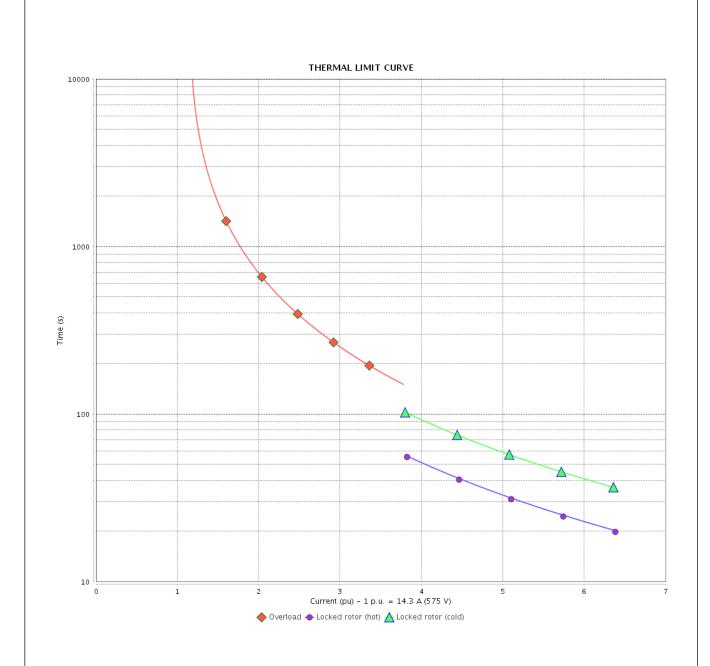
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12446943	
	۲	Phase	(	Catalog # :	01512ET3H2	34TC-W22
Performance		75 V 60 Hz 6P				
Rated current LRC	: 1 : 6	4.3 A	Moment of Duty cycle	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 6	7.0 ft.lb	Insulation	class	: F	
Locked rotor tord		29 %	Service fa		: 1.25	
Breakdown torque Rated speed		60 % 175 rpm	Temperatu Design	ire rise	: 80 K : B	
		г				
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

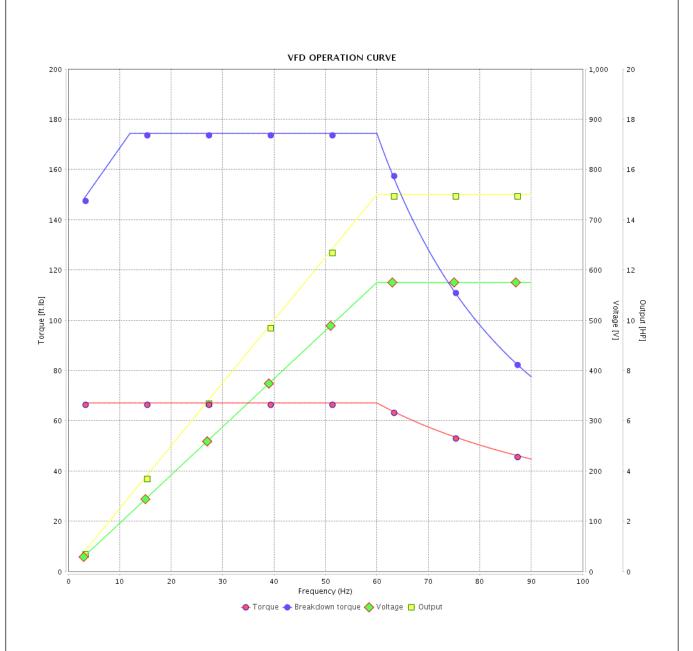
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446943

Catalog #: 01512ET3H284TC-W22



	,							
Performance	: 5 <sup>-</sup>	: 575 V 60 Hz 6P						
Rated current :		Moment of inertia (J)		: 7.85 sq.ft.lb				
LRC : 6		.4	Duty cycle	Duty cycle				
Rated torque :		7.0 ft.lb	Insulation class		:F			
•		29 %	Service fa	Service factor				
Breakdown torque		60 %	Temperat	Temperature rise				
Rated speed	: 1	175 rpm	Design		: B			
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