## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



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Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code :  Catalog # :	15459767 00118ST3HIER143TC-W2
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	: 4 : 60 H : 575 : 1.18 : 10.7 : 8.6 : 0.75 : 176 : 2.22 : 2.98 : 290 : 350 : F	P (0.75 kW) Hz V 3 A 1 A k(Code M) 52 A 0 rpm 2 % 3 ft.lb %	()	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 32s (cold) 18s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : W-6 : Both (CW and CCW) : 51.0 dB(A) : Direct On Line : 50.7 lb
Output Efficiency (%)	25% 78.4	50% 80.0	75% 84.0	85.5	Foundation loads Max. traction	: 65 lb
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		0.55 : : : :	620 Inpr 20	0.75 <u>e end</u> 05 C3 ro/Seal 000 h 4 g	Max. compression  Non drive en 6204 C3 Inpro/Sea 20000 h 4 g bbil Polyrex EM	_
Notes						

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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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	01/06/2022			1/6	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



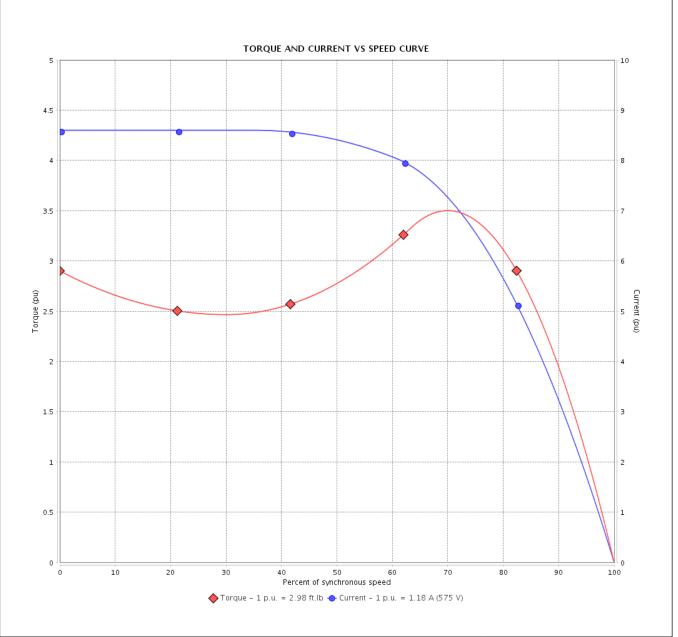
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118ST3HIER143TC-W2

15459767



Performance : 575 V 60 Hz 4P Rated current : 1.18 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	01/06/2022			2/6	

# LOAD PERFORMANCE CURVE

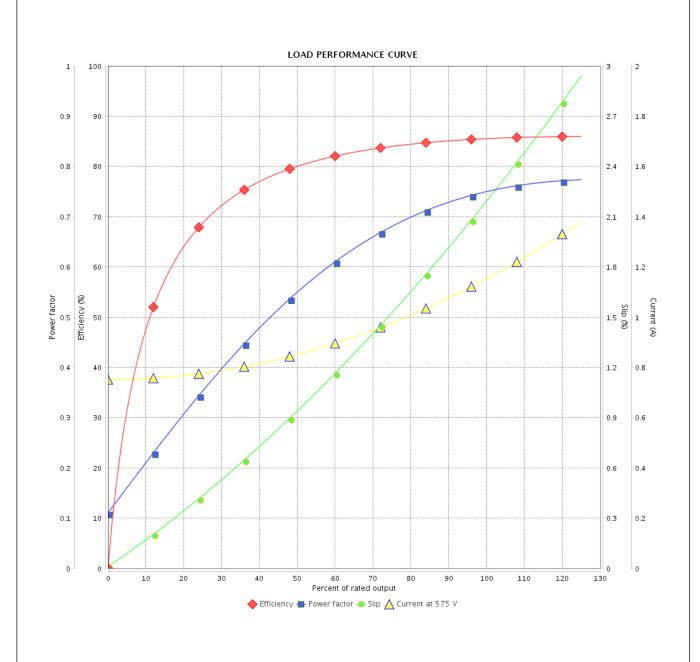
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 15459767

00118ST3HIER143TC-W2 Catalog #:



	·		<del>,</del>			
Performance	: 5	75 V 60 Hz 4P				
Rated current :		18 A	Moment o	Moment of inertia (J)		.lb
LRC : 8.		6	Duty cycle		: Cont.(S1)	
Rated torque		98 ft.lb	.lb Insulation class		:F	
Locked rotor torque : 2		90 %	Service factor		: 1.25	
Breakdown torqu	ue : 3	50 %	Temperature rise		: 80 K	
Rated speed	: 1	1760 rpm Design			: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	01/06/2022				3/6	

## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



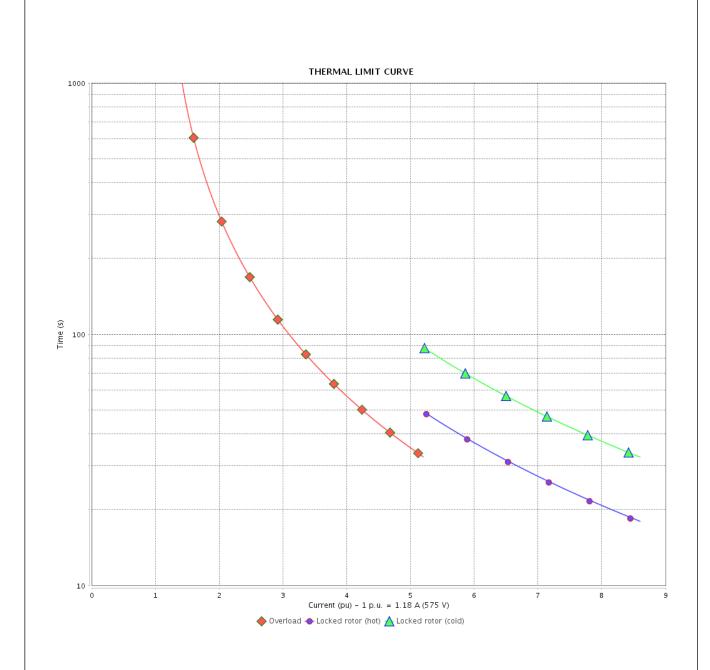
Customer		:			·	
Product line		: NEMA Premium Efficiency	Three-	Product code :	15459767	
1 Toddet IIIIe		Phase				
				Catalog # :	00118ST3HI	ER143TC-W2
Performance		: 575 V 60 Hz 4P	N/a	et in antia (I)	. 0 4470	L
Rated current LRC		: 1.18 A : 8.6	Moment o	of inertia (J) e	: 0.1172 sq.ft.l : Cont.(S1)	D
Rated torque		: 2.98 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 290 % : 350 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		: 1760 rpm	Design	uic lis <del>c</del>	: B	
Heating constant			-			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					I	
Checked by					Page	Revision
Date	01/06/2022				4/6	

## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	01/06/2022			5/6	

## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

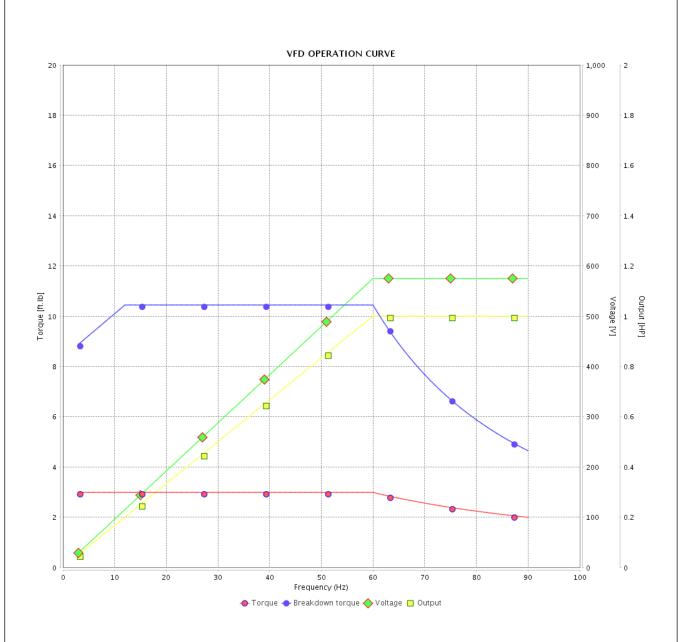
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 15459767

Catalog #: 00118ST3HIER143TC-W2

6/6



Performance	: 575 V 60 Hz 4P					
Rated current	: 1.18 A	Moment of inertia (J)		: 0.1172 sq.ft.lb		
LRC	: 8.6	Duty cycle		: Cont.(S1)		
Rated torque	: 2.98 ft.lb	Insulation class		: F		
Locked rotor torque	: 290 %	Service factor		: 1.25		
Breakdown torque	: 350 %	Temperature rise		: 80 K		
Rated speed	: 1760 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

01/06/2022

Date

