DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEMA Premium Efficiency Th Phase			Γhree-	Product code : Catalog # :	15459789 00218ST3HIER145TC-W2
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		: 4 : 60 Hz : 575 V : 2.21 A : 18.3 A : 8.3x(0 : 1.30 A : 1750 I : 2.78 % : 6.00 ff : 270 % : 320 % : F : 1.25	(1.5 kW) A A Code L) A rpm 6 t.llb		Tempe Duty of Ambie Altitud Protec Coolir Mount Rotati Noise Startir	ent temperature de ction degree ng method ting on ¹	: 23s (cold) 13s (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 : 59.7 lb
Output 25 Efficiency (%) 85 Power Factor 0.3	.2 8	60% 85.5 0.57	75% 86.5 0.70	100% 86.5 0.79	Max. tra	tion loads action mpression	: 137 lb : 197 lb
Bearing type : 6205 C3 Sealing : Inpro/Seal Lubrication interval : 20000 h Lubricant amount : 4 g		bil Polyre	Non drive end 6204 C3 Inpro/Seal 20000 h 4 g	. 137 10			

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

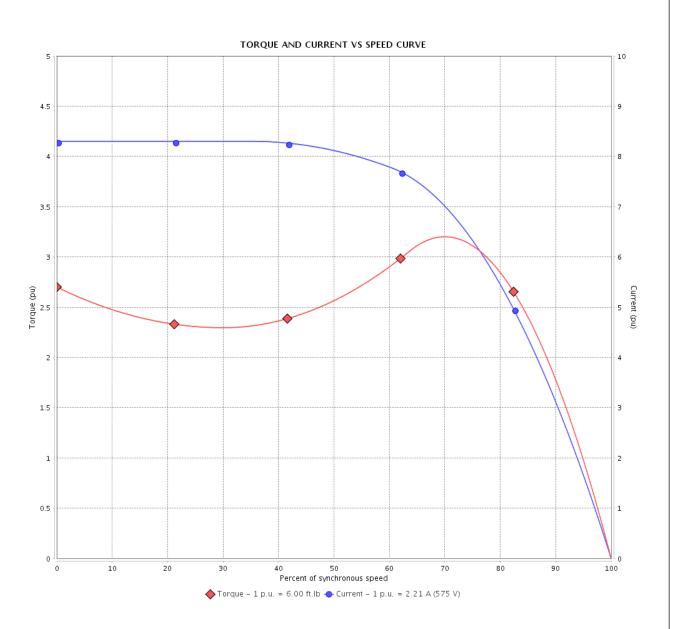


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 15459789

Phase

Catalog #: 00218ST3HIER145TC-W2



Performance : 575 V 60 Hz 4P Rated current : 2.21 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



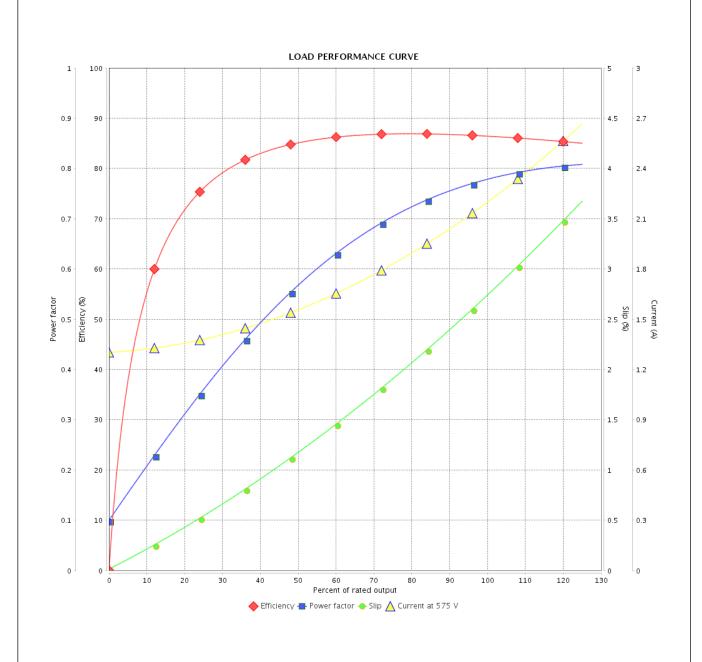
Customer

Product line : NEMA Premium Efficiency Three- Product code : 15459789

Phase

Catalog #: 00218ST3HIER145TC-W2

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.21 A : 8.3 : 6.00 ft.lb : 270 % : 320 % : 1750 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1561 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



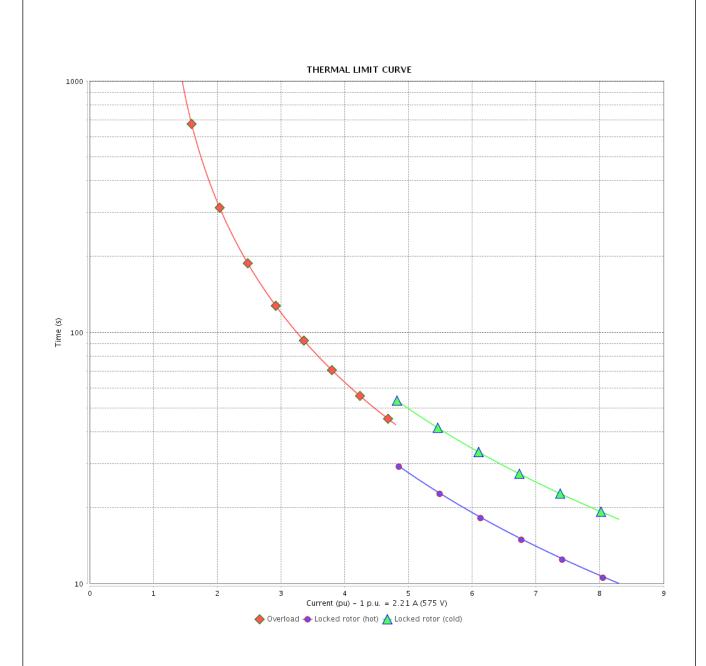
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	15459789 00218ST3HII	ER145TC-W2
Performance		: 575 V 60 Hz 4P				
Rated current LRC		: 2.21 A : 8.3	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 6.00 ft.lb : 270 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu		: 320 %	Temperat		: 80 K	
Rated speed		: 1750 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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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 :

Date

01/06/2022

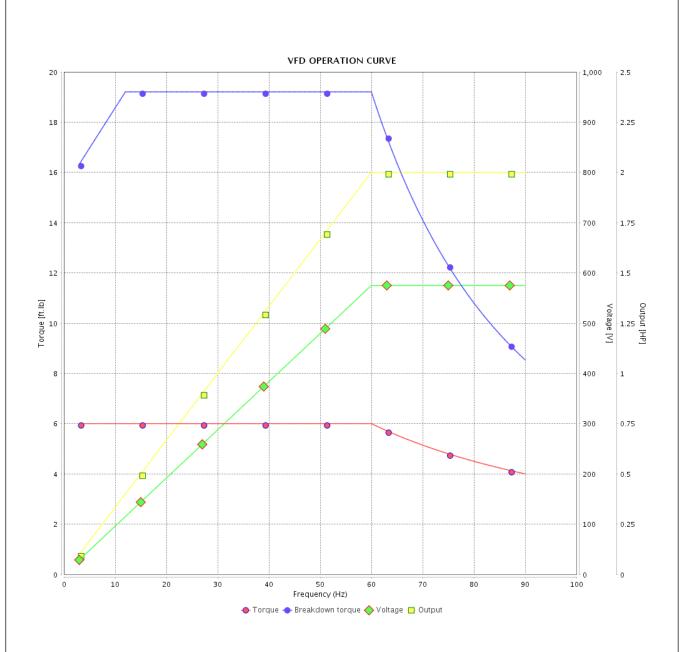
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 15459789

Catalog #: 00218ST3HIER145TC-W2

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Performance : 575 V 60 Hz 4P Rated current : 2.21 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : 6.00 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

