DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEMA P Phase	remium Efficiency	Three-	Product code : Catalog # :	11594953 00158ST3HIE145TC-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		: 143/5TC : 1.5 HP (124 : 60 Hz : 575 V : 1.62 A : 13.6 A : 8.4x(Coo : 0.880 A : 1755 rpn : 2.50 % : 4.49 ft.lb : 290 % : 350 % : F : 1.25 : 0.1431 s : B	1.1 kW) le L)	Temp Duty Ambie Altitude Prote Coolie Moun Rotat Noise Starti	ent temperature de ction degree ng method ting	: 25s (cold) 14s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 51.0 dB(A) : Direct On Line : 59.2 lb
Output 50° Efficiency (%) 82.		75% 85.5	100% 86.5	Founda Max. tra	ition loads	: 107 lb
Power Factor 0.6		0.70	0.79	į.	ompression	: 166 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type	:		Drive end 6205 C3 Inpro/Seal 20000 h 4 g	obil Polyre	Non drive end 6204 C3 Inpro/Seal 20000 h 4 g	

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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Checked by				Page	Revision
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

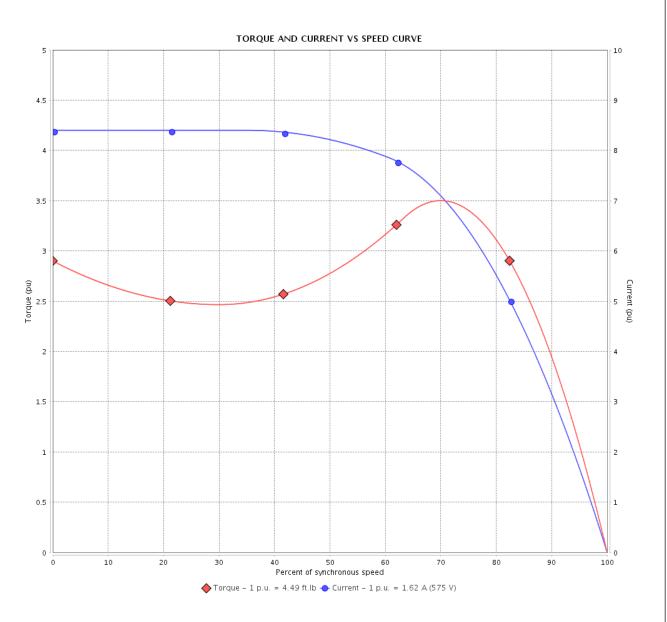


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11594953

Phase

Catalog #: 00158ST3HIE145TC-W22



Performance : 575 V 60 Hz 4P Rated current : 1.62 A Moment of inertia (J) : 0.1431 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 4.49 ft.lb Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



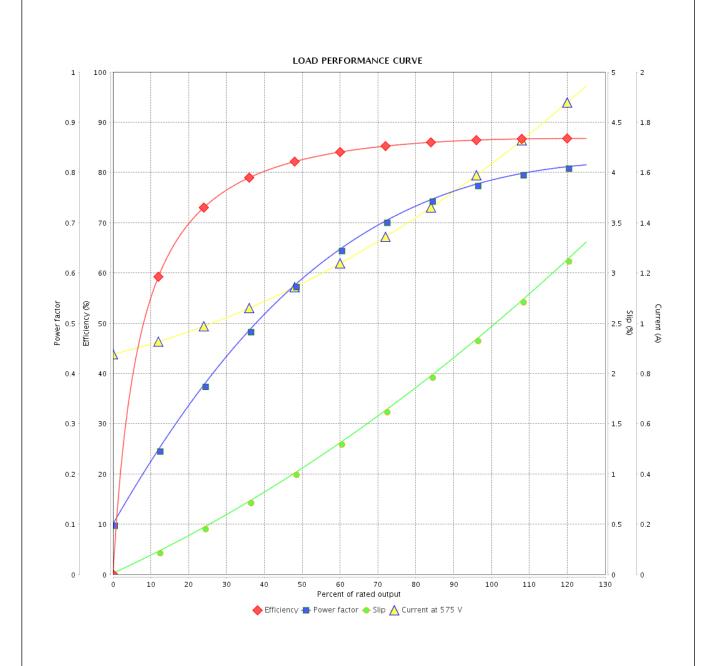
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11594953

Phase

Catalog #: 00158ST3HIE145TC-W22

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Performance	: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.62 A : 8.4 : 4.49 ft.lb : 290 % : 350 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1431 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
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Checked by				Page	Revision	

01/06/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



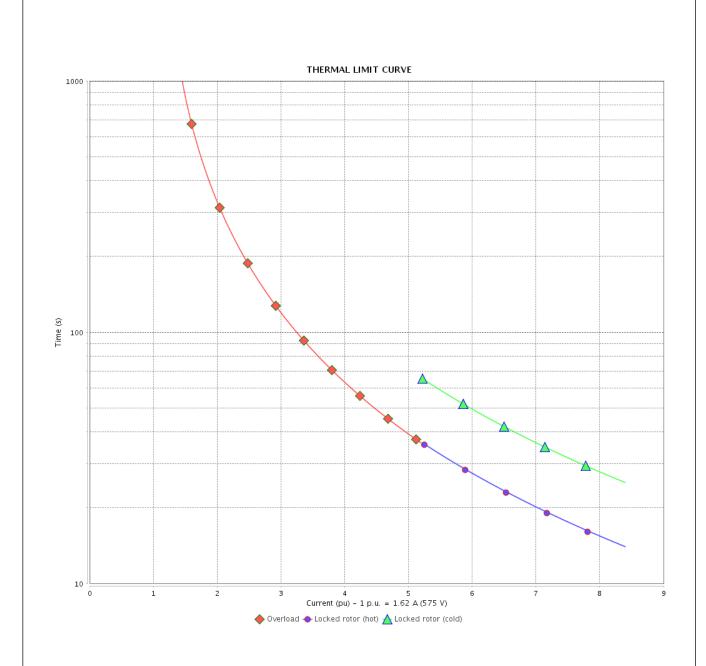
Customer		:				
Product line		: NEMA Premium Efficiency	Throc	Product code :	11594953	
Floduct iiile		Phase			11594955	
				Catalog # :	00158ST3HI	E145TC-W22
Performance		575 V 60 Hz 4P				
Rated current LRC	:	1.62 A 8.4	Moment of	of inertia (J)	: 0.1431 sq.ft. : Cont.(S1)	lb
Rated torque	:	4.49 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		290 % 350 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		1755 rpm	Design	uro 1130	: B	
Heating constant	t					
Cooling constant	<u> </u>					
Rev.		Changes Summary		Performed	Checked	Date
Performed by				1	Dave	Dovinis -
Checked by Date	01/06/2022				Page 4 / 6	Revision

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

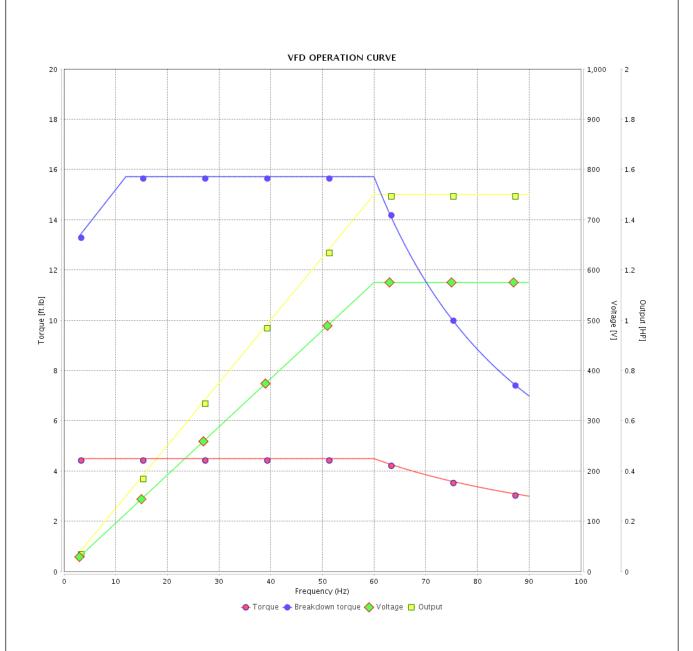
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11594953

Catalog #: 00158ST3HIE145TC-W22

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Performance : 575 V 60 Hz 4P : 1.62 A Rated current Moment of inertia (J) : 0.1431 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.4 : 4.49 ft.lb Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

