DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11433389 Catalog #: 00218ST3HIE145T-W22 Frame : 143/5T Locked rotor time : 23s (cold) 13s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 2.21 A Protection degree : IP55 L. R. Amperes : 18.3 A Cooling method : IC411 - TEFC LRC : 8.3x(Code L) Mounting : F-1 No load current : 1.30 A Rotation¹ : Both (CW and CCW) Rated speed : 1750 rpm Noise level² : 51.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 6.00 ft.lb Approx. weight³ : 57.0 lb Locked rotor torque : 270 % Breakdown torque : 320 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1561 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads : 139 lb Efficiency (%) 85.2 85.5 86.5 86.5 Max. traction Power Factor 0.70 0.79 : 196 lb 0.32 0.57 Max. compression Drive end Non drive end Bearing type 6205 C3 6204 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 4 g 4 g Lubricant type Mobil Polyrex EM

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

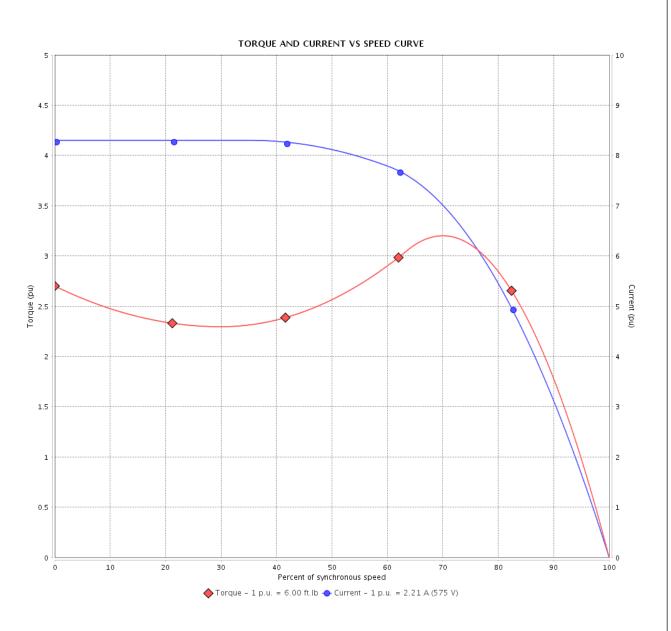
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11433389

Catalog #: 00218ST3HIE145T-W22



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) Insulation class Rated torque : 6.00 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1750 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



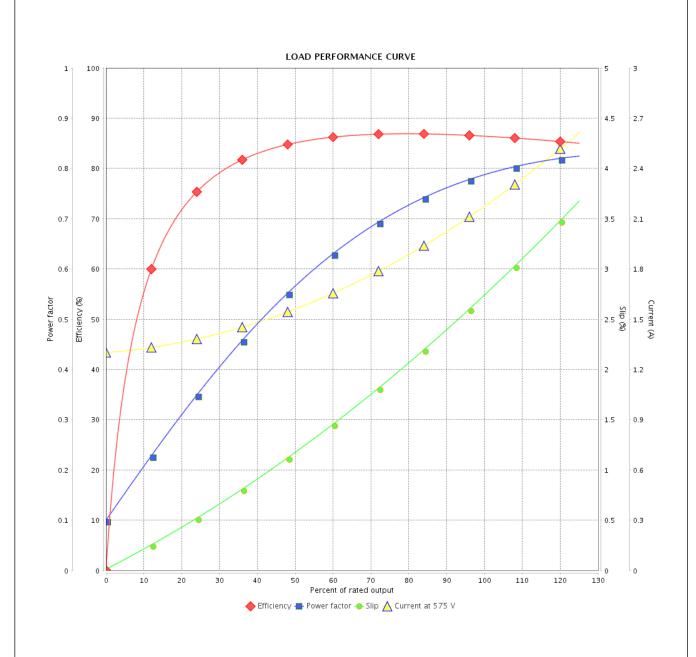
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11433389

Phase

Catalog #: 00218ST3HIE145T-W22

3/6



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 inert Duty cycle Insulation class Service factor Temperature ris Design	, ,	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.	Changes Summary	Pe	erformed	Checked	Date
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14/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



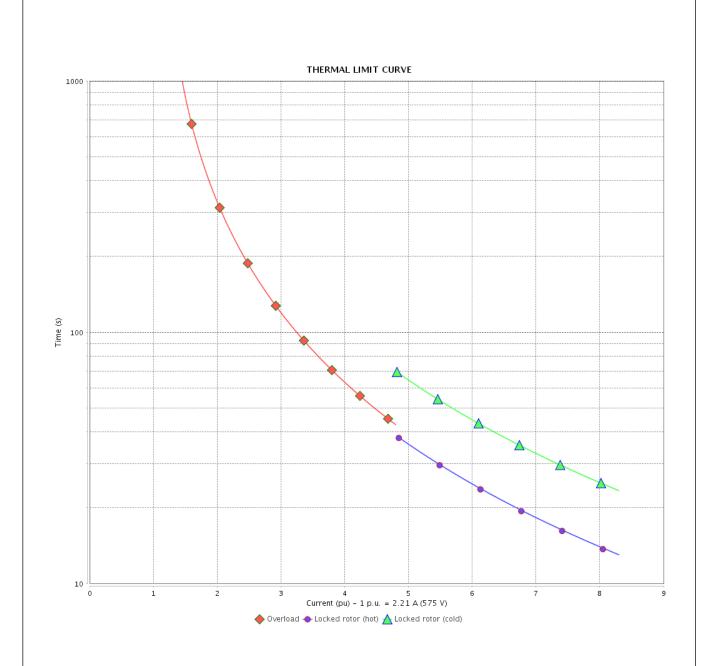
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Product line		: NEMA Premium Efficiency	Three-	Product code :	11433389		
1 Toddot IIIIc		Phase					
				Catalog # :	00218ST3HI	E145T-W22	
Performance	:	575 V 60 Hz 4P					
Rated current		2.21 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b	
LRC Rated torque		8.3 6.00 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor tord	que :	270 %	Service fa	ctor	: 1.25		
		: 320 % Tempera : 1750 rpm Design		ure rise	: 80 K : B		
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Heating constan Cooling constan							
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
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Date	14/04/2022				4/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
		I			
Performed by					
Checked by				Page	Revision
Date	14/04/2022	1		5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

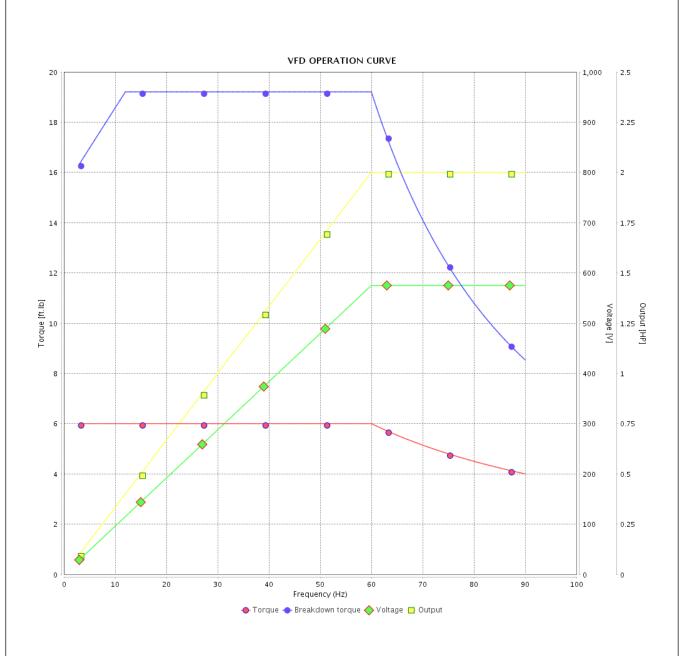


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11433389

00218ST3HIE145T-W22 Catalog #:



Performance	: 5	: 575 V 60 Hz 4P						
Rated current	: 2.	2.21 A Moment of inertia		of inertia (J)	: 0.1561 sq.ft.	.1561 sq.ft.lb		
LRC	: 8.	3	Duty cycle		: Cont.(S1)			
Rated torque	: 6.	00 ft.lb	Insulation class		: F ` ´			
Locked rotor torqu	ue : 2	70 %	Service fa	Service factor		: 1.25		
Breakdown torque	e : 32	20 %	Temperature rise		: 80 K			
Rated speed	: 1	: 1750 rpm			: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	14/04/2022	1			6/6			

