DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14232997 Catalog #: 00218XT3H145TC Frame : 143/5TC Locked rotor time : 19s (cold) 11s (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 : 2.23 A Protection degree : IP55 L. R. Amperes : 19.9 A Cooling method : IC411 - TEFC LRC : 8.9x(Code L) Mounting : F-1 No load current : 1.28 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 : 74.8 lb Locked rotor torque : 270 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1595 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 86.5 : 130 lb Efficiency (%) 82.9 84.0 Max. traction : 204 lb Power Factor 0.56 0.78 0.32 0.70 Max. compression Drive end Non drive end 6204 2RS Bearing type 6205 2RS Sealing Oil Seal Lip Seal Lubrication interval Lubricant amount 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			1/7	

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Customer	
Customer	

Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/7	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



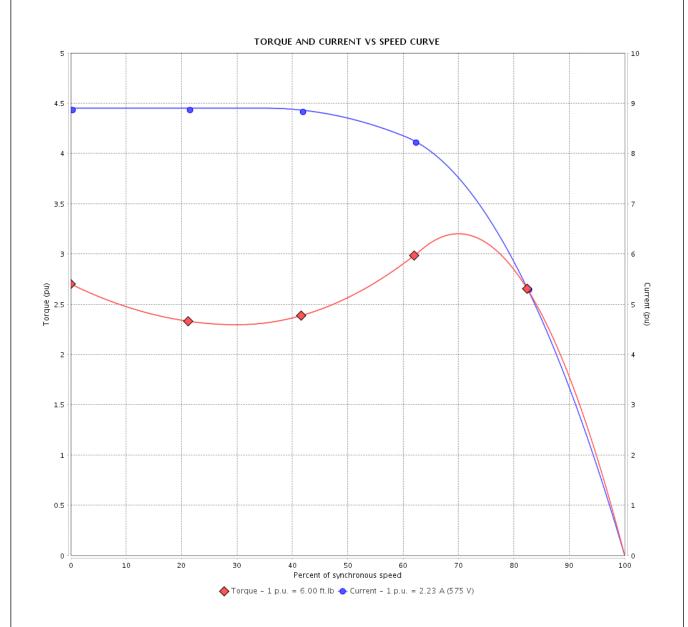
00218XT3H145TC

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14232997

Phase

Catalog #:



Performance	: 575 V 60 Hz 4P		
Rated current	: 2.23 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 ft.lb	Insulation class	:F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B
Locked rotor time	: 19s (cold) 11s (hot)		

Locked rotor time : 19s (cold) 11s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3/7	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

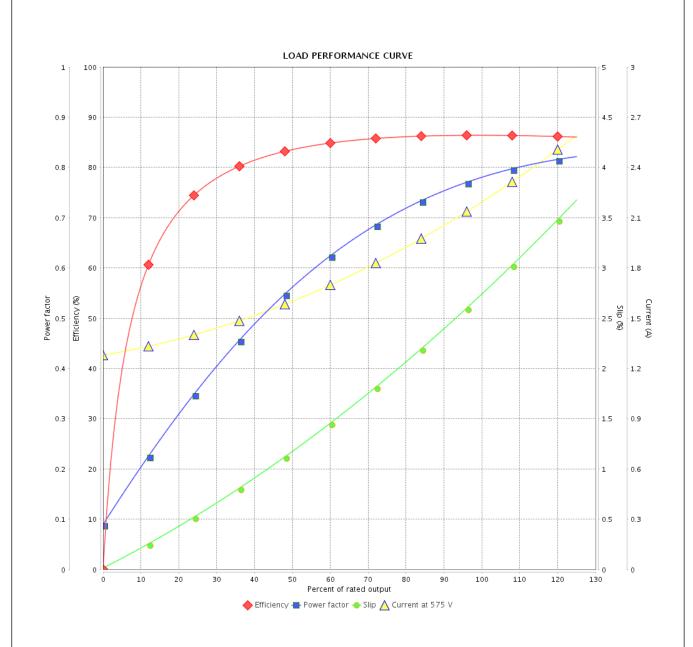


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14232997

Phase

Catalog #: 00218XT3H145TC



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.23 A : 8.9 : 6.00 ft.lb : 270 % : 320 % : 1750 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.1595 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

4/7

14/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



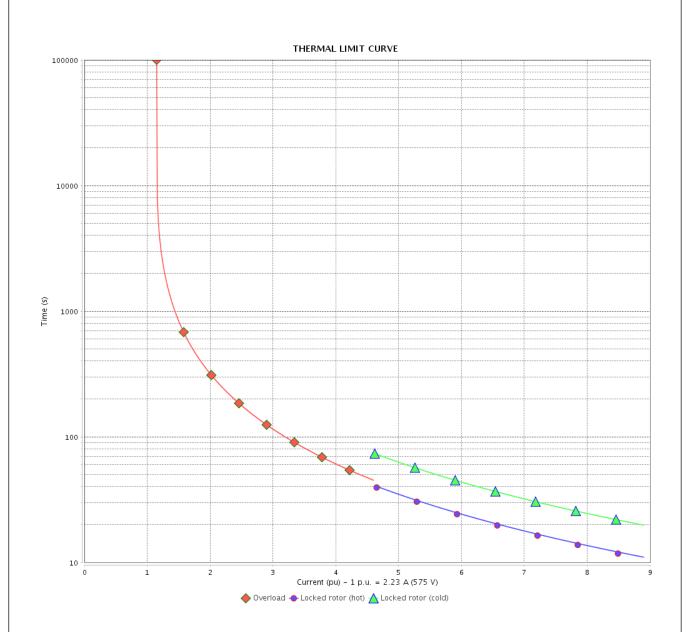
	:					
Product line	:	NEMA Premium Efficiency T	hree- Pro	duct code :	14232997	
		hase		alog # :	00218XT3H1	I45TC
Performance Rated current -RC Rated torque	: 2 : 8 : 6	.9 .00 ft.lb	Moment of ine Duty cycle Insulation clas	SS	: 0.1595 sq.ft.l : Cont.(S1) : F	b
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed	: 2 : 8 : 6 que : 2 ue : 3 : 1	.23 A .9 .00 ft.lb 70 % 20 %	Duty cycle	SS ·	: Cont.(S1)	b
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 2 : 8 : 6 que : 2 ue : 3 : 1	.23 A .9 .00 ft.lb 70 % 20 %	Duty cycle Insulation class Service factor Temperature	SS ·	: Cont.(S1) : F : 1.15 : 80 K	b
Rated current .RC Rated torque .ocked rotor tord Breakdown tord	: 2 : 8 : 6 que : 2 ue : 3 : 1	.23 A .9 .00 ft.lb 70 % 20 %	Duty cycle Insulation clas Service factor Temperature Design	SS ·	: Cont.(S1) : F : 1.15 : 80 K	b
Rated current RC Rated torque ocked rotor torg Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 2 : 8 : 6 que : 2 ue : 3 : 1	.23 A .9 .00 ft.lb 70 % 20 % 750 rpm	Duty cycle Insulation clas Service factor Temperature Design	ss rise	: Cont.(S1) : F : 1.15 : 80 K : B	
Rated current RC Rated torque ocked rotor torque treakdown torque Rated speed Heating constant Cooling constant	: 2 : 8 : 6 que : 2 ue : 3 : 1	.23 A .9 .00 ft.lb 70 % 20 % 750 rpm	Duty cycle Insulation clas Service factor Temperature Design	ss rise	: Cont.(S1) : F : 1.15 : 80 K : B	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	14/04/2022			6/7	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

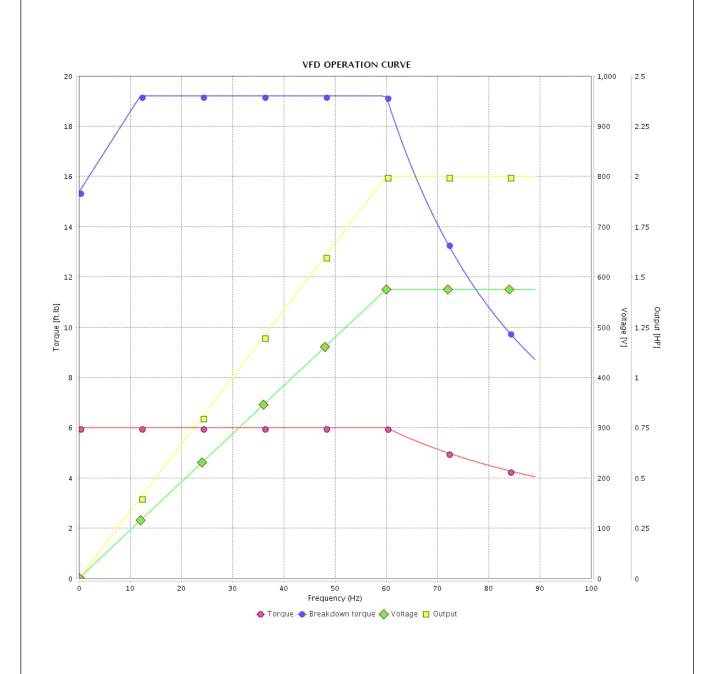


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14232997

Phase

Catalog #: 00218XT3H145TC



Performance		575 V 60 Hz 4P				
Rated current		2.23 A	Moment	f inartia (I)	· 0 1505 og ft	lh
	-		ı	f inertia (J)	: 0.1595 sq.ft.lb	
LRC	-	8.9	Duty cycle		: Cont.(S1)	
Rated torque	:	6.00 ft.lb	Insulation	Insulation class : F Service factor : 1.15		
Locked rotor torque	e :	270 %	Service fa			
Breakdown torque	:	320 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1750 rpm		Design	Design		
Rev.	,	Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	14/04/2022				7/7	

