### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11341754

Phase

Catalog #: 05012XT3E365T

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 1076 lb

Protection degree		: IP55 Moment of inertia (J) : 29.4 sq.ft.lb		sq.ft.lb	
Design		: B			
Output [HP]		50 50		50	50
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		116/58.1	71.3	67.2	65.1
L. R. Amperes [A]		860/430	414	430	449
LRC [A]		7.4x(Code H)	5.8x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]	]	48.0/24.0	24.0	25.0	26.0
Rated speed [RPM	1]	1185	975	980	980
Slip [%]		1.25	2.50	2.50 2.00	
Rated torque [ft.lb]		222	269	268	268
Locked rotor torqu	Locked rotor torque [%]		200	220	240
Breakdown torque	[%]	280	210	240	260
Service factor		1.15	1.00		
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>		65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%	93.5	92.8	93.4	92.2
Efficiency (%)	50%	93.6	92.4	93.0	92.4
Efficiency (70)	75%	94.1	92.4	93.0	93.0
100%		94.1	91.7	92.4	93.0
	25%	0.44	0.50	0.46	0.45
Power Factor	50%	0.71	0.76	0.73	0.71
1 OWEL FACIOI	75%	0.81	0.83	0.81	0.80
	100%	0.85	0.86	0.86	0.85

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6314 C3 Max. traction : 1850 lb Sealing : Oil Seal Lip Seal Max. compression : 2925 lb

Lubrication interval : 14267 h 14267 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 128A SF 1.00 SFA 128A

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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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

#### Thermal protection

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

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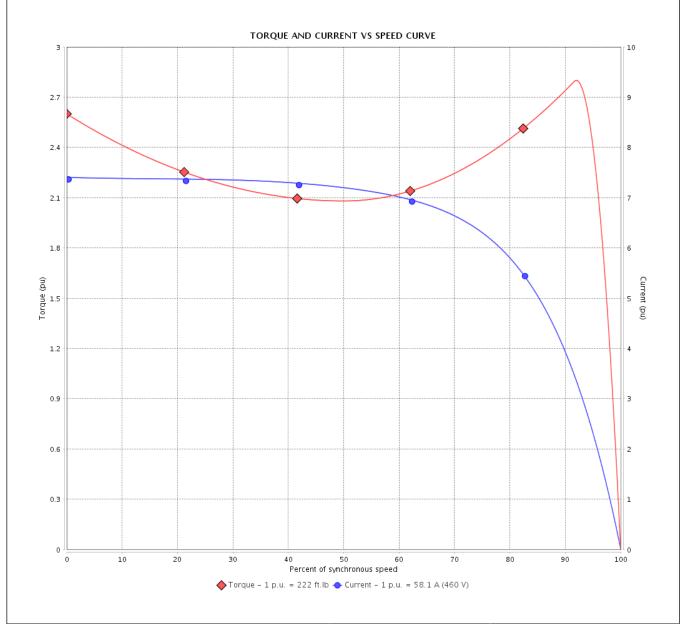


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11341754

hase

Catalog #: 05012XT3E365T



Performance	: 230/460 V 60 Hz 6P			
Rated current	: 116/58.1 A	Moment of inertia (J)	: 29.4 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 222 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Looked roter time	: 36s (cold) 20s (bot)			

Locked rotor time : 36s (cold) 20s (hot)

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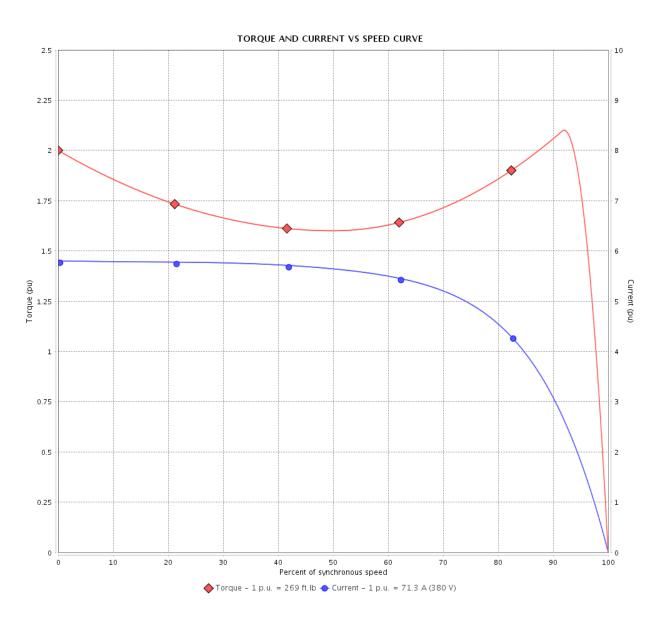
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 71.3 A	Moment of inertia (J)	: 29.4 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 269 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11341754 Catalog #: 05012XT3E365T TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 268 ft.lb ◆ Current - 1 p.u. = 67.2 A (400 V) : 400 V 50 Hz 6P IE2 Performance Rated current : 67.2 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Rated torque : 268 ft.lb Insulation class : F Locked rotor torque : 220 % Service factor : 1.00 : 80 K Breakdown torque : 240 % Temperature rise Rated speed : 980 rpm : B Design

Locked rotor time	e : 27	7s (cold) 15s (hot)				
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#### Three Phase Induction Motor - Squirrel Cage



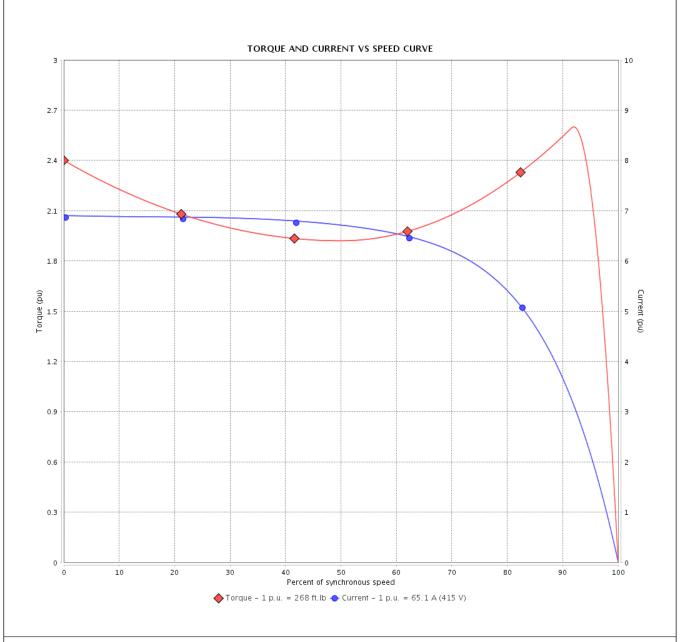
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance : 415 V 50 Hz 6P IE2 Rated current : 65.1 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 268 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 : 260 % Breakdown torque Temperature rise : 80 K Rated speed : 980 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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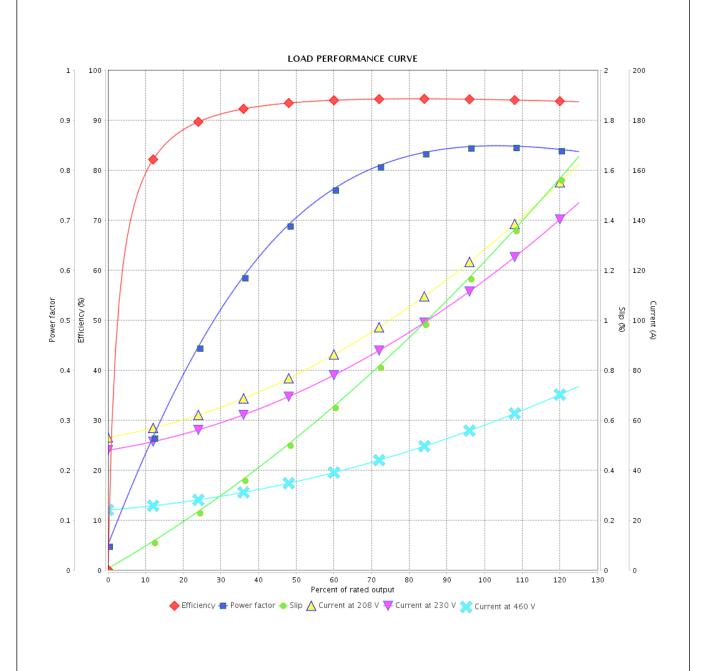


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11341754

Phase

Catalog #: 05012XT3E365T



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 1	16/58.1 A	Moment o	Moment of inertia (J)		
LRC	: 7	'.4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	22 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	.60 %	Service fa	ctor	: 1.15	
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 1	185 rpm	Design		: B	
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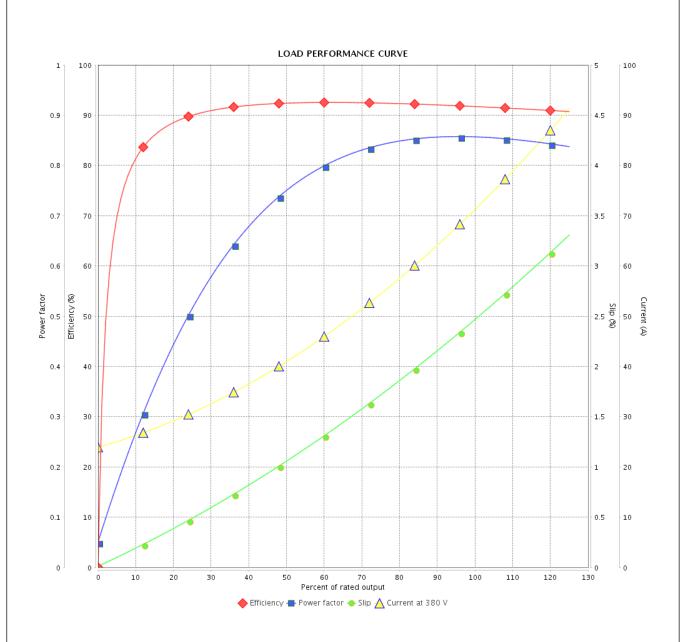
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance		: 380 V 50 Hz 6	P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 71.3 A : 5.8 : 269 ft.lb : 200 % : 210 % : 975 rpm	Du In: Se Te	oment or uty cycle sulation ervice fac emperatu esign	class ctor	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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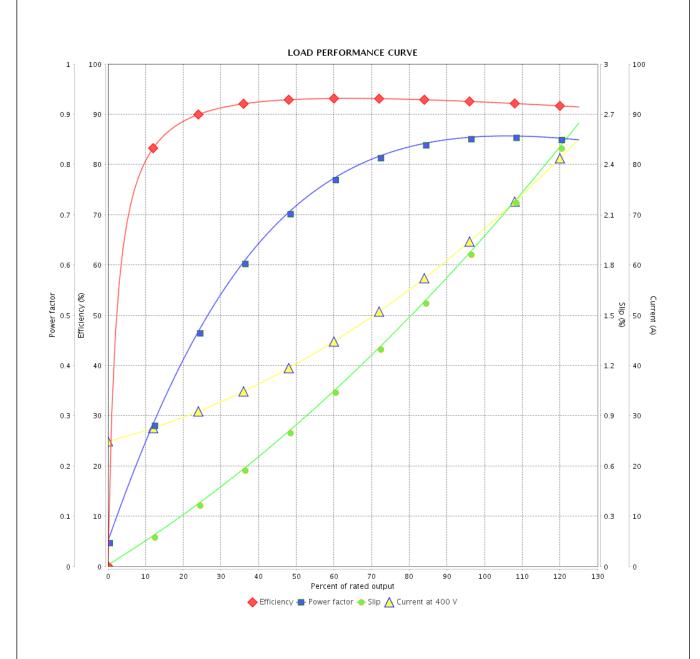


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11341754

Phase

Catalog #: 05012XT3E365T



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current	: 6	: 67.2 A Moment of		f inertia (J)	: 29.4 sq.ft.lb	
LRC	: 6	5.4	Duty cycle		: Cont.(S1)	
Rated torque	: 2	68 ft.lb	Insulation class		: F	
Locked rotor torque	e :2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	80 rpm	Design		: B	
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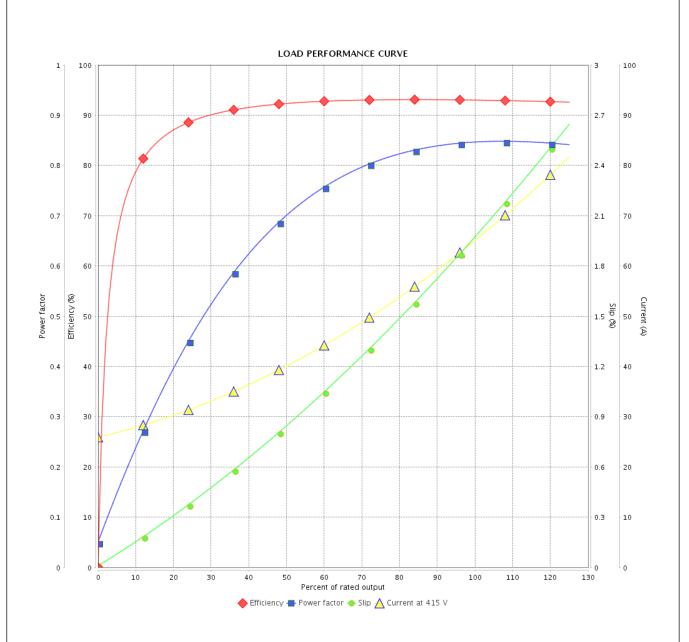
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance	: 415 V 50 Hz 6F	P IE2		
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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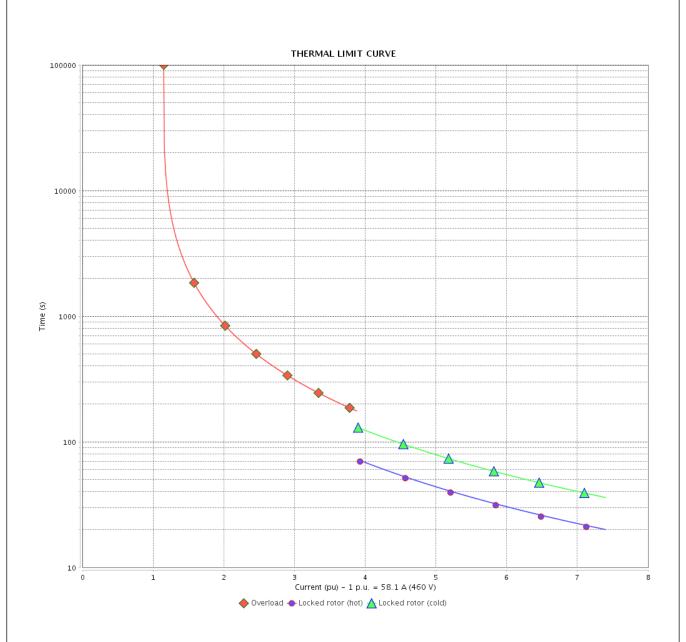


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	11341754	
Froduct line		Phase				
				Catalog # :	05012XT3E3	65T
Performance		230/460 V 60 Hz 6P		<b>6</b> : (1) (1)	00.4 6.11	
Rated current LRC		16/58.1 A '.4	Moment of Duty cycle	of inertia (J)	: 29.4 sq.ft.lb : Cont.(S1)	
Rated torque	: 2	222 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	260 % 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		185 rpm	Design	ure rise	: B	
Heating constan						
Cooling constant						
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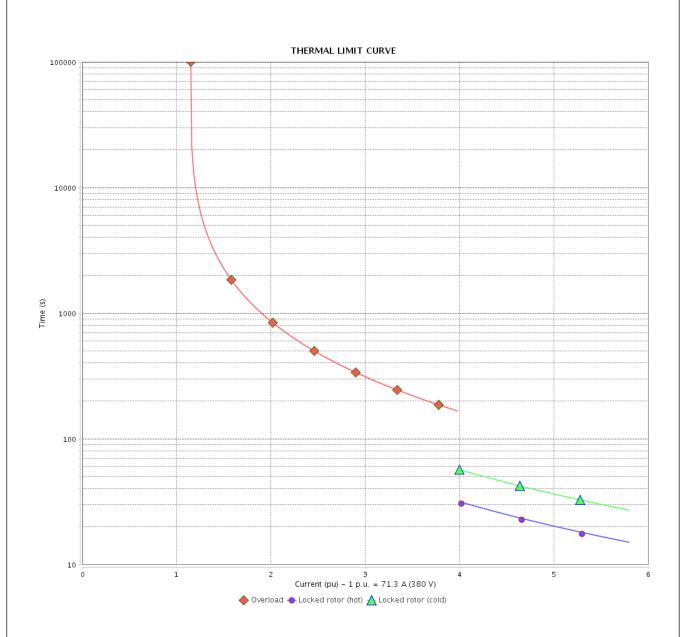


Customer	:					
Product line	:	NEMA Premium Efficiency <sup>-</sup>	Three-	Product code :	11341754	
		Phase				OGET.
				Catalog #:	05012XT3E3	865T
Performance Rated current RC Rated torque ocked rotor tord Breakdown torque Rated speed Heating constan	: 7 : 5 : 2 que : 2 ue : 2 : 9	80 V 50 Hz 6P IE1 1.3 A 8.8 69 ft.lb 900 % 110 % 75 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constan	t	Changes Summani		Dorformad	Charles	
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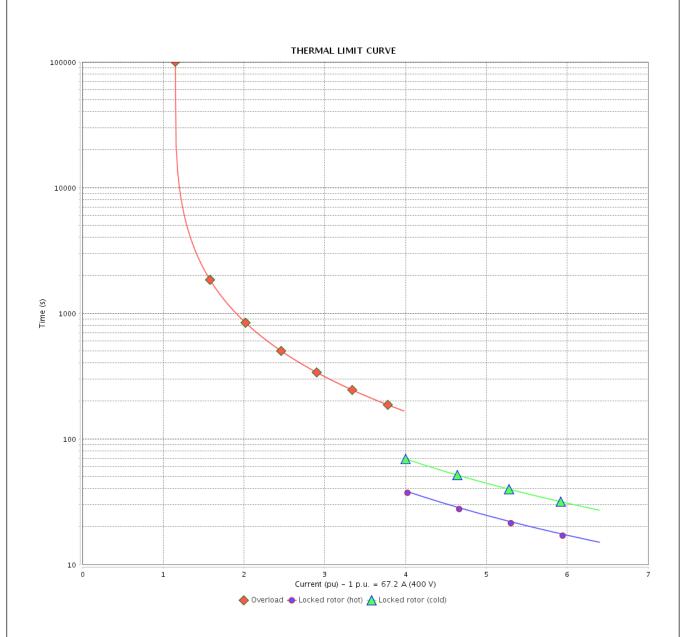


Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11341754	
T Toddot IIITo		hase				
				Catalog # :	05012XT3E3	65T
Performance	: 4	00 V 50 Hz 6P IE2				
Rated current		7.2 A	Moment o	of inertia (J)	: 29.4 sq.ft.lb	
₋RC Rated torque	: 6. : 20	.4 68 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
ocked rotor tor		20 %	Service fa		: 1.00	
Breakdown torqı Rated speed		40 % 80 rpm	Temperat Design	ure rise	: 80 K : B	
	<u> </u>					
Cooling constant						
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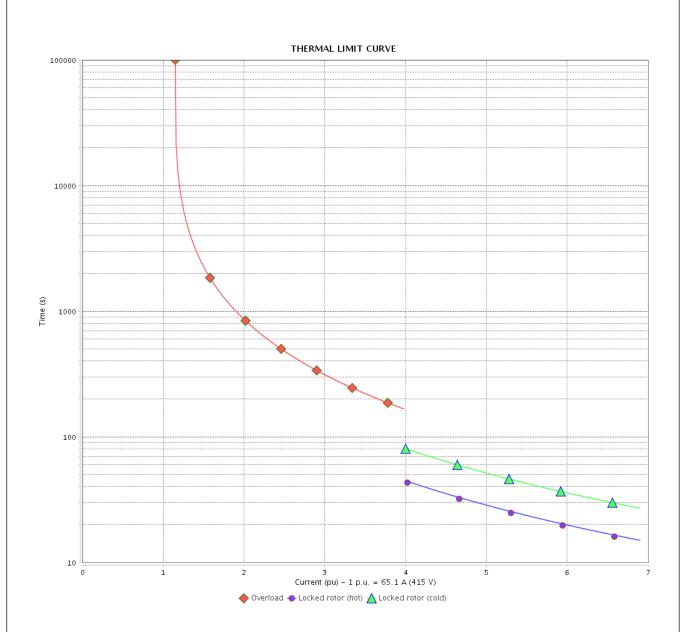


Product line : NEMA Premium Efficiency Three-Product code : 11341754	Customer	:					
Phase Catalog #: 05012XT3E365T  Catalog #: 05012XT3E365T  Performance :415 V 50 Hz 6P IE2  Rated current :65.1 A Moment of inertia (J) :29.4 sq ft.lib  RC :6.9 Duty cycle :Cont.(S1)  Rated torque :286 ft.lb Insulation class :F	Product line	:	NEMA Premium Efficiency	Three-	Product code :	11341754	
Performance : 415 V 50 Hz 6P IE2  Rated current : 65.1 A							O.F.T.
Rated current : 65.1 A Moment of inertia (J) : 29.4 sq.ft.lb  LRC : 6.9 Duty cycle : Cont.(S1)  Rated torque : 268 ft.lb Insulation class : F		P	nase		Catalog # :	05012XT3E3	65T
	Rated current _RC	: 6 : 6 : 2 que : 2 ue : 2 : 9	5.1 A .9	Duty cycle	e ı class actor	: Cont.(S1)	
Rev. Changes Summary Performed Checked Date	Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 6 : 6 : 2 que : 2 ue : 2 : 9	5.1 A .9 68 ft.lb 40 % 60 % 80 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
	Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 6 : 6 : 2 que : 2 ue : 2 : 9	5.1 A .9 68 ft.lb 40 % 60 % 80 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rev. Changes Summary Performed Checked Date	Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 6 : 6 : 2 que : 2 ue : 2 : 9	5.1 A .9 68 ft.lb 40 % 60 % 80 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
	Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Rev. Performed by	: 6 : 6 : 2 que : 2 ue : 2 : 9	5.1 A .9 68 ft.lb 40 % 60 % 80 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	

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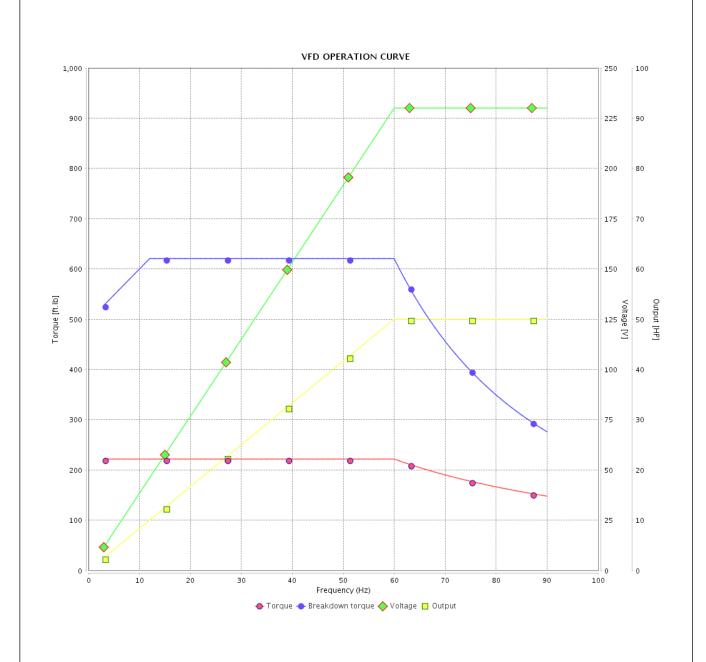


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11341754

Phase

Catalog #: 05012XT3E365T



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 116/58.1 A : 7.4 : 222 ft.lb : 260 % : 280 % : 1185 rpm	Moment of inertia ( Duty cycle Insulation class Service factor Temperature rise Design	J)	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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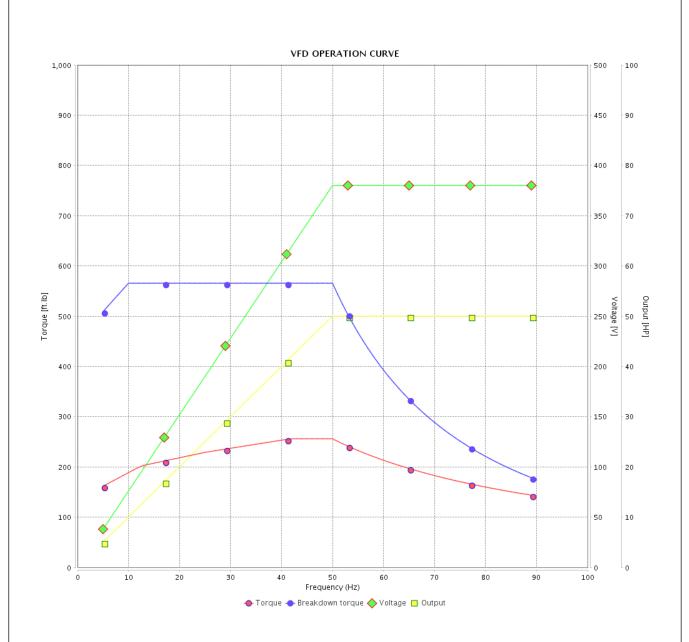
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance : 380 V 50 Hz 6P IE1 : 71.3 A Rated current Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 269 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 975 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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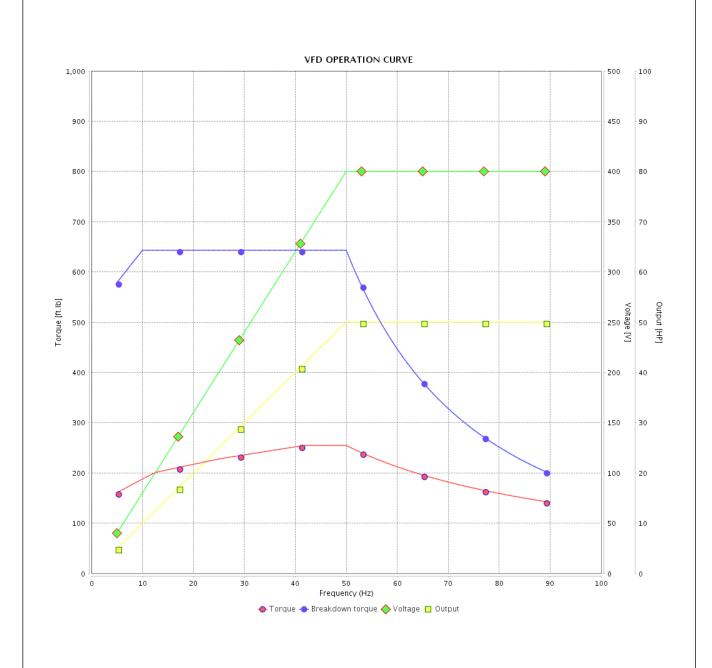
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11341754

Catalog #: 05012XT3E365T



Performance	: 4	: 400 V 50 Hz 6P IE2							
Rated current	: 6	: 67.2 A Moment		f inertia (J)	: 29.4 sq.ft.lb				
LRC	: 6	6.4 Duty cycle		<del>)</del>	: Cont.(S1)				
Rated torque	: 2	68 ft.lb Insulation class		: F					
Locked rotor torq	μe : 2	20 %	Service factor		: 1.00				
Breakdown torqu	ie : 2	40 %	Temperature rise		: 80 K				
Rated speed	: 9	: 980 rpm		Design					
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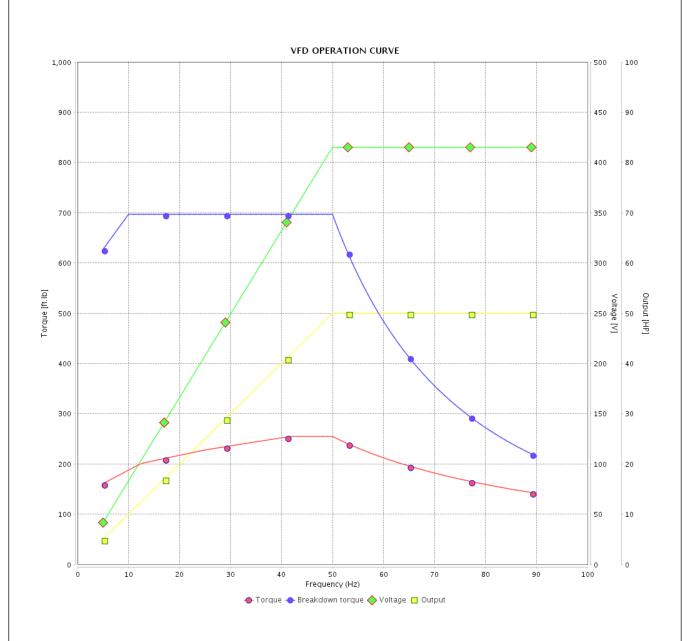
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11341754

Catalog #: 05012XT3E365T



Performance	: 415 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65.1 A : 6.9 : 268 ft.lb : 240 % : 260 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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