DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12438231

Catalog #: 00156ET3E143T-W22

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight3 : 44.4 lb

Ailitude		. 1000 III.a.	J.I.	Approx	t. weigitt	. 7	טו ד.ד	
Protection degre	е	: IP55		Momei	nt of inertia (J)) : 0	.0470 sq.ft.lb	
Design		: B						
Output [HP]		1.5	1	1	1	1.5	1.5	1.5
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		3.92/1.96	1.69	1.66	1.65	2.36	2.24	2.21
L. R. Amperes [A]		34.9/17.4	15.5	16.1	16.8	15.8	16.6	17.5
LRC [A]		8.9x(Code L)	9.2x(Code	9.7x(Code	10.2x(Code	6.7x(Code H)	7.4x(Code J)	7.9x(Code K)
			M)	M)	N)			
No load current [A	.]	1.66/0.830	0.780	0.840	0.900	0.780	0.840	0.900
Rated speed [RPN	Л]	3480	2905	2915	2920	2835	2860	2870
Slip [%]		3.33	3.17	2.83	2.67	5.50	4.67	4.33
Rated torque [ft.lb]]	2.26	1.81	1.80	1.80	2.78	2.75	2.74
Locked rotor torqu	ie [%]	310	340	380	420	220	260	280
Breakdown torque	: [%]	370	390	440	480	260	290	310
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		37s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		21s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		68.0 dB(A)						
	25%							
Efficiency (%)	50%	81.5	80.5	79.3	78.9	81.0	82.0	82.0
Lilloleticy (70)	75%	84.0	83.2	82.8	82.7	81.5	82.5	82.5
	100%	84.0	83.4	83.4	83.4	81.5	82.5	82.5

0.78 0.84 0.81 0.76 Non drive end Drive end Foundation loads

0.58

0.71

6205 ZZ Bearing type 6204 ZZ Max. traction : 52 lb Sealing V'Ring V'Ring Max. compression : 96 lb

0.63

0.74

Lubricant amount Mobil Polyrex EM

0.68

0.78

Lubricant type

Notes

Power Factor

Lubrication interval

USABLE @208V 4.20A SF 1.15 SFA 4.83A

25% 50%

75%

100%

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.

0.75

0.84

0.87

0.55

0.68

0.70

0.80

0.86

0.67

0.78

0.84

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Three Phase Induction Motor - Squirrel Cage



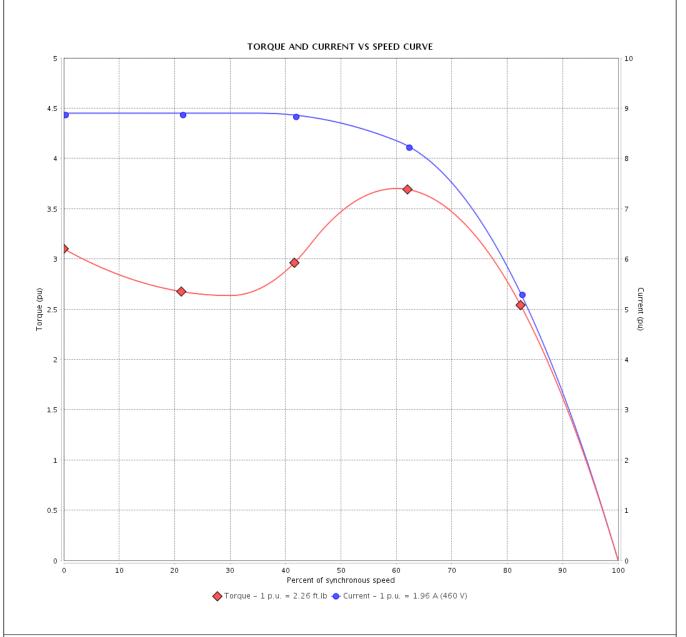
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 3.92/1.96 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.26 ft.lb Service factor Locked rotor torque : 310 % : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12438231 Catalog #: 00156ET3E143T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 1.81 ft.lb ◆ Current - 1 p.u. = 1.69 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 1.69 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.81 ft.lb Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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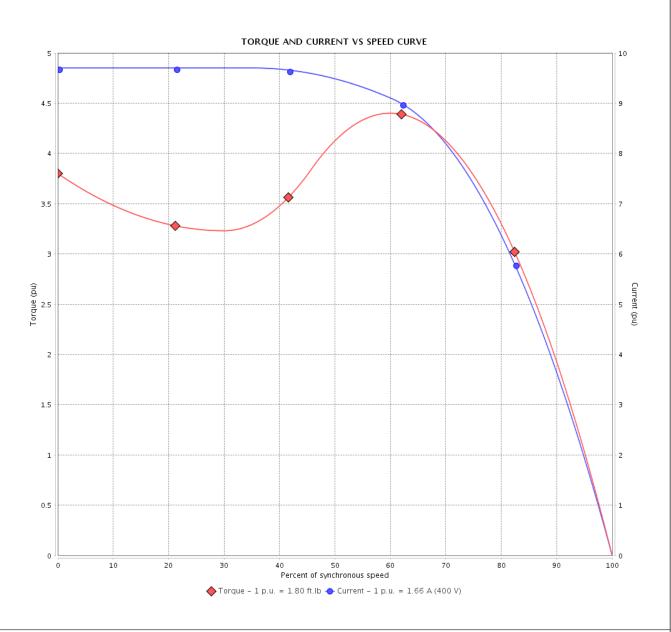


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 9.7 : 1.80 ft.lb : 380 % : 440 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 27s (cold) 15s (hot)			

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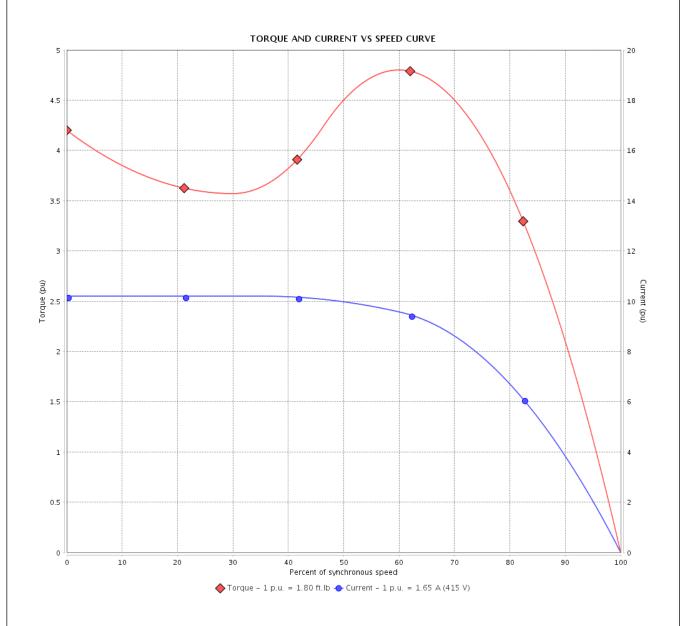


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12438231

Phase

Catalog #: 00156ET3E143T-W22



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 1.65 A	Moment of inertia (J)	: 0.0470 sq.ft.lb
LRC	: 10.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.80 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 420 %	Service factor	: 1.25
Breakdown torque	: 480 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (bot)		

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

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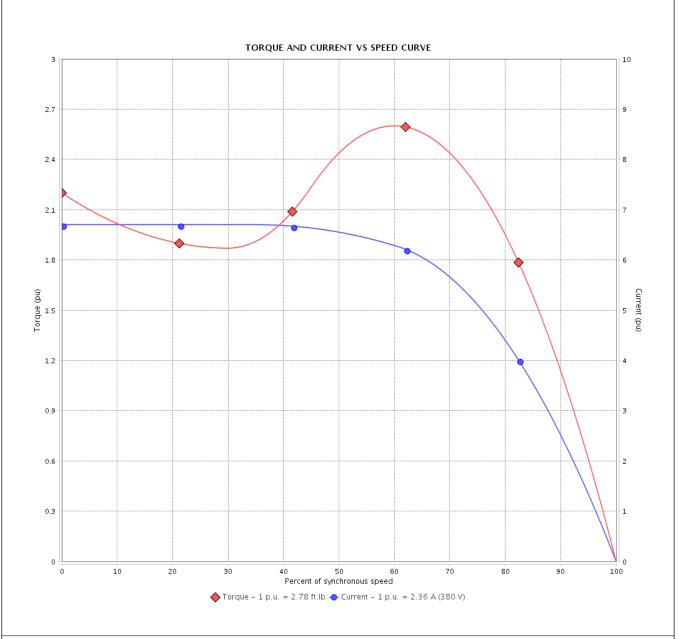
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 2.36 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.78 ft.lb Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2835 rpm Design : B

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

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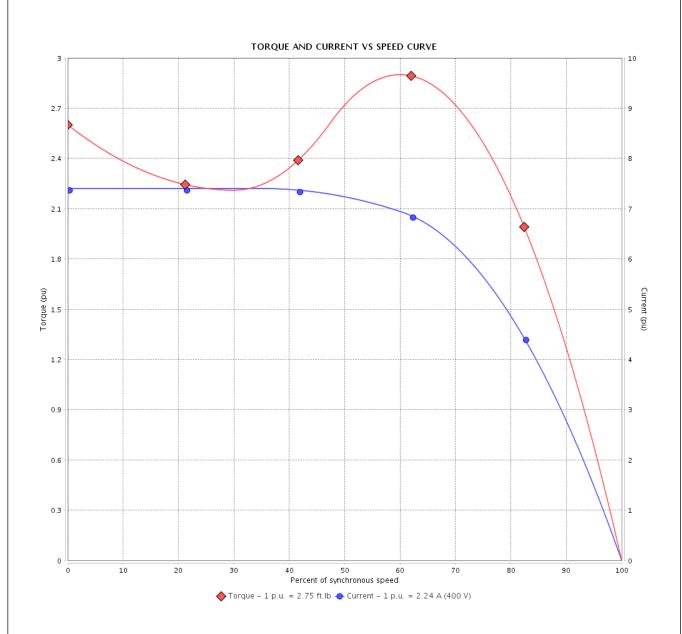
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12438231

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Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 2.24 A	Moment of inertia (J)	: 0.0470 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 2.75 ft.lb	Insulation class	:F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: B
Locked rotor time	· 27s (cold) 15s (hot)		

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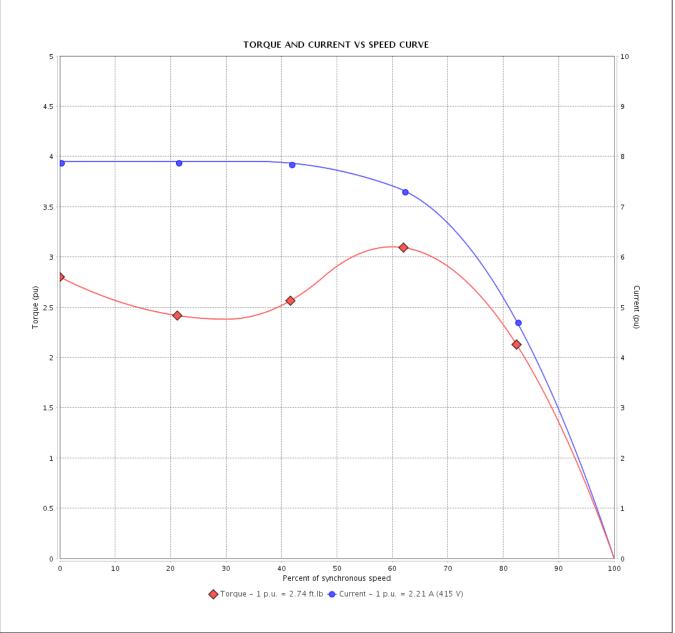
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00156ET3E143T-W22

12438231



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.21 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : F : 2.74 ft.lb Insulation class Rated torque : 280 % Service factor Locked rotor torque : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B

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

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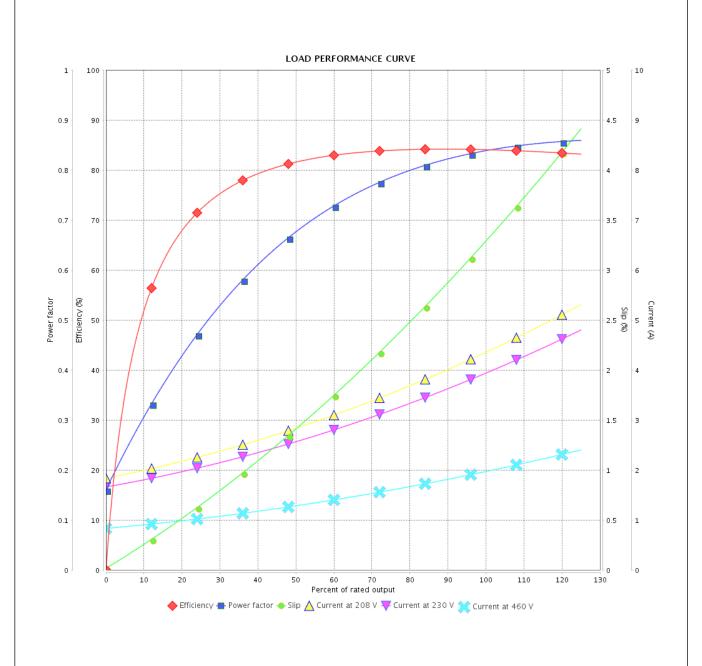


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12438231

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Catalog #: 00156ET3E143T-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	ated current : 3.92/1.96 A Moment of inertia (J)		f inertia (J)	: 0.0470 sq.ft.	lb	
LRC	:	8.9	Duty cycle	;	: Cont.(S1)	
Rated torque	:	2.26 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	310 %	Service fa	ctor	: 1.25	
Breakdown torque	:	370 %	Temperati	ıre rise	: 80 K	
Rated speed	:	3480 rpm	Design		: B	
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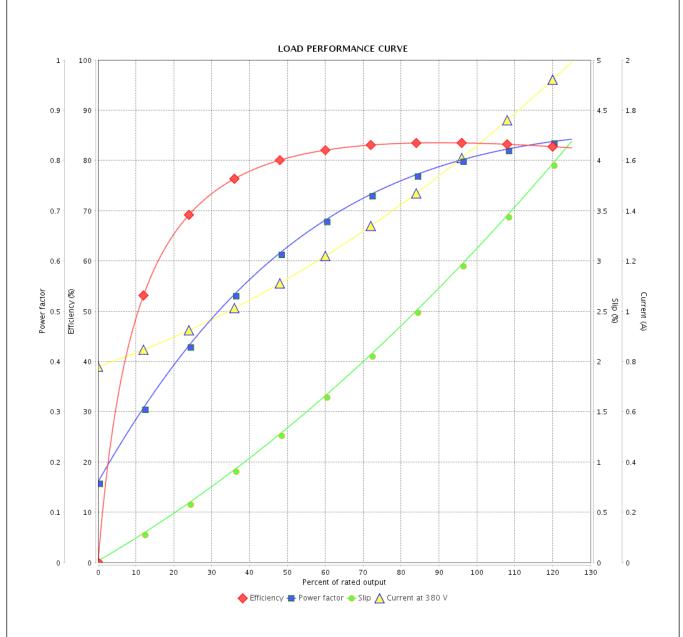
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 1.69 A	Moment of	of inertia (J)	: 0.0470 sq.ft.	.lb
LRC	: 9.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation class		: F	
Locked rotor torque	: 340 %	Service factor		: 1.25	
Breakdown torque	: 390 %	Temperature rise		: 80 K	
Rated speed	: 2905 rpm	Design		: B	
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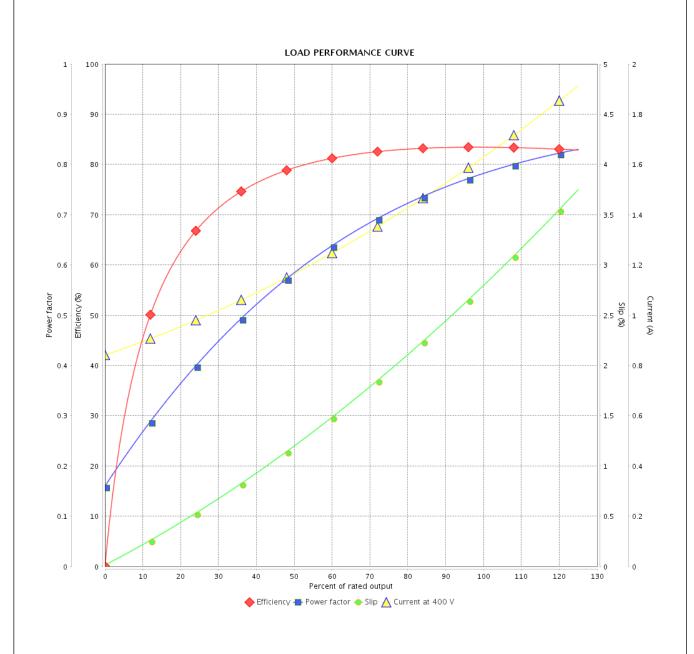
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 9.7 : 1.80 ft.lb : 380 % : 440 % : 2915 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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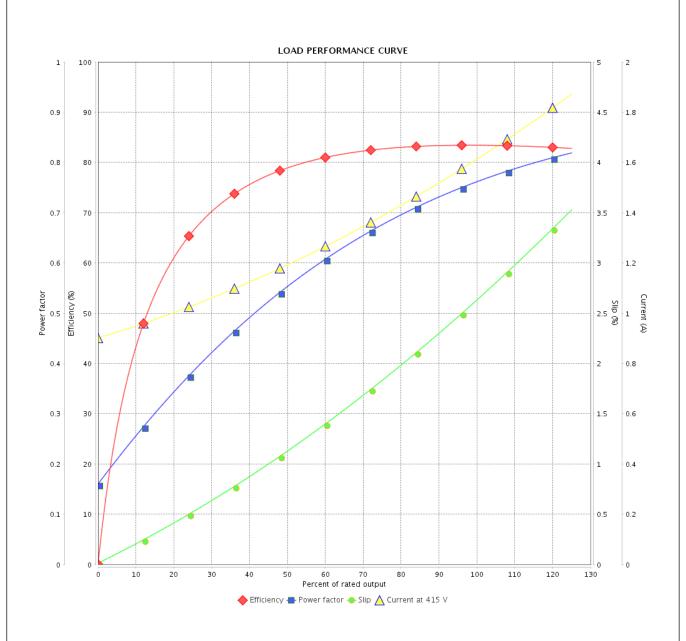
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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 1.65 A	Moment of	of inertia (J)	: 0.0470 sq.ft.	lb
LRC	: 10.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1.80 ft.lb	Insulation class		: F	
Locked rotor torque	: 420 %	Service factor		: 1.25	
Breakdown torque	: 480 %	Temperature rise		: 80 K	
Rated speed	: 2920 rpm	Design		: B	
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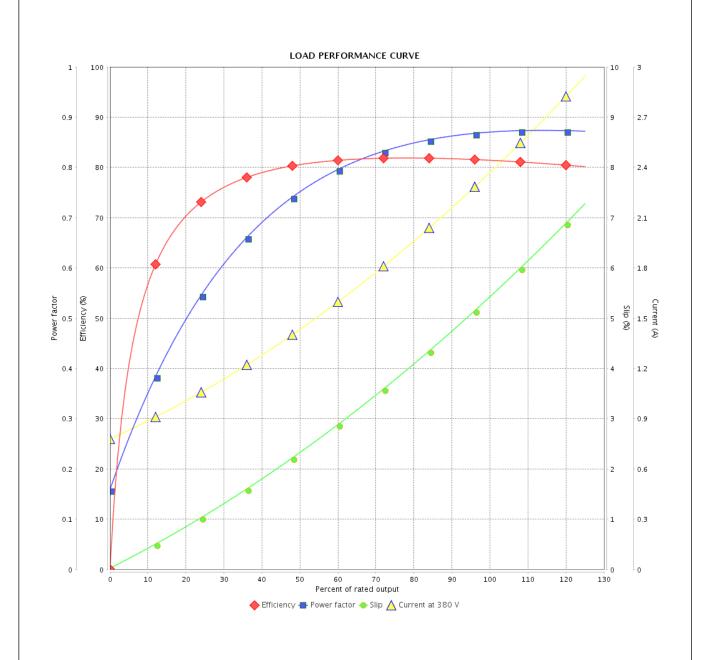
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Product line : NEMA Premium Efficiency Three- Product code : 12438231

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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.36 A : 6.7 : 2.78 ft.lb : 220 % : 260 %	Moment of Duty cycle Insulation of Service fact Temperature	class ctor	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
Rated speed Rev.	: 2835 rpm Changes Summary	Design	Performed	: B	Date
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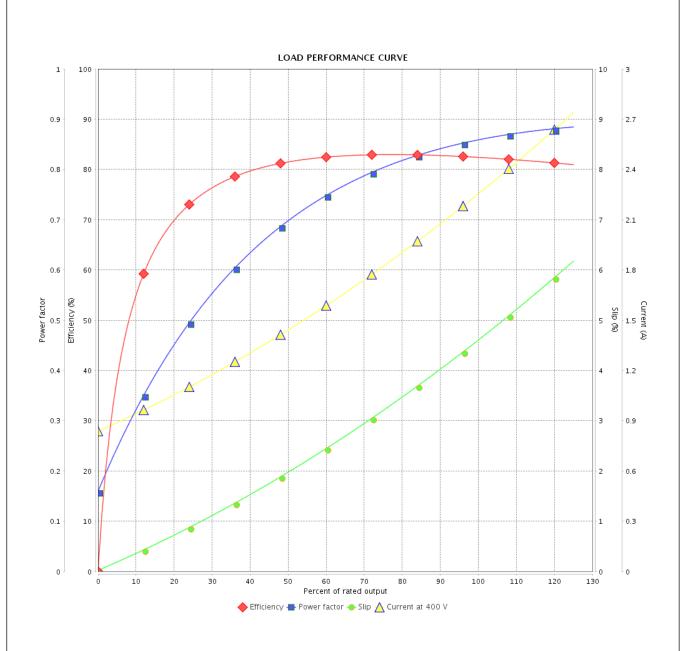
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Performance	: 40	00 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 2. ue : 26	.24 A .4 .75 ft.lb 60 % 90 % 860 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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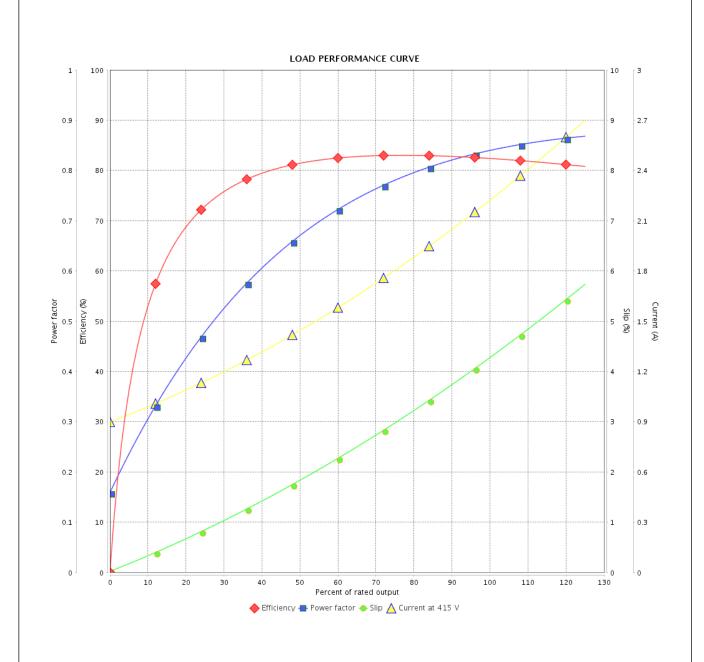
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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.21 A : 7.9 : 2.74 ft.lb : 280 % : 310 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0470 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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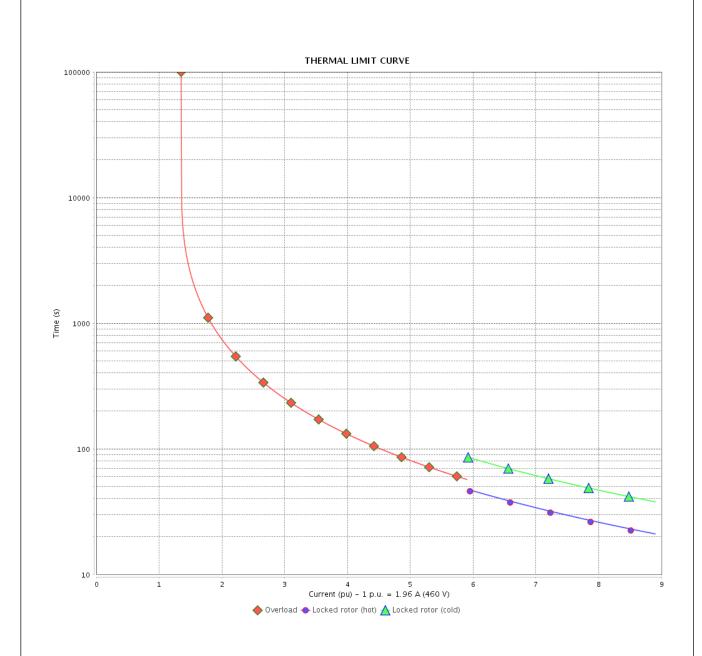


Customer		:				
Product line		: NEMA Premium Efficiency	Three	Product code :	12438231	
i roduct line		Phase			12430231	
				Catalog # :	00156ET3E1	43T-W22
Performance		: 230/460 V 60 Hz 2P				
Rated current		: 3.92/1.96 A	Moment o	of inertia (J)	: 0.0470 sq.ft.	b
LRC Rated torque		: 8.9 : 2.26 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	: 310 %	Service fa	ictor	: 1.25	
Breakdown torqu		: 370 % : 3480 rpm	Temperati	ure rise	: 80 K : B	
Rated speed		: 3480 rpm	Design		. D	
Heating constant						
Cooling constant		Change Comm		Dout	Ohl l	Dete
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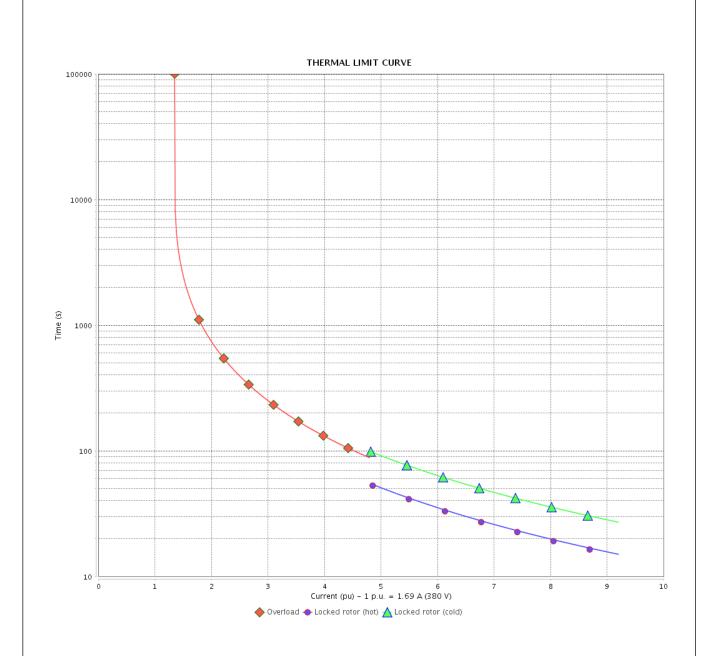


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Rated current : 1.69 A							
Rated current : 1.69 A							
LRC : 9.2 Duty cycle : Cont.(S1) Rated torque : 1.81 ft.lb Insulation class : F Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Heating constant Cooling constant	Performance						
Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Heating constant Cooling constant	LRC	: 9.	2	Duty cycle		: Cont.(S1)	
Rated speed : 2905 rpm Design : B Heating constant Cooling constant	Locked rotor torq	ue : 34	40 %	Service fac	ctor	: 1.25	
Cooling constant					ire rise		
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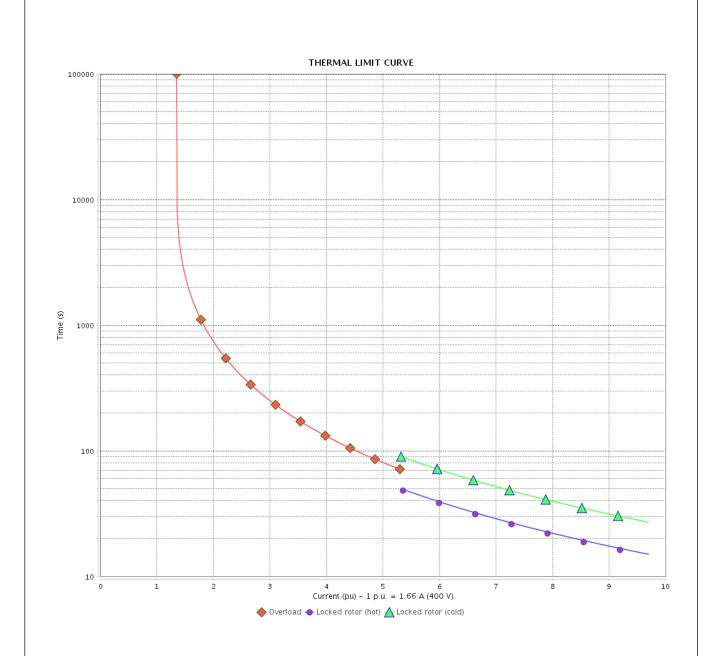


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	12438231 00156ET3E1	43T-W22
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 9 : 1	.80 ft.lb	Duty cycle Insulation	class	: 0.0470 sq.ft.lt : Cont.(S1) : F)
Locked rotor torq Breakdown torqu Rated speed	e : 4	80 % 40 % 915 rpm	Service fac Temperatu Design		: 1.25 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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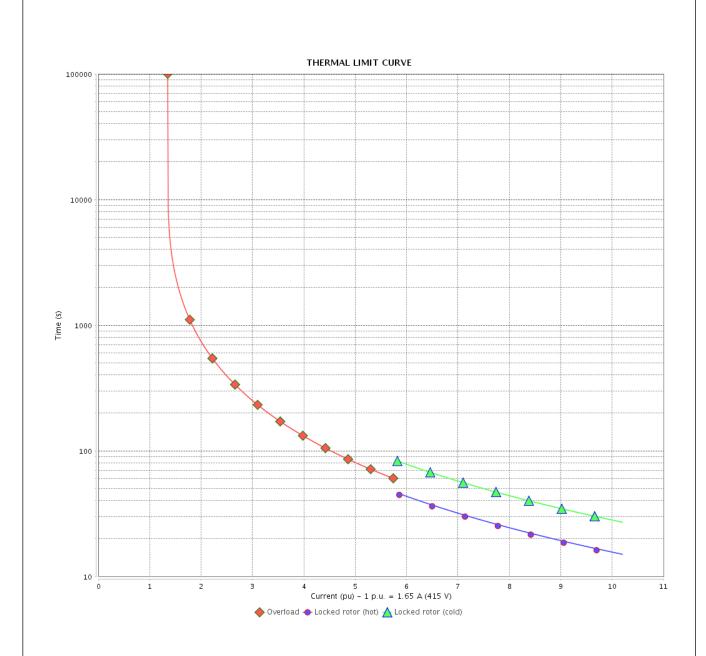


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12438231 00156ET3E1	43T-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	que	: 415 V 50 Hz 2P IE3 : 1.65 A : 10.2 : 1.80 ft.lb : 420 % : 480 % : 2920 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.0470 sq.ft.ll : Cont.(S1) : F : 1.25 : 80 K : B	0
Heating constant Cooling constant Rev.	t	Changes Summary	Dealgii	Performed	Checked	Date
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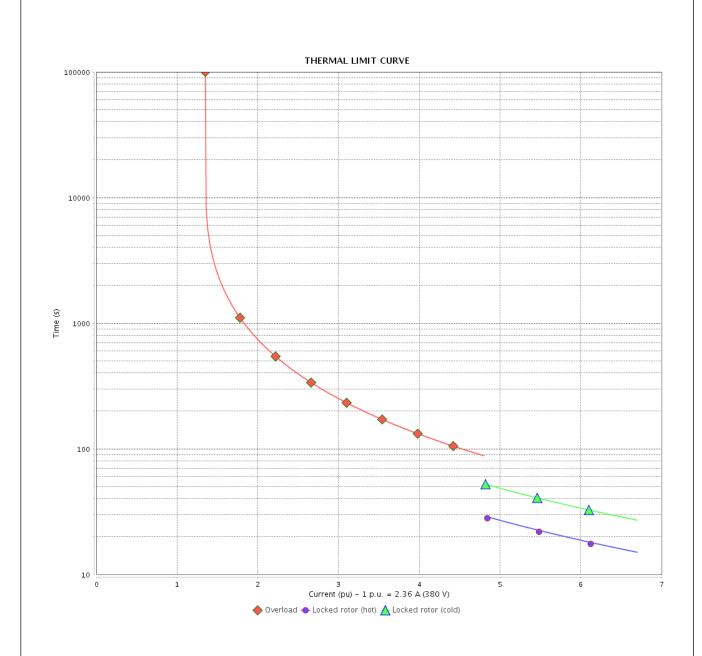


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12438231 00156ET3E1	43T-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	que :	2.36 A 6.7 2.78 ft.lb 220 % 260 % 2835 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0470 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant						
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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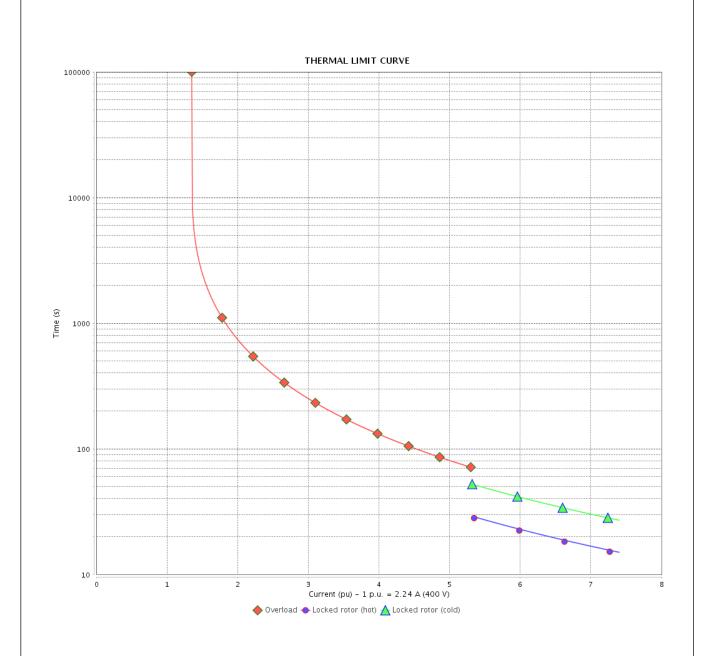


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12438231 00156ET3E1	43T-W22
Performance	· 400 V 50 Hz 2D IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 2P IE2 : 2.24 A : 7.4 : 2.75 ft.lb : 260 % : 290 % : 2860 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0470 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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Three Phase Induction Motor - Squirrel Cage

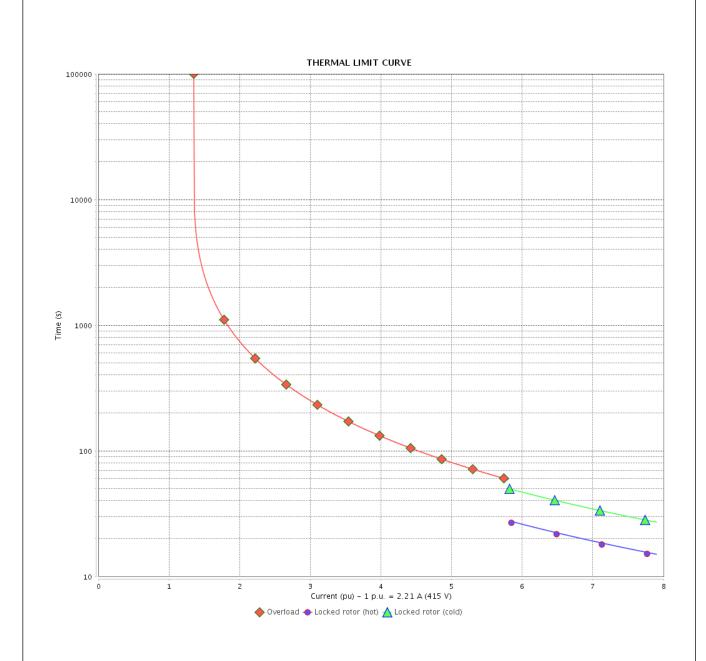


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12438231 00156ET3E1	43T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2. : 7. : 2. : 28 : 3°	15 V 50 Hz 2P IE2 21 A 9 74 ft.lb 30 % 10 % 370 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0470 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Customer :

Product line : NEMA Premium Efficiency Three- Product code :

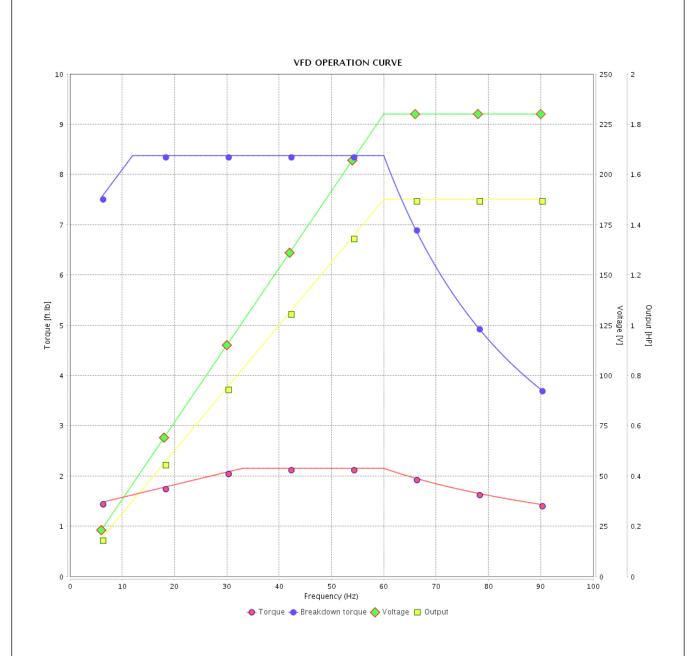
Phase

Catalog #:

12438231

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00156ET3E143T-W22



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque	: 3.92/1.96 A : 8.9 : 2.26 ft.lb : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 370 % Temperature rise Design		ıre rise	: 80 K : B	
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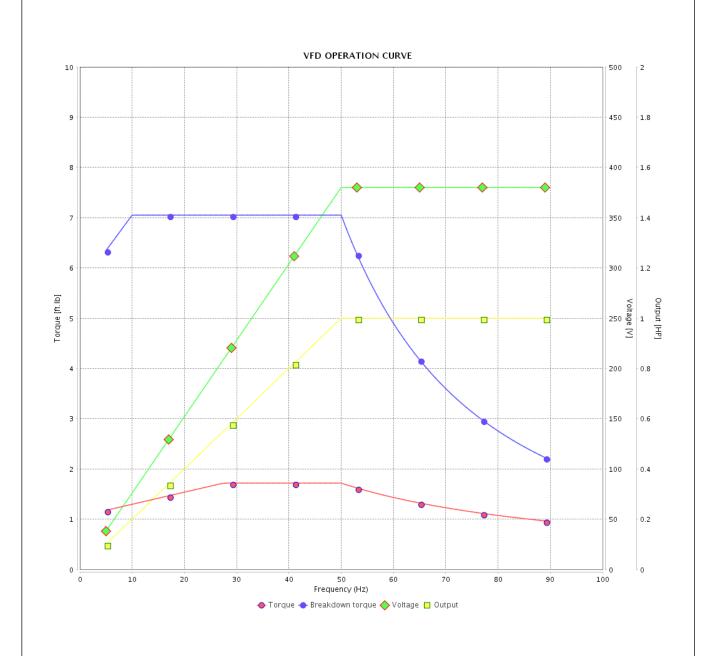


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12438231

Phase

Catalog #: 00156ET3E143T-W22



Performance	: 38	380 V 50 Hz 2P IE3				
Rated current	: 1.	69 A Moment of inc		of inertia (J)	: 0.0470 sq.ft.	.lb
LRC	: 9.	.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1.	.81 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 34	40 %	Service factor		: 1.25	
Breakdown torque : 390 %		Temperati	Temperature rise			
Rated speed		905 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

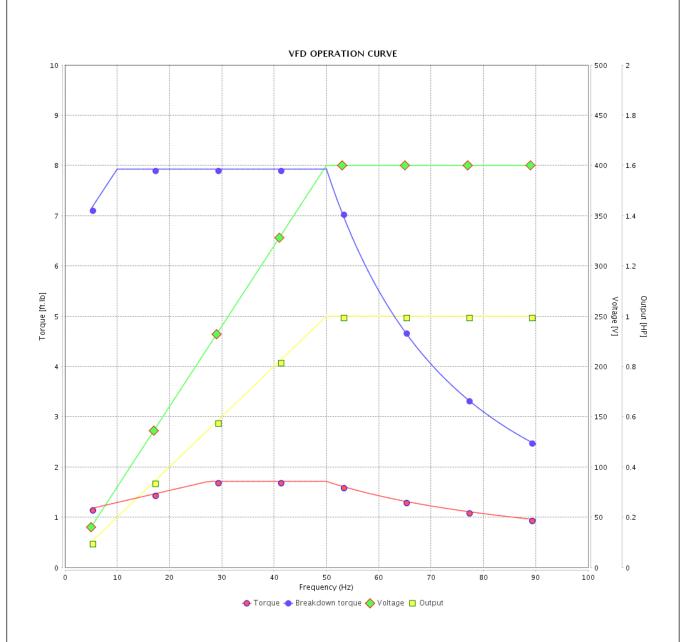
12/04/2022

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance : 400 V 50 Hz 2P IE3 : 1.66 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) : 1.80 ft.lb Insulation class Rated torque : F Locked rotor torque : 380 % Service factor : 1.25 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2915 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage



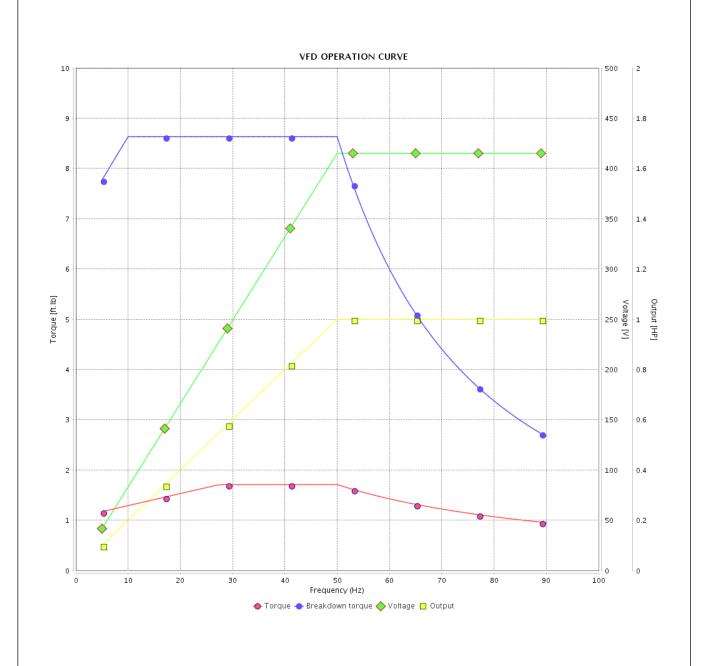
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00156ET3E143T-W22

12438231



Performance	: •	415 V 50 Hz 2P IE3				
Rated current	:	: 1.65 A Moment of i		Moment of inertia (J) : 0.0470 sq.:		.lb
LRC	:	10.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	:	1.80 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :	420 %	Service fa	actor	: 1.25	
Breakdown torque : 480 %		480 %	Temperature rise		: 80 K	
Rated speed	::	: 2920 rpm Desig			: B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

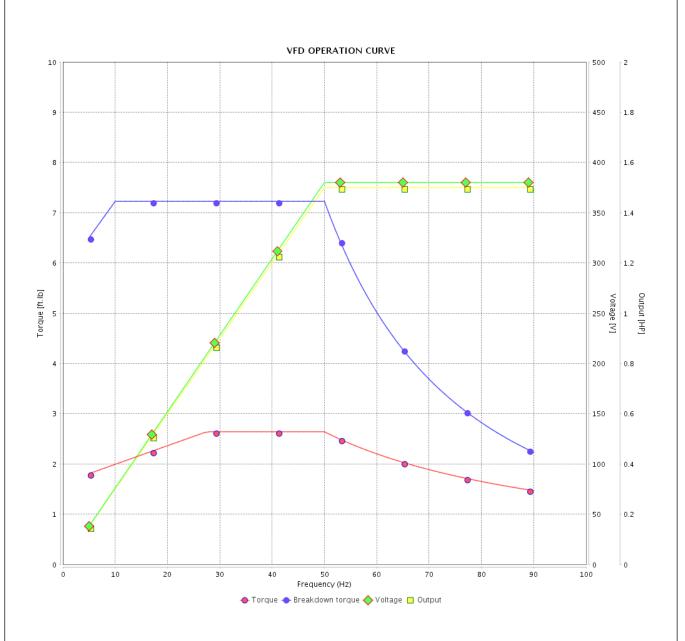
Product code: 12438231

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Performance	:	380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.36 A 6.7 2.78 ft.lb 220 % 260 % 2835 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 12438231

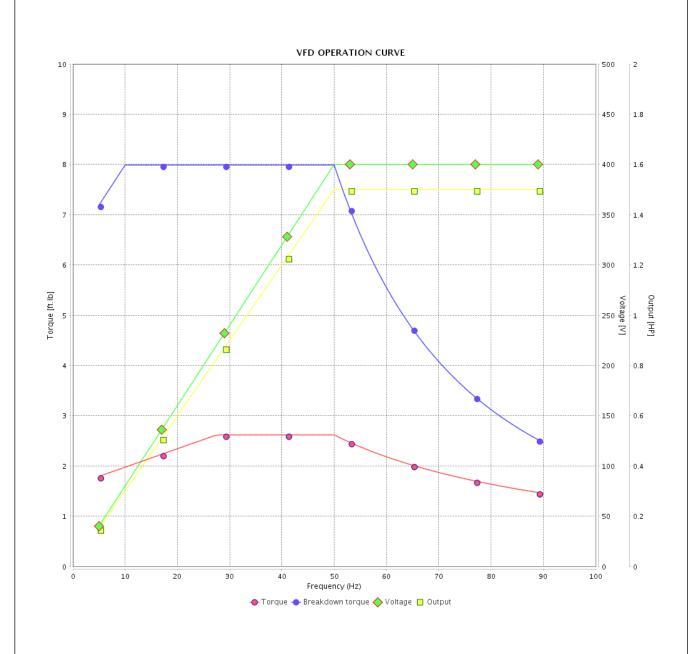
Phase

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.24 A : 7.4 : 2.75 ft.lb : 260 % : 290 % : 2860 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

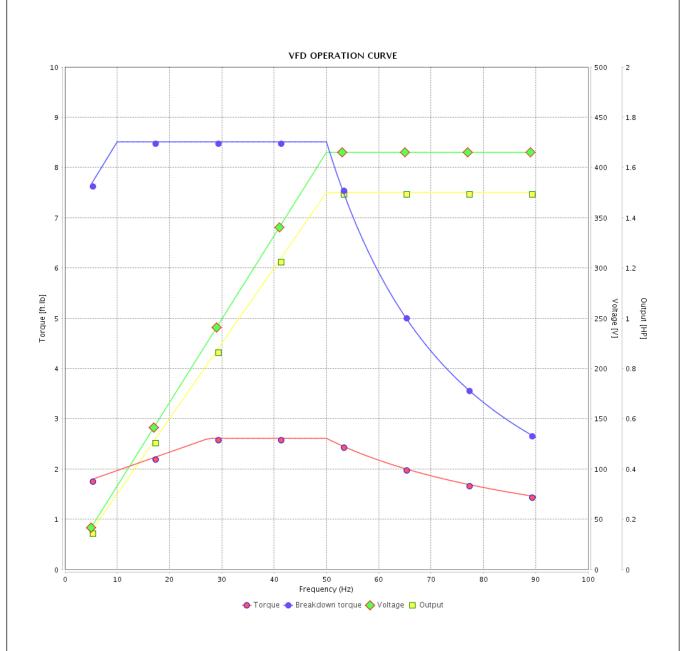
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12438231

Catalog #: 00156ET3E143T-W22



Performance : 415 V 50 Hz 2P IE2 : 2.21 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 2.74 ft.lb Insulation class Rated torque : F : 280 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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