DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441798

Phase

Catalog #: 02036ET3E256T-W22

Frame : 254/6T Cooling method : IC411 - TEFC

Insulation class : F 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 : 328 lb
Protection degree : IP55 Moment of inertia (J) : 1.54 sq.ft.lb

Design : B Output [HP] 20 15 15 15 20 20 20 Poles 2 2 2 2 2 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 380 400 415 380 415 Rated current [A] 46.4/23.2 28.9 27.2 20.4 19.6 19.1 26.2 L. R. Amperes [A] 283/142 141 151 155 147 155 160 6.1x(Code 6.9x(Code | 7.7x(Code H) 8.1x(Code J) 5.1x(Code E) 5.7x(Code F) | 6.1x(Code LRC [A] G) G) G) No load current [A] 13.0/6.50 6.20 6.60 6.90 6.20 6.60 6.90 Rated speed [RPM] 3525 2935 2945 2950 2885 2905 2915 Slip [%] 2.08 2.17 1.83 1.67 3.83 3.17 2.83 Rated torque [ft.lb] 29.8 26.9 26.8 26.8 36.3 36.2 36.0 Locked rotor torque [%] 200 220 240 270 160 180 200 Breakdown torque [%] 190 240 260 280 310 210 229 Service factor 1.25 1.15 1.15 1.15 1.00 1.00 1.00 105 K Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 28s (cold) Locked rotor time 37s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 21s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 91.4 90.2 90.2 89.5 93.3 92.1 92.2 50% 91.0 90.6 90.4 89.8 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.9 91.2 91.1 90.2 91.0 91.0 100% 87.5 91.0 91.2 91.2 91.2 89.5 89.5

 0.89
 0.90
 0.89
 0.88

 Drive end
 Non drive end
 Foundation loads

0.50

0.75

0.85

0.48

0.73

0.84

Bearing type : 6309 C3 6209 C3 Max. traction : 233 lb Sealing : V'Ring V'Ring Lubrication interval : 19000 h 20000 h

0.54

0.78

0.87

Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM

0.57

0.82

0.87

Notes

Power Factor

USABLE @208V 51.3A SF 1.15 SFA 59.0A

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.

0.63

0.86

0.89

0.90

0.60

0.84

0.88

0.89

0.57

0.82

0.87

0.89

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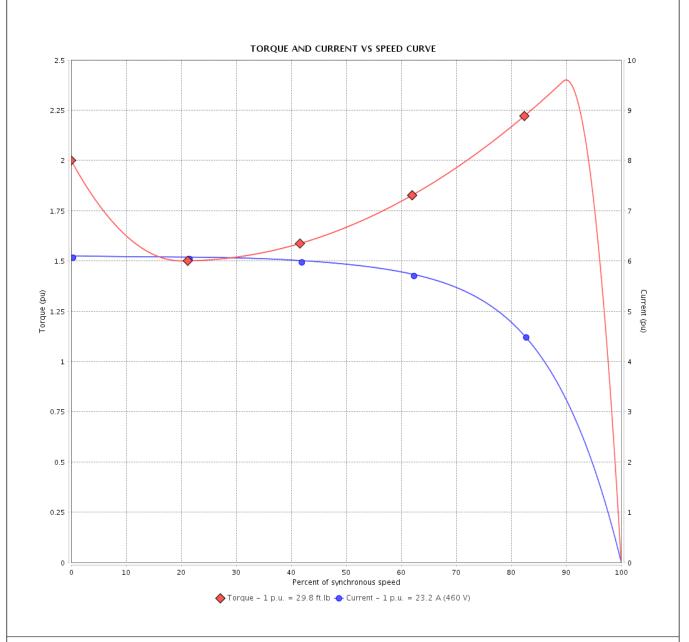
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11441798

Catalog #: 02036ET3E256T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 46.4/23.2 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K

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

: 3525 rpm

Rated speed

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Design

: B



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441798 Catalog #: 02036ET3E256T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.9 ft.lb ◆ Current - 1 p.u. = 20.4 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 20.4 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Performed Checked Date Rev. **Changes Summary**

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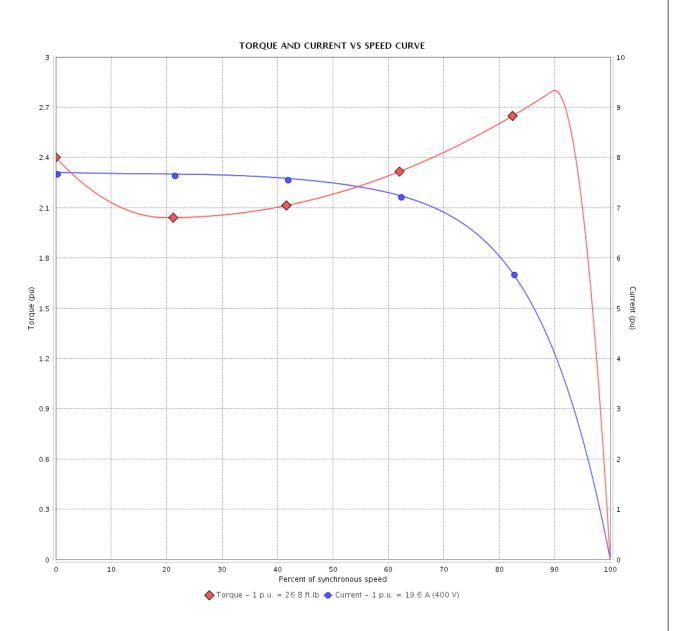


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02036ET3E256T-W22

11441798



Performance : 400 V 50 Hz 2P IE3 Rated current : 19.6 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 26.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time

: 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441798 Catalog #: 02036ET3E256T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.8 ft.lb ◆ Current - 1 p.u. = 19.1 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 19.1 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F : 270 % Locked rotor torque Service factor : 1.15 : 310 % Breakdown torque Temperature rise : 80 K Rated speed : 2950 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Rev. Performed Checked Date **Changes Summary**

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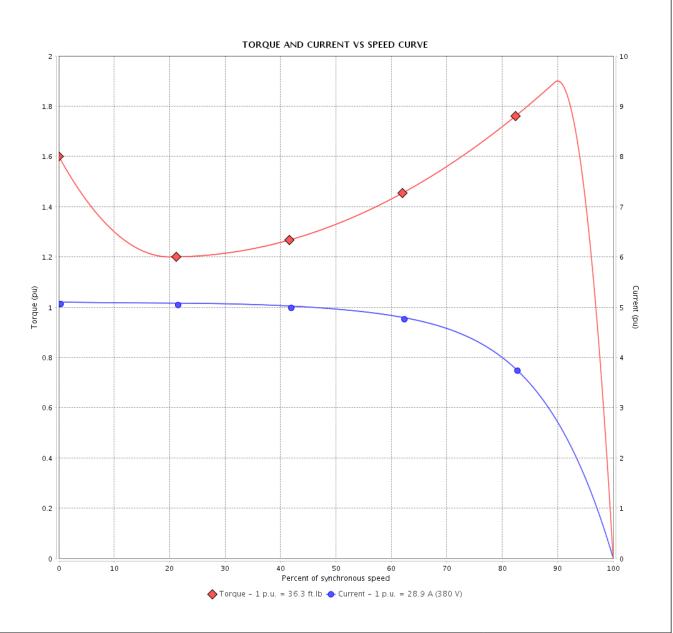
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441798

Catalog #: 02036ET3E256T-W22



Performance : 380 V 50 Hz 2P Rated current : 28.9 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.3 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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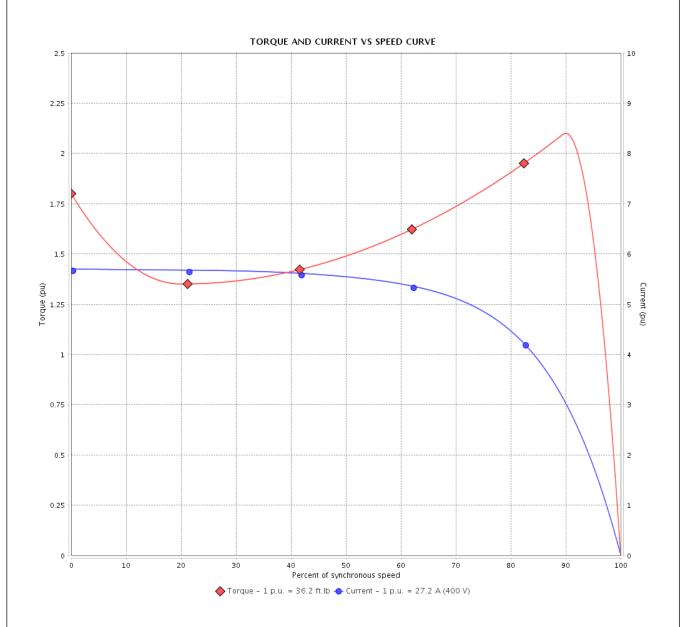


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441798

Phase

Catalog #: 02036ET3E256T-W22



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 27.2 A	Moment of inertia (J)	: 1.54 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 36.2 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2905 rpm	Design	: B
Locked rotor time	: 28s (cold) 16s (hot)		

Locked rotor time : 28s (cold) 16s (hot)

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Customer :

Product line : NEMA Premium Efficiency Three-

Phase

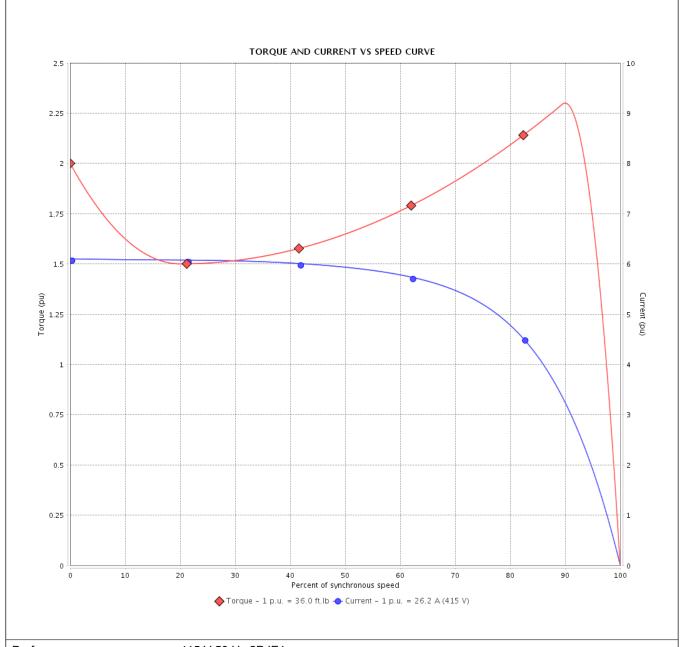
Product code: 11441798

Catalog #: 02036ET3E256T-W22

: 1.54 sq.ft.lb

: Cont.(S1)

: F



Locked rotor torque: 200 %Service factor: 1.00Breakdown torque: 229 %Temperature rise: 105 KRated speed: 2915 rpmDesign: B

Locked rotor time : 28s (cold) 16s (hot)

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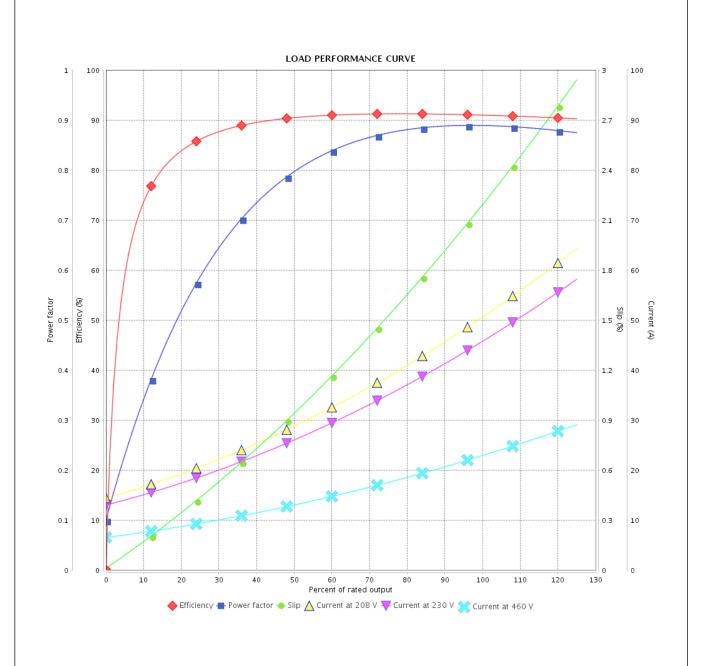


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Product line : NEMA Premium Efficiency Three- Product code : 11441798

Phase

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Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 4	6.4/23.2 A	Moment o	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6	5.1	Duty cycle	:	: Cont.(S1)	
Rated torque	: 2	9.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	.00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	525 rpm	Design		: B	
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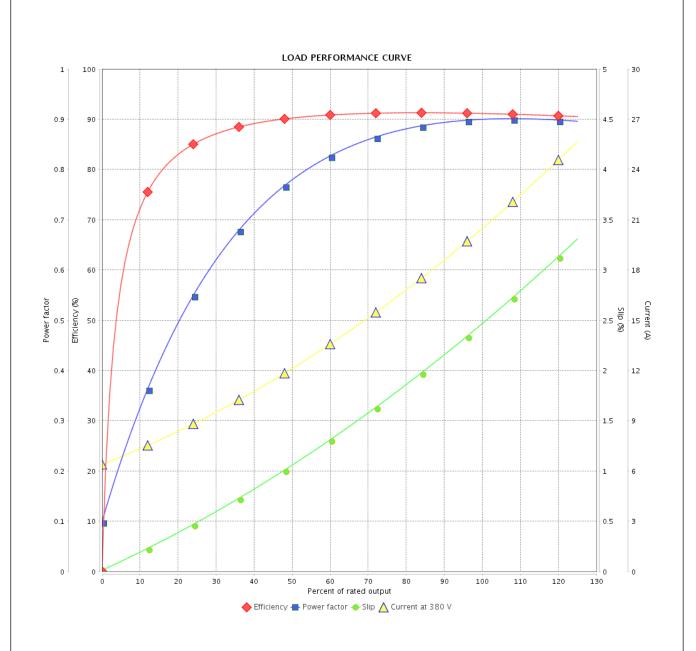
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.4 A : 6.9 : 26.9 ft.lb : 220 % : 260 % : 2935 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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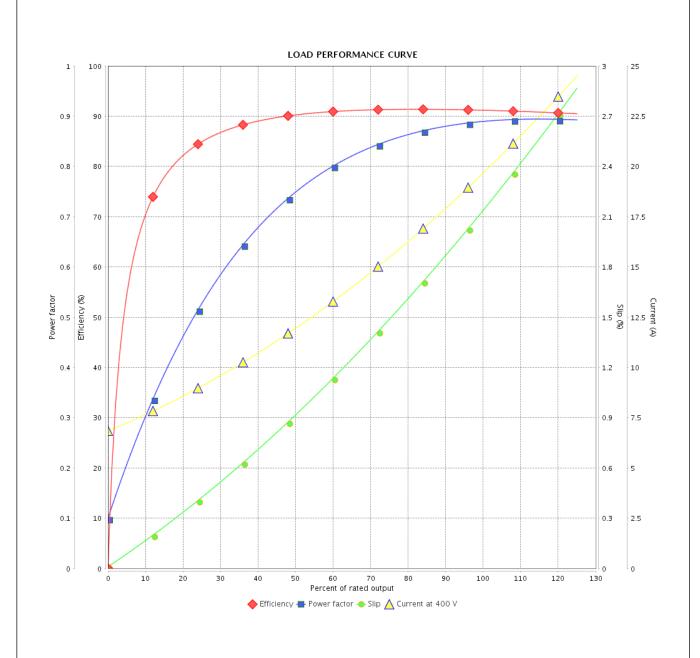
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.6 A : 7.7 : 26.8 ft.lb : 240 % : 280 % : 2945 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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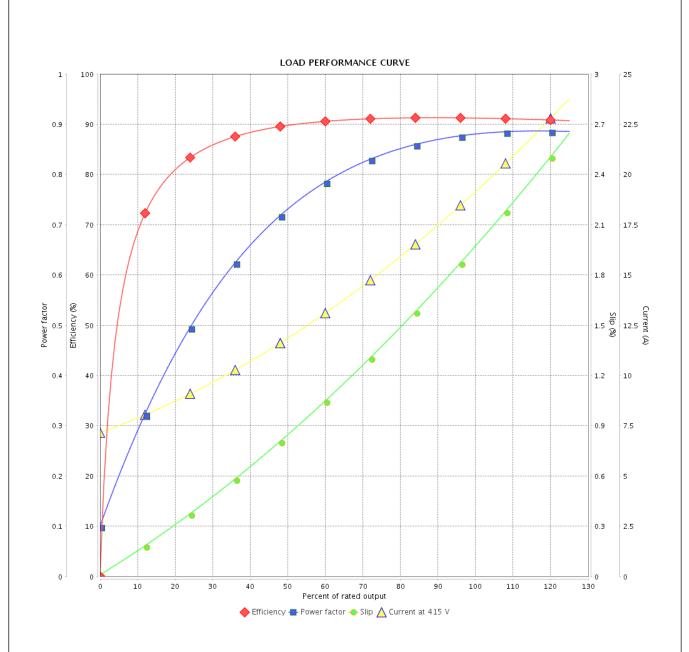
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Phase

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Performance	: 415 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.1 A : 8.1 : 26.8 ft.lb : 270 % : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 8.1 Duty cycle : Cont : 26.8 ft.lb Insulation class : F : 270 % Service factor : 1.15		: 1.15 : 80 K	
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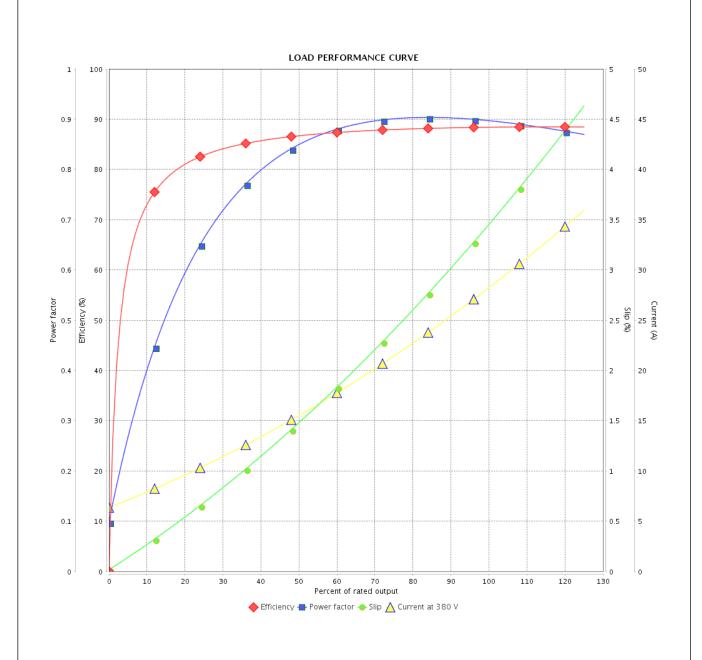
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Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.9 A : 5.1 : 36.3 ft.lb : 160 % : 190 % : 2885 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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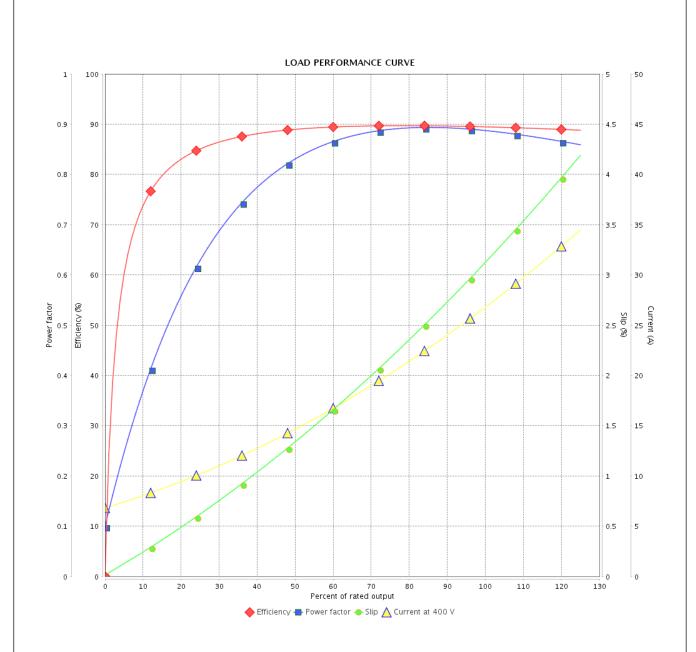
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Phase

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Performance	:	400 V 50 Hz 2P IE	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ie :	27.2 A 5.7 36.2 ft.lb 180 % 210 % 2905 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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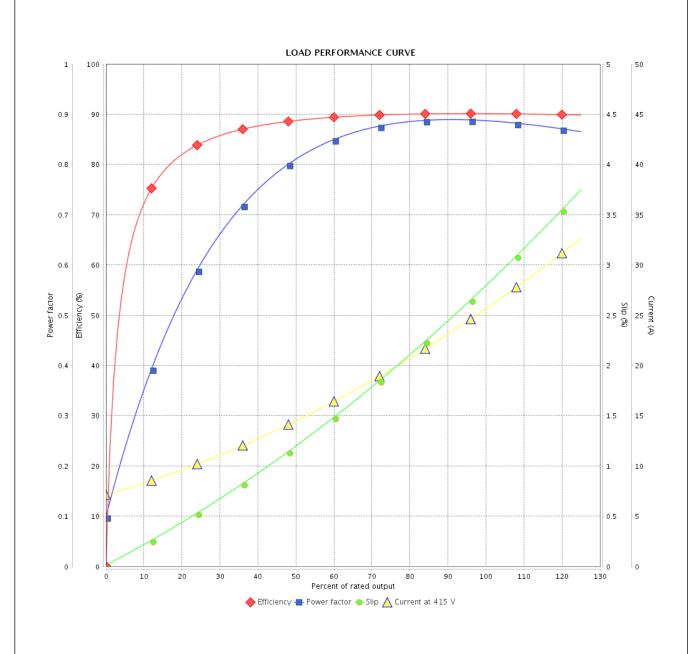
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Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.2 A : 6.1 : 36.0 ft.lb : 200 % : 229 % : 2915 rpm			: 1.00 : 105 K	
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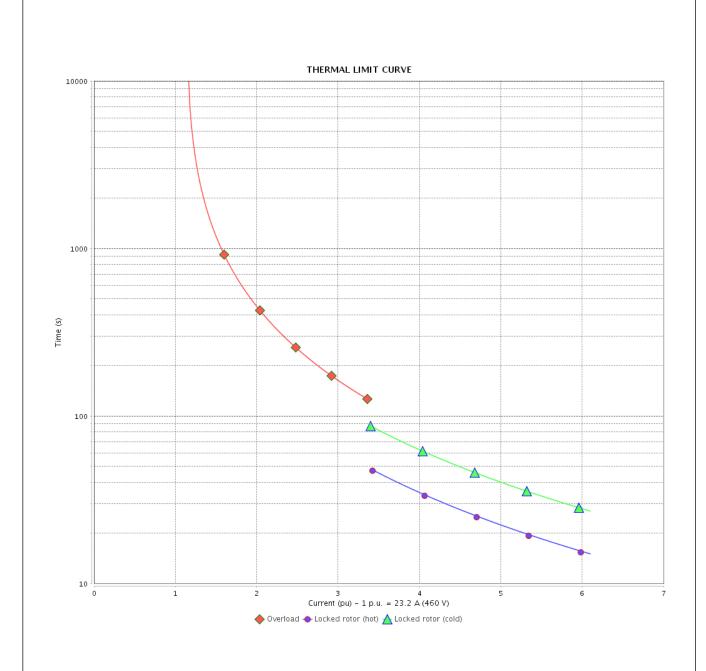


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	11441798	
	F	nase	(Catalog # :	02036ET3E25	56T-W22
Performance	: 23	30/460 V 60 Hz 2P	1			
Rated current LRC	: 46 : 6.	6.4/23.2 A 1	Moment of Duty cycle	f inertia (J)	: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 29	9.8 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 40 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		525 rpm	Design	3 1.00	: B	
Heating constant						
Cooling constant		01 0				
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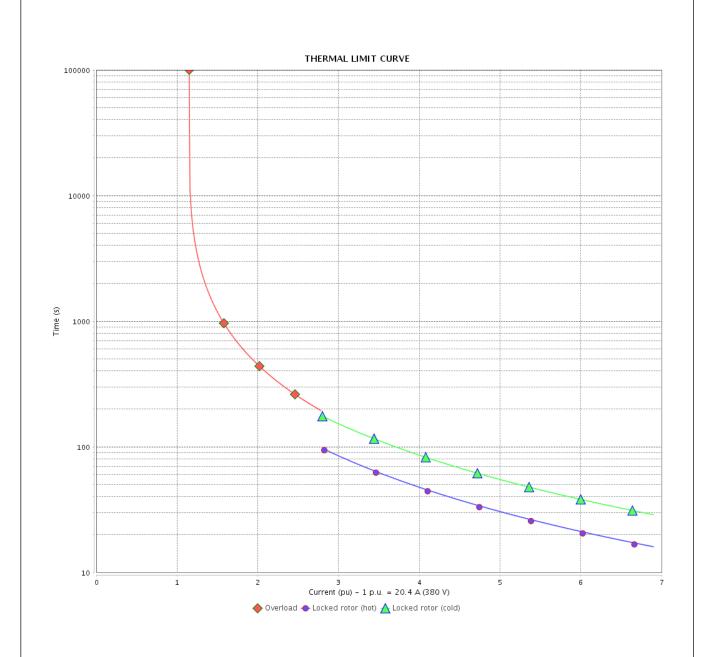


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	11441798	
	гі	idse	(Catalog # :	02036ET3E2	56T-W22
Dorformono	. 20	00 V 50 H= 2D IF2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20 : 6. : 26 e : 22 : 26	30 V 50 Hz 2P IE3 0.4 A 9 6.9 ft.lb 20 % 60 % 935 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
		'	- J · ·			
Heating constant Cooling constant						
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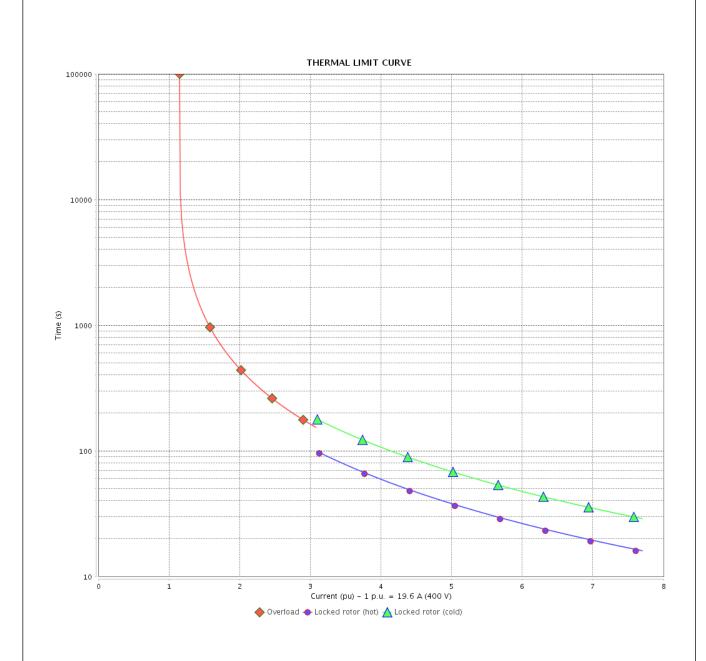


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441798 02036ET3E25	SST W22
					02000110120	701 4422
Derfermen		400 V 50 H= 0D IF0				
Performance Rated current		400 V 50 Hz 2P IE3 19.6 A	Moment o	of inertia (J)	: 1.54 sq.ft.lb	
LRC	:	7.7	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torqu		26.8 ft.lb 240 %	Insulation Service fa		: F : 1.15	
Breakdown torque	e :	280 %	Temperat		: 80 K	
Rated speed		2945 rpm	Design		: B	
Heating constant Cooling constant						
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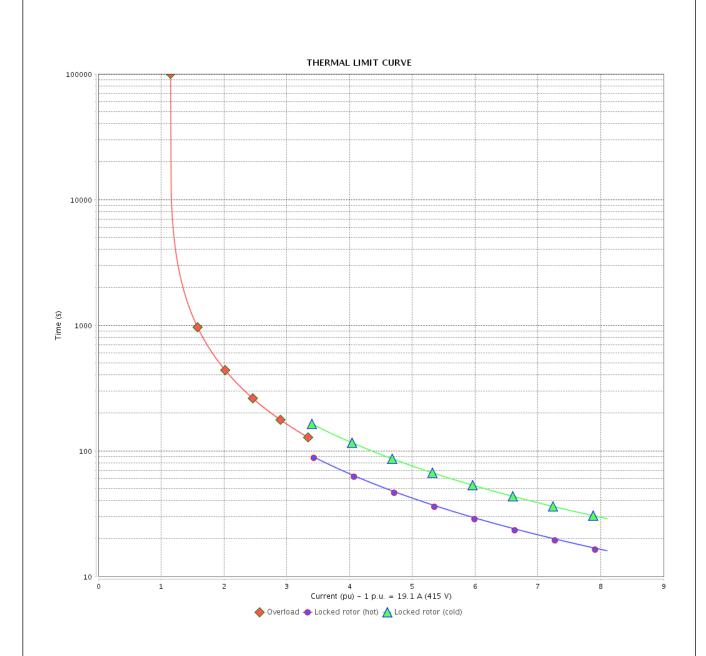


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441798 02036ET3E2	56T-W/22
	: 415 V 50 Hz 2P IE3	Marra	finantie (1)	. 4 5 4 = - 50 11	
	: 19.1 A : 8.1	Moment of Duty cycle	f inertia (J)	: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation	class	: F	
	: 270 % : 310 %	Service fa Temperatu		: 1.15 : 80 K	
	: 2950 rpm	Design		: B	
Heating constant					
Cooling constant					
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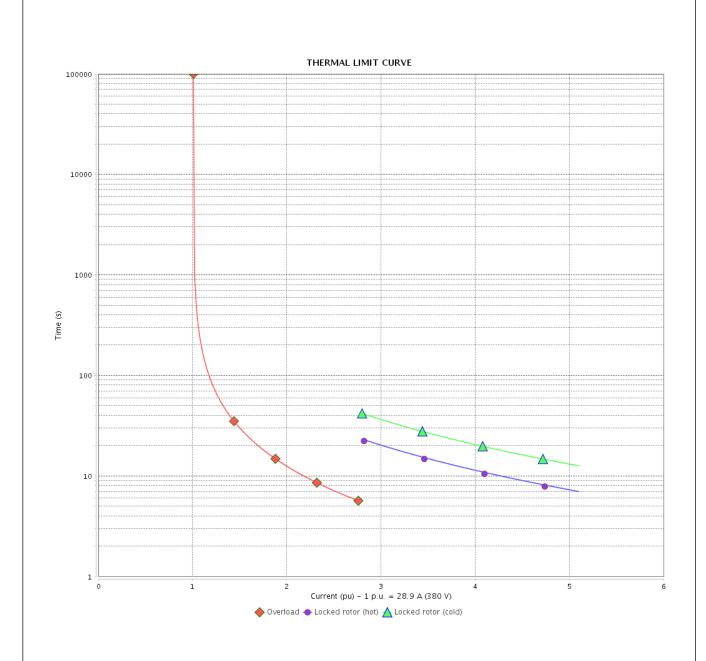


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441798 02036ET3E2	56T-W22
Performance		: 380 V 50 Hz 2P				
Rated current LRC		: 28.9 A : 5.1	Moment of Duty cycle	of inertia (J)	: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque		: 36.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2885 rpm	Design	ui e iise	: B	
Heating constan						
Cooling constan	t					
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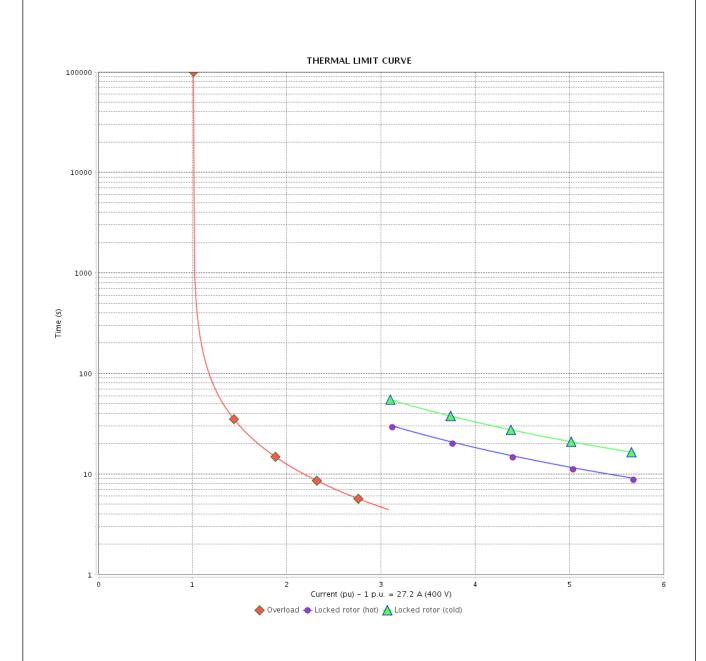


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Product line	: NEM <i>A</i> Phase	A Premium Efficiency T		Product code :	11441798 02036ET3E2	56T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 5 : 27.2 A : 5.7 : 36.2 ft. : 180 % : 210 % : 2905 rp	b	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Char	nges Summary		Performed	Checked	Date
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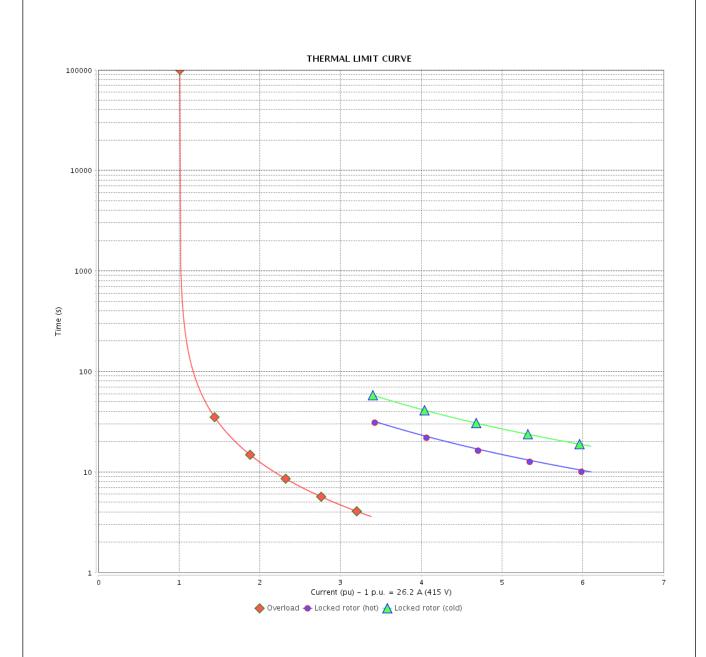


Customer	·				
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Product line	: NEMA Premium Efficiency Phase	Three- Pro	oduct code :	11441798	
	Filase	Ca	italog # :	02036ET3E25	6T-W22
Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.2 A : 6.1 : 36.0 ft.lb : 200 % : 229 % : 2915 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	<u> </u>				
Cooling constant					
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Product line : NEMA Premium Efficiency Three-

Phase

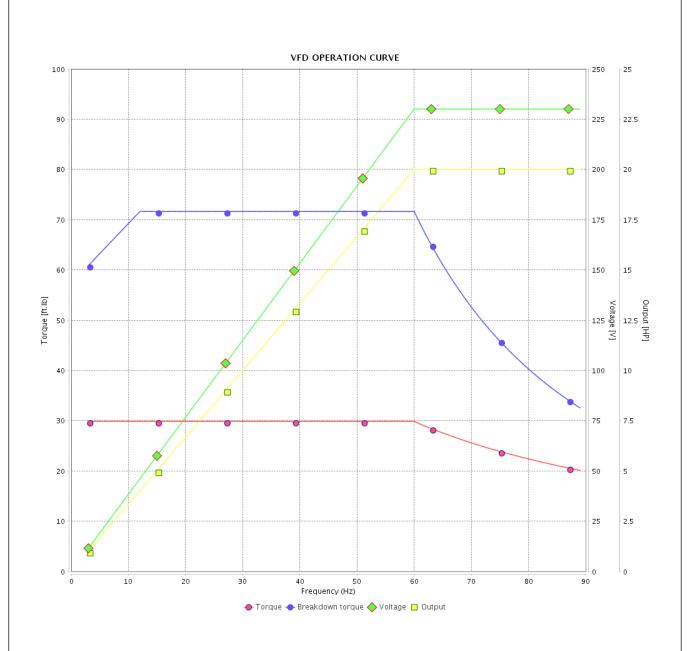
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Performance : 230/460 V 60 Hz 2P Rated current : 46.4/23.2 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class Rated torque : 29.8 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



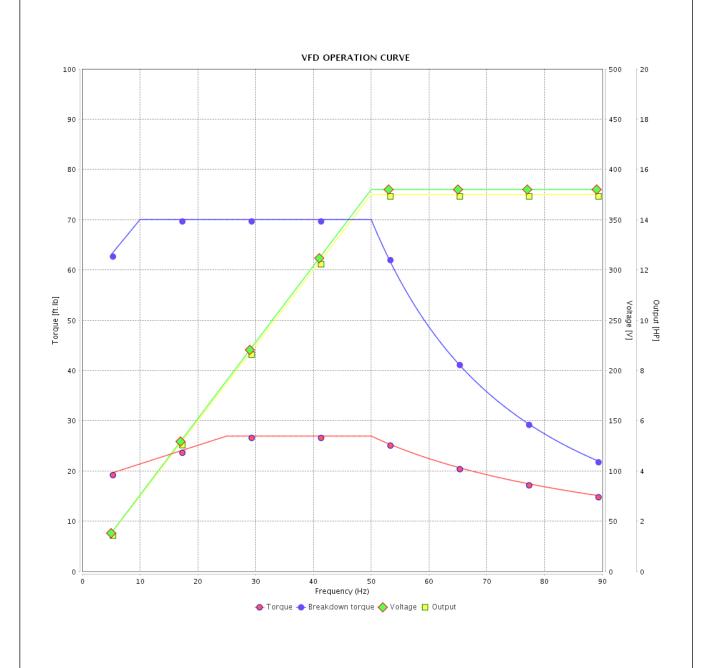
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441798

Catalog #: 02036ET3E256T-W22



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current : 20.4 A).4 A	Moment o	Moment of inertia (J)		
LRC	: 6.9	9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 26	6.9 ft.lb	Insulation	class	: F	
Locked rotor torque	: 22	20 %	Service factor		: 1.15	
Breakdown torque	: 26	60 %	Temperature rise		: 80 K	
Rated speed	: 29	935 rpm	Design		: B	
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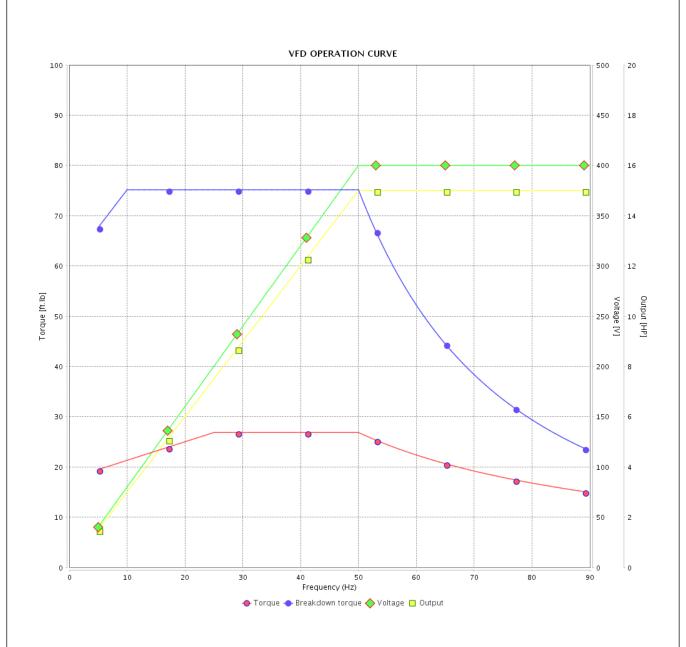
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441798

Catalog #: 02036ET3E256T-W22



Performance : 400 V 50 Hz 2P IE3 : 19.6 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class : 26.8 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



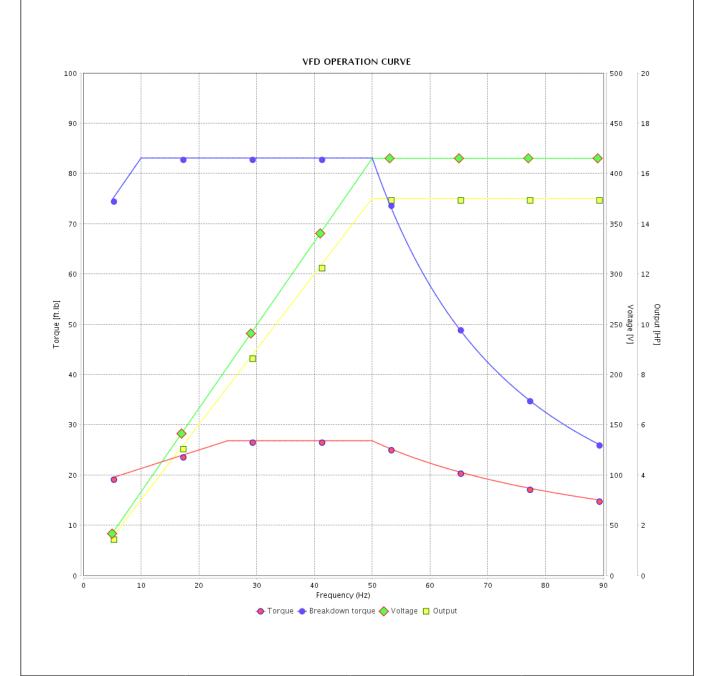
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ET3E256T-W22

11441798



Performance	:	415 V 50 Hz 2P IE3				
Rated current	:	: 19.1 A Mome		f inertia (J)	: 1.54 sq.ft.lb	
LRC	:	8.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	270 %	Service fa	Service factor		
Breakdown torque	:	310 %	Temperati	Temperature rise		
Rated speed	:	2950 rpm	Design		: B	
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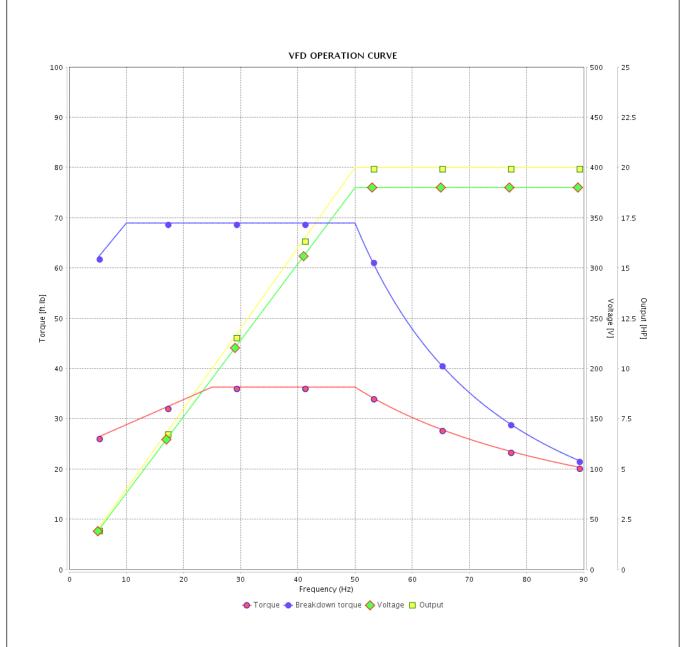
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11441798

Catalog #: 02036ET3E256T-W22



Performance : 380 V 50 Hz 2P : 28.9 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 36.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B

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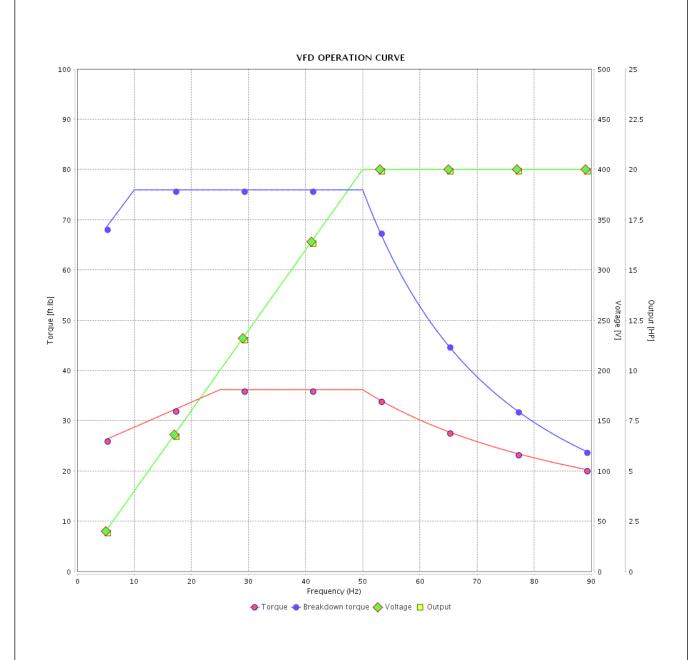
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.2 A : 5.7 : 36.2 ft.lb : 180 % : 210 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three- Product

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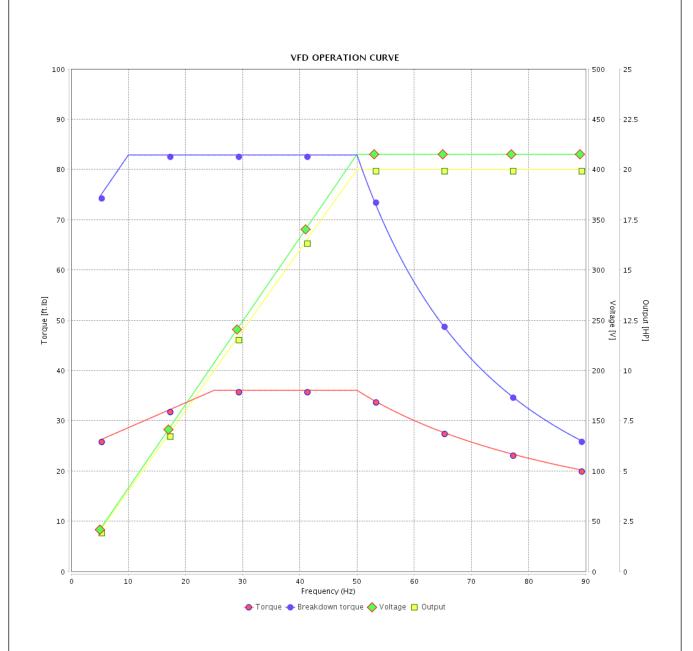
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Performance : 415 V 50 Hz 2P IE1 Rated current : 26.2 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2915 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

