DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.74

0.82

0.85

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G

Frame : 444/5TC 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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 1676 lb
Protection degree : IP55 Moment of inertia (J) : 66.7 sq.ft.lb

Yrotection degree : IP55

Design : B Output [HP] 150 125 125 125 150 150 150 Poles 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 380 400 380 415 415 Rated current [A] 340/170 205 170 163 159 194 189 L. R. Amperes [A] 2244/1122 1190 1189 1125 1127 1192 1191 7.0x(Code 6.6x(Code 6.9x(Code | 7.5x(Code H) | 5.8x(Code F) | 5.8x(Code F) 6.3x(Code LRC [A] G) G) G) G)

No load current [A] 116/58.0 58.0 61.2 64.0 58.0 61.2 64.0 Rated speed [RPM] 1780 1480 1480 1480 1475 1475 1480 Slip [%] 1.11 1.33 1.33 1.33 1.67 1.67 1.33 Rated torque [ft.lb] 443 444 444 444 534 534 532 Locked rotor torque [%] 200 190 220 229 160 180 190 Breakdown torque [%] 200 250 240 260 290 220 240 Service factor 1.15 1.00 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K 32s (cold) Locked rotor time 48s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 27s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) Noise level² 73.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 69.0 dB(A) 25% 95.3 95.1 95.1 94.6 95.6 95.6 95.3 50% 95.4 95.1 95.1 94.8 95.4 95.4 95.4 Efficiency (%) 75% 95.8 95.5 95.5 95.5 95.4 95.4 95.4 100% 95.0 95.8 95.3 95.3 95.5 95.0 95.4 25% 0.49 0.49 0.45 0.43 0.55 0.51 0.49

50% 0.74 0.73 0.70 0.68 0.79 0.76 Power Factor 75% 0.82 0.83 0.81 0.79 0.85 0.83 100% 0.85 0.86 0.85 0.84 0.86 0.86 Non drive end Drive end Foundation loads

Bearing type : 6319 C3 6316 C3 Max. traction : 2567 lb Sealing : WSeal WSeal Max. compression : 4243 lb Lubrication interval : 8000 h

Mobil Polyrex EM

34 g

45 g

Notes

Lubricant amount

Lubricant type

USABLE @208V 376A SF 1.00 SFA 376A

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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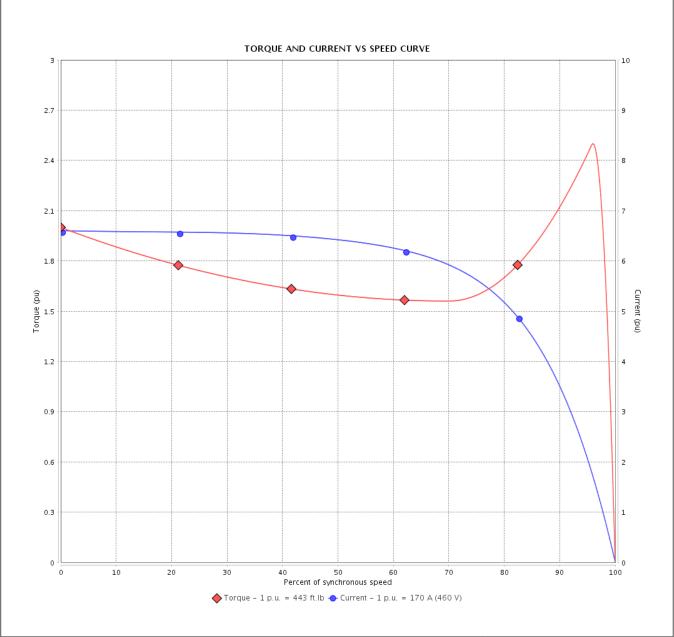
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G



Performance : 230/460 V 60 Hz 4P Rated current : 340/170 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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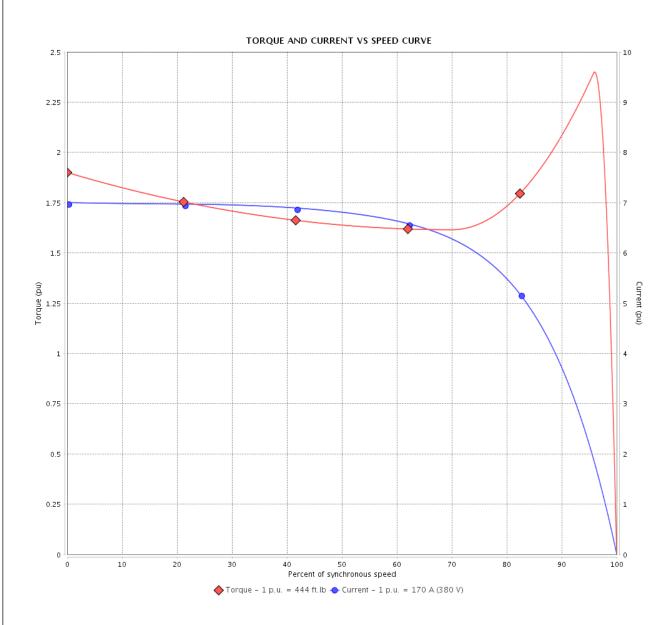


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13693143

⊇hase

Catalog #: 15018ET3E445TC-W22G



4=0.4		
170 A	Moment of inertia (J)	: 66.7 sq.ft.lb
7.0	Duty cycle	: Cont.(S1)
444 ft.lb	Insulation class	: F
190 %	Service factor	: 1.00
240 %	Temperature rise	: 80 K
1480 rpm	Design	: B
	444 ft.lb 190 % 240 %	7.0 Duty cycle 444 ft.lb Insulation class 190 % Service factor 240 % Temperature rise

Locked rotor time : 32s (cold) 18s (hot)

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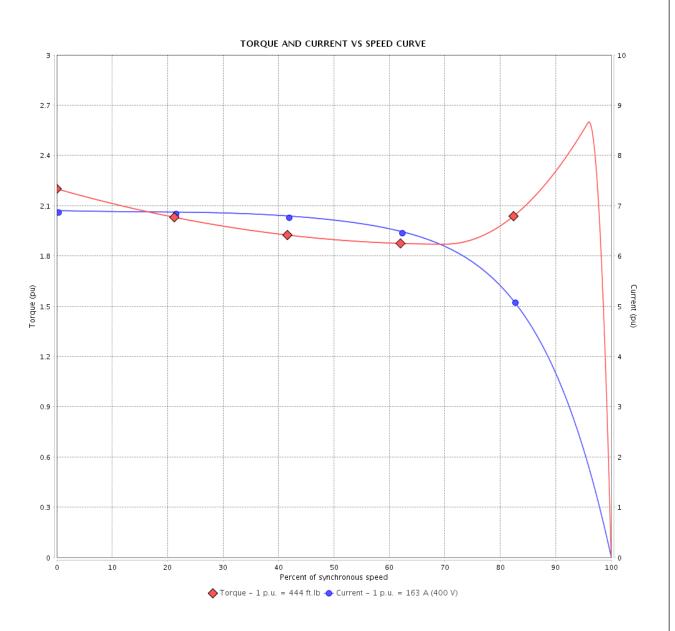
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3E445TC-W22G

13693143



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 163 A	Moment of inertia (J)	: 66.7 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 444 ft.lb	Insulation class	:F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)		

Locked rotor time : 32s (cold) 18s (hot)

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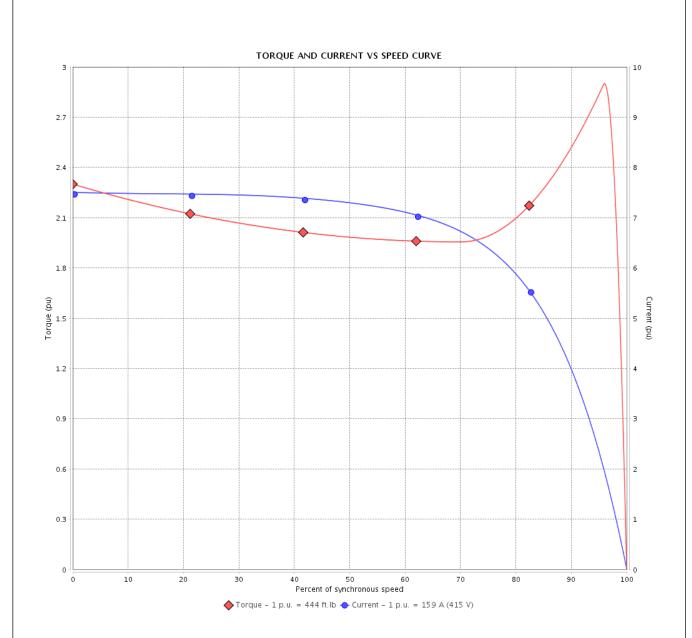
Three Phase Induction Motor - Squirrel Cage



15018ET3E445TC-W22G

Customer Product line : NEMA Premium Efficiency Three-Product code: 13693143

Catalog #:



Performance : 415 V 50 Hz 4P IE3 Rated current : 159 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 444 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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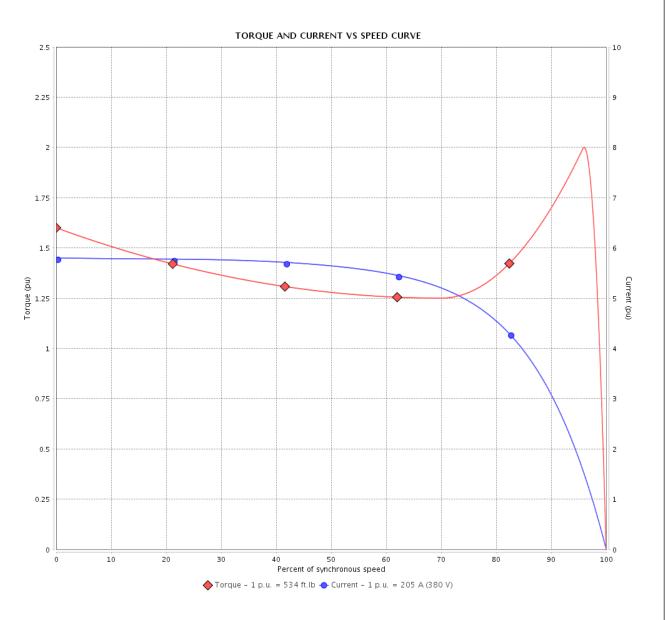


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance : 380 V 50 Hz 4P IE2 Rated current : 205 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 534 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

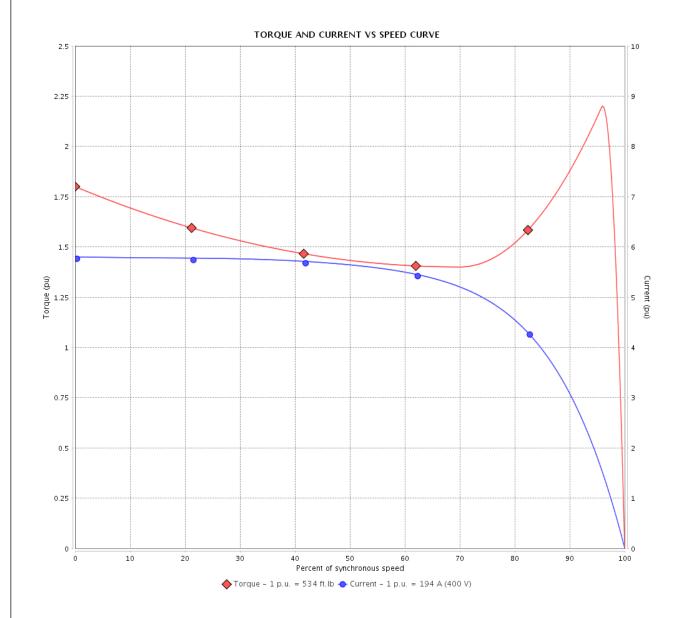
Locked rotor time : 32s (cold) 18s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 13693143 Catalog #: 15018ET3E445TC-W22G



Performance : 400 V 50 Hz 4P IE2 Rated current : 194 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 534 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise : 1475 rpm Rated speed Design : B Locked rotor time : 32s (cold) 18s (hot)

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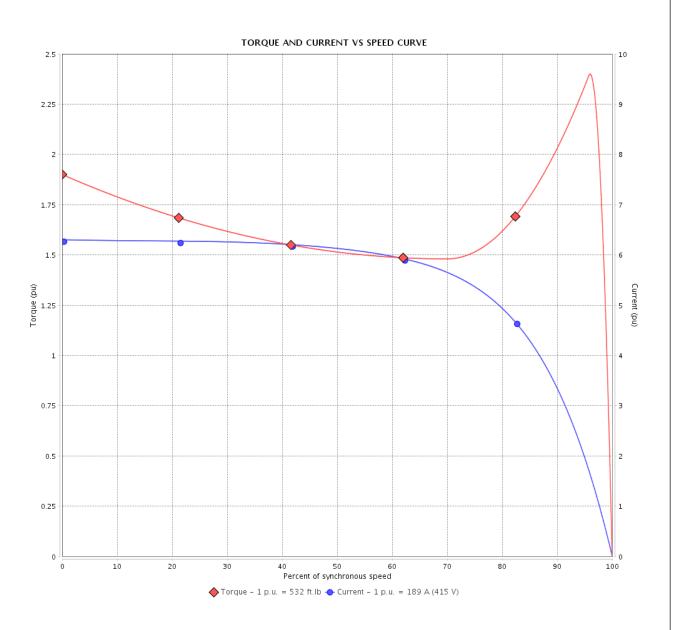


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 189 A	Moment of inertia (J)	: 66.7 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 532 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	· 32s (cold) 18s (hot)	1	

Locked rotor time : 32s (cold) 18s (hot)

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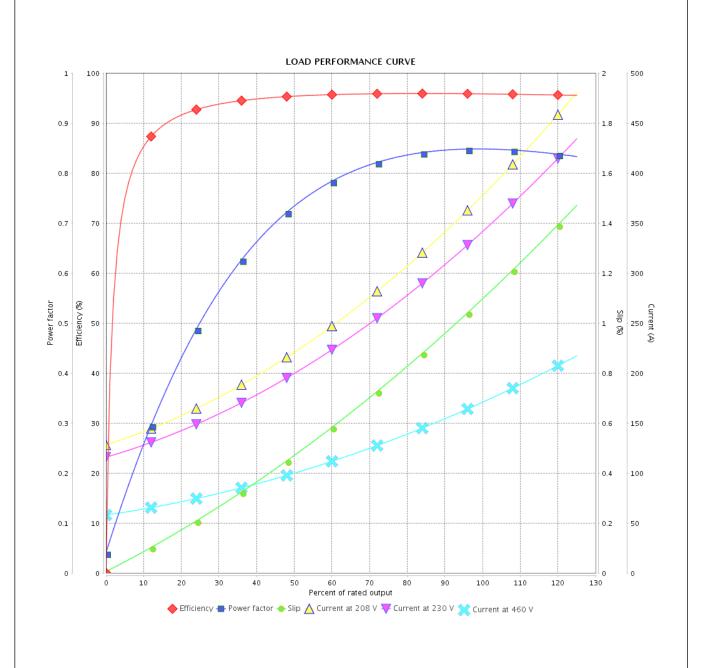


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 3	340/170 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 6	6.6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	200 %	Service fa	Service factor		
Breakdown torque	: 2	250 %	Temperati	Temperature rise		
Rated speed	: 1	780 rpm	Design		: B	
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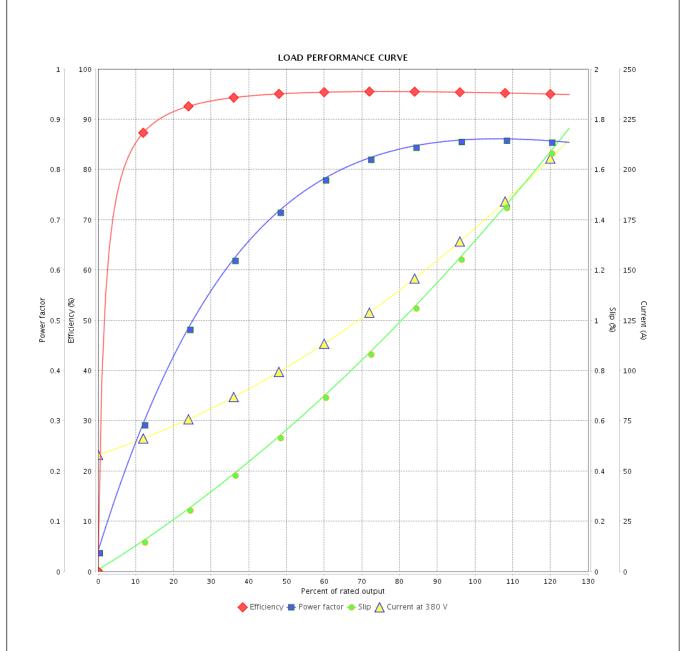


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G



	 						
Performance	: 3	880 V 50 Hz 4P IE3					
Rated current : 170		70 A	Moment of inertia (J)		: 66.7 sq.ft.lb		
LRC	: 7	·.0	Duty cycle	e	: Cont.(S1)		
Rated torque : 4		44 ft.lb	Insulation	class	: F ` ´		
Locked rotor torque		90 %	Service fa	ictor	: 1.00		
Breakdown torque	e : 2	240 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B		
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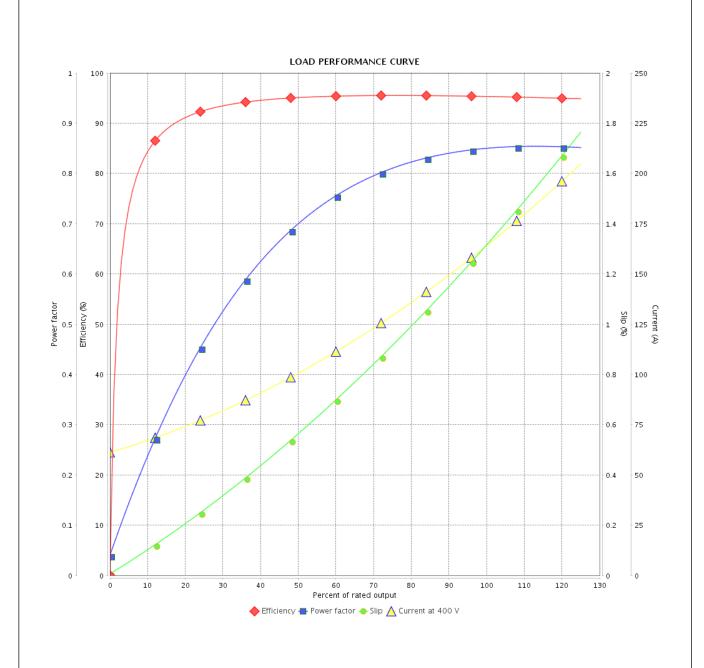


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	ted current : 163 A		Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC	: 6	.9	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor torque		20 %	Service fa	octor	: 1.00	
Breakdown torqu	ue : 20	60 %	Temperati	Temperature rise : 80 K		
Rated speed	: 14	480 rpm	Design		: B	
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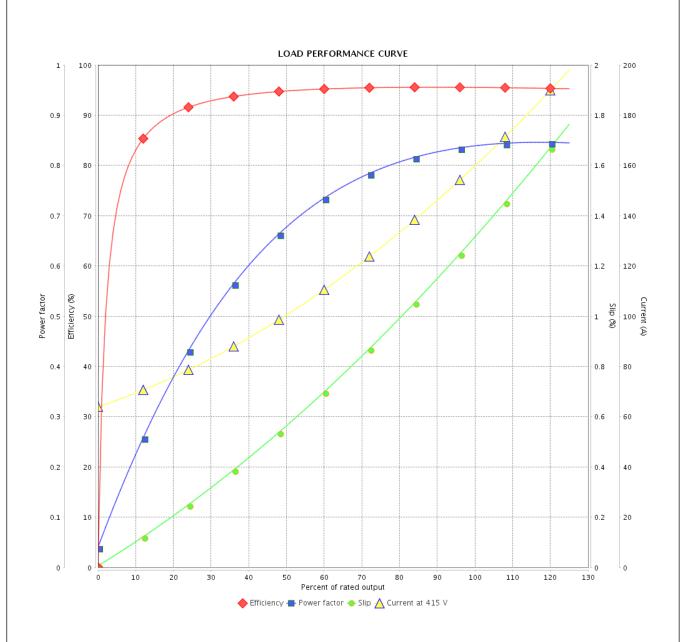
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 159 A : 7.5 : 444 ft.lb : 229 % : 290 % : 1480 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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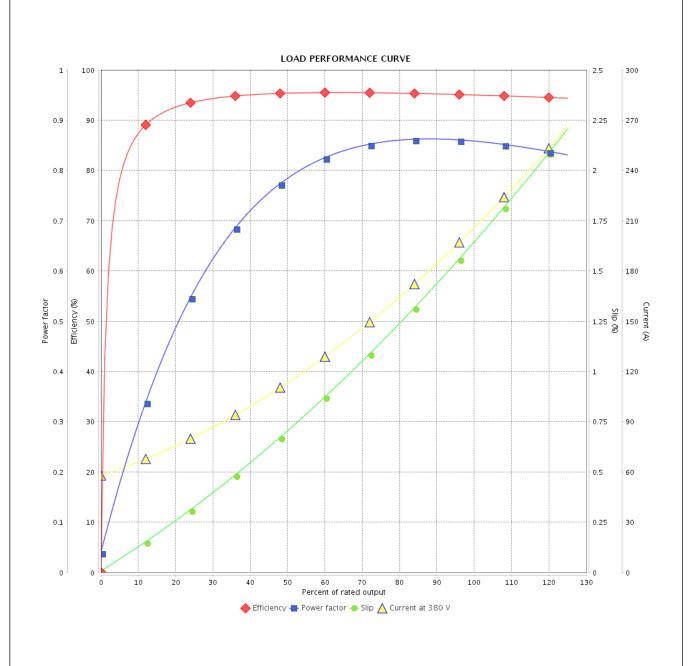


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	:	380 V 50 Hz 4P IE2					
Rated current		205 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb		
LRC	:	5.8	Duty cycle)	: Cont.(S1)		
Rated torque		534 ft.lb	Insulation	class	: F		
Locked rotor torque		160 %	Service fa	Service factor		: 1.00	
Breakdown torque	:	200 %	Temperati	Temperature rise : 105 K			
Rated speed	:	1475 rpm	Design		: B		
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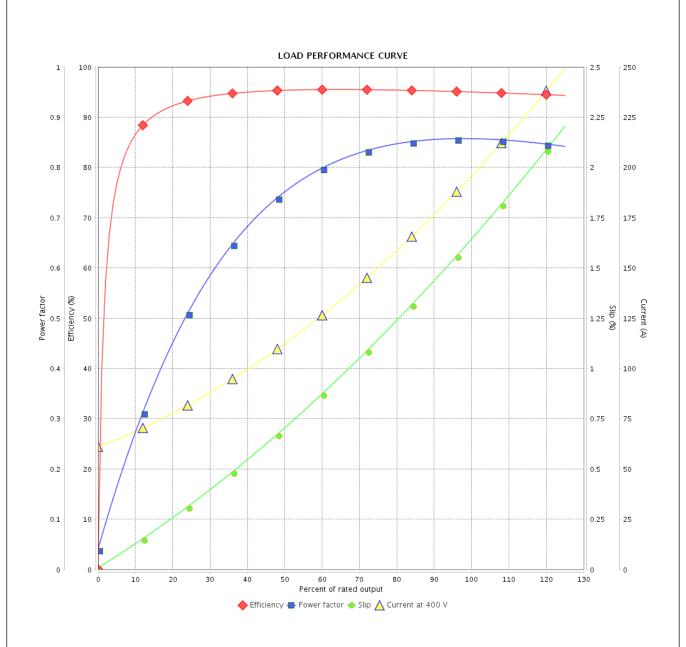
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G

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Performance : 400 V 50 Hz 4P IE2 : 194 A Rated current Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 534 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

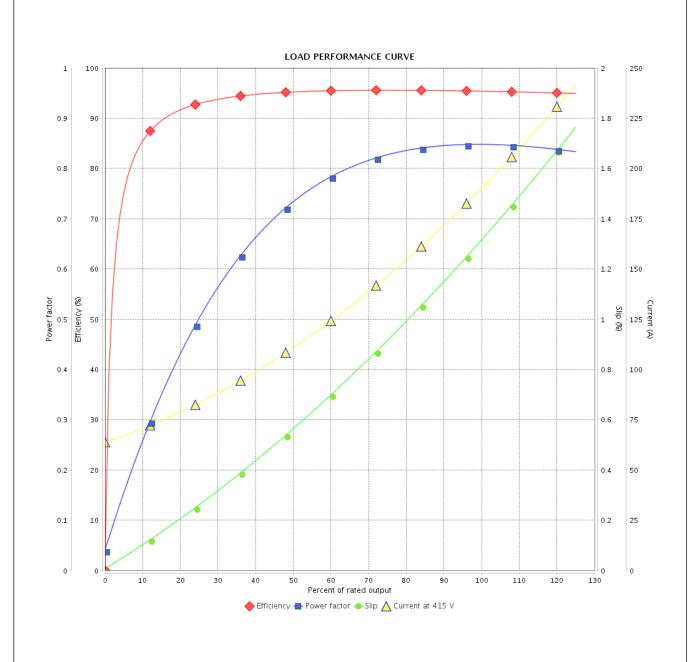


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	ated current : 189 A		Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 6	3.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	532 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	240 %	Temperati	Temperature rise : 105 K		
Rated speed	: 1	1480 rpm	Design		: B	
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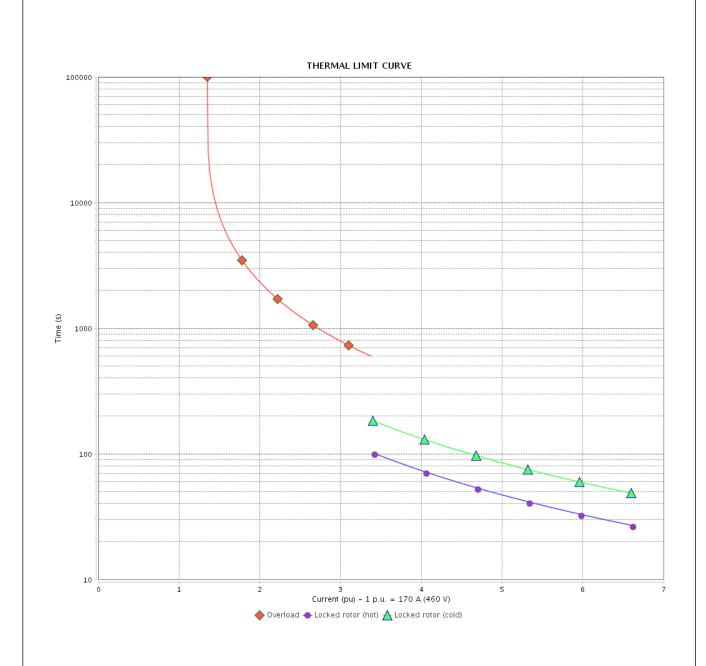


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13693143	
1 Toddot IIITo		Phase				
				Catalog # :	15018ET3E44	15TC-W22G
Performance	:	230/460 V 60 Hz 4P				
Rated current		340/170 A	Moment o	of inertia (J)	: 66.7 sq.ft.lb	
LRC Rated torque		6.6 443 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	200 %	Service fa	ictor	: 1.15	
Breakdown torqu Rated speed		250 % 1780 rpm	Temperate Design	ure rise	: 80 K : B	
		17 00 1pm	Design		. D	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Customer



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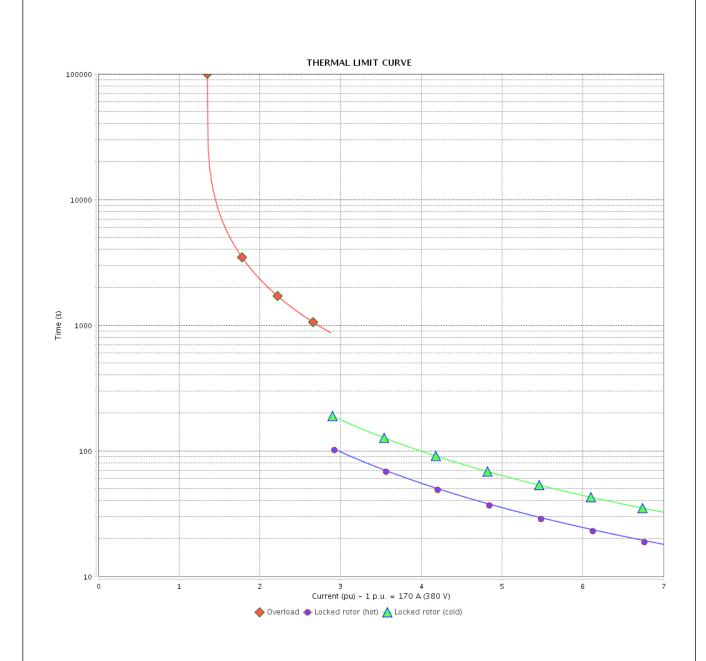


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13693143	
	PI	hase		Catalog # :	15018ET3E44	15TC-W22G
Performance		80 V 50 Hz 4P IE3	T			
Rated current LRC	: 17 : 7.	70 A 0	Moment o Duty cycle	f inertia (J)	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	44 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 40 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		480 rpm	Design	101100	: B	
Heating constant						
Cooling constant						
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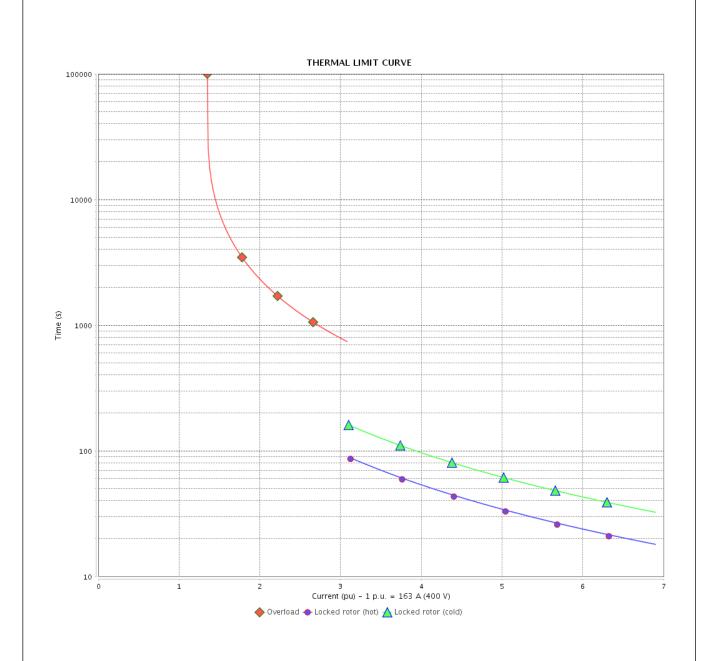


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13693143	
	P	hase		Catalog # :	15018ET3E44	15TC-W22G
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC	: 16 : 6.	63 A o	Moment o	f inertia (J)	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	44 ft.lb	Insulation	class	: F	
Locked rotor torque		20 % 60 %	Service fa		: 1.00	
Breakdown torque Rated speed		480 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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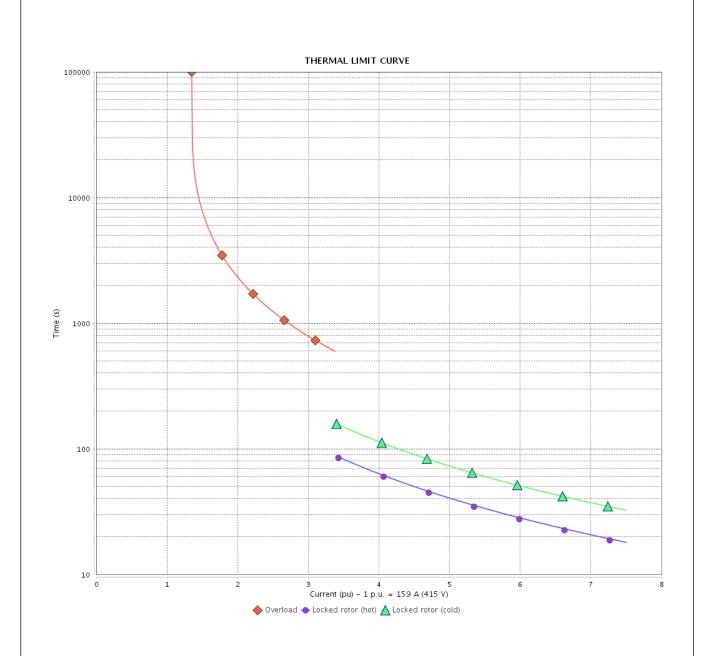


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13693143 15018ET3E44	95TC-W22G
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 159 A : 7.5	Moment of Duty cycle	of inertia (J)	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 444 ft.lb	Insulation	class	: F	
Locked rotor tord		: 229 % : 290 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 1480 rpm	Temperat Design	uie lise	: B	
Heating constan						
Cooling constant	t					
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Customer



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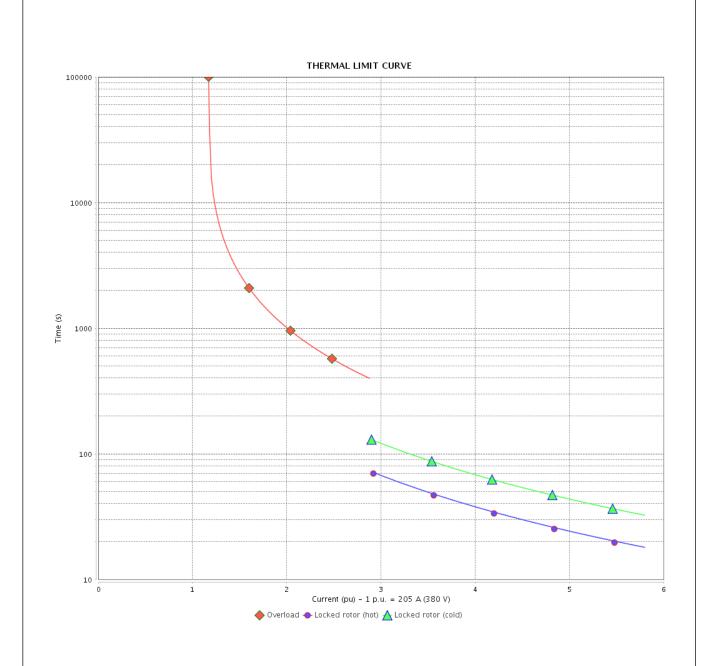


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13693143 15018ET3E44	15TC-W22G
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 205 A : 5.8	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 534 ft.lb : 160 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 100 % : 200 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Cummers		Dorform	Charles	Doto
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

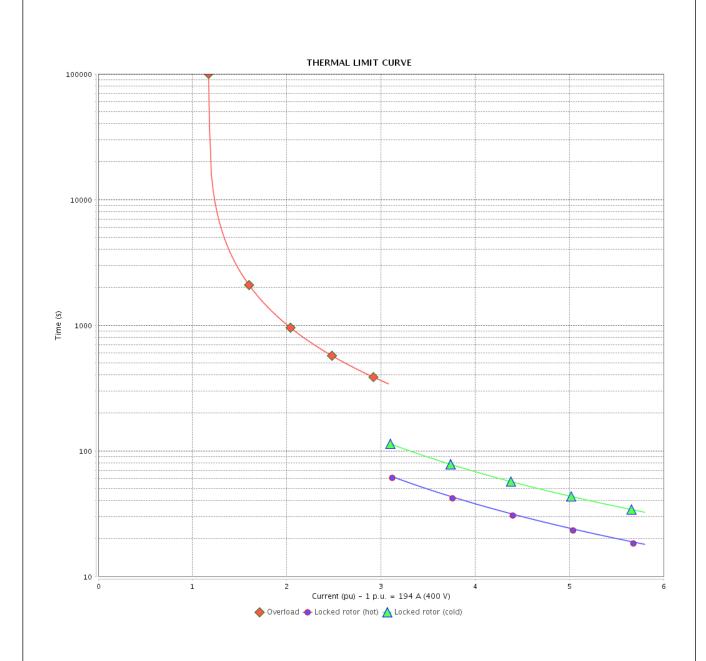


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code :	13693143 15018ET3E4	45TC-W22G
				Catalog # :	15016E13E4	451C-W22G
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: : : : : : : : : : :	400 V 50 Hz 4P IE2 194 A 5.8 534 ft.lb 180 % 220 % 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Customer



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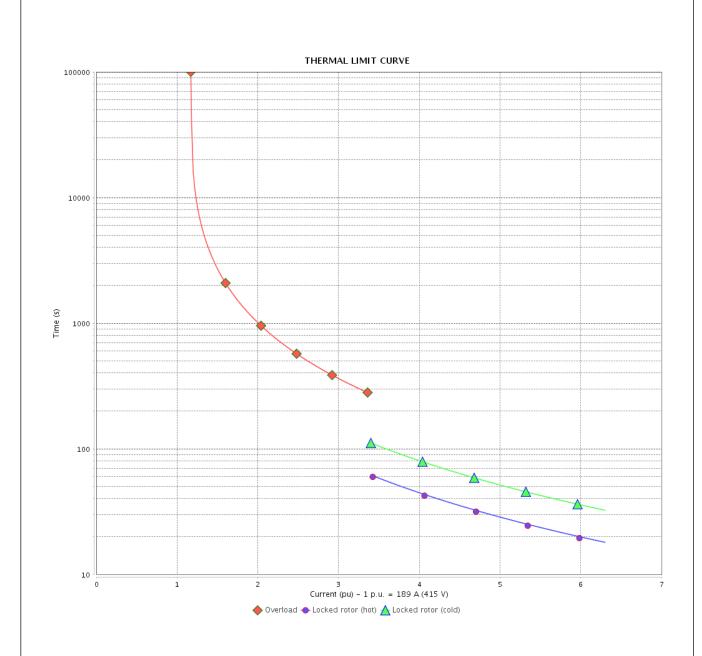


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product coo		445TC-W22G
				_
Performance	: 415 V 50 Hz 4P IE3	M	00.7	
Rated current LRC	: 189 A : 6.3	Moment of inertia (J) Duty cycle	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque	: 532 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 190 % : 240 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 1480 rpm	Design	: B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



Customer



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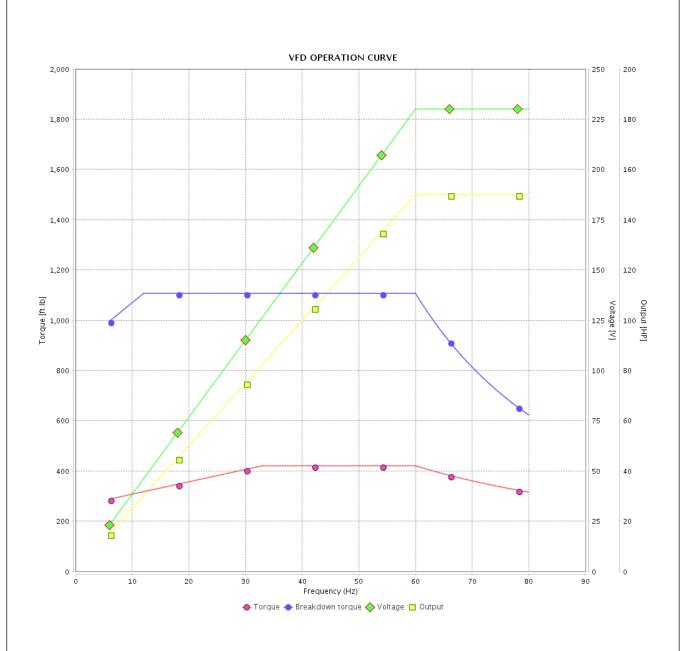
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 340/170 A : 6.6 : 443 ft.lb : 200 % : 250 % : 1780 rpm	Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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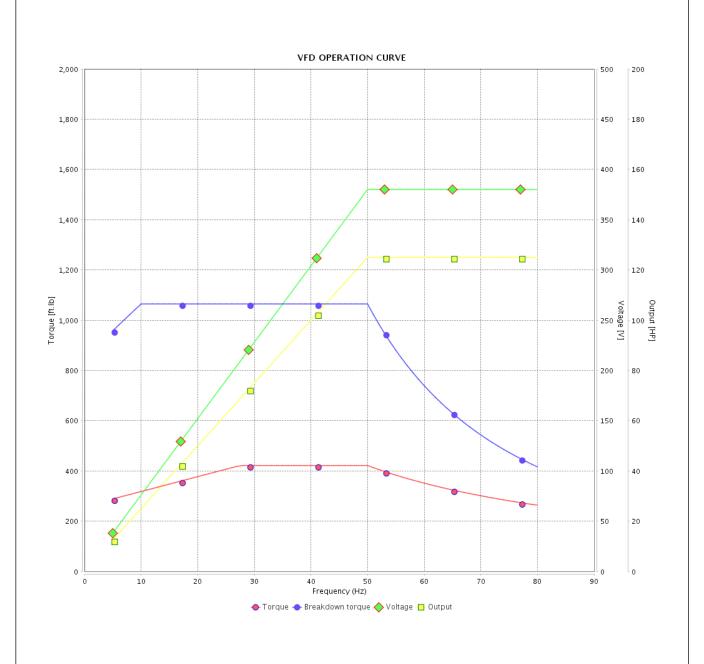


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	: '	170 A	O A Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC	: 7	7.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	144 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : '	190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: ′	1480 rpm	Design		: B	
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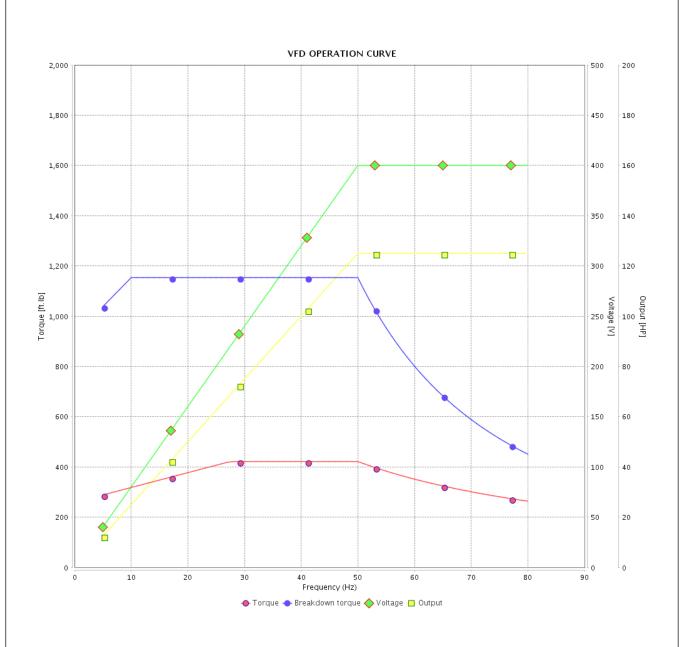
13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G



Performance : 400 V 50 Hz 4P IE3 : 163 A Rated current Moment of inertia (J) : 66.7 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 : 444 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

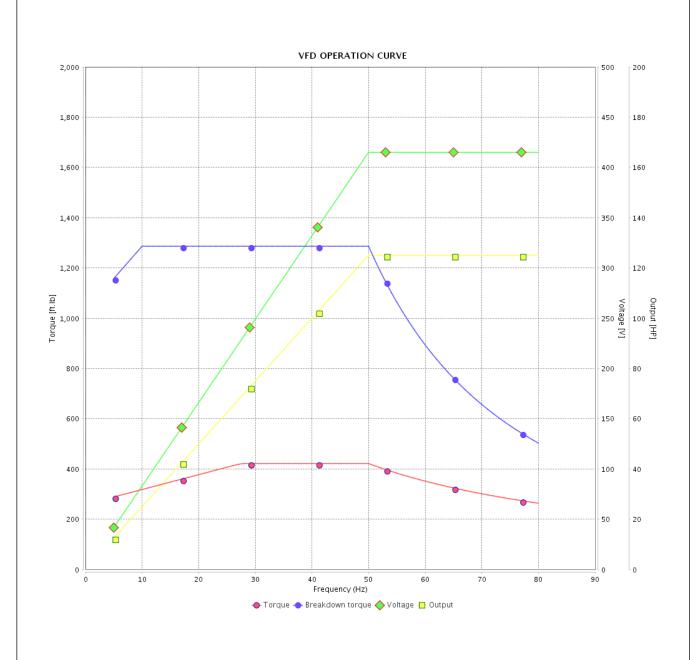
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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13693143



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 159 A : 7.5 : 444 ft.lb : 229 % : 290 % : 1480 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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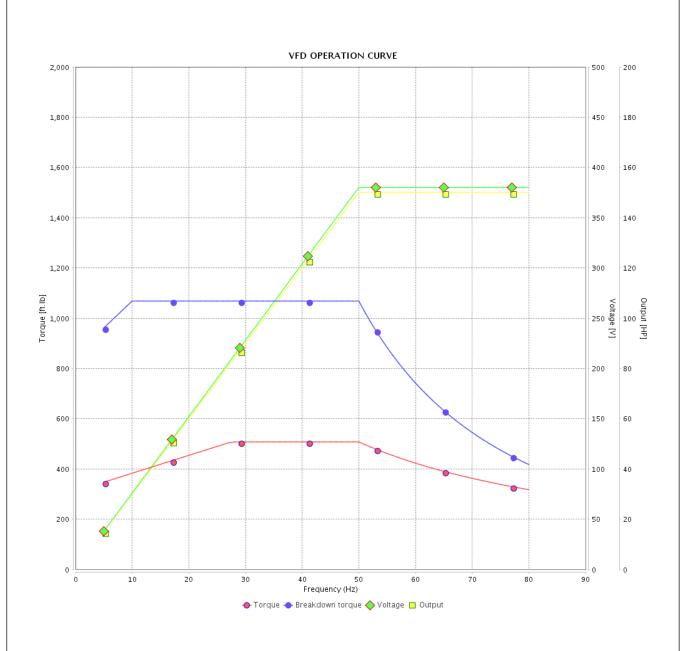
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	:	380 V 50 Hz 4P IE	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	205 A 5.8 534 ft.lb 160 % 200 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

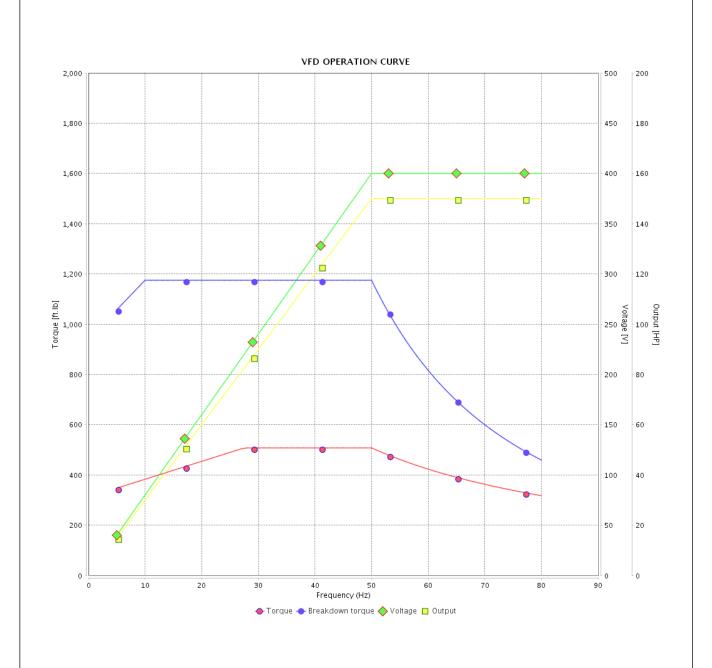


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13693143

Phase

Catalog #: 15018ET3E445TC-W22G



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 1	94 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 5	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	34 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	20 %) % Temperature rise		: 105 K	
Rated speed	: 1	475 rpm	Design		: B	
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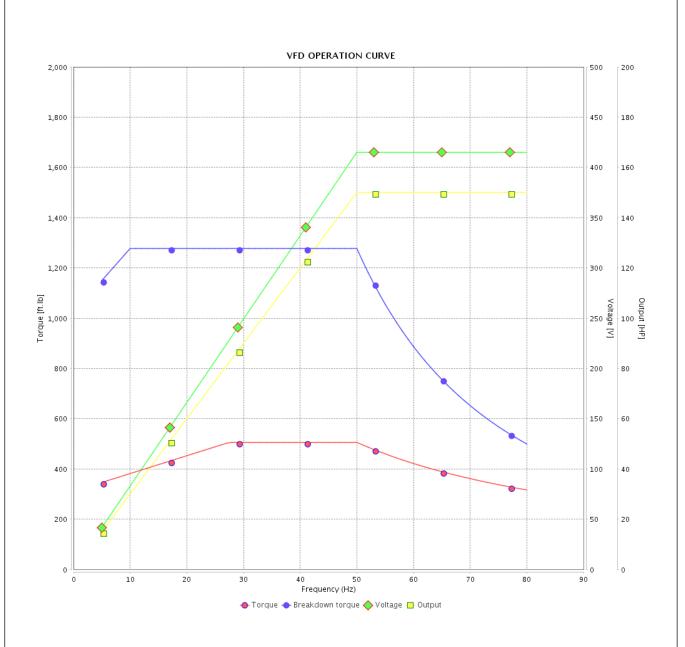
Checked by

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13693143

Catalog #: 15018ET3E445TC-W22G



Performance : 415 V 50 Hz 4P IE3 : 189 A Rated current Moment of inertia (J) : 66.7 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 532 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

