DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11536355

Catalog #: 15018ET3E445T-W22

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1856 lb Protection degree : IP55 Moment of inertia (J) : 66.7 sq.ft.lb

Design	C	: B		MOTTE	iii oi iiieilia (3)	. 0	10.7 Sq.11.10	
Output [HP]		150	125	125	125	150	150	150
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		340/170	170	163	159	205	194	189
L. R. Amperes [A]		2244/1122	1190	1127	1192	1189	1125	1191
LRC [A]		6.6x(Code	7.0x(Code	6.9x(Code	7.5x(Code H)	5.8x(Code F)	5.8x(Code F)	
		Ġ)	Ġ)	Ġ)		, ,	,	Ġ)
No load current [A]	116/58.0	58.0	61.2	64.0	58.0	61.2	64.0
Rated speed [RPN		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 [%]		250	240	260	290	200	220	240
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		48s (cold)	32s (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 level ²		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
Efficiency (%)	50%	95.4	95.1	95.1	94.8	95.4	95.4	95.4
Liliciency (70)	75%	95.8	95.5	95.5	95.5	95.4	95.4	95.4
100%		95.8	95.3	95.3	95.5	95.0	95.0	95.4
	25%	0.49	0.49	0.45	0.43	0.55	0.51	0.49
Power Factor	50%	0.74	0.73	0.70	0.68	0.79	0.76	0.74
I OWEI Facioi	75%	0.82	0.83	0.81	0.79	0.85	0.83	0.82
	100%	0.85	0.86	0.85	0.84	0.86	0.86	0.85

Drive end Non drive end Foundation loads

10000 h

Bearing type 6319 C3 6316 C3 Max. traction : 2477 lb Sealing WSeal WSeal : 4333 lb Max. compression

Lubricant amount 45 g 34 g Lubricant type Mobil Polyrex EM

8000 h

Notes

Lubrication interval

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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Three Phase Induction Motor - Squirrel Cage



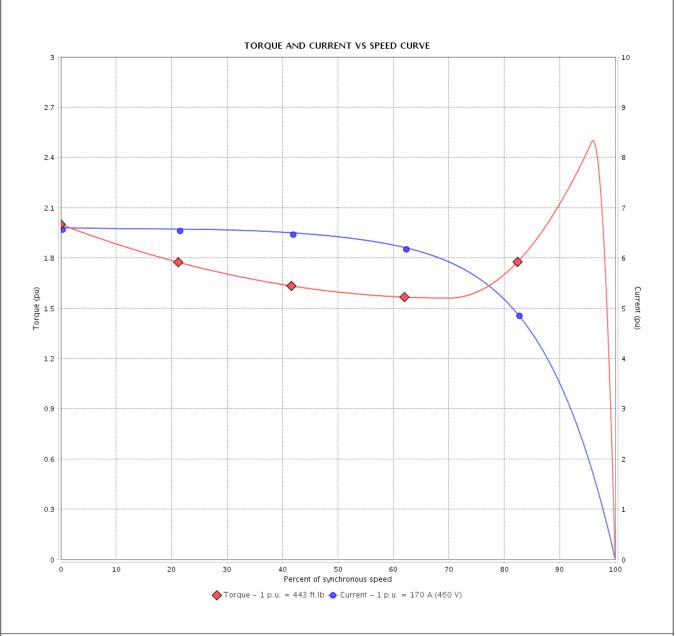
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



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)

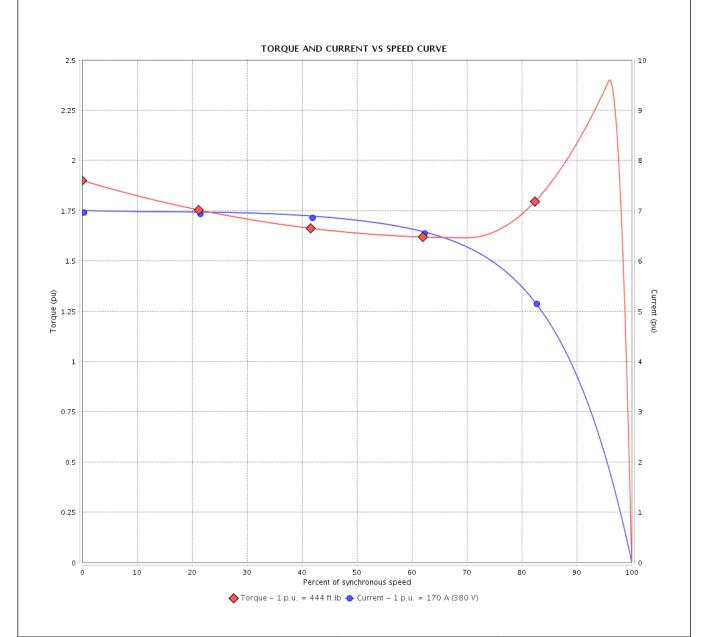
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11536355
Phase Catalog # : 15018ET3E445T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 170 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 444 ft.lb : 190 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

Three Phase Induction Motor - Squirrel Cage

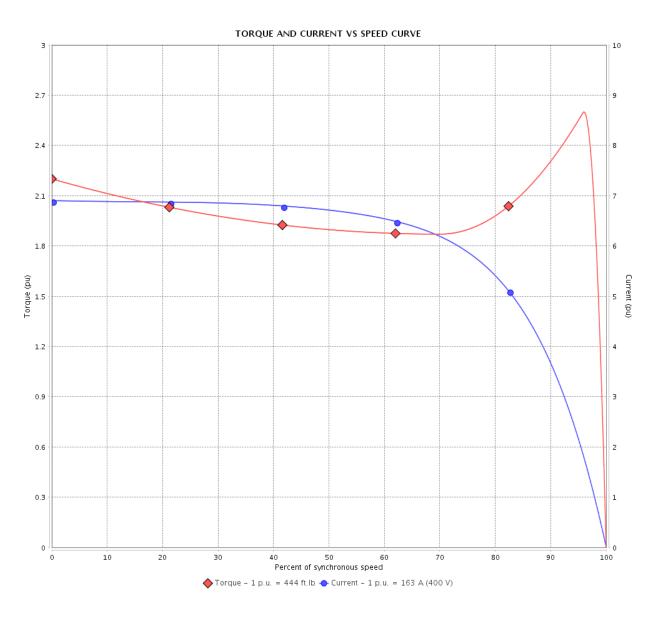


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 15018ET3E445T-W22

11536355



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) Insulation class Rated torque : 444 ft.lb : 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)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11536355 Catalog #: 15018ET3E445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 444 ft.lb ◆ Current - 1 p.u. = 159 A (415 V) 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) Date Performed Checked Rev. **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



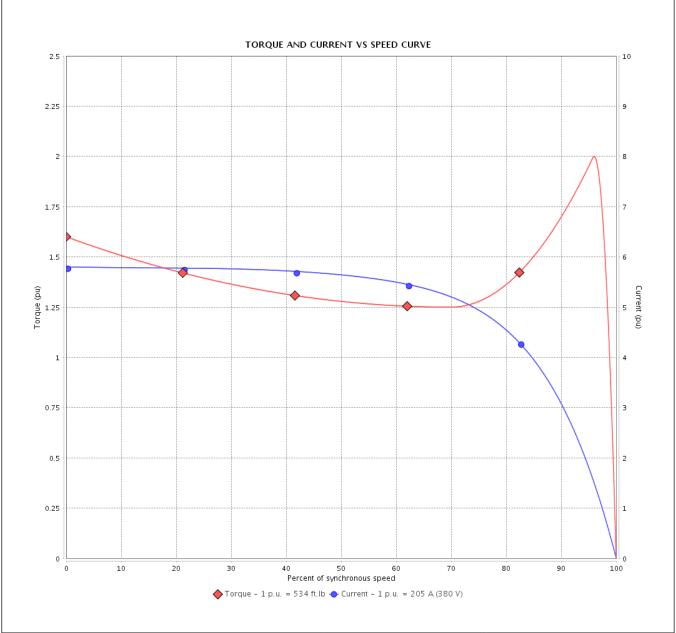
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



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 Service factor Locked rotor torque : 160 % : 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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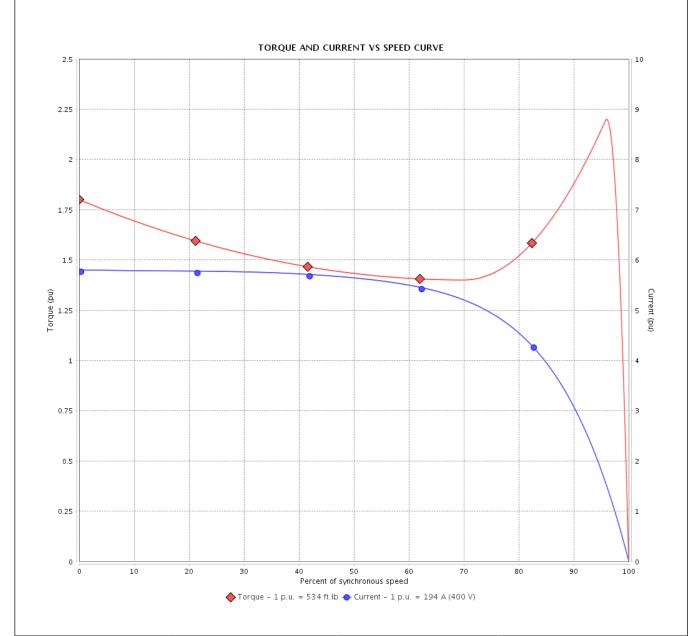


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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11536355
Phase

Catalog #:



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 : F Rated torque : 534 ft.lb : 180 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 1475 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage



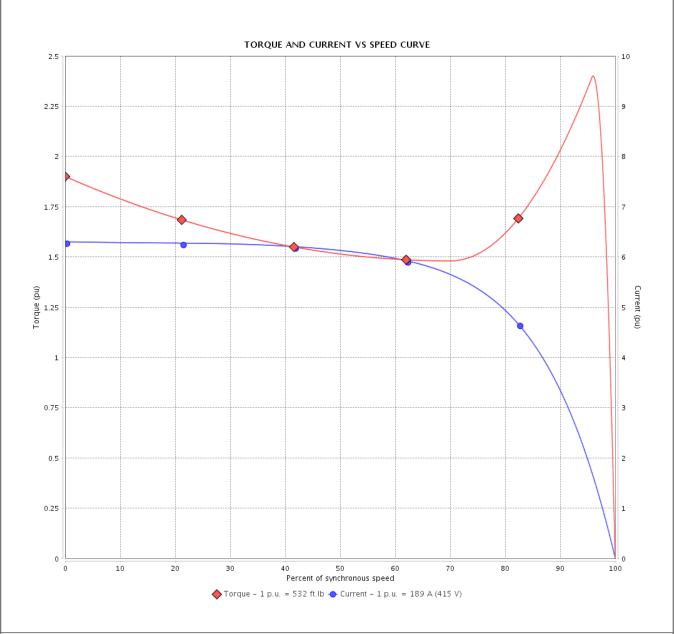
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



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) Insulation class Rated torque : 532 ft.lb : 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)

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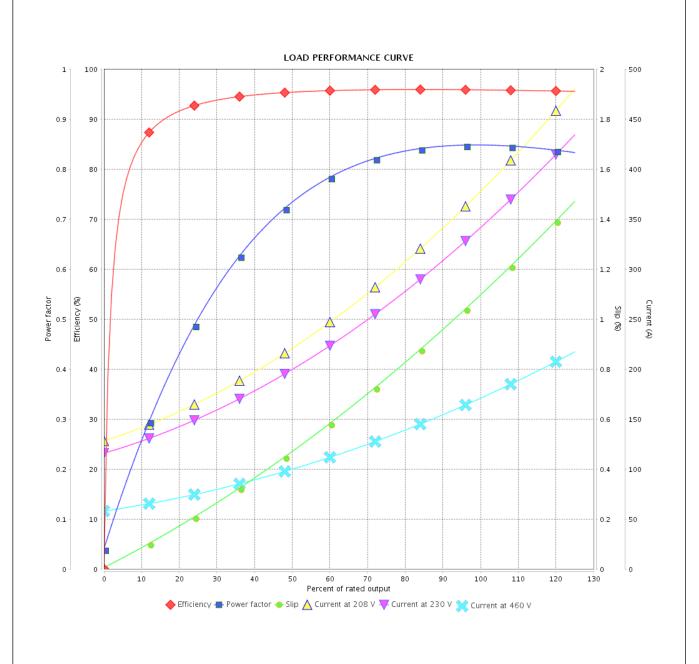


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11536355

Phase

Catalog #: 15018ET3E445T-W22



Performance	: 2	230/460 V 60 Hz 4P	1			
Rated current	::	340/170 A	A Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC	: 6.6 Duty cycle		}	: Cont.(S1)		
Rated torque	: 4	143 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	200 %	Service fa	ctor	: 1.15	
Breakdown torque : 2		250 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1780 rpm	Design		: B	
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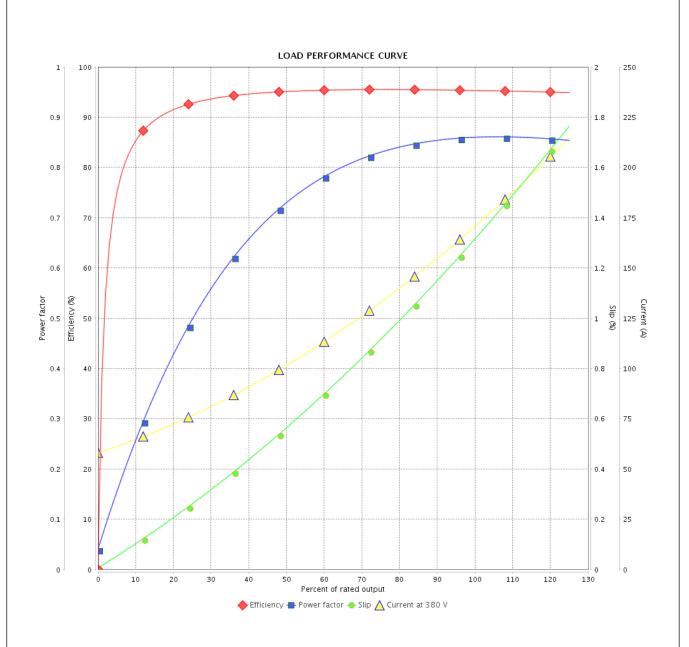
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



Performance	: 380 V 50 Hz 4P IE3				
1 enormance	. 300 V 30 HZ 41 HZ3				
Rated current	: 170 A	Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 444 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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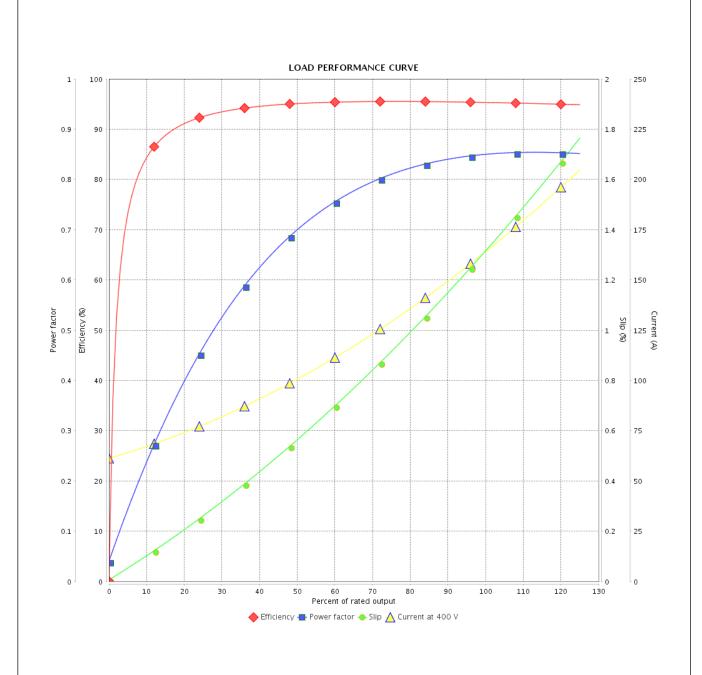
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3E445T-W22

11536355



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 1	63 A	B A Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC	: 6	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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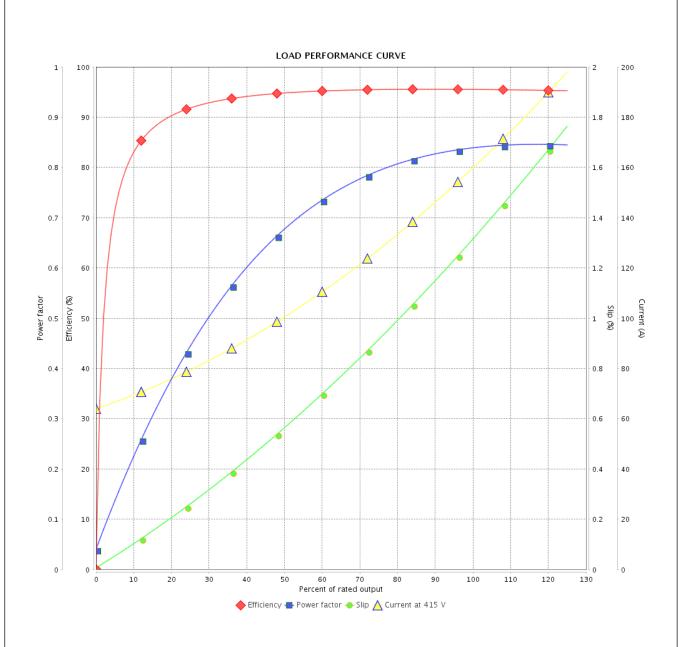
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



5 (445145011 40150	,			
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 159 A : 7.5 : 444 ft.lb : 229 % : 290 %	Moment of incomplete Duty cycle Insulation construction of Service factor Temperature	lass	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1480 rpm	Design		: B	
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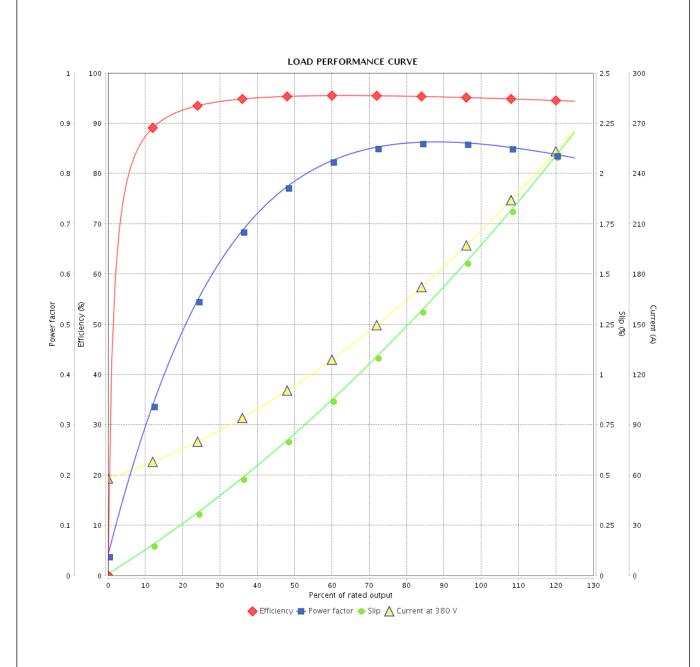


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11536355

Phase

Catalog #: 15018ET3E445T-W22



Performance	: 3	380 V 50 Hz 4P IE2				
Rated current		205 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	534 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	160 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 %		200 %	Temperature rise		: 105 K	
Rated speed	: 1	1475 rpm	Design		: B	
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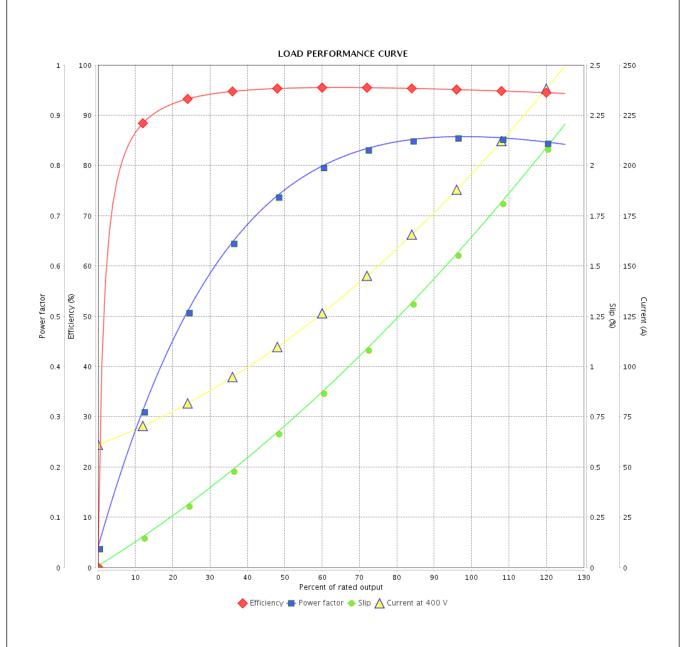
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



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

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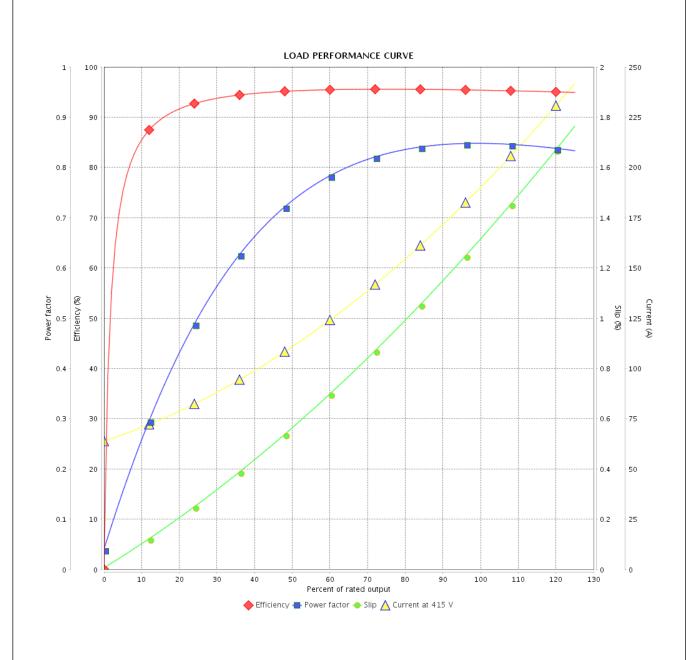
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Product line : NEMA Premium Efficiency Three- Product code : 11536355

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 189 A : 6.3 : 532 ft.lb : 190 % : 240 % : 1480 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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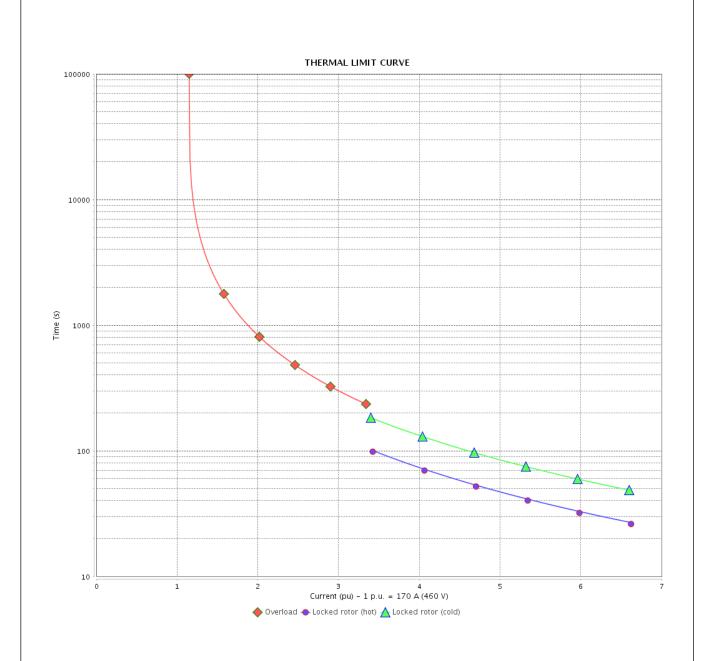


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11536355 15018ET3E44	15T-W22
Performance	: 230/460 V 60 Hz 4P		.		
Rated current LRC Rated torque	: 340/170 A : 6.6 : 443 ft.lb	Duty cycle Insulation	class	: 66.7 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 200 % : 250 % : 1780 rpm	Service fa Temperatu Design		: 1.15 : 80 K : B	
Heating constant	r***				
Cooling constant	Changas Summani		Dorformad	Charled	Doto
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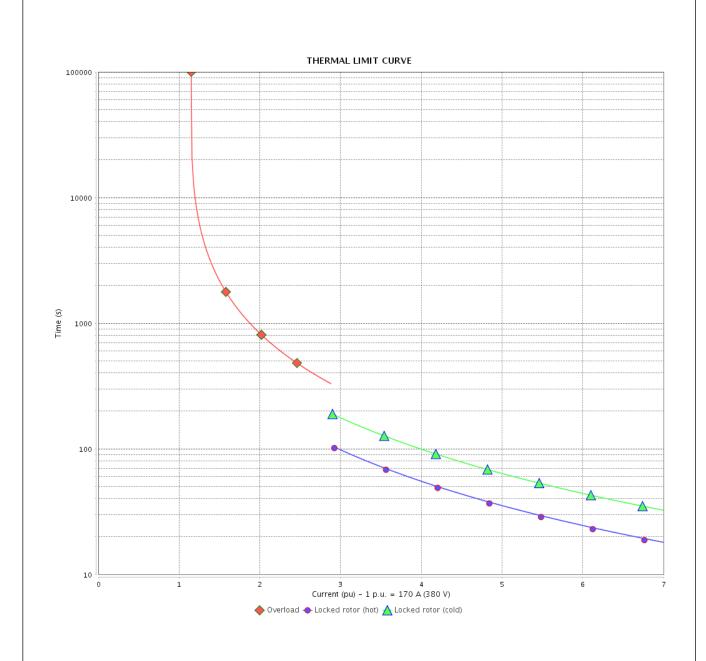


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11536355	
				Catalog # :	15018ET3E44	151-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 170 A	Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC		: 7.0	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 444 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 240 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t					
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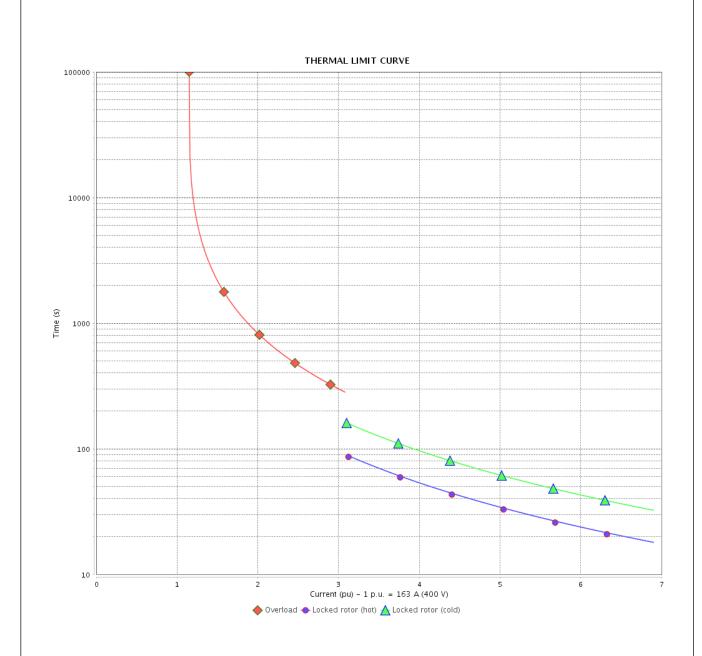


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11536355	
		Catalog # :	15018ET3E44	5T-W22
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC	: 163 A : 6.9	Moment of inertia (J) Duty cycle	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque	: 444 ft.lb : 220 %	Insulation class Service factor	: F : 1.00	
Locked rotor torque Breakdown torque	: 220 % : 260 %	Temperature rise	: 1.00 : 80 K	
Rated speed	: 260 % : 1480 rpm	Design	: 80 K	
Heating constant				
Cooling constant	Ob - 2	5	Oh ! !	D :
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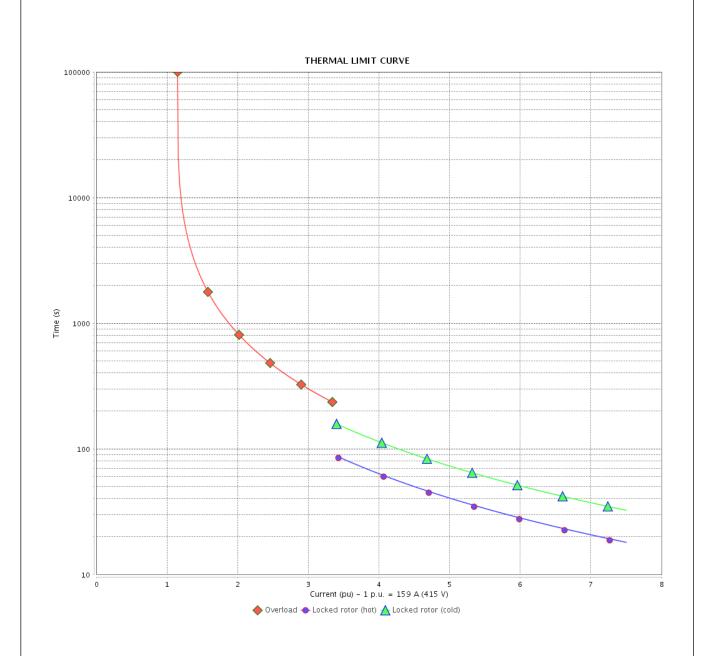


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Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code :	11536355	
			Catalog # :	15018ET3E4	45T-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque	: 159 A : 7.5 : 444 ft.lb : 229 %	Moment of Duty cycle Insulation Service fa	class	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 290 % : 1480 rpm	Temperati Design		: 80 K : B	
Heating constant					
Cooling constant					<u></u>
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Three Phase Induction Motor - Squirrel Cage



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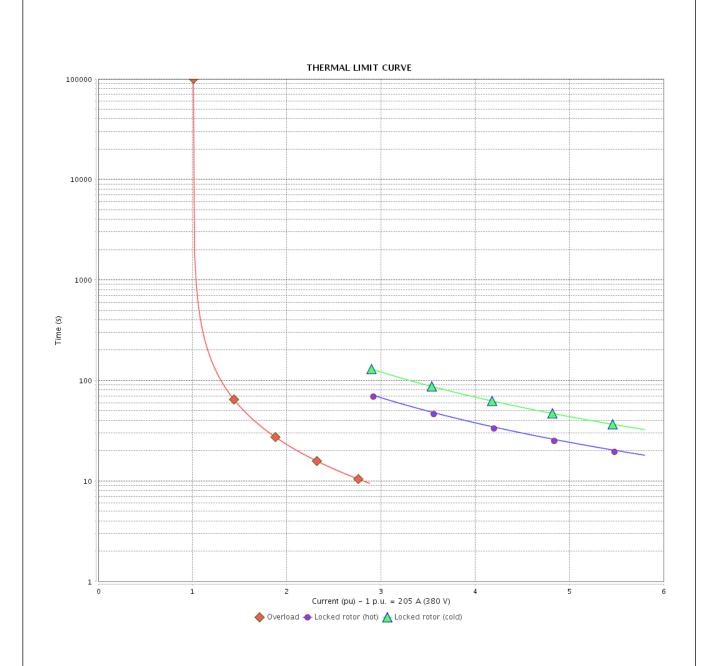


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11536355 15018ET3E44	.5T-W22
				- Catalog // .	1001021021	
Performance		: 380 V 50 Hz 4P IE2	1			
Rated current LRC		: 205 A : 5.8	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 534 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 200 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constan						
Cooling constant	t	Characa Communication		Deut	Ohl !	D-4-
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Three Phase Induction Motor - Squirrel Cage

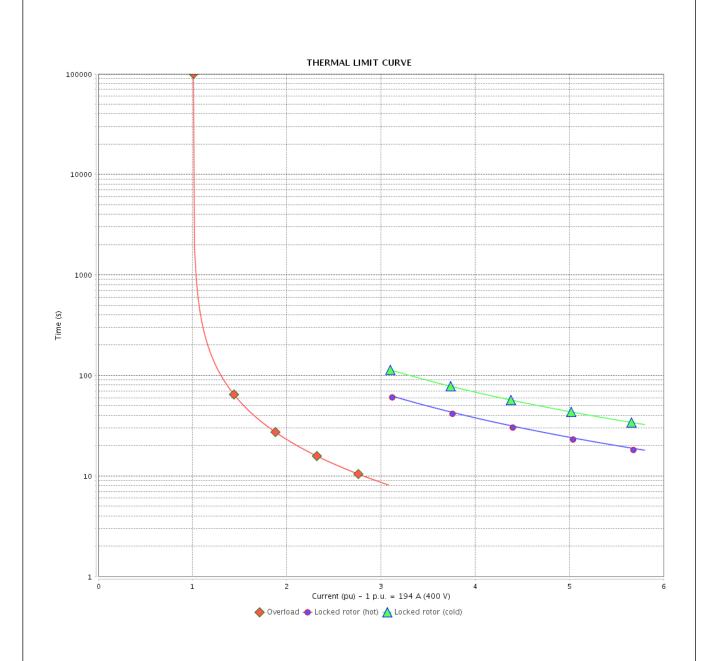


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11536355 15018ET3E44	15T_\W22
					1001021024	7722
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 194 A : 5.8	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 534 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 220 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1475 rpm	Design	· 	: B	
Heating constan					-	
Cooling constant	t	Change - O		De-re-	Ohl l	D-4-
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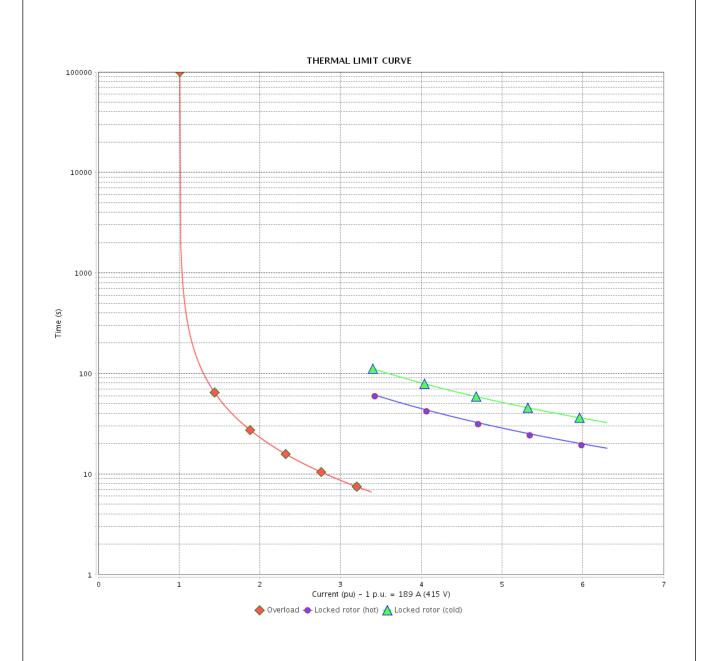


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11536355	
				Catalog # :	15018ET3E44	5T-W22
Performance Rated current		: 415 V 50 Hz 4P IE3 : 189 A	Momont	of inertia (J)	: 66.7 sq.ft lb	
LRC		: 6.3	Duty cycle	е	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 532 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 240 %	Temperat		: 105 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		Do-f	Oh I - I	D-4-
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage



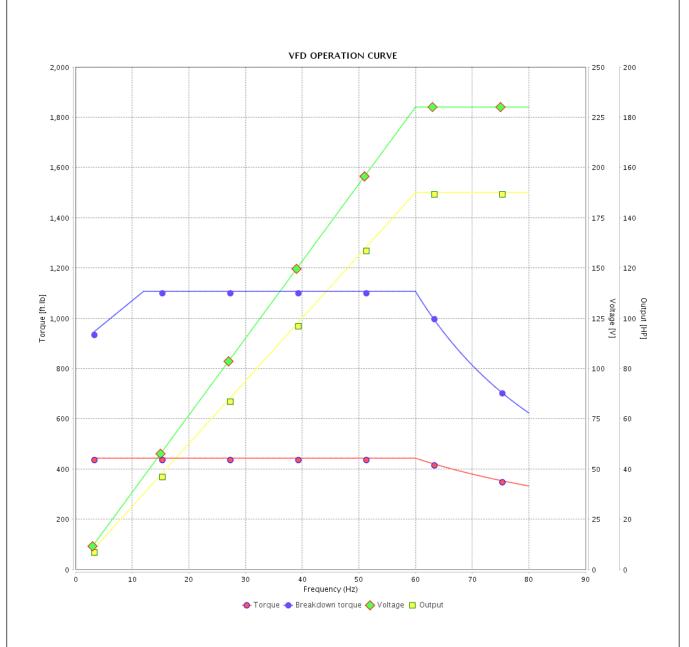
Customer :

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

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22



Performance	:	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	340/170 A 6.6 443 ft.lb 200 % 250 % 1780 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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Three Phase Induction Motor - Squirrel Cage

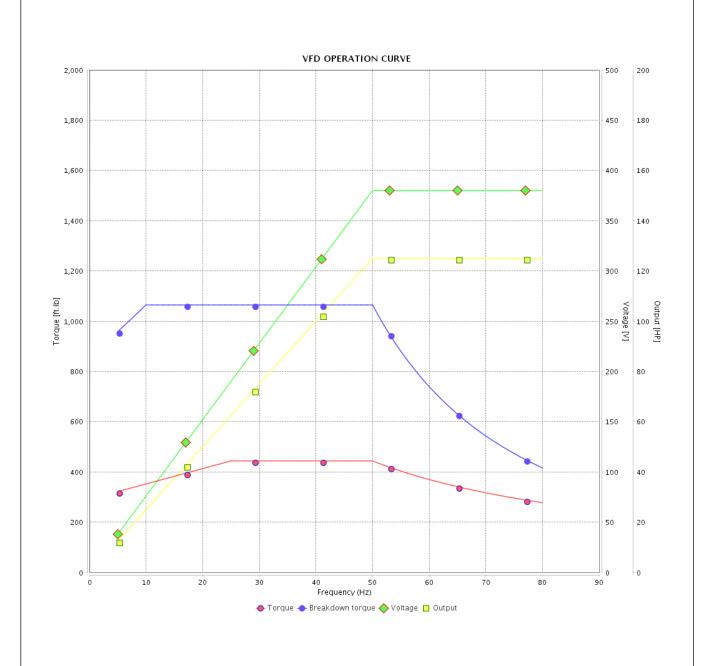


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11536355

Phase

Catalog #: 15018ET3E445T-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	70 A	Moment o	Moment of inertia (J)		
LRC : 7.		.0	Duty cycle	Duty cycle		
Rated torque	: 4	44 ft.lb Insulation class		: F		
Locked rotor torqu	ue : 19	90 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 24	: 240 % Temperatur : 1480 rpm Design		ure rise	: 80 K	
Rated speed	: 14				: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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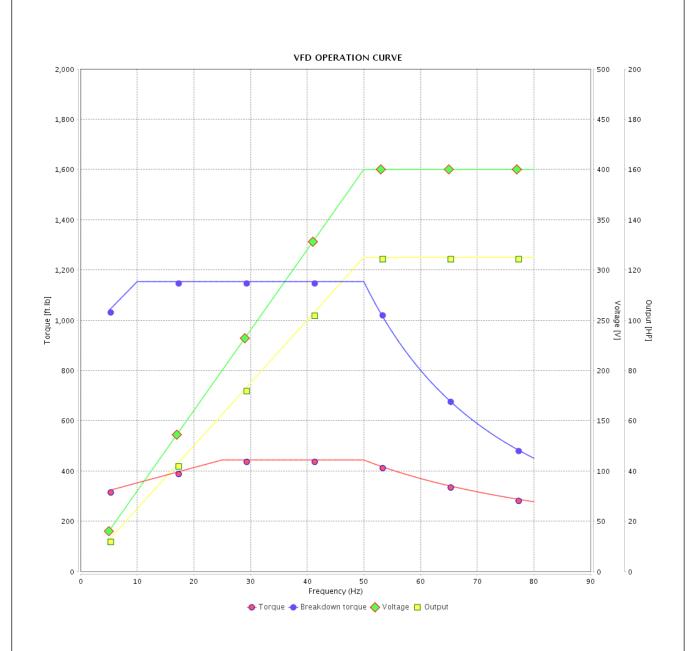
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3E445T-W22

11536355

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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 Rated torque : F 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 Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



Customer

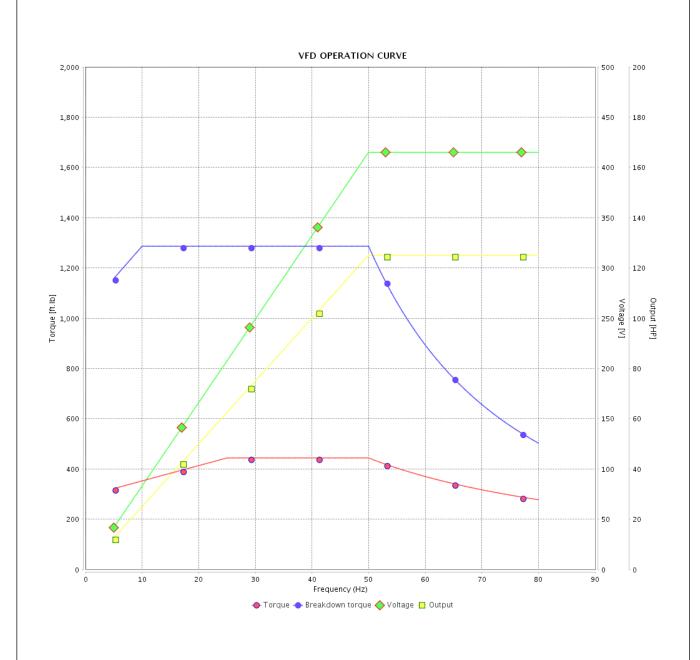
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11536355

Catalog #: 15018ET3E445T-W22

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 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-

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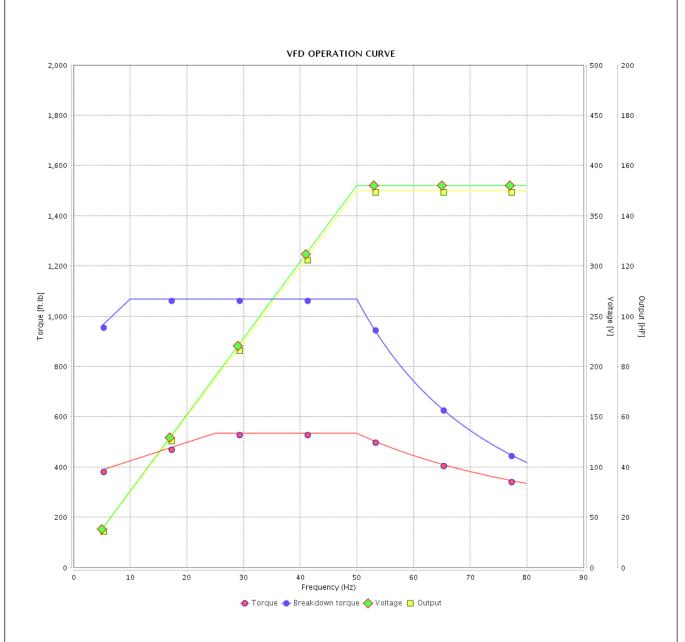
Product code: 11536355

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 205 A : 5.8 : 534 ft.lb : 160 % : 200 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



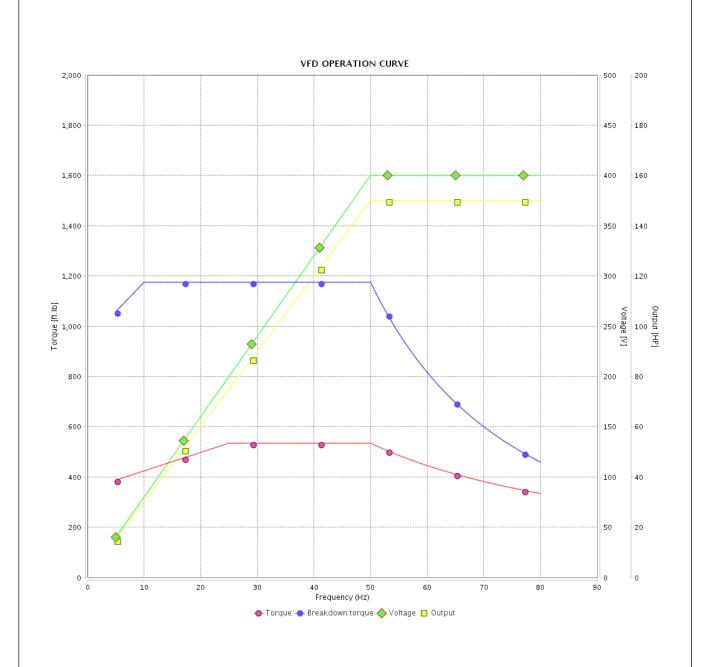
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11536355

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 194 A : 5.8 : 534 ft.lb : 180 % : 220 % : 1475 rpm	Duty cycle : Cont. Insulation class : F Service factor : 1.00		: 1.00 : 105 K	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

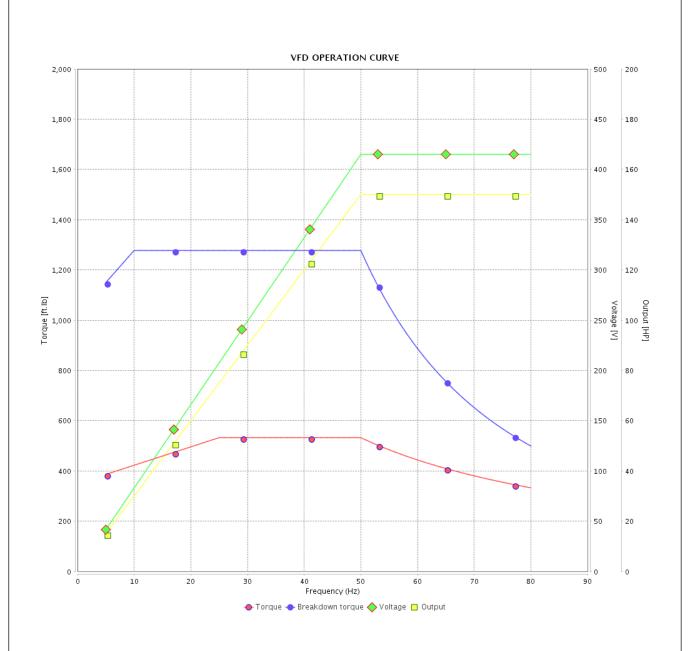
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Performance : 415 V 50 Hz 4P IE3 : 189 A Rated current Moment of inertia (J) : 66.7 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 532 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240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

