DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

Catalog #: 15018ET3GRB445T-W22

Frame : 444/5T 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 : 1860 lb

Protection degre	е	: IP55		Mome	nt of inertia (J)	: 6	6.7 sq.ft.lb	
Design		: B						
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]		460	380	400	415	380	400	415
Rated current [A]		170	170	163	159	205	194	189
L. R. Amperes [A]		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)	6.3x(Code
		G)	G)	G)				G)
No load current [A]	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 torqu	e [%]	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
Lilloleticy (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
Fower Factor	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 : NU-319 C3 6316 C3 Max. traction : 2475 lb Sealing : WSeal WSeal Max. compression : 4335 lb

Lubricant amount : 45 g 34 g Lubricant type : Mobil Polyrex EM

5000 h

_ubricant type : Mobil Poly

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.

Lubrication interval

Notes

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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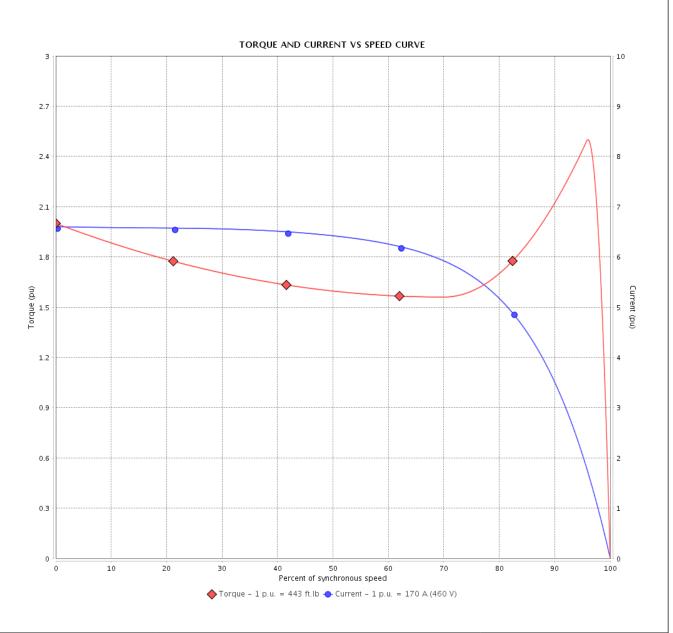
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3GRB445T-W22

11356087



Performance : 460 V 60 Hz 4P Rated current : 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: 11356087 Catalog #: 15018ET3GRB445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 444 ft.lb ◆ Current - 1 p.u. = 170 A (380 V) 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 Rated torque : 444 ft.lb : F : 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) Rev. Performed Checked Date

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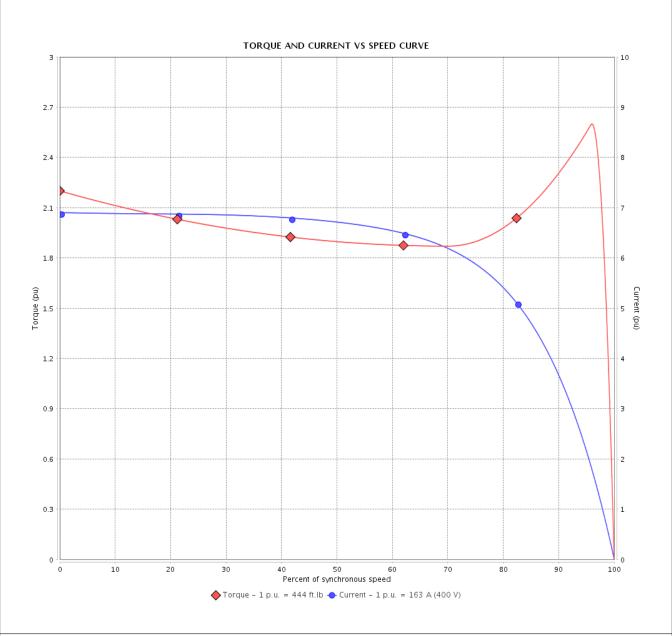
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11356087

Catalog #: 15018ET3GRB445T-W22



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: 11356087 Catalog #: 15018ET3GRB445T-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** Performed by

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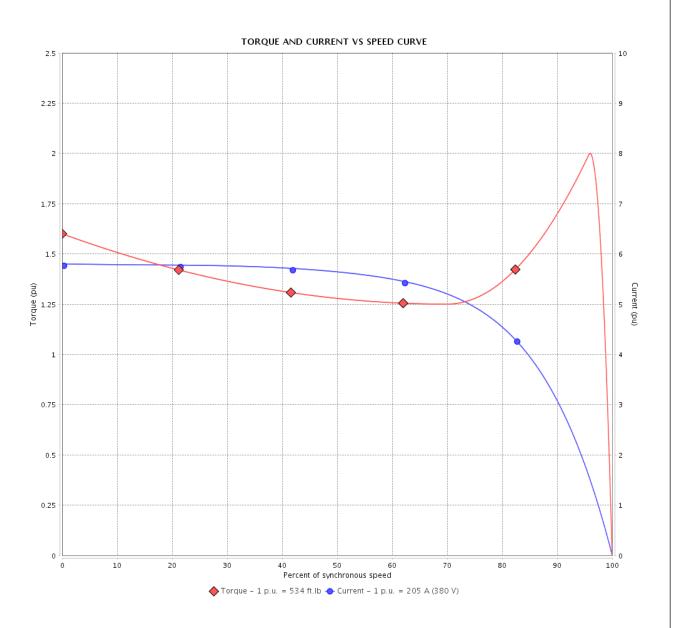


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

Catalog #: 15018ET3GRB445T-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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11356087 Catalog #: 15018ET3GRB445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 534 ft.lb ◆ Current - 1 p.u. = 194 A (400 V) 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) Rev. Performed Checked Date **Changes Summary**

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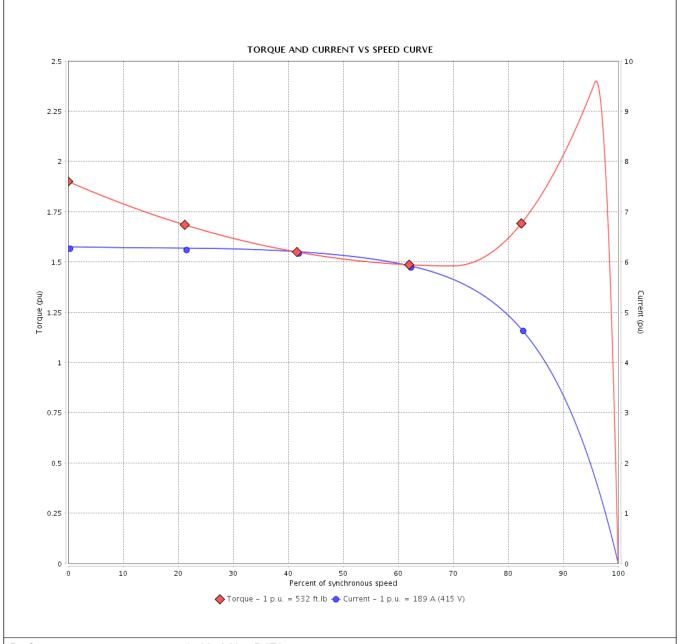
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356087

Catalog #: 15018ET3GRB445T-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 Service factor Locked rotor torque : 190 % : 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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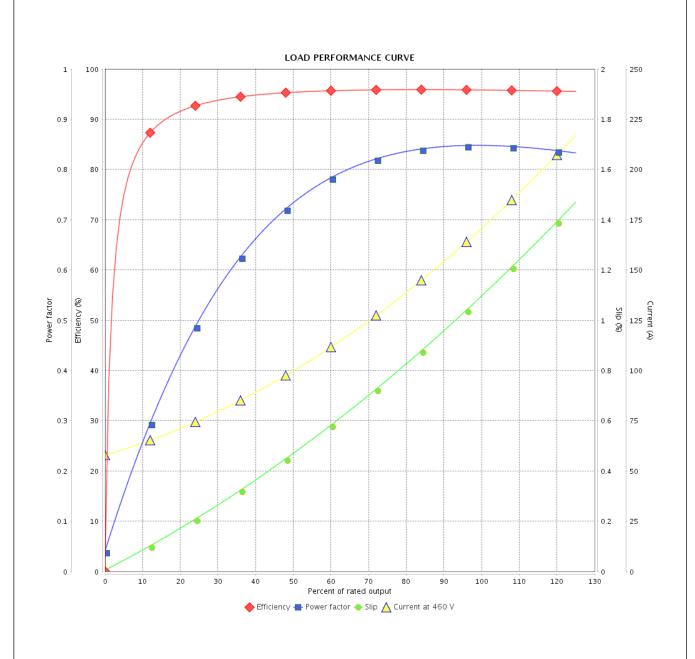
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Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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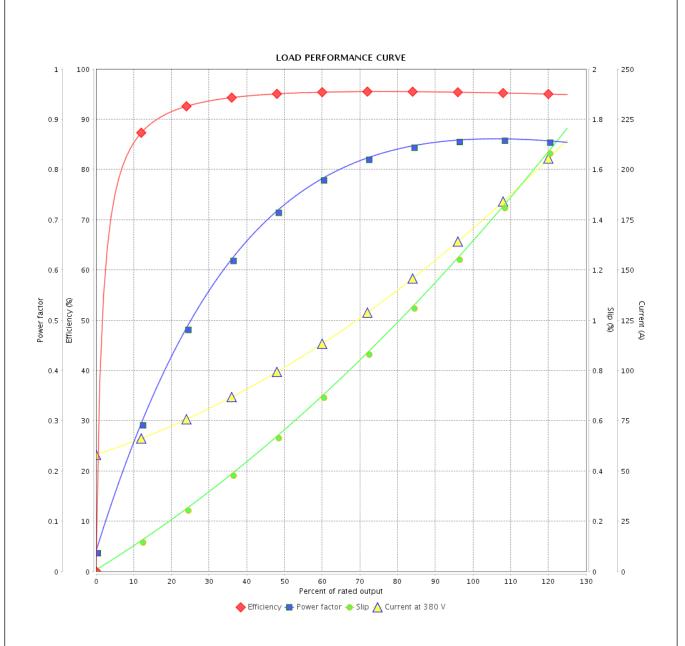
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356087

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170 A : 7.0 : 444 ft.lb : 190 % : 240 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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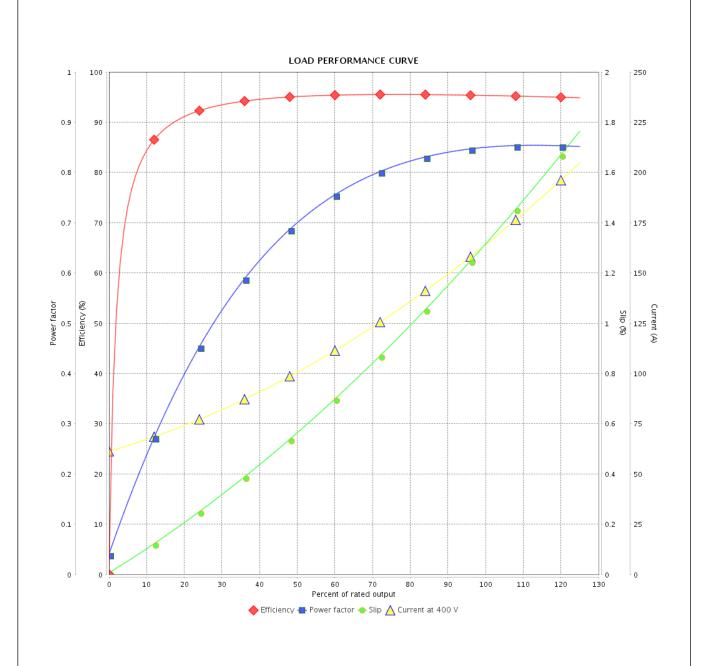


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Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

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Performance	: 4	00 V 50 Hz 4P IE3				
Rated current		63 A	Moment of inertia (J)		: 66.7 sq.ft.lb	
		5.9	Duty cycle		: Cont.(S1)	
Rated torque : 4		44 ft.lb	Insulation	class	: F	
•		20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 1	480 rpm	0 rpm Design		: B	
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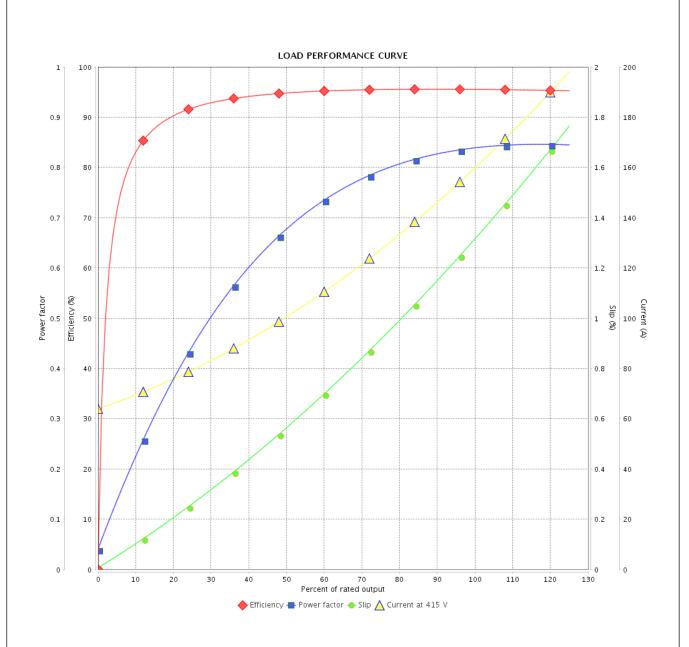
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	·			
Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 159 A : 7.5 : 444 ft.lb : 229 % : 290 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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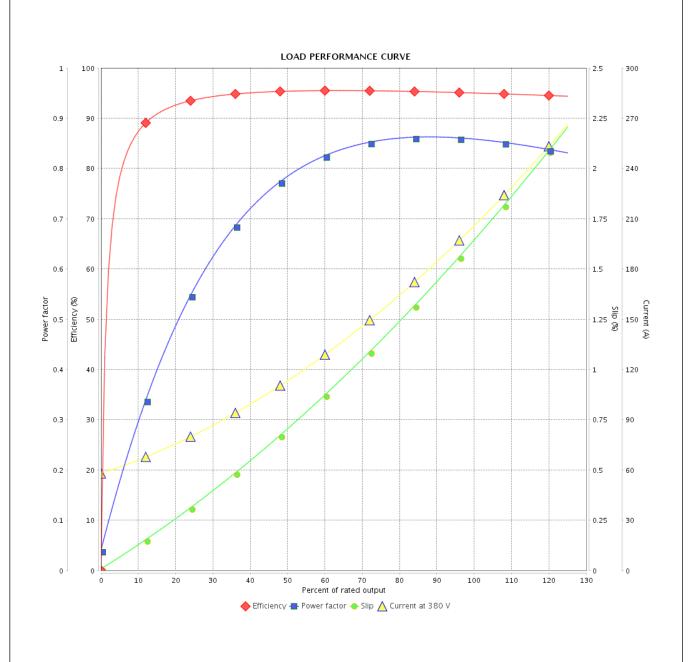


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

Catalog #: 15018ET3GRB445T-W22



Performance	: 3	80 V 50 Hz 4P IE2				
Rated current		05 A	05 A Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC :		5.8	Duty cycle		: Cont.(S1)	
Rated torque : !		34 ft.lb	Insulation	class	: F	
Locked rotor torque		60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperature rise		: 105 K	
Rated speed	: 1	475 rpm Design		: B		
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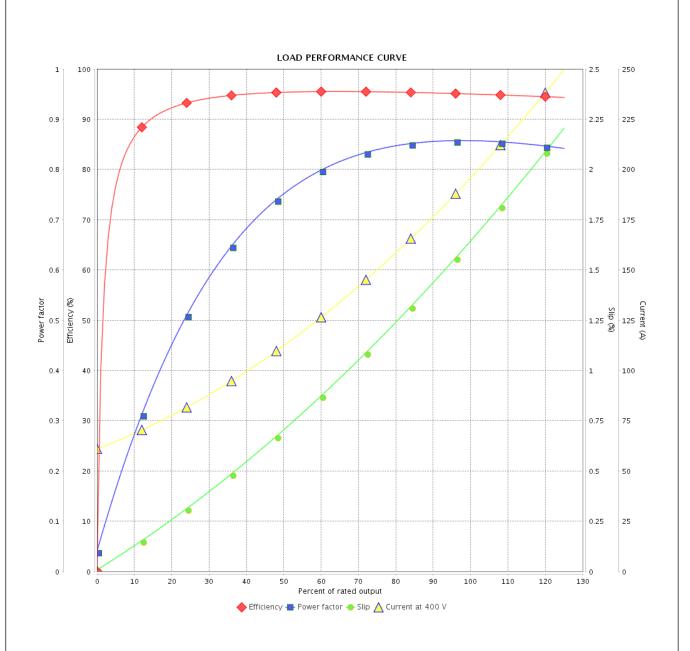
Product line : NEMA Premium Efficiency Three-

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	Moment of a Duty cycle Insulation c Service fact Temperatur Design	lass	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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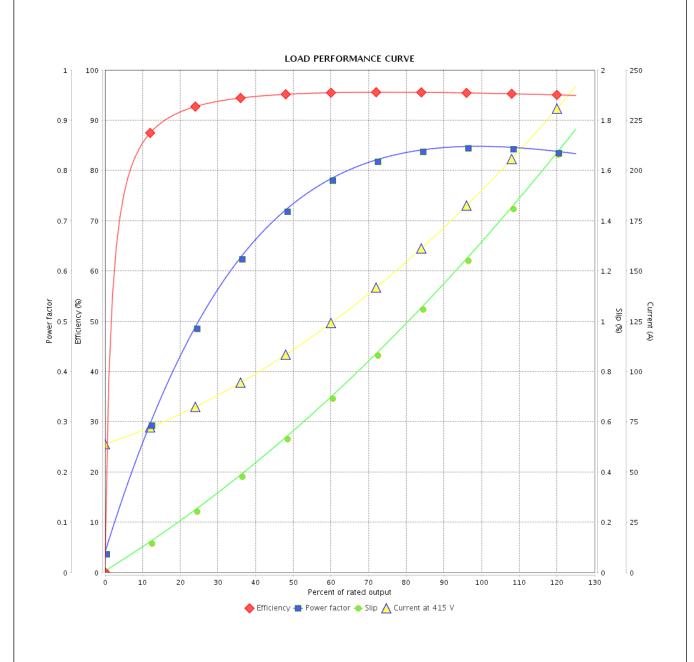


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

Catalog #: 15018ET3GRB445T-W22



Performance : 415 V 50 Hz 4P IE3						
Rated current : 189 A		Moment o	f inertia (J)	: 66.7 sq.ft.lb		
LRC	: 6	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	32 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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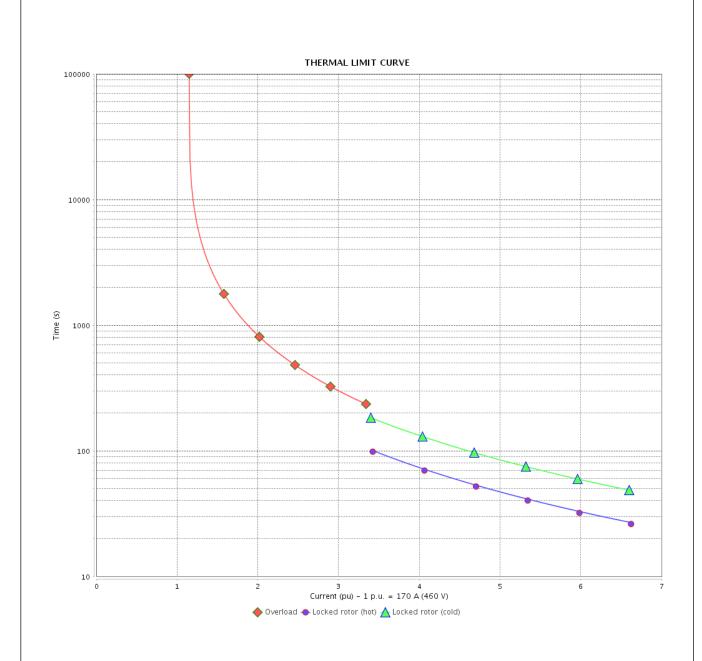


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356087 15018ET3GR	B445T-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 170 A : 6.6	Moment of Duty cycle	of inertia (J)	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 443 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 250 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1780 rpm	Design	uro 1100	: B	
Heating constan						
Cooling constant	t					
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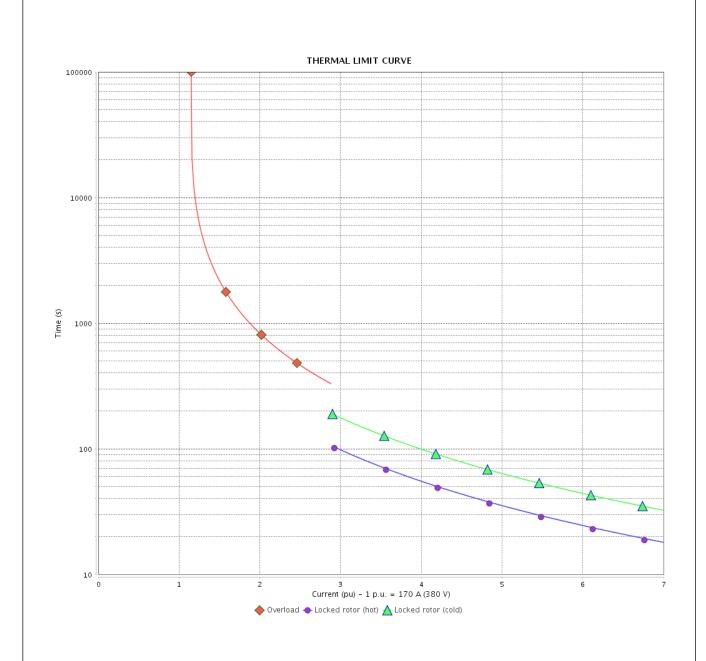


Customer		:			·	
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11356087 15018ET3GF	RB445T-W22
Performance		380 V 50 Hz 4P IE3				
Rated current		170 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	:	7.0	Duty cycle	•	: Cont.(S1)	
Rated torque		444 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		190 % 240 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		1480 rpm	Design	2.01100	: B	
Heating constan					,	
Cooling constant	t .	01 0				
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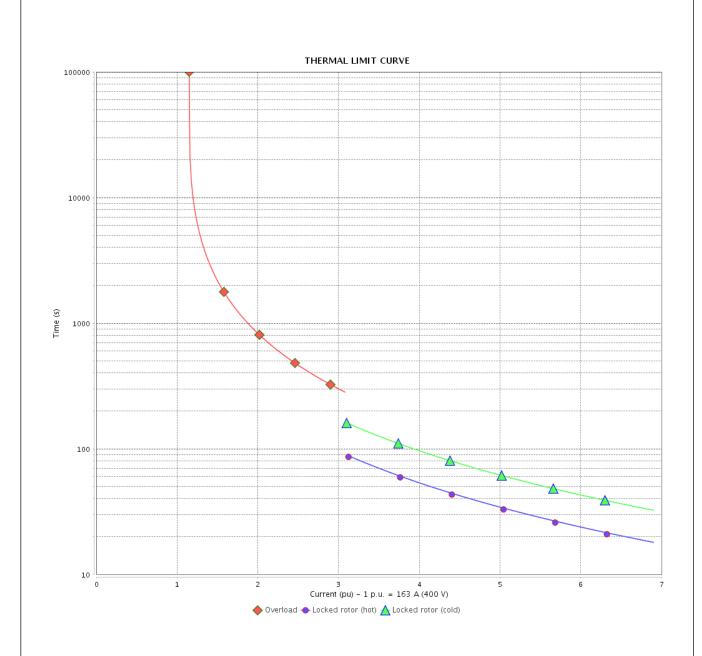


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11356087	
	-	Catalog #:	15018ET3GR	B445T-W22
Performance	: 400 V 50 Hz 4P IE3	1		
Rated current LRC	: 163 A : 6.9	Moment of inertia (J)	: 66.7 sq.ft.lb	
Rated torque	: 6.9 : 444 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1480 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant		<u> </u>		
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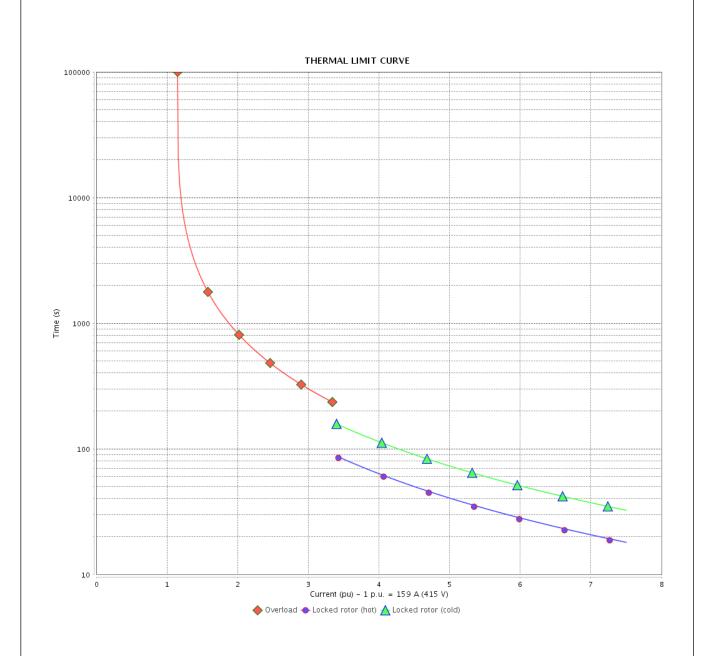


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three- I	Product code :	11356087	
			(Catalog # :	15018ET3GR	B445T-W22
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7. : 44 e : 22 : 29	44 ft.lb 29 % 90 %	Duty cycle Insulation Service far Temperatu	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 14 	480 rpm	Design		: B	
Heating constant						
Cooling constant						
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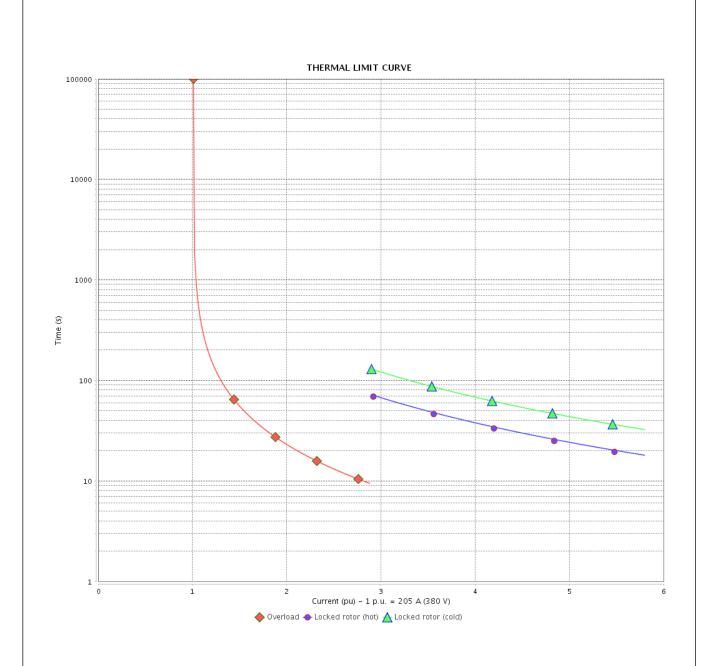


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11356087 15018ET3GR	B445T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 4P IE2 : 205 A : 5.8 : 534 ft.lb : 160 % : 200 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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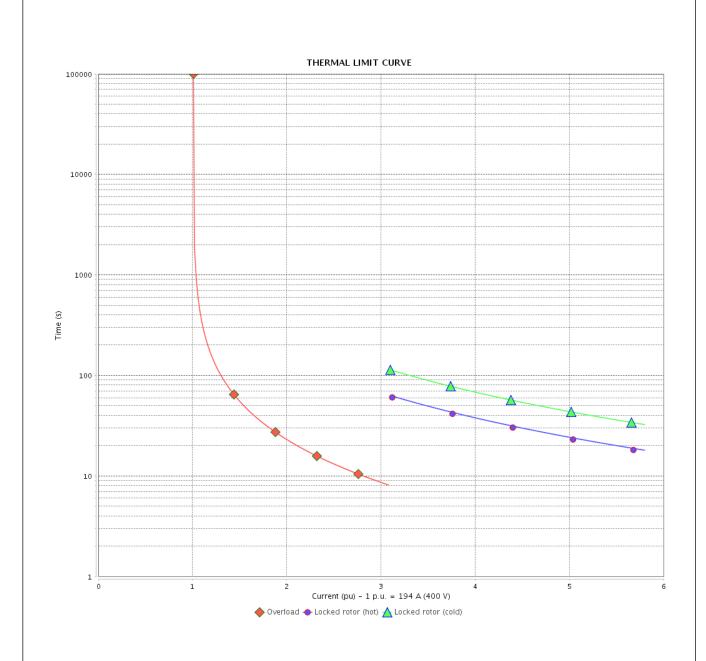


Customer		:			·	
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11356087 15018ET3GF	RB445T-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : : que :	400 V 50 Hz 4P IE2 194 A 5.8 534 ft.lb 180 % 220 % 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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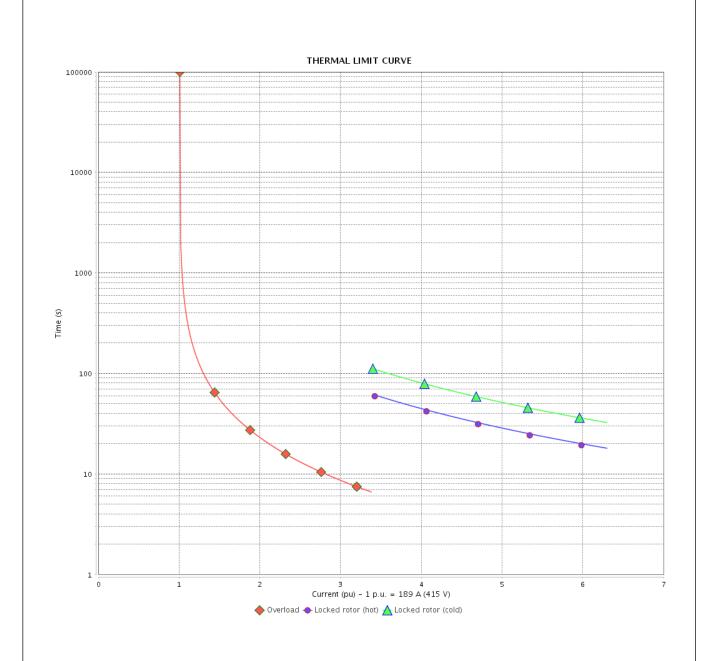


		<u>'</u>				
Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11356087	
		Tidoc		Catalog # :	15018ET3G	RB445T-W22
Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que :	189 A 6.3 532 ft.lb 190 % 240 % 1480 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	
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Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

Phase

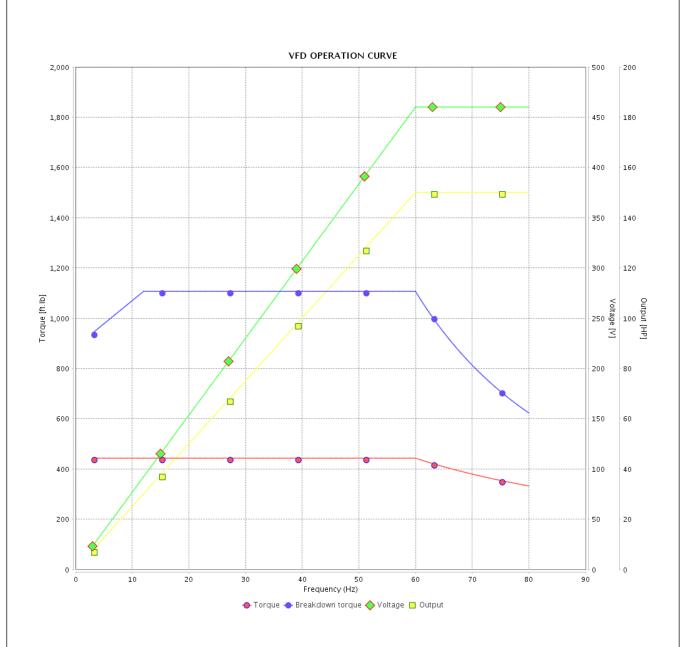
Product code: 11356087

Catalog #: 15018ET3GRB445T-W22

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

Three Phase Induction Motor - Squirrel Cage

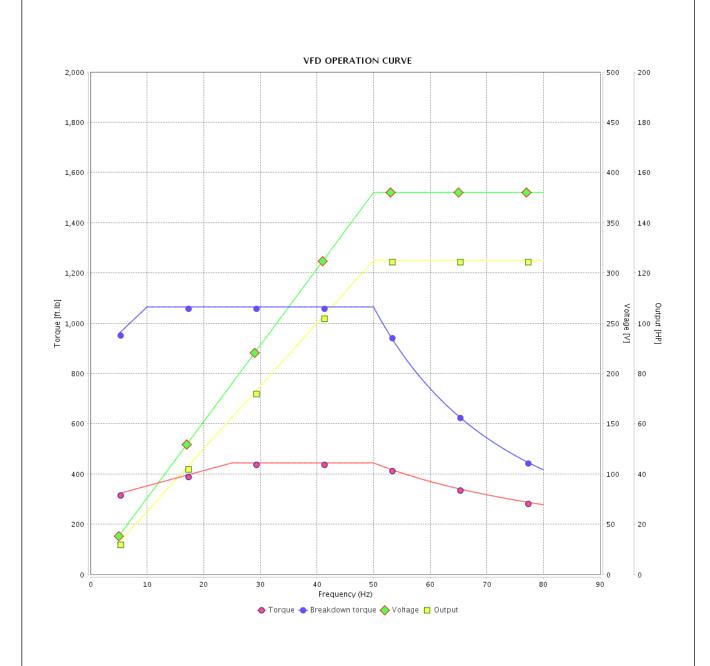


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356087

Phase

Catalog #: 15018ET3GRB445T-W22



Performance	: 38	30 V 50 Hz 4P IE3					
Rated current		70 A	Moment o	Moment of inertia (J)			
LRC : 7		0	Duty cycle	Duty cycle			
Rated torque :		14 ft.lb	Insulation	Insulation class			
		90 %	Service fa	Service factor			
Breakdown torque	: 24	10 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 14	80 rpm Design		: B			
Rev.		Changes Summar	ry	Performed	Checked	Date	
Performed by							
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

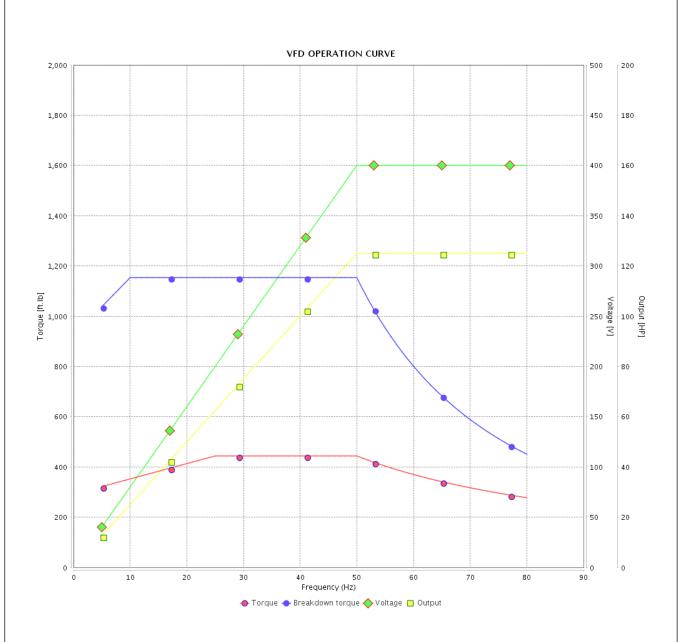
Product code: 11356087

Catalog # : 15018ET3GRB445T-W22

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Revision



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 44 ue : 22 e : 26	53 A 9 14 ft.lb 20 % 60 % 480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 66.7 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
Rev.	Rev. Changes Summ		/	Performed	Checked	Date
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Performed by						

Three Phase Induction Motor - Squirrel Cage



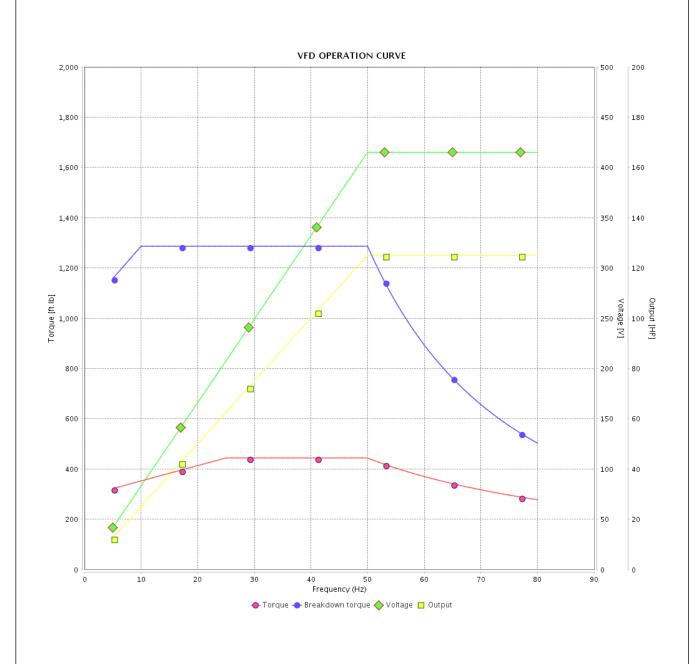
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3GRB445T-W22

11356087



Performance : 4		15 V 50 Hz 4P IE3					
Rated current : 15		59 A	Moment of	Moment of inertia (J)			
LRC : 7.5		5	Duty cycle		: Cont.(S1)		
Rated torque : 44		14 ft.lb			: F		
Locked rotor torque : 22		29 %	Service factor		: 1.00		
Breakdown torque : 2		90 %	Temperati	Temperature rise		: 80 K	
Rated speed : 14		480 rpm	Design		: B		
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Performed by							
Checked by					Page	Revision	
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Three Phase Induction Motor - Squirrel Cage



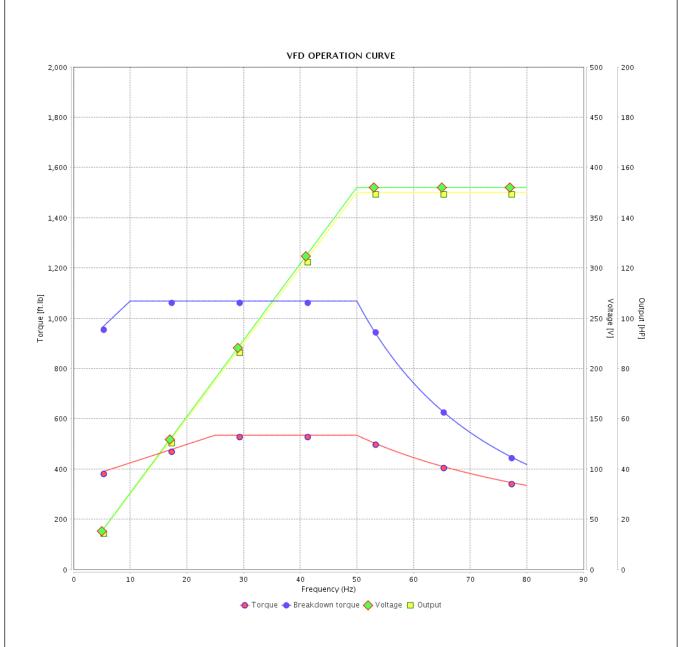
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356087

Catalog #: 15018ET3GRB445T-W22



Performance : 380 V 50 Hz 4P IE2 : 205 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 : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary**

Three Phase Induction Motor - Squirrel Cage



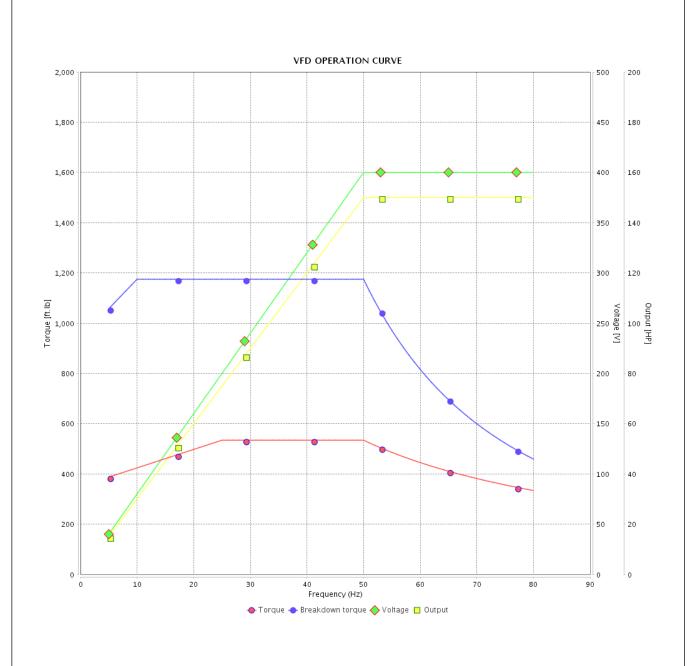
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 15018ET3GRB445T-W22

11356087



Performance	: 4	100 V 50 Hz 4P IE2					
Rated current		194 A	Moment o	Moment of inertia (J)			
LRC :		5.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque :		534 ft.lb	Insulation	Insulation class		:F	
Locked rotor torque		180 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	220 %	Temperati	Temperature rise		: 105 K	
Rated speed		1475 rpm	Design	Design			
Rev.		Changes Summary	Performed		Checked	Date	
Performed by							
Checked by					Page	Revision	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- P

Phase

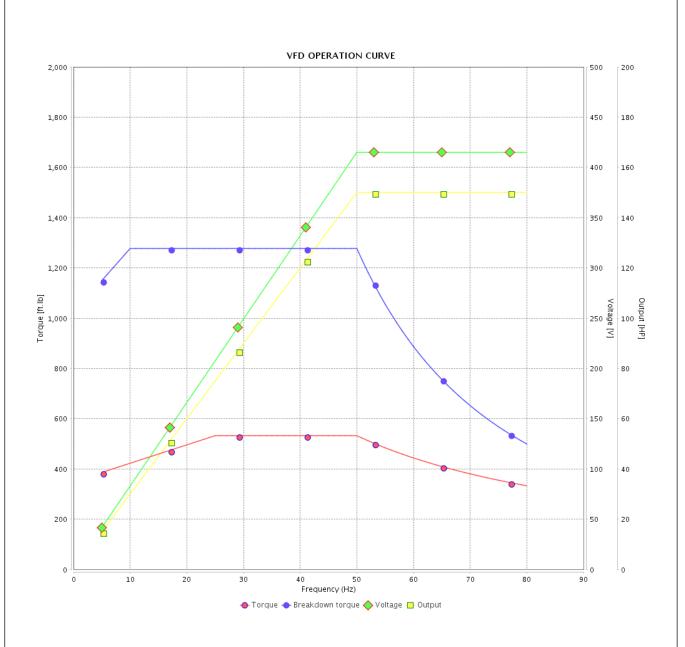
Product code: 11356087

Catalog #: 15018ET3GRB445T-W22

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Revision



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

