DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11356085

Catalog #: 15018ET3G445T-W22

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

Insulation class Mounting : F-1

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

: 1000 m.a.s.l. Approx. weight³ Altitude : 1849 lb

Protection degree	е	: IP55		Momei	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	1]	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	Locked rotor torque [%]		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
FUWEI 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 Bearing type 6319 C3 6316 C3 Max. traction : 2480 lb Sealing WSeal WSeal : 4330 lb Max. compression

10000 h Lubrication interval 8000 h 34 g Lubricant amount 45 g Lubricant type Mobil Polyrex EM

Notes

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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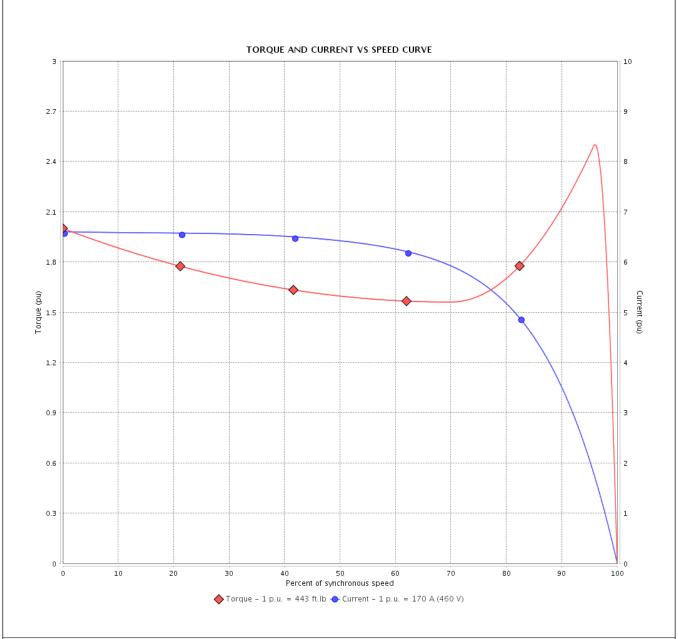
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-W22



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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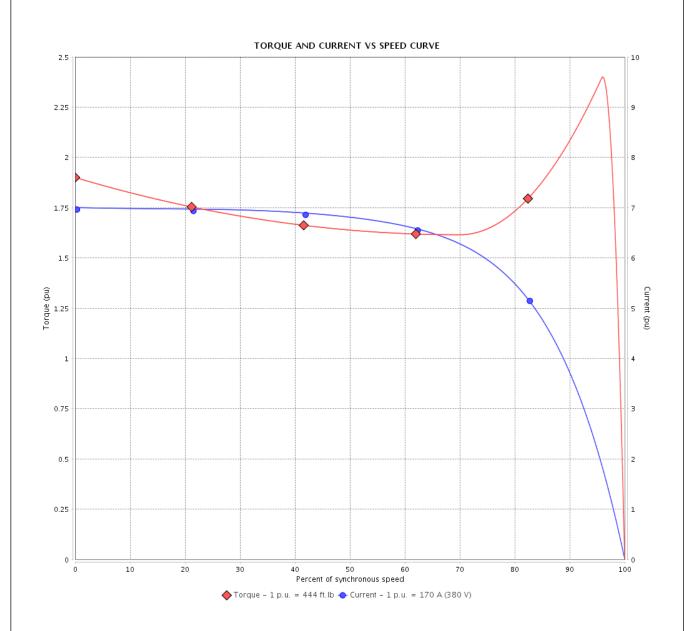


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356085

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Catalog #: 15018ET3G445T-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)
Rated torque	: 444 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)		

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

		-5 (55.4) 155 (1.51)			
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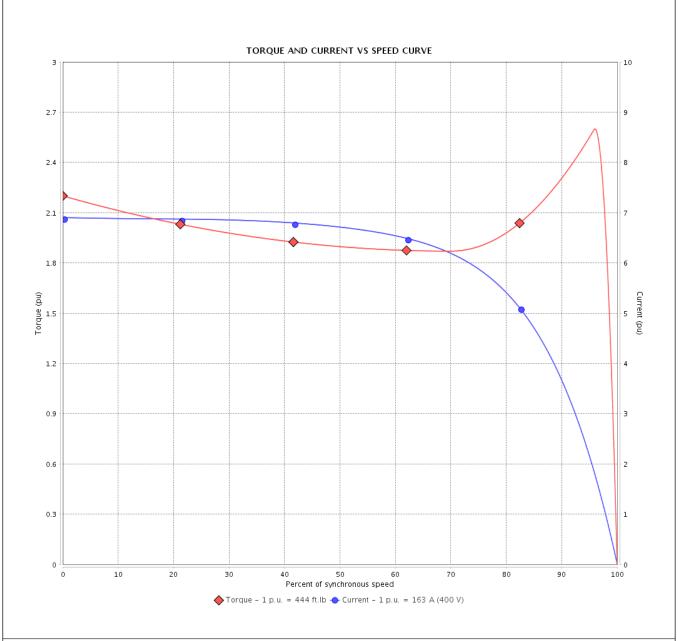
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-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

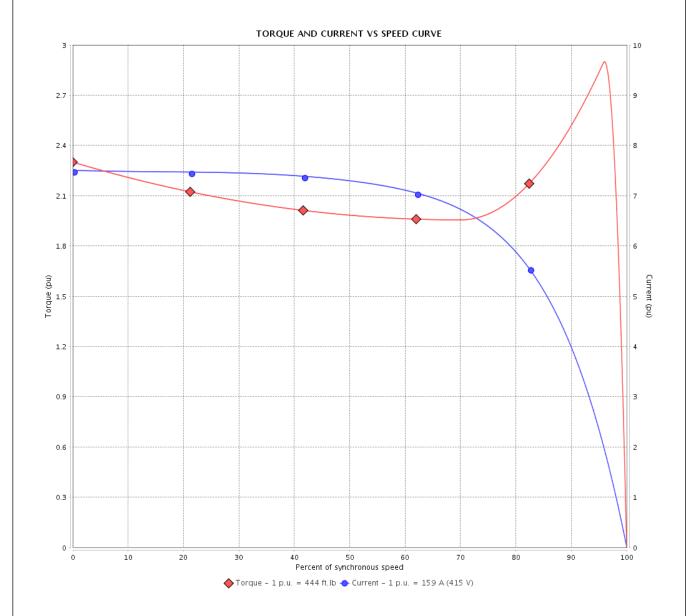
Locked rotor time : 32s (cold) 18s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11356085 Catalog #: 15018ET3G445T-W22



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) : 444 ft.lb Insulation class : F Rated torque : 229 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 290 % Temperature rise : B Rated speed : 1480 rpm Design Locked rotor time : 32s (cold) 18s (hot)

LOCKCO TOTOL TITLE		23 (cold) 103 (1101)			
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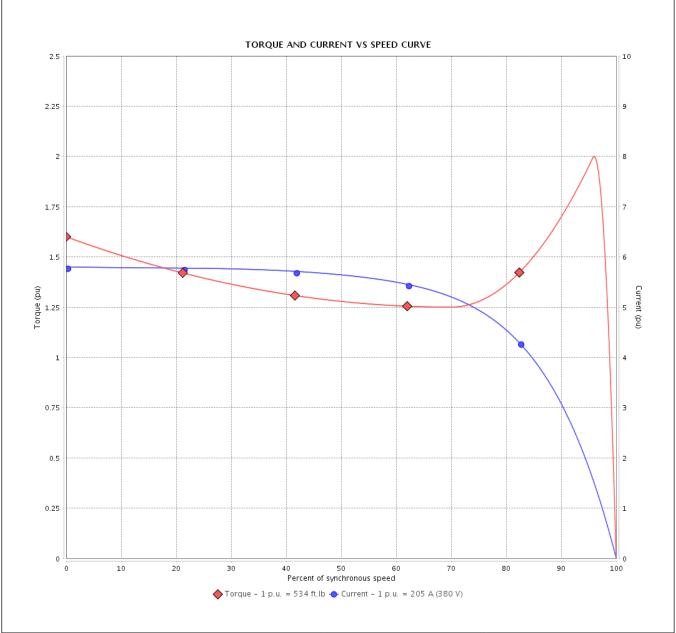
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-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 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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11356085 Catalog #: 15018ET3G445T-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)

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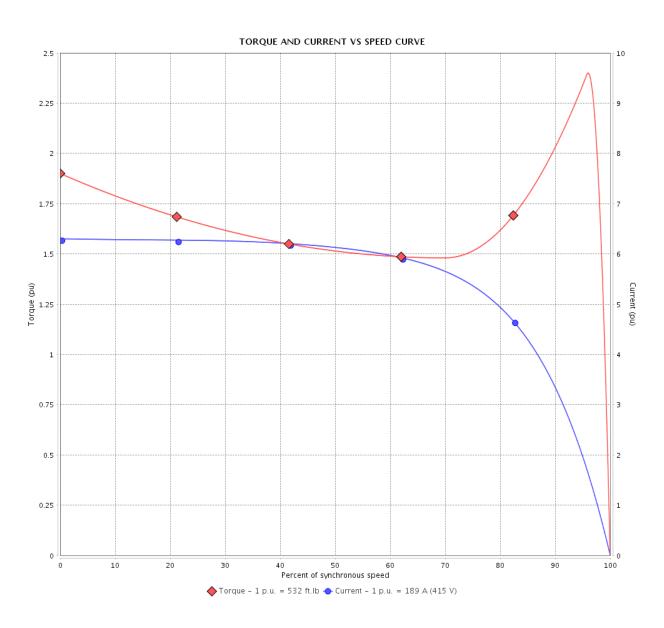
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-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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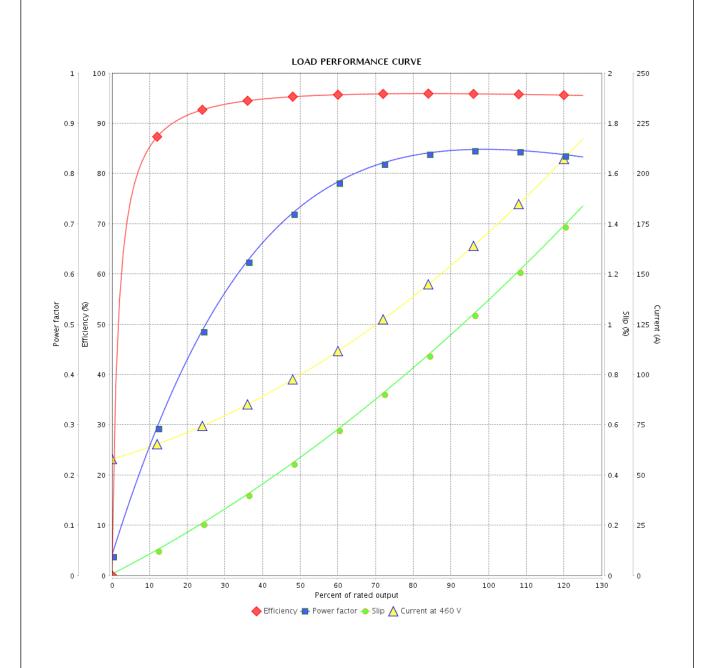


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 1	70 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 torque	e :2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	own torque : 250 % Temperature rise		: 80 K			
Rated speed	: 1	780 rpm	Design		: B	
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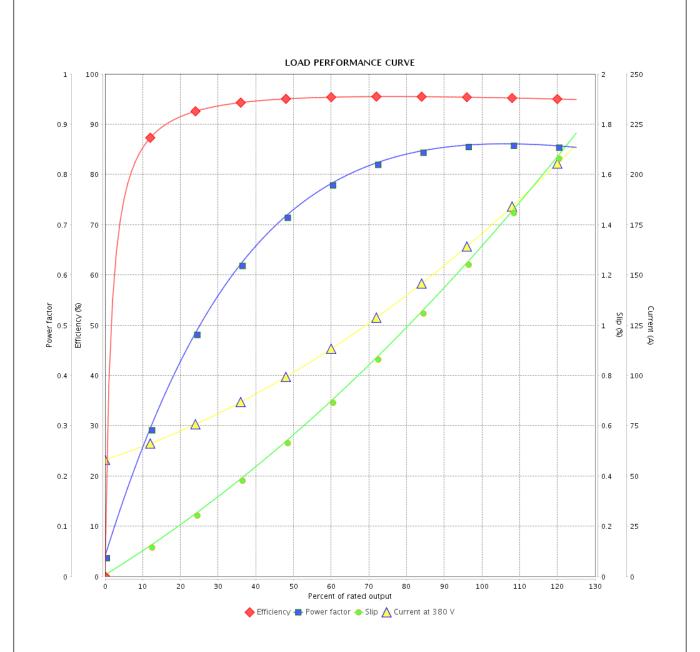


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



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 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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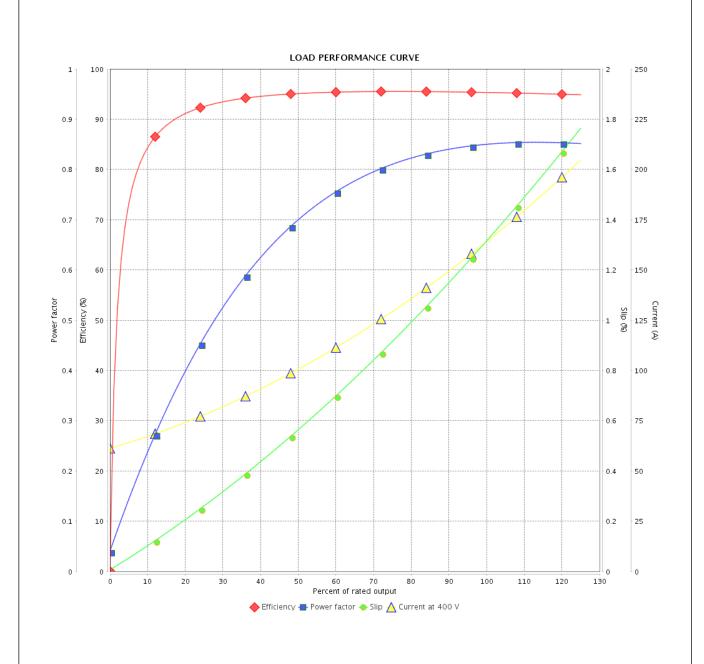


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current : 163 A		Moment o	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 torq	jue : 2	20 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 2	60 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	480 rpm	Design		: B	
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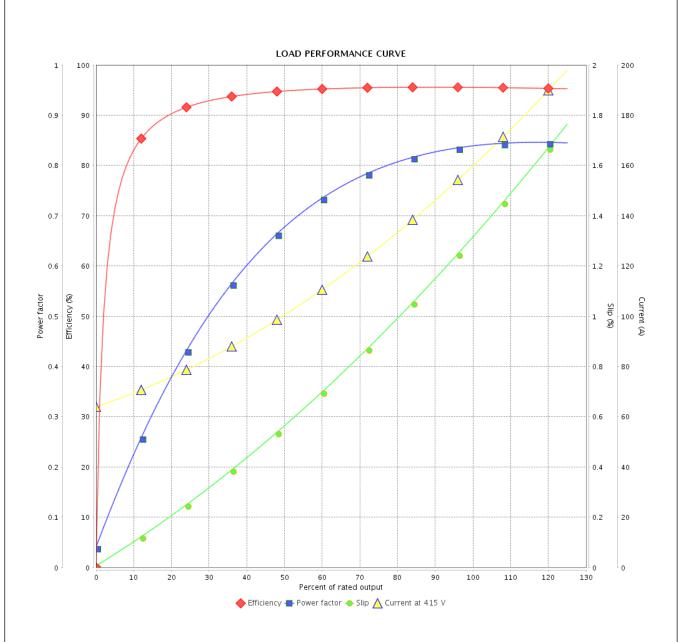


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11356085

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Performance	: 4	115 V 50 Hz 4P IE3				
Rated current : 159 A M		Moment o	of inertia (J)	: 66.7 sq.ft.lb		
LRC	: 7	7.5	Duty cycle	9	: Cont.(S1) : F	
Rated torque	: 4	144 ft.lb	Insulation	class		
Locked rotor torque		229 %	Service fa	ictor	: 1.00	
Breakdown torque	: 2	290 % Temperature rise		ure rise	: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
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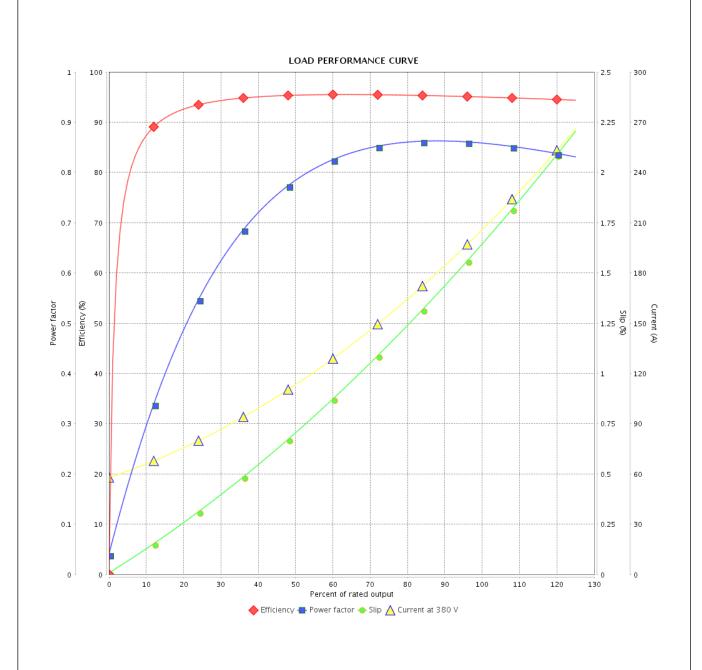


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



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	e :	160 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 200 % Temperature rise		ıre rise	: 105 K	
Rated speed	:	1475 rpm	Design		: B	
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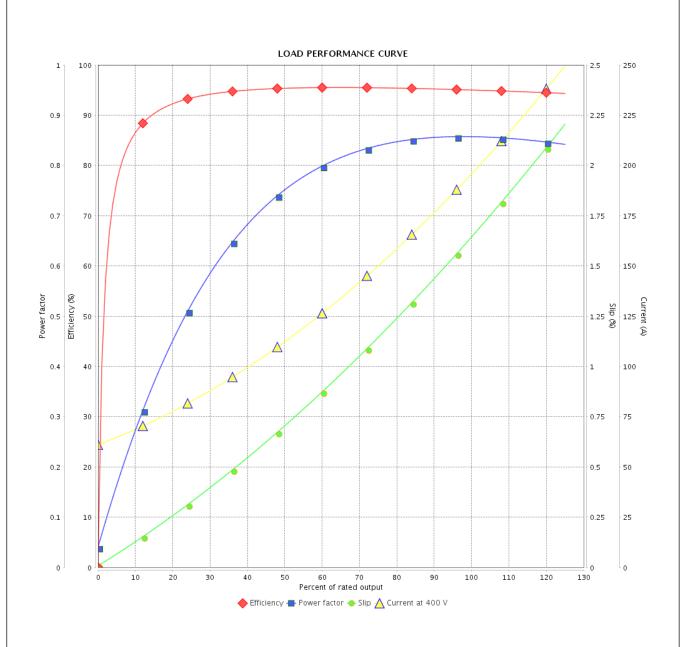
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-W22



Performance	: 400 V 50 Hz 4P IE2				
renormance	. 400 V 50 HZ 4F IEZ				
Rated current	current : 194 A Moment of inertia (J)		nertia (J)	: 66.7 sq.ft.lb	
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 534 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor		: 1.00	
Breakdown torque	: 220 %	Temperature rise		se : 105 K : B	
Rated speed					
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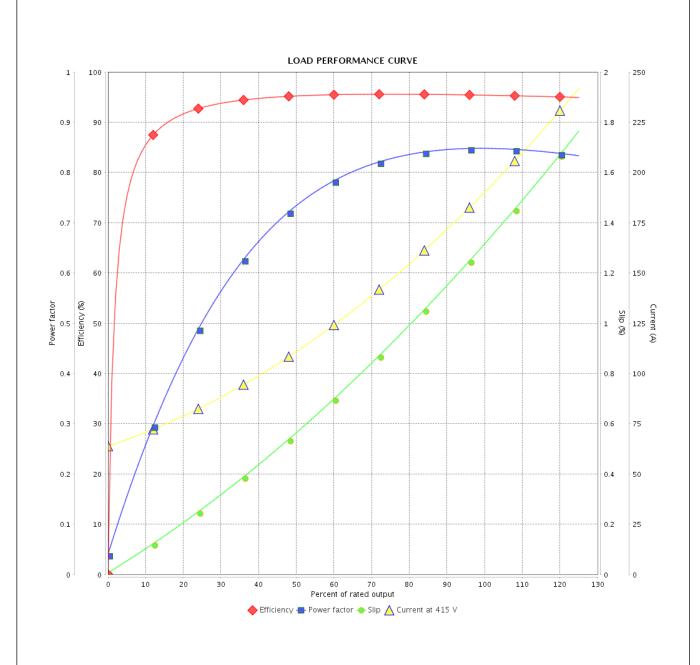


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



Performance	formance : 415 V 50 Hz 4P IE3					
Rated current	ated current : 189 A		Moment o	Moment of inertia (J)		
LRC	: 6	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	32 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	90 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperature rise		: 105 K	
Rated speed	: 1	: 1480 rpm		Design		
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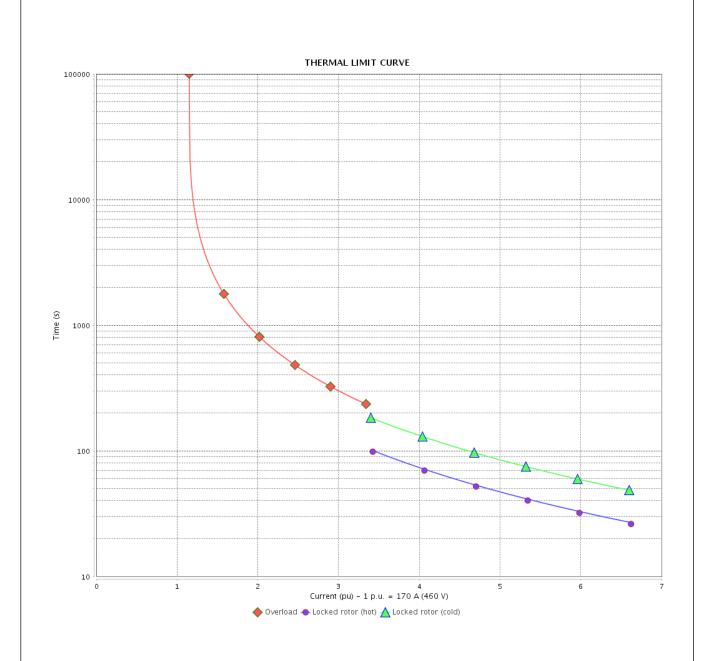


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11356085	
		Catalog # :	15018ET3G4	45T-W22
Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170 A : 6.6 : 443 ft.lb : 200 % : 250 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	<u> </u>			
Heating constant				
Cooling constant Rev.	Changas Cumman	Performed	Checked	Date
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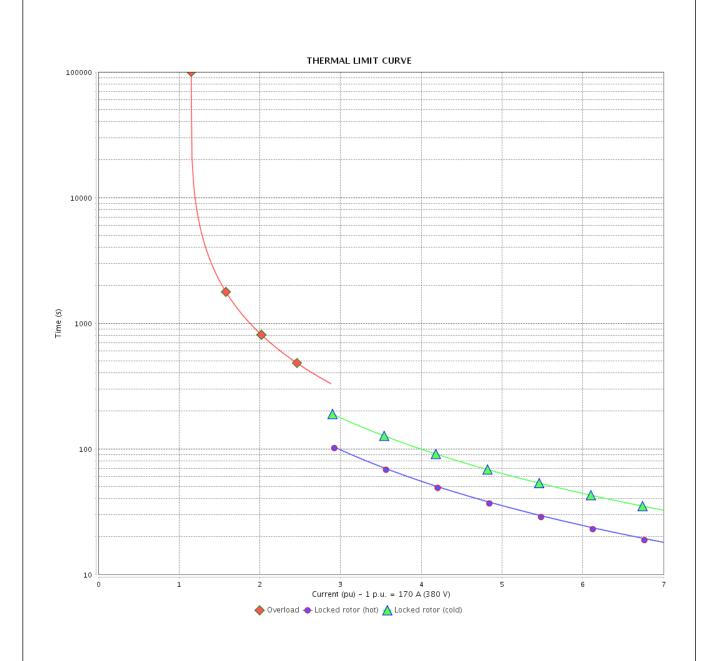


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356085 15018ET3G4	45T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 170 A	Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC Rated torque	:	: 7.0 : 444 ft.lb	Duty cycle	е	: Cont.(S1) : F	
Locked rotor tord		: 190 %	Service fa		. г : 1.00	
Breakdown torqu	ie :	: 240 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant Cooling constant						
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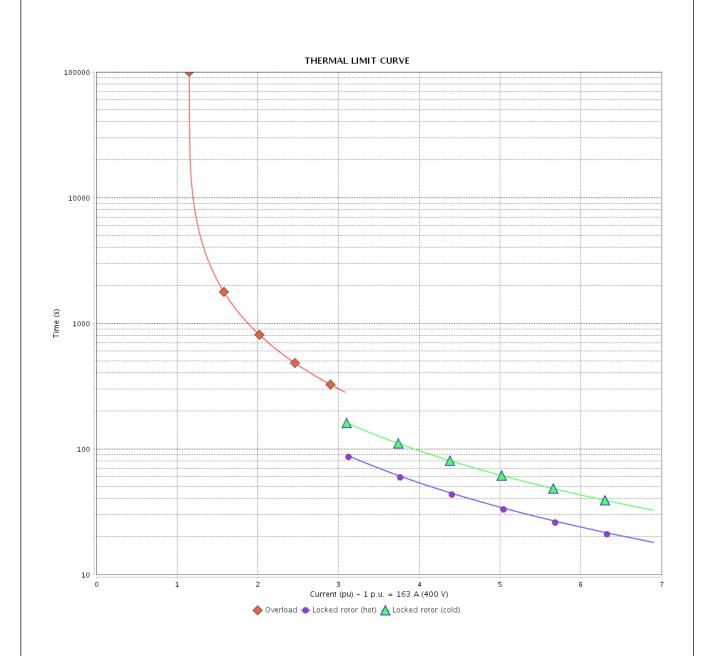


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356085 15018ET3G4	45T-W22
					1001021004	
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 163 A : 6.9	Moment o	of inertia (J)	: 66.7 sq.ft.lb	
LRC Rated torque		: 444 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 220 % : 260 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 1480 rpm	Temperat Design	uic lisc	: 80 K	
Heating constan	t					
Cooling constant	t				1	
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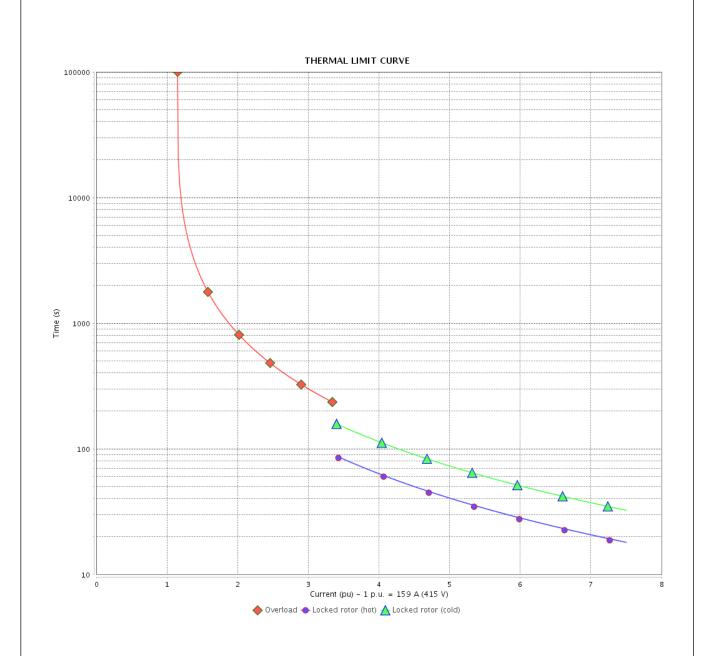


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11356085	45T M/00
				Catalog # :	15018ET3G44	1 51-VVZZ
Performance		: 415 V 50 Hz 4P IE3		. f : f : / D	00.7	
Rated current LRC		: 159 A : 7.5	Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 444 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 290 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t					
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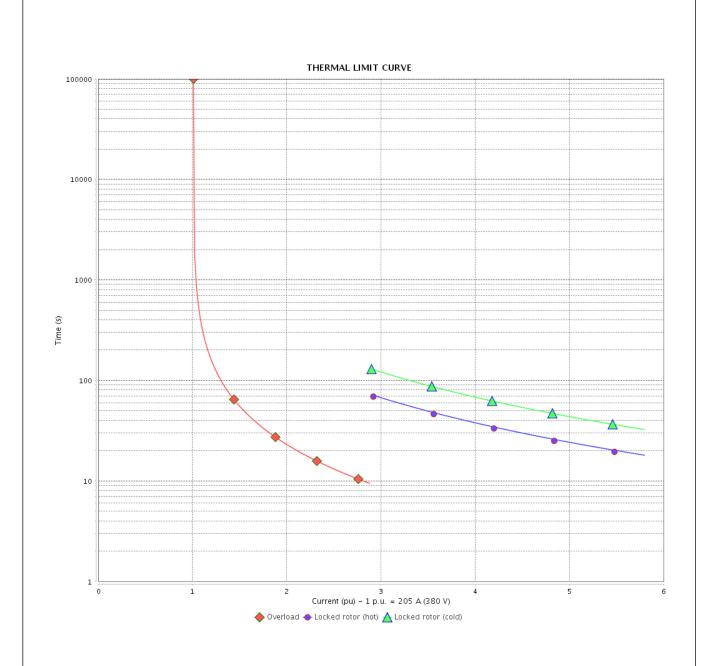


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356085 15018ET3G44	45T-W22
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 205 A : 5.8	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 534 ft.lb : 160 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 160 % : 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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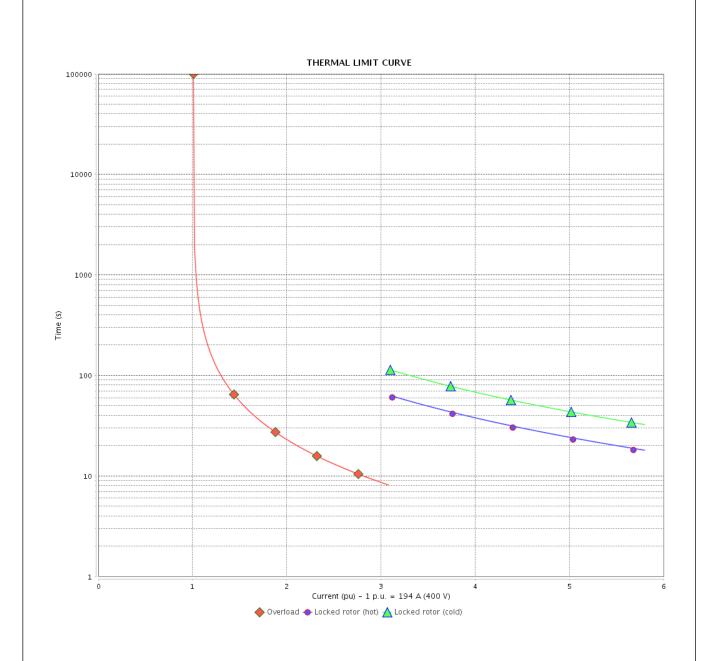


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356085 15018ET3G44	15T-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 194 A : 5.8	Moment of Duty cycle	of inertia (J)	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 534 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 220 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1475 rpm	Design	are rise	: B	
Heating constan						
Cooling constant	t	01 0			<u> </u>	
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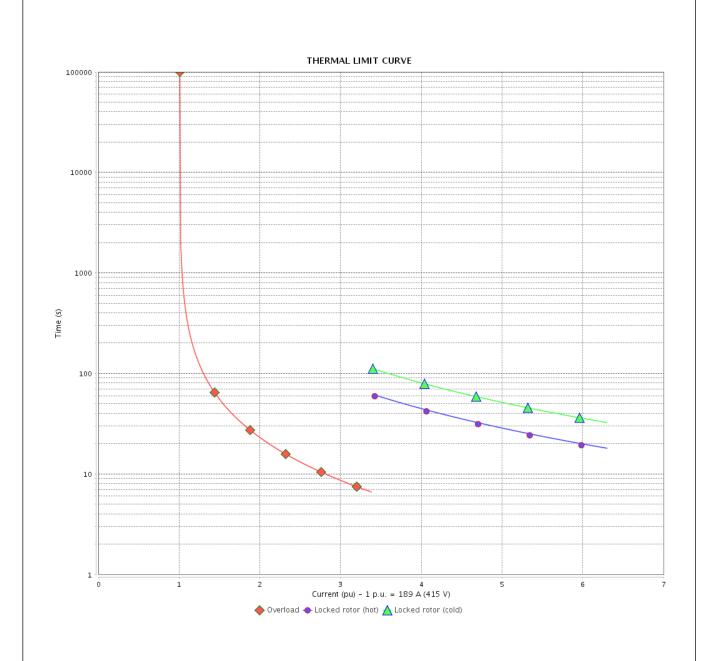


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11356085 15018ET3G4	145T-W22
Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ue :	189 A 6.3 532 ft.lb 190 % 240 % 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan			-			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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Product line : NEMA Premium Efficiency Three- P

Phase

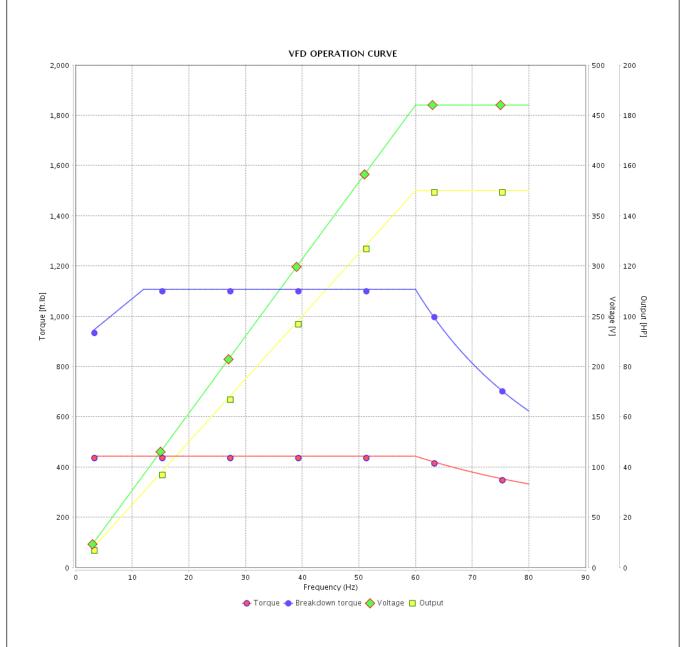
Product code: 11356085

Catalog #: 15018ET3G445T-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

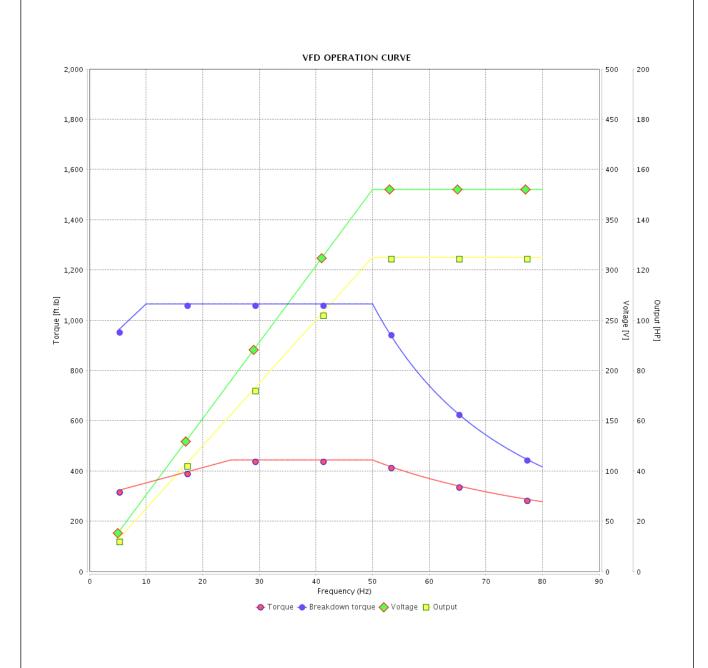


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356085

Phase

Catalog #: 15018ET3G445T-W22



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	: 170 A		Moment of	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperat	ıre rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 15018ET3G445T-W22

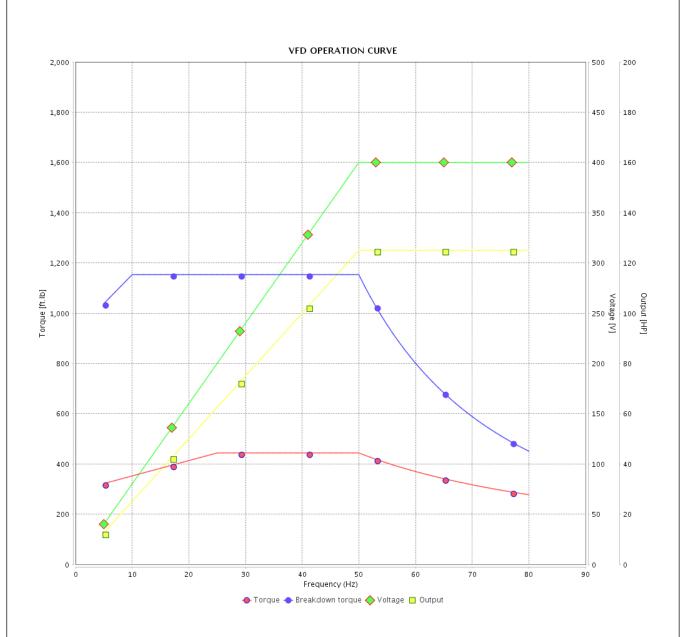
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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 163 A : 6.9 : 444 ft.lb : 220 % : 260 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7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

Three Phase Induction Motor - Squirrel Cage



Customer

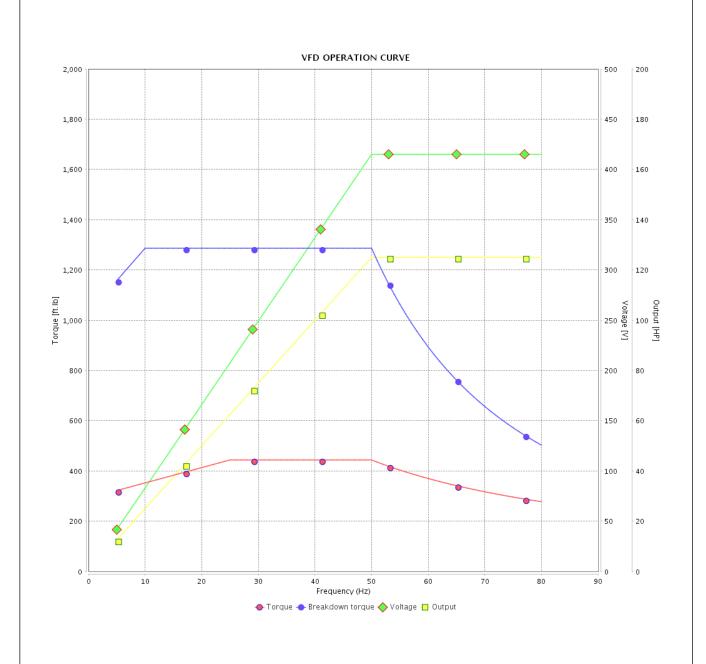
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356085

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Performance	nance : 415 V 50 Hz 4P IE3				
		Moment of inerti	a (J)	: 66.7 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 444 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

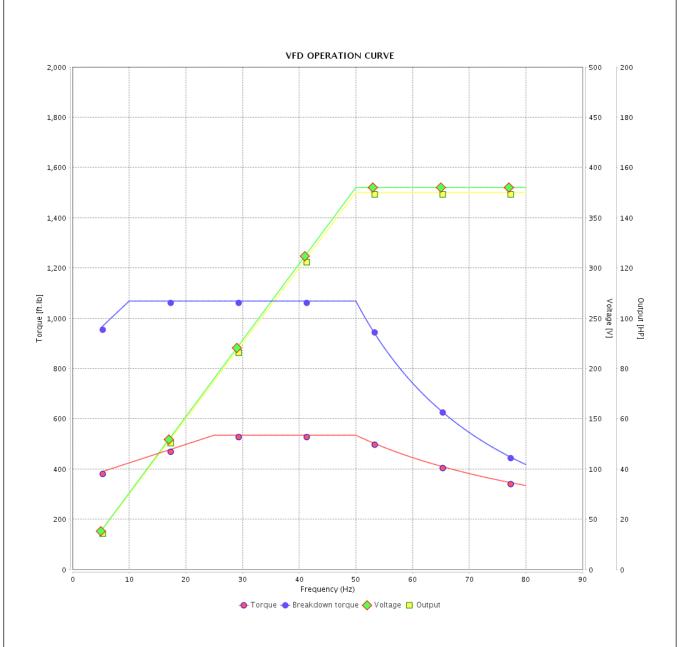
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Performance	: 3	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 8 : 9 : 1 : 1 : 2	205 A 5.8 534 ft.lb 160 % 200 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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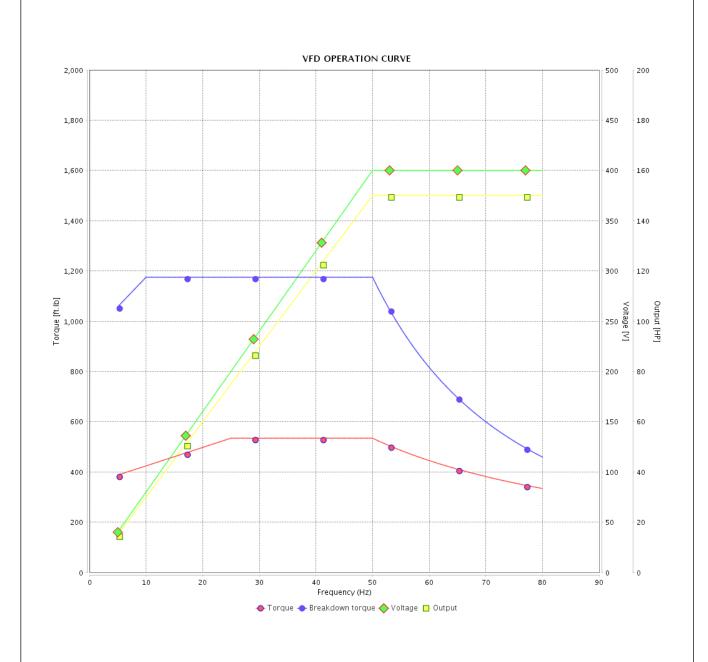
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356085

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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 in Duty cycle Insulation cla Service facto Temperature Design	iss r	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



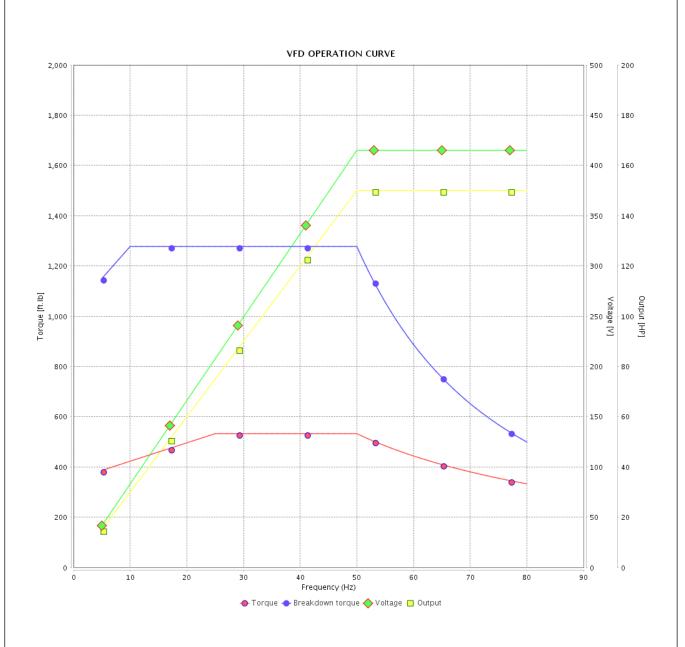
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11356085

Catalog #: 15018ET3G445T-W22



Performance	: 415 V 50 Hz 4P IE3	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	e : 190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 240 %	Temperat	ure rise	: 105 K	
Rated speed	: 1480 rpm	Design		: B	
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