DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11853778

Catalog #: 10012ST3QIERB444T-W2

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 Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 1711 lb Altitude : IP55 Moment of inertia (J) Protection degree : 87.3 sq.ft.lb

i retection degree	00					77.0 04.11.10	
Design	: B						
Output [HP]	100	75	75	75	100	100	100
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	121	107	104	102	145	139	135
L. R. Amperes [A]	714	674	718	755	682	723	770
LRC [A]	5.9x(Code	6.3x(Code	6.9x(Code H)	7.4x(Code J)	4.7x(Code D)	5.2x(Code F)	5.7x(Code F
	G)	G)					
No load current [A]	42.0	41.4	44.9	47.7	41.4	44.9	47.7
Rated speed [RPM]	1185	985	990	990	980	985	985
Slip [%]	1.25	1.50	1.00	1.00	2.00	1.50	1.50
Rated torque [ft.lb]	443	400	398	398	536	533	533
Locked rotor torque [%]	220	229	250	270	170	190	200
Breakdown torque [%]	229	250	280	310	180	200	220
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Tomporatura rigo	90 K	00 K	90 K	90 K	105 K	105 K	105 K

Temperature rise 105 K 105 K 80 K 80 K 80 K 80 K 105 K Locked rotor time 36s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 20s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 69.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 94.4 93.7 93.7 93.5 94.8 94.8 94.8 50% 94.5 93.8 93.8 93.7 94.5 94.5 94.5 Efficiency (%) 75% 95.0 94.3 94.6 94.6 94.0 94.5 94.5 100% 94.2 95.0 94.5 94.6 93.6 94.0 94.0 25% 0.45 0.41 0.38 0.35 0.51 0.47 0.44 50% 0.68 0.64 0.60 0.57 0.74 0.71 0.68 Power Factor 75% 0.78 0.77 0.74 0.71 0.82 0.80 0.78 100% 0.82 0.83 0.81 0.79 0.84 0.83 0.82

Drive end Non drive end Foundation loads NU-319 C3 Bearing type 6316 C3 Max. traction : 2271 lb Inpro/Seal Inpro/Seal : 3982 lb Sealing Max. compression

Lubrication interval 9000 h 16000 h Lubricant amount 45 g 34 g Mobil Polyrex EM Lubricant type

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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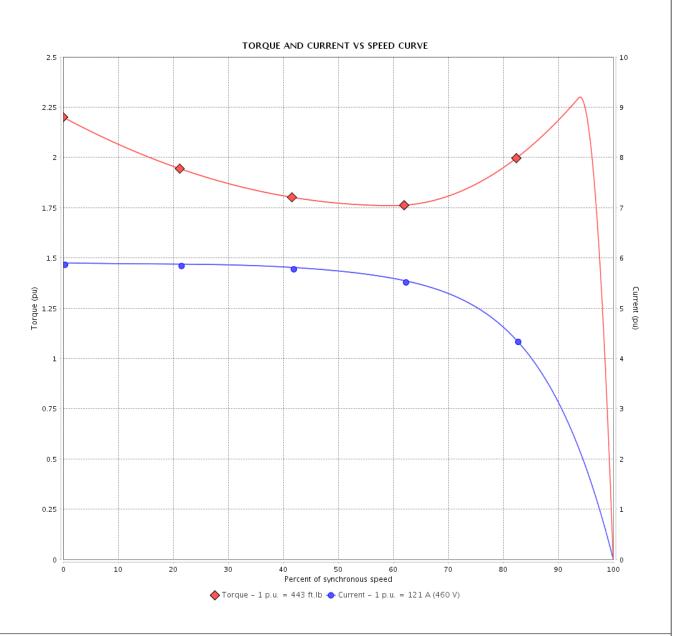


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase

Catalog #: 10012ST3QIERB444T-W2



Performance : 460 V 60 Hz 6P Rated current : 121 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11853778 Catalog #: 10012ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 400 ft.lb ◆ Current - 1 p.u. = 107 A (380 V) : 380 V 50 Hz 6P IE3 Performance Rated current : 107 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Rated torque : 400 ft.lb Insulation class : F : 229 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 250 % Temperature rise Rated speed : 985 rpm : B Design

Locked rotor time	e : 2	7s (cold) 15s (hot)				
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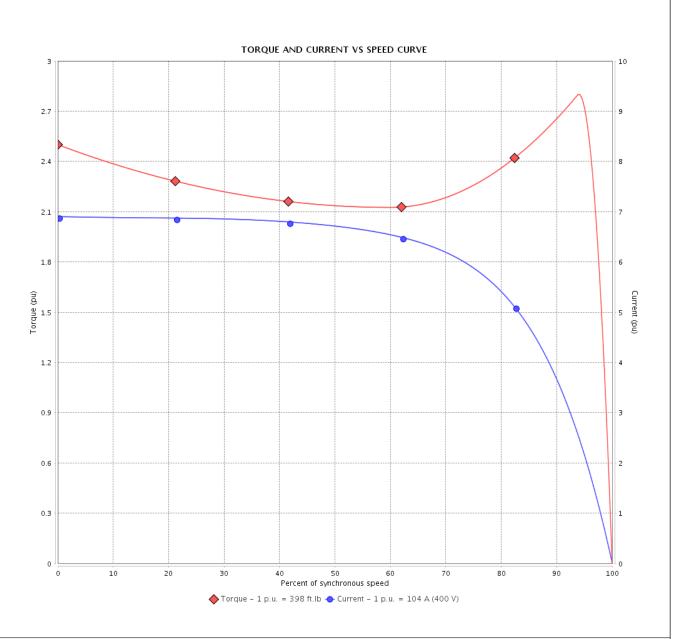
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ST3QIERB444T-W2

11853778



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 104 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 398 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B
Looked roter time	: 27a (aald) 15a (bat)		

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11853778 Catalog #: 10012ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 398 ft.lb ◆ Current - 1 p.u. = 102 A (415 V)

Rated current	: 102 A				
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.4 : 398 ft.lb : 270 % : 310 % : 990 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	iss r	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 27s (cold) 15s (hot)				
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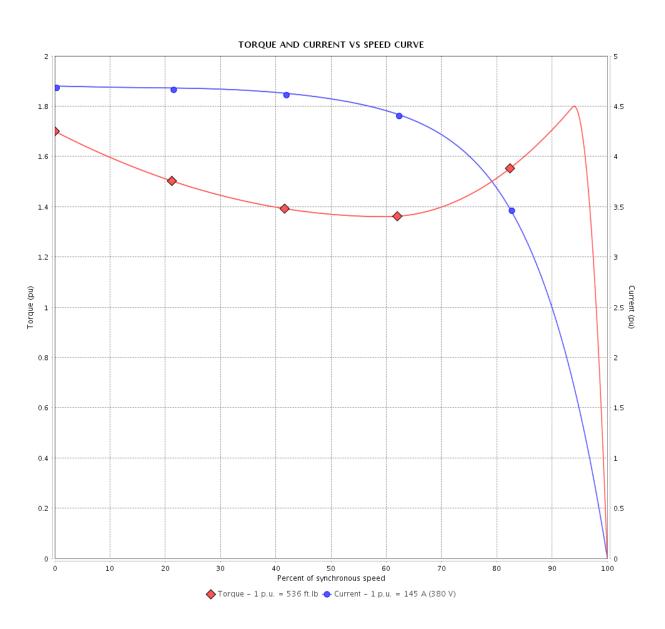
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ST3QIERB444T-W2

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Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 145 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 536 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11853778 Catalog #: 10012ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5

Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 139 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B

40 50 o. Percent of synchronous speed ♦ Torque – 1 p.u. = 533 ft.lb ♦ Current – 1 p.u. = 139 A (400 V)

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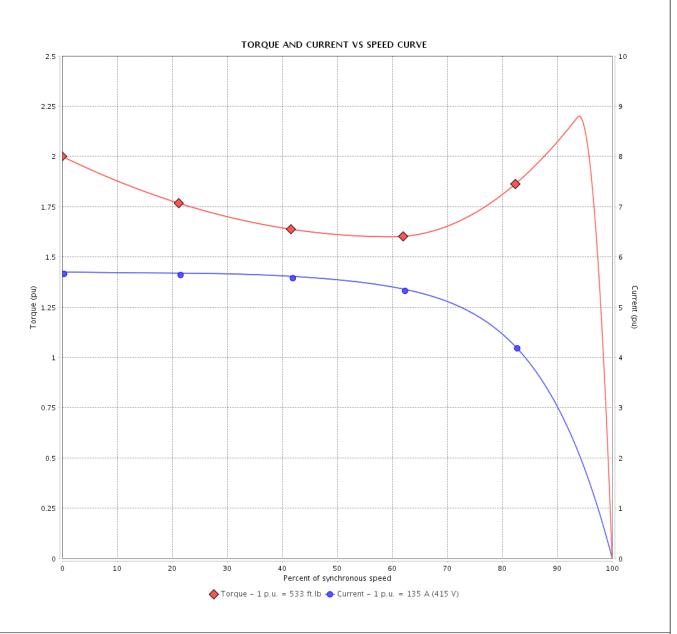


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase

Catalog #: 10012ST3QIERB444T-W2



Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 135 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B
Looked reter time	: 27a (aald) 15a (bat)		

Locked rotor time : 27s (cold) 15s (hot)

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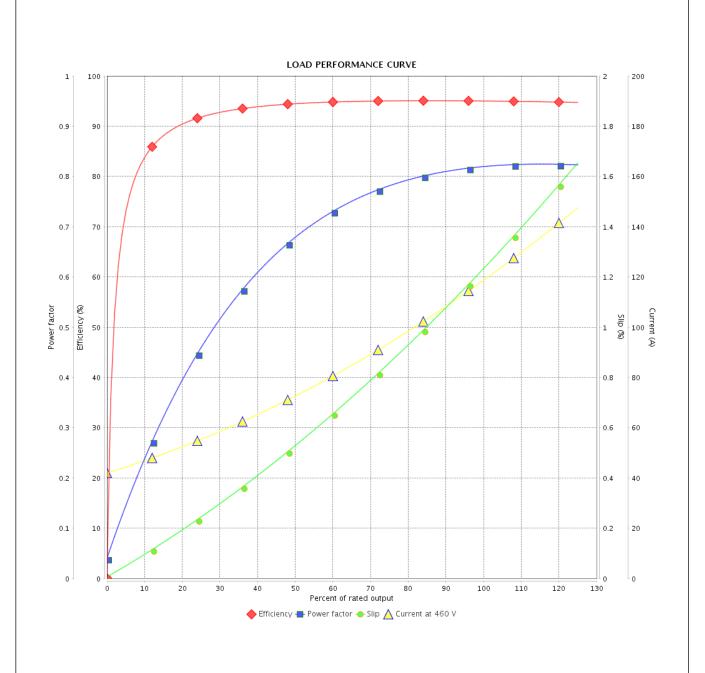
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: .	121 A Moment of inertia (J)		f inertia (J)	: 87.3 sq.ft.lb	
LRC	:	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	443 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	: 229 %		Temperature rise		
Rated speed	: '	1185 rpm	Design		: B	
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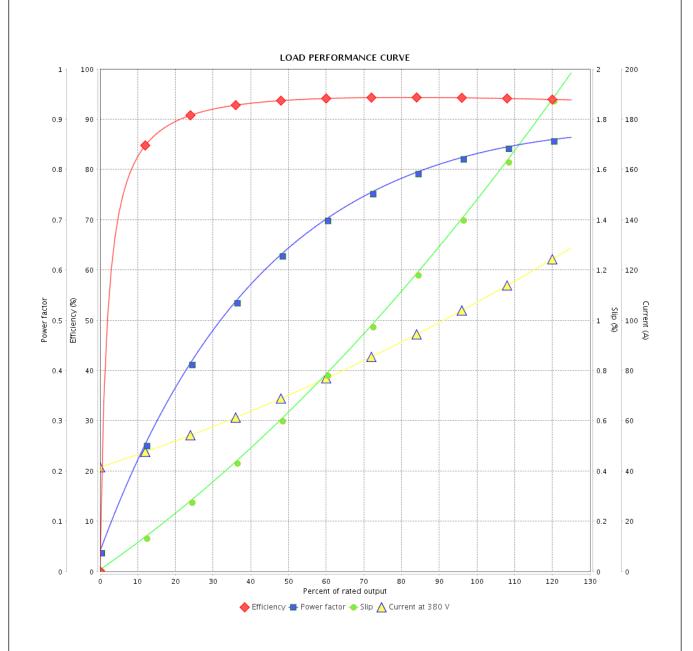
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ST3QIERB444T-W2

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 107 A : 6.3 : 400 ft.lb : 229 % : 250 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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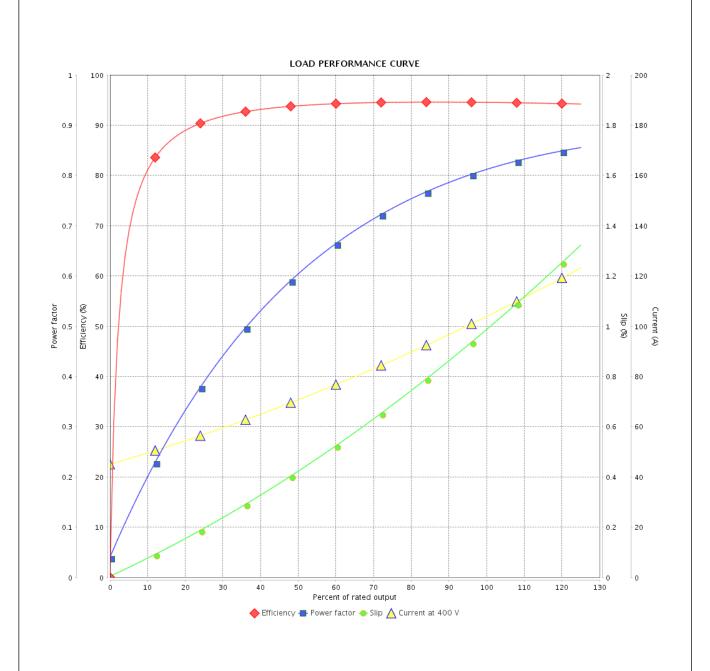
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance	erformance : 400 V 50 Hz 6P IE3					
Rated current	:	104 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	:	6.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	398 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	: 250 % Service : 280 % Tempera : 990 rpm Design		ctor	: 1.00	
Breakdown torque	:			ıre rise	: 80 K	
Rated speed	:				: B	
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Product line : NEMA Premium Efficiency Three- Product code :

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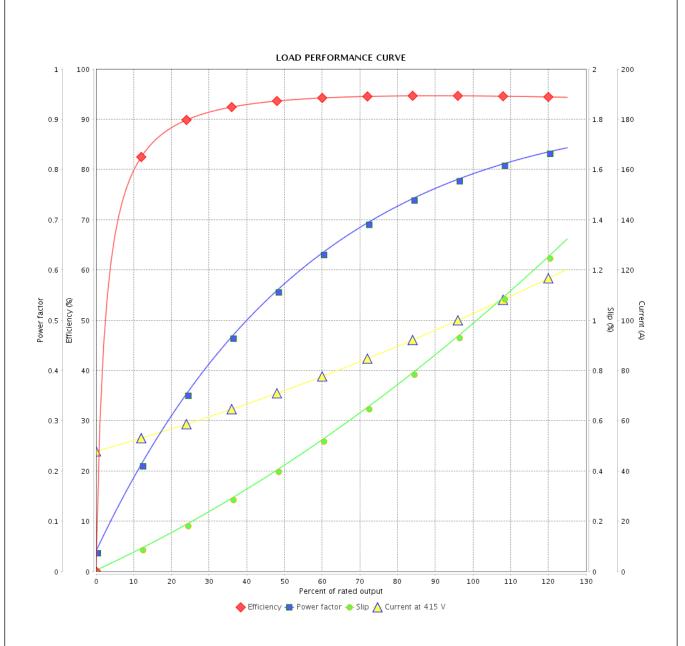
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Performance		: 415 V 50 Hz 6P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 102 A : 7.4 : 398 ft.lb : 270 % : 310 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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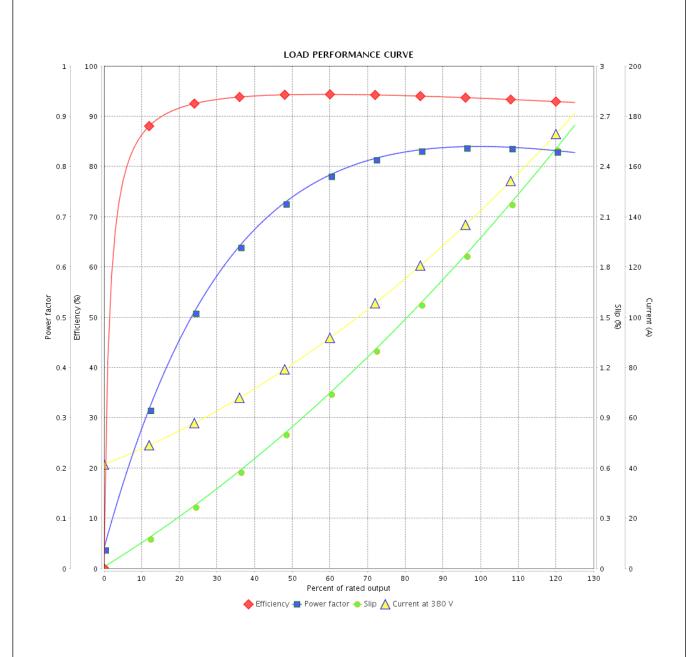
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance	Performance : 380 V 50 Hz 6P IE1					
Rated current	Rated current : 145 A		Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 4	.7	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 5	36 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	: 180 % Temperature : 980 rpm Design		Temperature rise : 105 K Design : B		
Rated speed	: 9					
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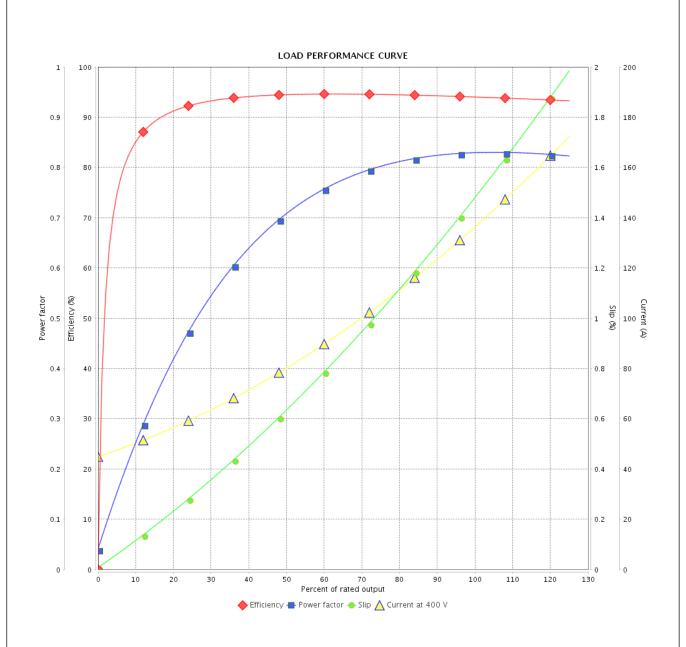
Product code: 11853778

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 139 A : 5.2 : 533 ft.lb : 190 % : 200 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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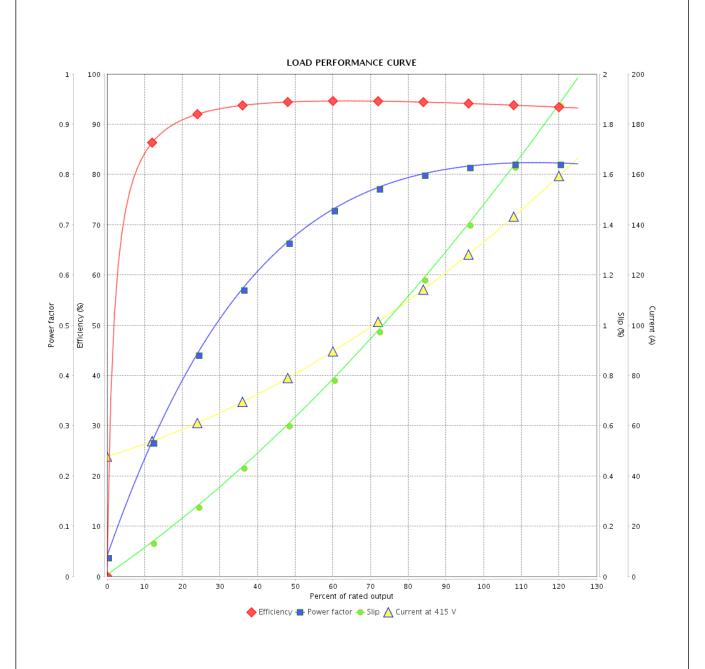
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance	erformance : 415 V 50 Hz 6P IE2					
Rated current : 135 A		135 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 5	533 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 220 % Tem		ıre rise	: 105 K	
Rated speed	: 9	985 rpm	Design		: B	
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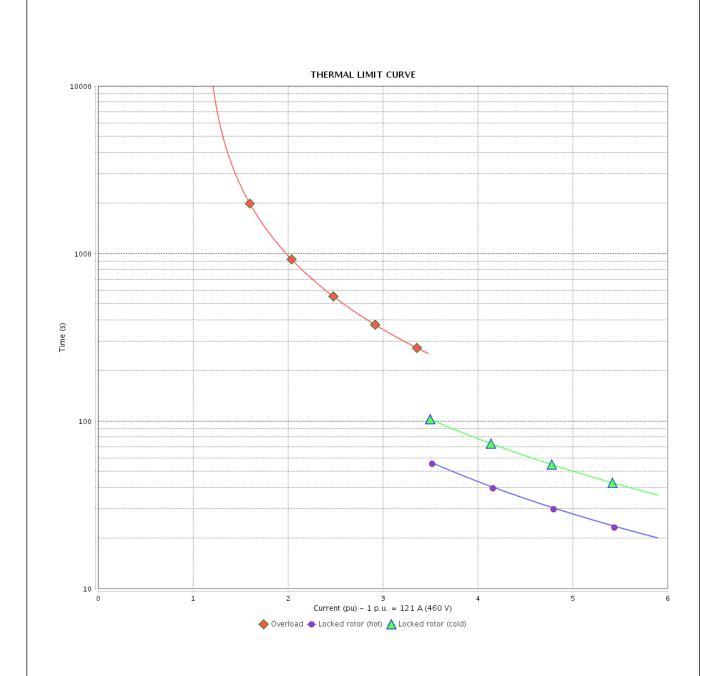


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	11853778 10012ST3QIE	ERB444T-W2
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 6P : 121 A : 5.9 : 443 ft.lb : 220 % : 229 % : 1185 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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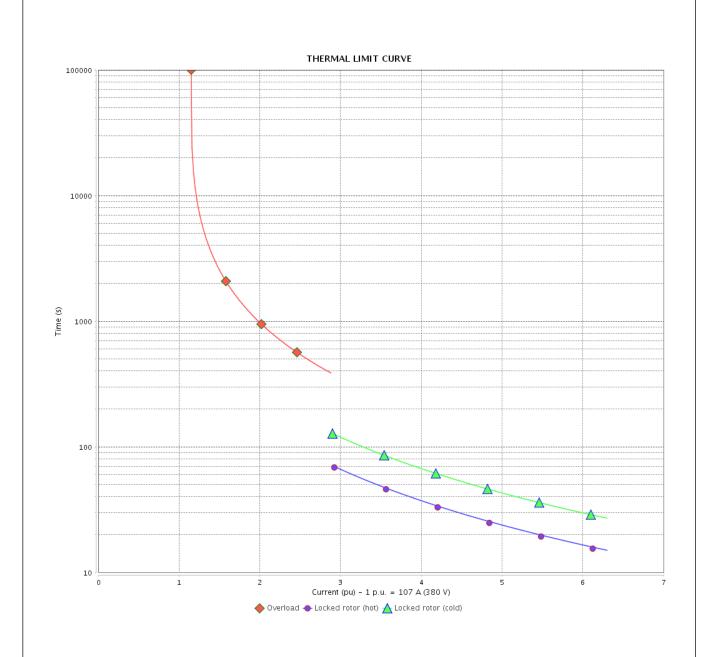


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Product line		Γhree- Product code :	44050550	
			11853778	
		Catalog # :	10012ST3QII	ERB444T-W2
Performance	: 380 V 50 Hz 6P IE3			
LRC Rated torque Locked rotor torque Breakdown torque	: 107 A : 6.3 : 400 ft.lb : 229 % : 250 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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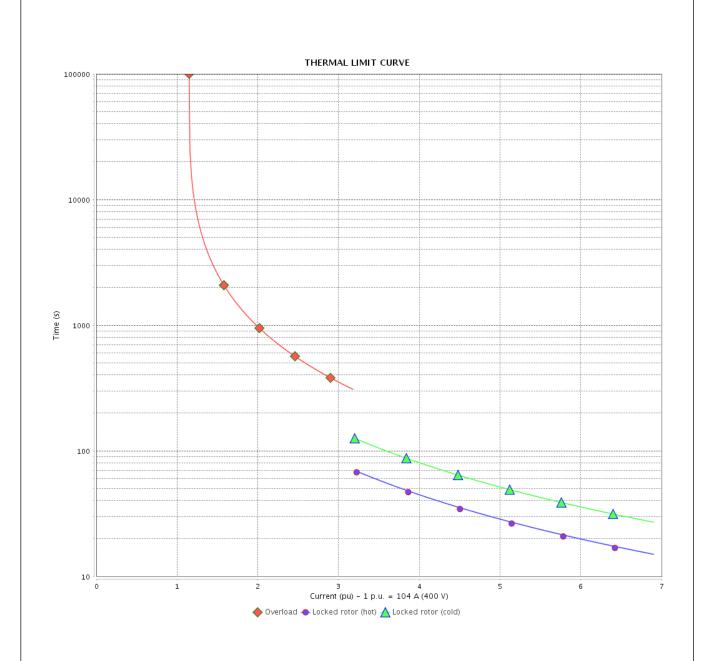


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11853778	
		That		Catalog # :	10012ST3QIE	RB444T-W2
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 104 A	Moment of	of inertia (J)	: 87.3 sq.ft.lb	
LRC		: 6.9	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torq		: 398 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 280 %	Temperat		: 80 K	
Rated speed		: 990 rpm	Design		: B	
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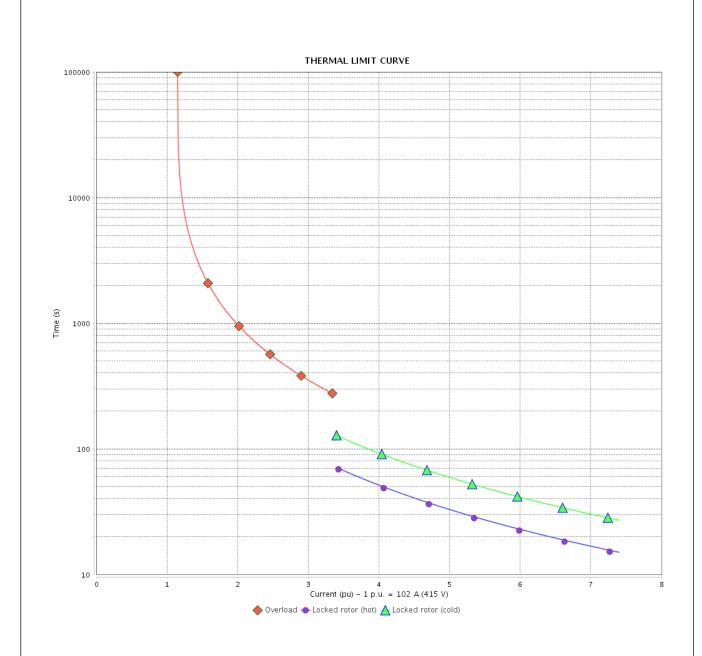


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Product line	: NEMA Premium Efficiency Phase	Three- Produ	ct code :	11853778	
	Thase	Catalo	og # :	10012ST3QIE	RB444T-W2
Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.4 : 398 ft.lb : 270 % : 310 % : 990 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant					
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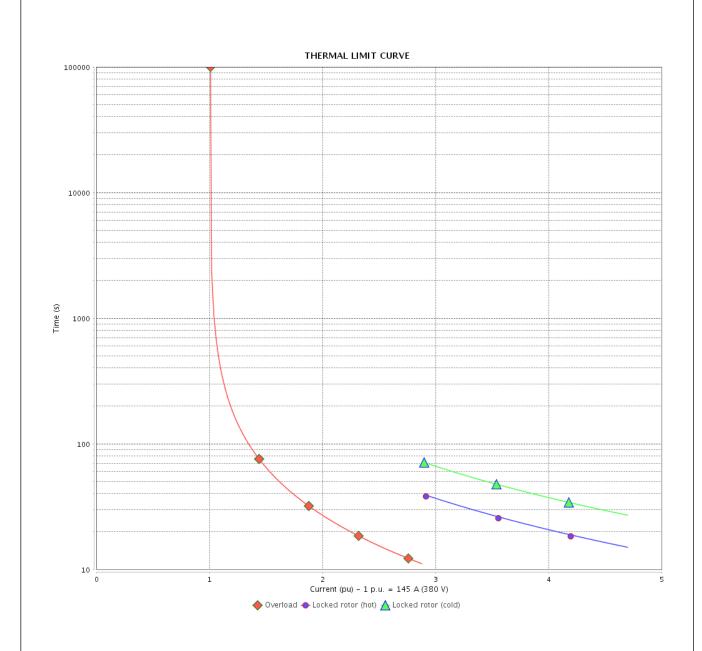


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	11853778	
			Catalog # :	10012ST3QI	ERB444T-W2
Performance	: 380 V 50 Hz 6P IE1	T			
LRC Rated torque Locked rotor torque Breakdown torque	: 145 A : 4.7 : 536 ft.lb : 170 % : 180 % : 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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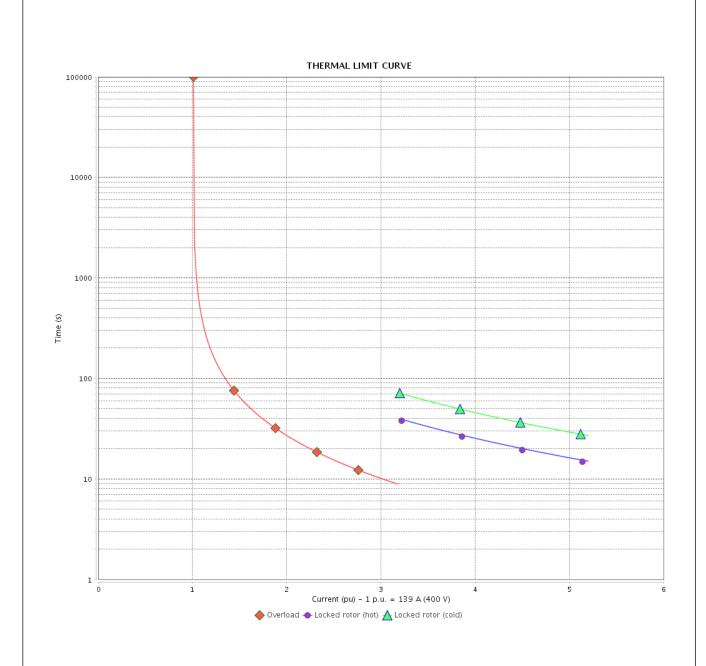


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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11853778	
	i ilasc		Catalog # :	10012ST3QIE	RB444T-W2
Performance	: 400 V 50 Hz 6P IE2	Messer	finantie (1)	.070 - 64	
Rated current LRC	: 139 A : 5.2	Moment o	f inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed	: 200 % : 985 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant					
Cooling constant					
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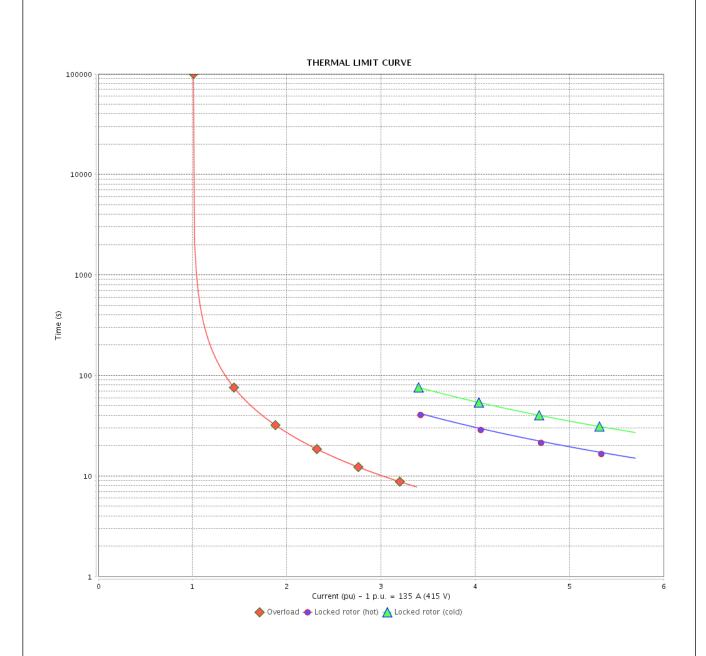


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Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11853778 10012ST3QI	ERB444T-W2
Performance		415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	135 A 5.7 533 ft.lb 200 % 220 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

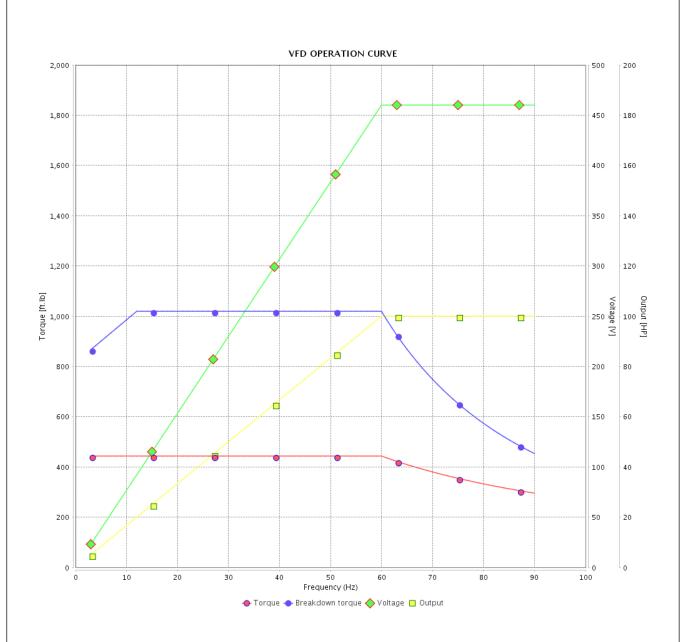
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11853778

Catalog #: 10012ST3QIERB444T-W2

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Performance : 460 V 60 Hz 6P : 121 A Rated current Moment of inertia (J) : 87.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.9 : 443 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

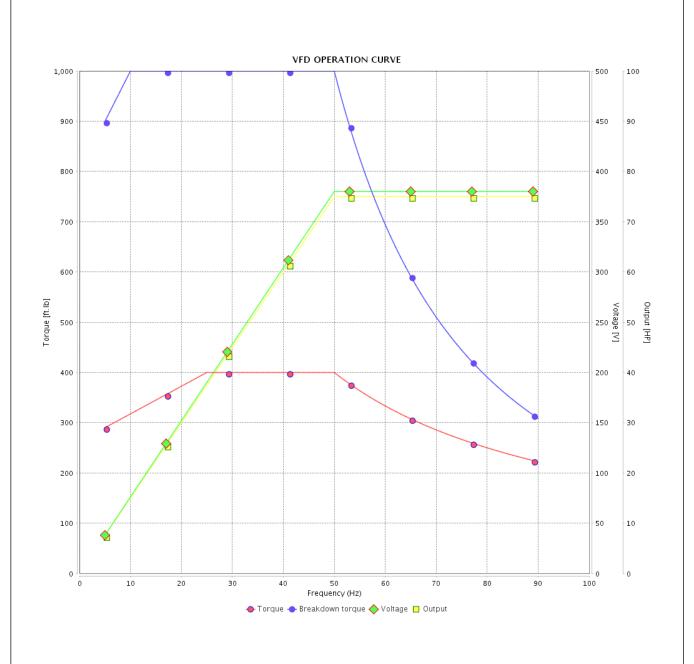
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



						
Performance	: 3	80 V 50 Hz 6P IE3	V 50 Hz 6P IE3			
Rated current	: 1	07 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6	5.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	00 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 9	185 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product c

Phase

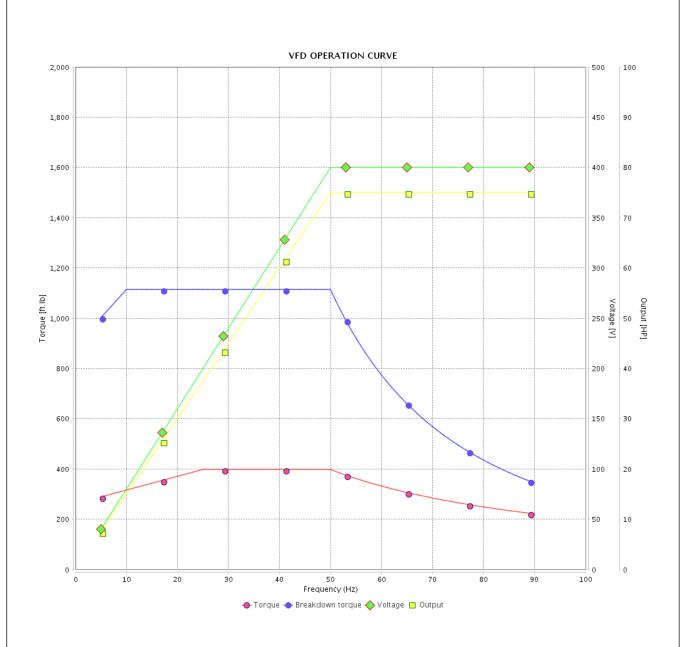
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 6.9 : 398 ft.lb : 250 % : 280 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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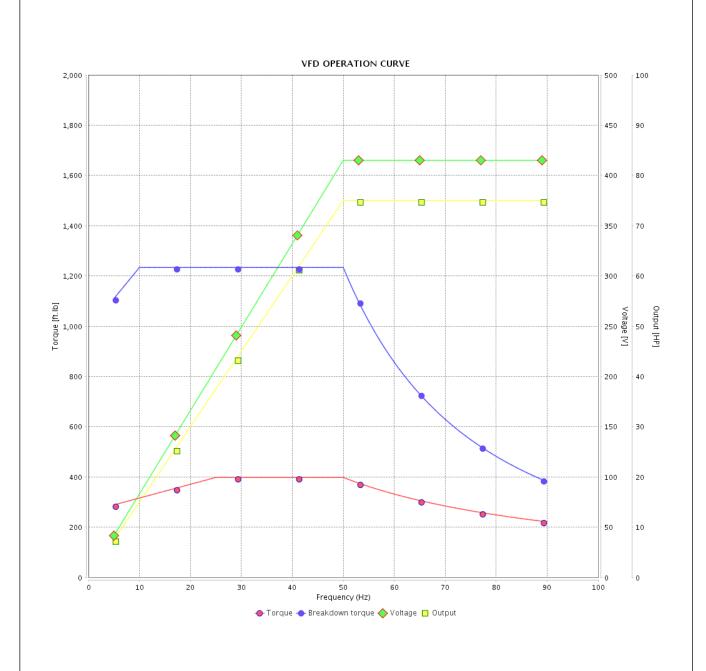
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance	: 4	: 415 V 50 Hz 6P IE3					
Rated current	: 1	02 A Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC	: 7	4	Duty cycle		: Cont.(S1)		
Rated torque	: 3	98 ft.lb	Insulation class		: F		
Locked rotor torque	e : 2°	70 %	Service factor		: 1.00		
Breakdown torque	: 3	: 310 % : 990 rpm		ıre rise	: 80 K		
Rated speed	: 9			Design			
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Three Phase Induction Motor - Squirrel Cage

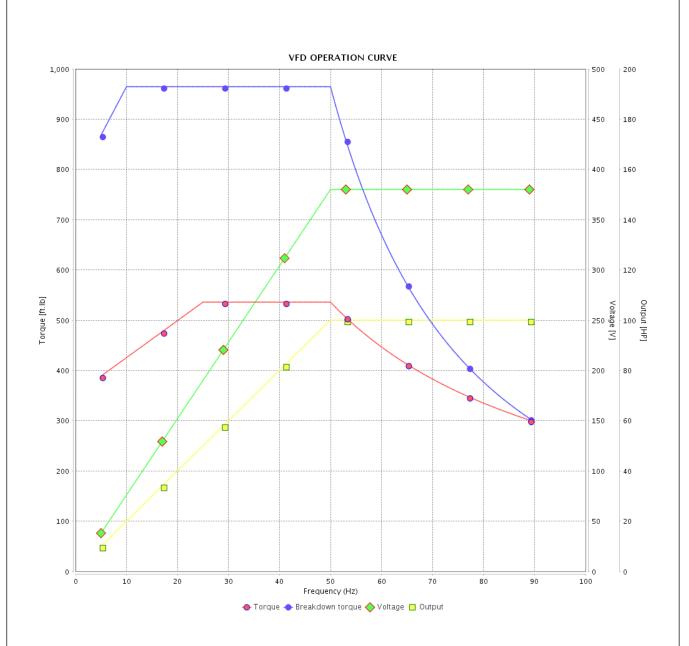


Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11853778



Performance	: 380 V 50 Hz 6P IE1	<u> </u>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 145 A : 4.7 : 536 ft.lb : 170 % : 180 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Nateu speeu	. 900 ipiii	Design		. Б	
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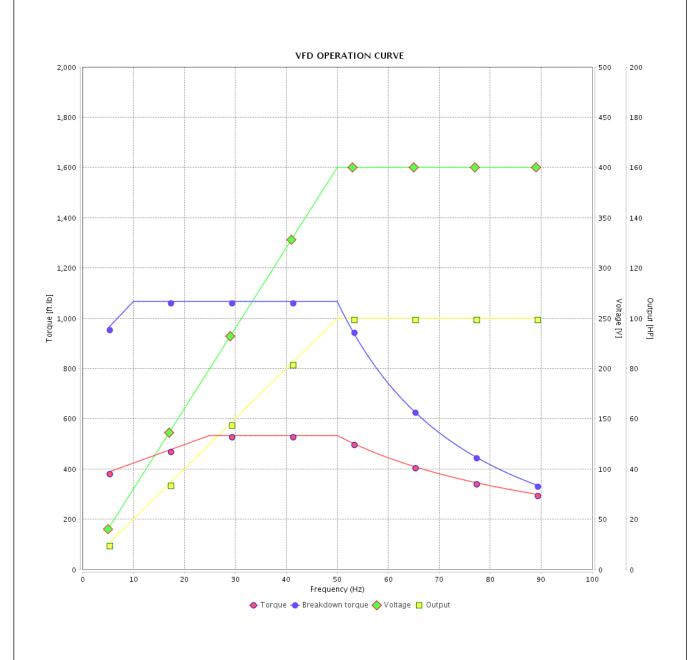
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11853778

Phase



Performance		00 V 50 Hz 6P IE2					
Rated current		Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC		5.2	2 Duty cycle		: Cont.(S1)		
Rated torque		533 ft.lb Insulation cla		n class : F			
Locked rotor torque		90 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	200 %	Temperati	Temperature rise			
Rated speed	: 9	: 985 rpm		Design			
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

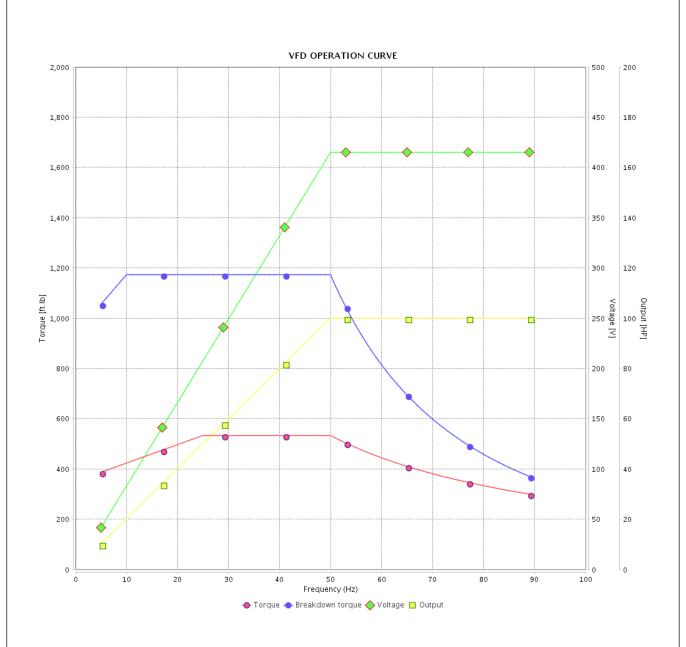
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Performance : 415 V 50 Hz 6P IE2 : 135 A Rated current Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 533 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

