DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22

Frame : 182/4TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 103 lb

Ailliuue		. 1000 III.a.	5.1.	Applox	. weigiit		03 10	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: C	.2242 sq.ft.lb	
Design		: A						
Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		17.5/8.76	7.84	7.62	7.47	10.9	10.3	10.0
L. R. Amperes [A]		144/71.8	65.1	69.3	71.7	68.7	72.1	74.0
LRC [A]		8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code	7.0x(Code H)	7.4x(Code H)
						G)		
No load current [A]	5.80/2.90	2.70	3.00	3.20	2.70	3.00	3.20
Rated speed [RPN	/ 1]	3485	2900	2910	2915	2810	2840	2860
Slip [%]		3.19	3.33	3.00	2.83	6.33	5.33	4.67
Rated torque [ft.lb]		11.3	9.96	9.93	9.91	14.0	13.9	13.8
Locked rotor torqu	e [%]	270	310	350	370	220	250	270
Breakdown torque	[%]	330	360	390	430	260	280	310
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	28s (cold)	27s (cold)	27s (cold)	28s (cold)	27s (cold)	27s (cold)
		17s (hot)	16s (hot)	15s (hot)	15s (hot)	16s (hot)	15s (hot)	15s (hot)
Noise level ²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	88.2	84.2	85.1	85.4	88.8	88.9	89.0
Efficiency (%)	50%	88.5	85.5	85.9	86.2	87.0	87.5	88.0
Efficiency (70)	75%	89.5	87.0	87.6	88.1	87.0	88.0	88.5
	100%	89.5	88.1	88.1	88.7	84.5	86.0	87.0
	25%	0.51	0.48	0.43	0.40	0.58	0.53	0.50
Power Factor	50%	0.75	0.70	0.66	0.63	0.80	0.77	0.74
Fower Factor	75%	0.84	0.82	0.79	0.77	0.88	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.91	0.90	0.88

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6207 ZZ 6206 ZZ Max. traction : 221 lb Sealing : V'Ring V'Ring Max. compression : 324 lb

Lubrication interval : - - Lubricant amount : - 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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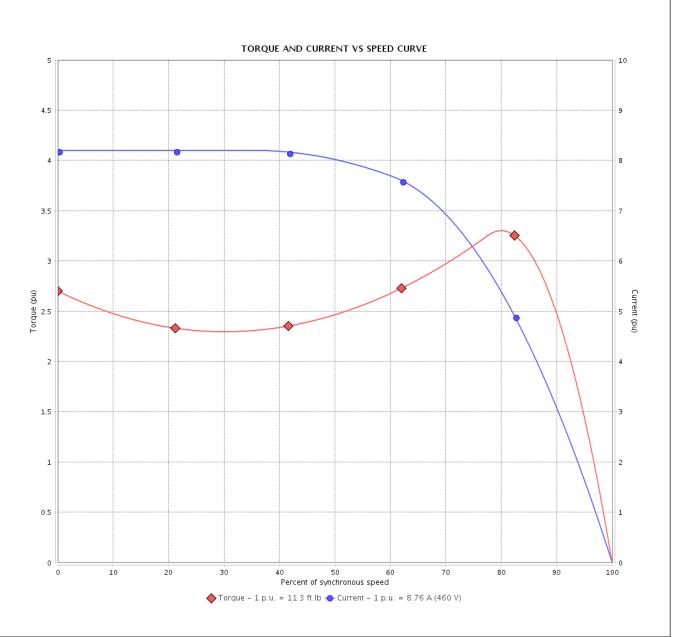


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 17.5/8.76 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 11.3 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3485 rpm Design : A

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11770881 Catalog #: 00736ET3E184TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed 🔷 Torque – 1 p.u. = 9.96 ft.lb 🔷 Current – 1 p.u. = 7.84 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 7.84 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.96 ft.lb : 310 % Locked rotor torque Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2900 rpm Design : A Locked rotor time : 28s (cold) 16s (hot) Date Rev. Performed Checked **Changes Summary**

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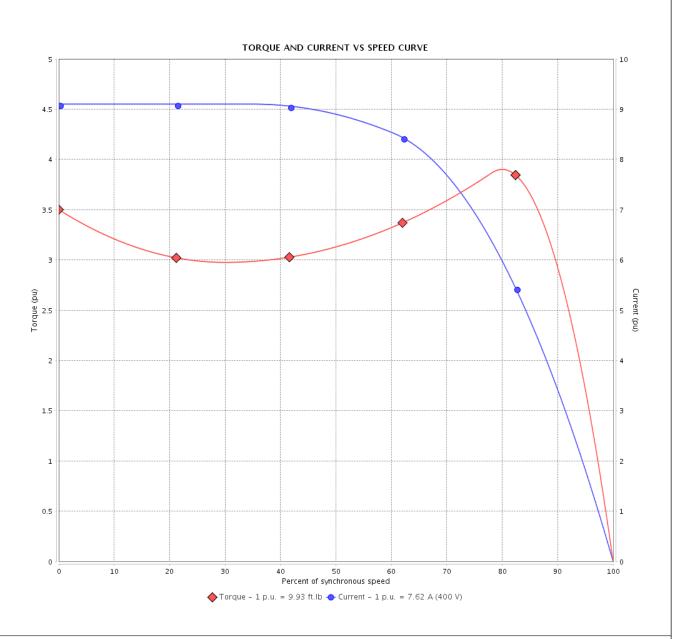


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 7.62 A	Moment of inertia (J)	: 0.2242 sq.ft.lb	
LRC	: 9.1	Duty cycle	: Cont.(S1)	
Rated torque	: 9.93 ft.lb	Insulation class	: F	
Locked rotor torque	: 350 %	Service factor	: 1.00	
Breakdown torque	: 390 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: A	
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: 11770881 Catalog #: 00736ET3E184TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.91 ft.lb ◆ Current - 1 p.u. = 7.47 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 7.47 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 9.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.91 ft.lb Locked rotor torque : 370 % Service factor : 1.00 Breakdown torque : 430 % Temperature rise : 80 K Rated speed : 2915 rpm Design : A Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

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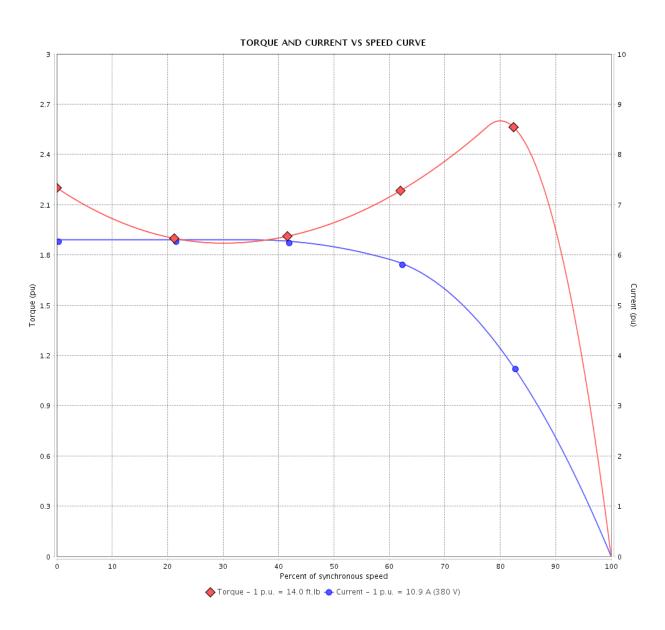
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184TC-W22

11770881



Performance : 380 V 50 Hz 2P Rated current : 10.9 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 14.0 ft.lb Locked rotor torque : 220 % Service factor : 1.00 : 80 K Breakdown torque : 260 % Temperature rise Rated speed : 2810 rpm Design : A

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11770881 Catalog #: 00736ET3E184TC-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. = 13.9 ft.lb ◆ Current - 1 p.u. = 10.3 A (400 V) Performance : 400 V 50 Hz 2P IE1 Rated current : 10.3 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 13.9 ft.lb Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2840 rpm Design : A Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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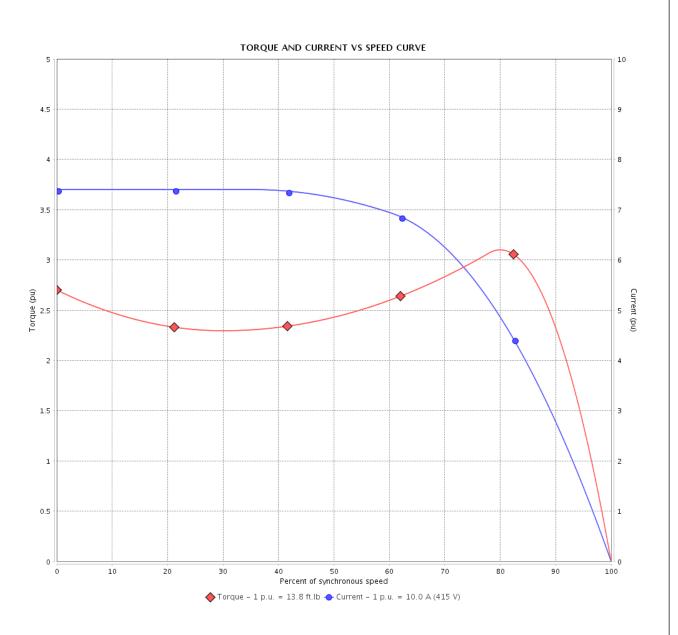


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 10.0 A	Moment of inertia (J)	: 0.2242 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 13.8 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: A
Locked rotor time	: 27s (cold) 15s (hot)	'	

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

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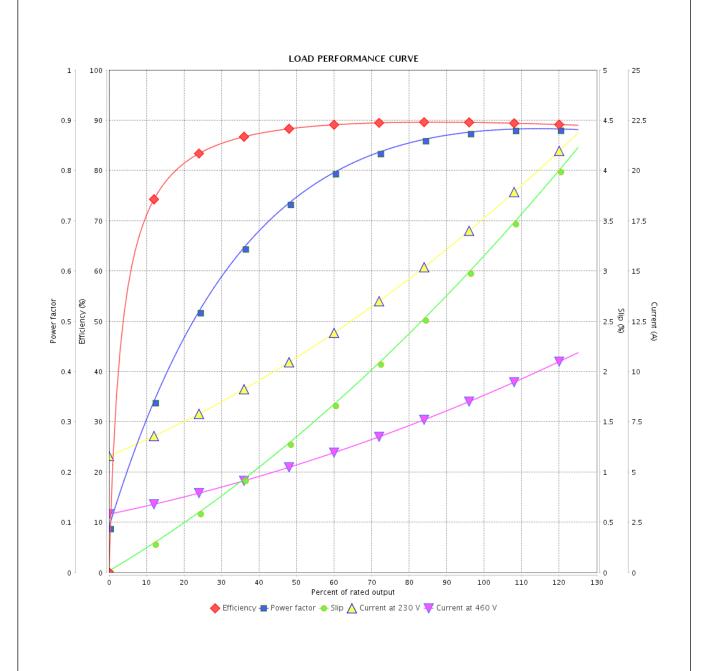


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

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Performance	:	230/460 V 60 Hz 2P				
Rated current	:	: 17.5/8.76 A		Moment of inertia (J)		.lb
LRC	:	8.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	11.3 ft.lb	Insulation	class	: F	
Locked rotor torc	que :	270 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	330 %	Temperat	ure rise	: 80 K	
Rated speed	:	3485 rpm	Design		: A	
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Phase

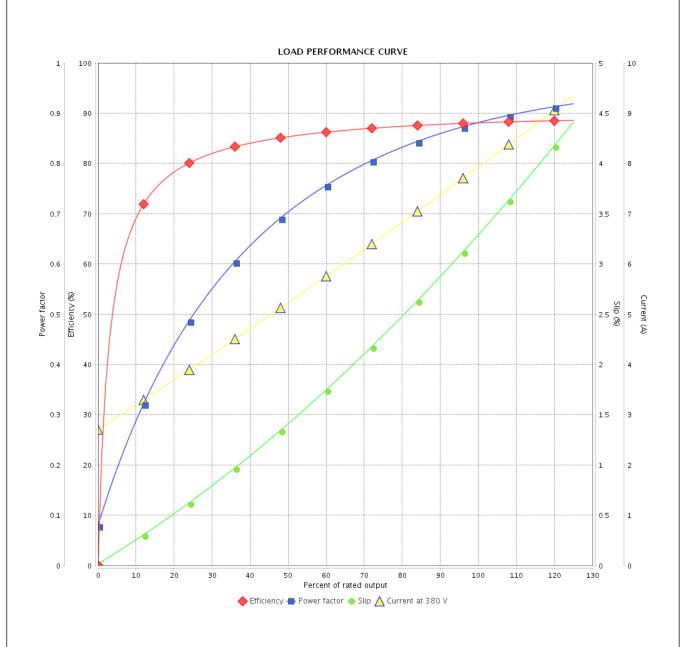
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Performance : 380 V 50 Hz 2P IE3 : 7.84 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 9.96 ft.lb Insulation class Rated torque : F Locked rotor torque : 310 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2900 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



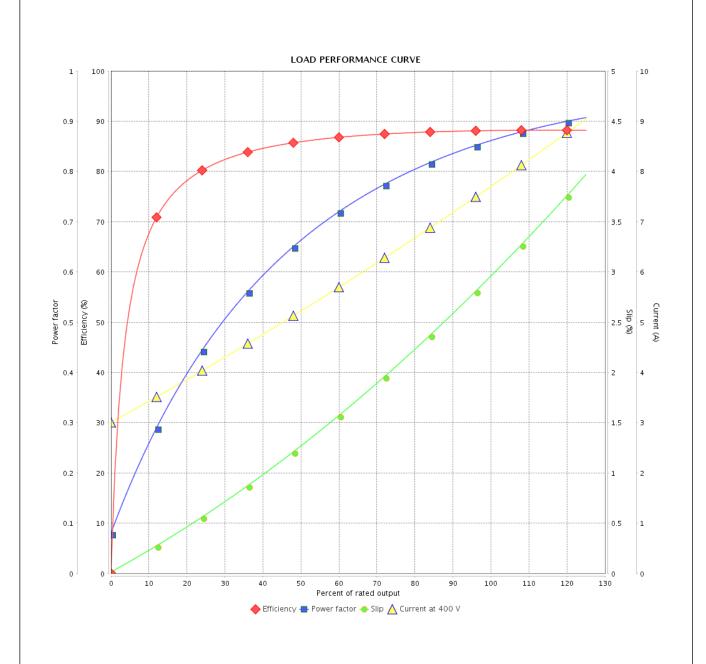
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : A	b
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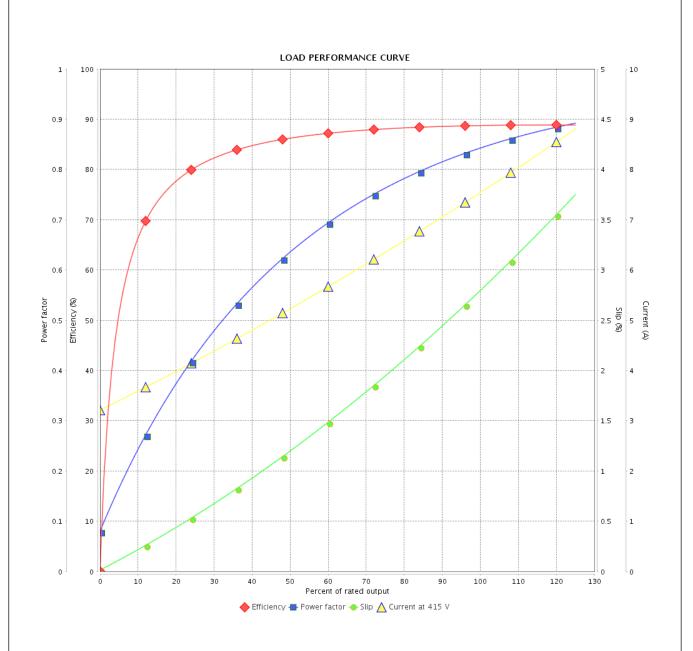
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Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.47 A : 9.6 : 9.91 ft.lb : 370 % : 430 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A)
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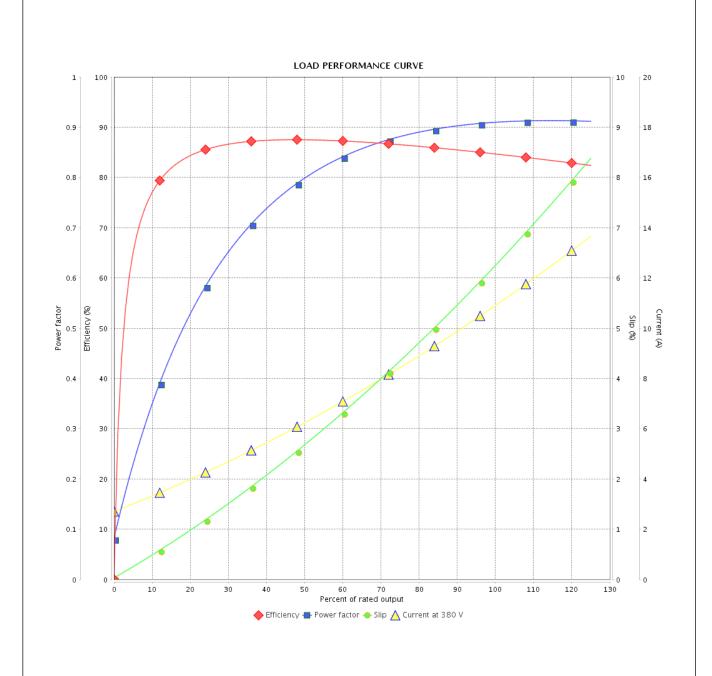
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Performance	: 3	80 V 50 Hz 2P				
Rated current	: 1	: 10.9 A		f inertia (J)	: 0.2242 sq.ft.	.lb
LRC	: 6	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	4.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	810 rpm	Design		: A	
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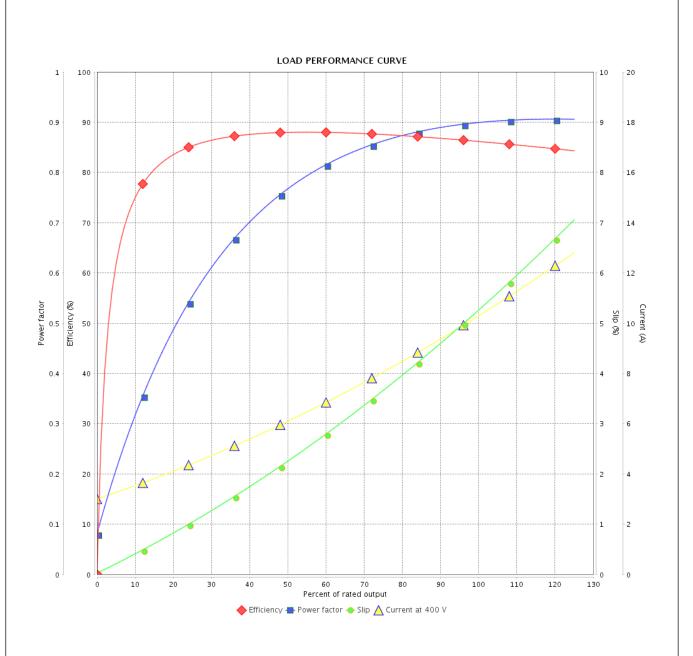


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11770881

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Performance	: 400 V 50 Hz 2P IE1				
Rated current : 10.3 A		Moment o	f inertia (J)	: 0.2242 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque : 13.9 ft.lb		Insulation	class	: F ` ´	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 2840 rpm	Design		: A	
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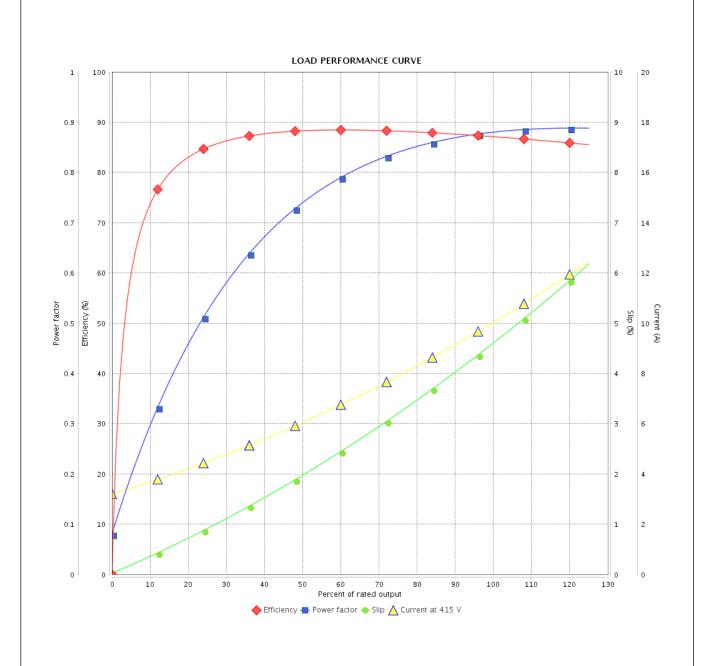
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Phase

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.0 A : 7.4 : 13.8 ft.lb : 270 % : 310 % : 2860 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 0.2242 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb
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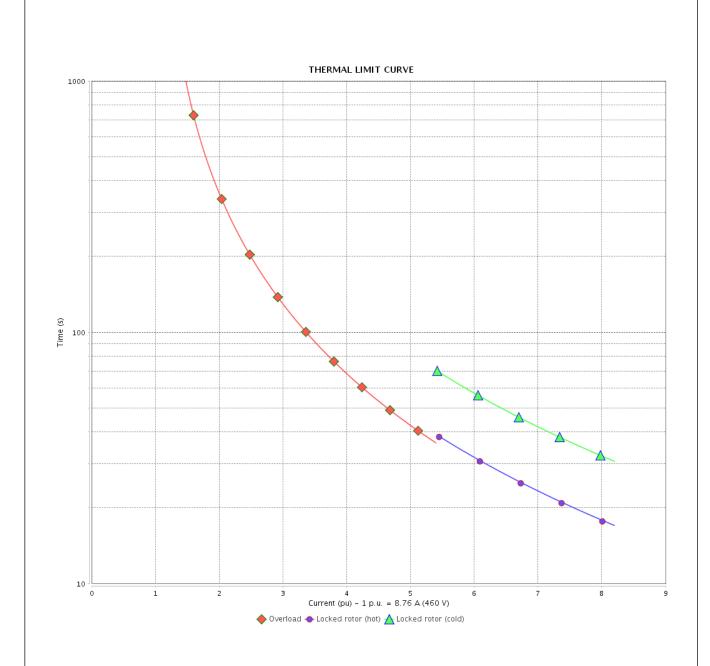


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11770881	
	Р	hase		Catalog # :	00736ET3E1	84TC-W22
Performance		30/460 V 60 Hz 2P	T			
Rated current LRC	: 17 : 8.	7.5/8.76 A 2	Moment o Duty cycle	f inertia (J)	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque	: 11	1.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 30 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		485 rpm	Design		: A	
Heating constant						
Cooling constant		Channa O		Derf	Ohl l	D-1-
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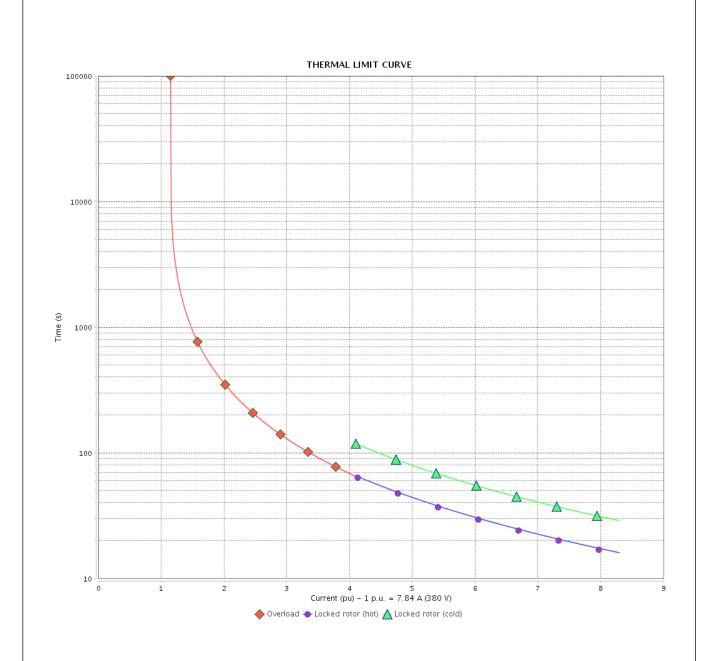


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11770881 00736ET3E1	84TC-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 7.84 A : 8.3	Moment o	of inertia (J)	: 0.2242 sq.ft.l	b
Rated torque		: 9.96 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 310 % : 360 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 360 % : 2900 rpm	Temperat Design	uie lise	: 80 K : A	
Heating constan						
Cooling constan	t			,	1	
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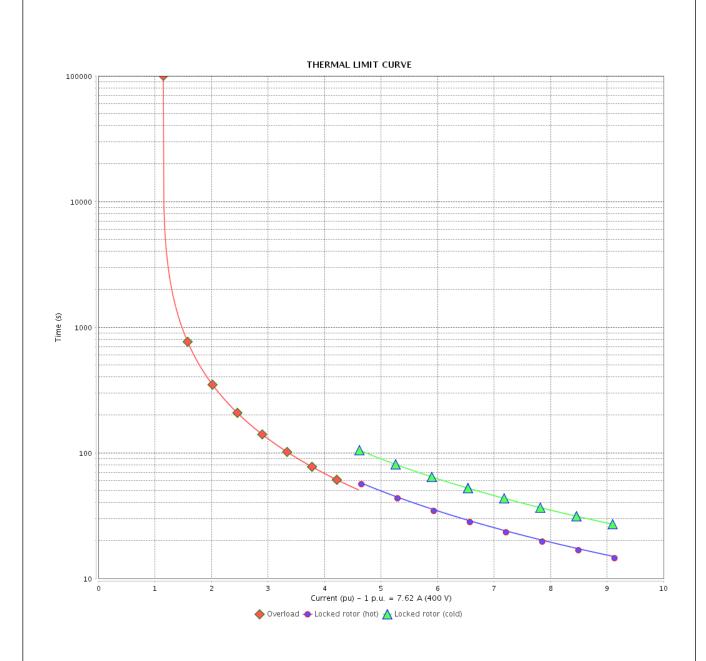


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11770881 00736ET3E1	84TC-W22
				-		
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 7.62 A : 9.1	Moment of Duty cycle	of inertia (J) e	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque		: 9.93 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 350 % : 390 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2910 rpm	Design		: A	
Heating constan						
Cooling constan	t	Changes Commercial		Dowforms!	Charles I	Data
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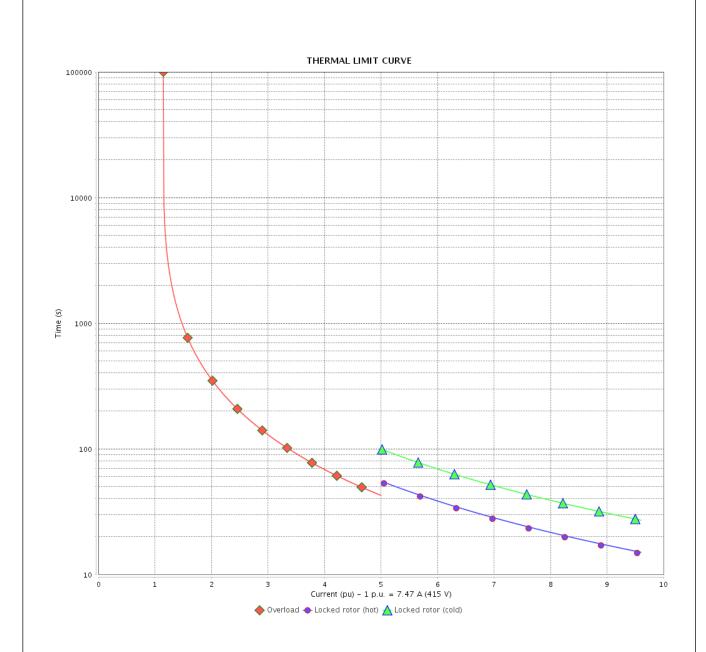


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11770881 00736ET3E1	84TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: : que :	415 V 50 Hz 2P IE3 7.47 A 9.6 9.91 ft.lb 370 % 430 % 2915 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : A	b
Heating constant Cooling constant Rev.	t	Changes Summary	2001911	Performed	Checked	Date
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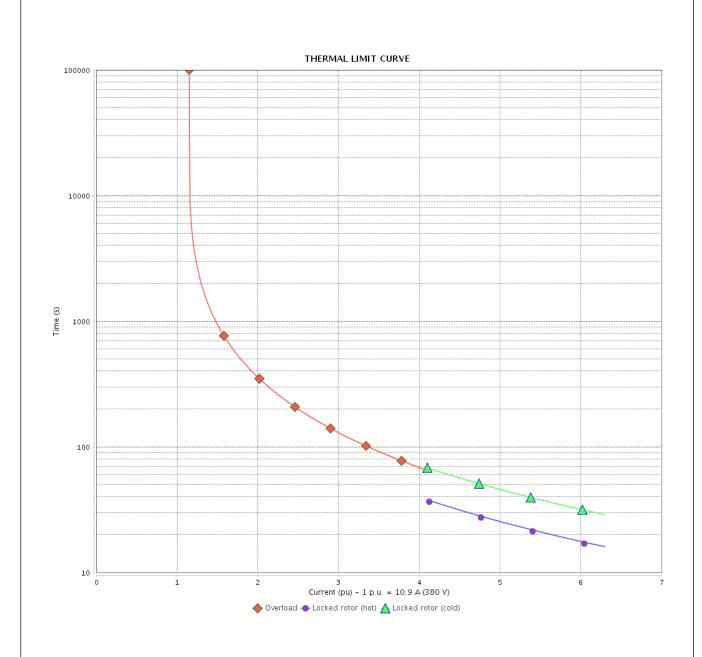


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11770881	
				Catalog # :	00736ET3E1	84 I C-VV22
Performance		: 380 V 50 Hz 2P				
Rated current LRC		: 10.9 A : 6.3	Moment of Duty cycle	of inertia (J) e	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque		: 14.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2810 rpm	Design	a. 5 1100	: A	
Heating constan	t					
Cooling constant	t					
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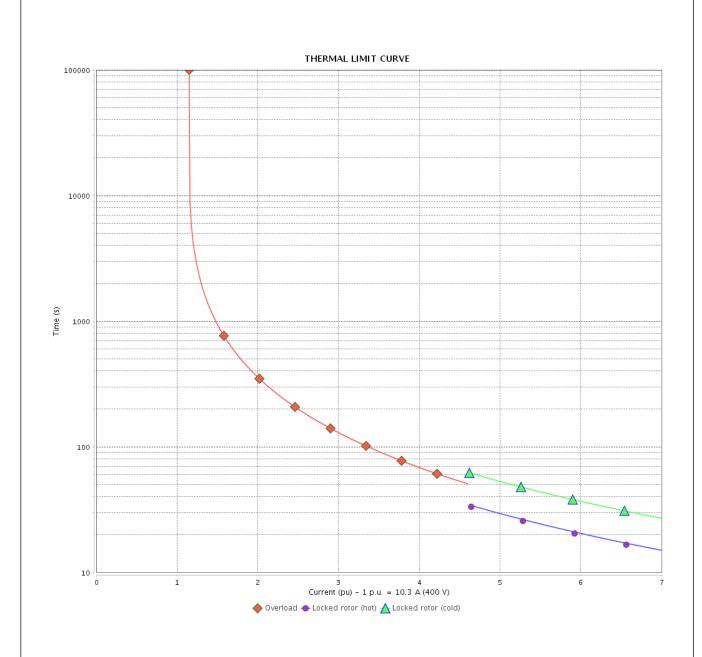


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11770881 00736ET3E1	84TC-W22
Performance		: 400 V 50 Hz 2P IE1				
Rated current LRC		: 10.3 A : 7.0	Duty cycle		: 0.2242 sq.ft.l : Cont.(S1)	D
Rated torque Locked rotor tord		: 13.9 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 280 %	Temperat		: 80 K	
Rated speed		: 2840 rpm	Design		: A	
Heating constant						
Cooling constant	t 	Changes Comes		Dorform	Charles -	Data
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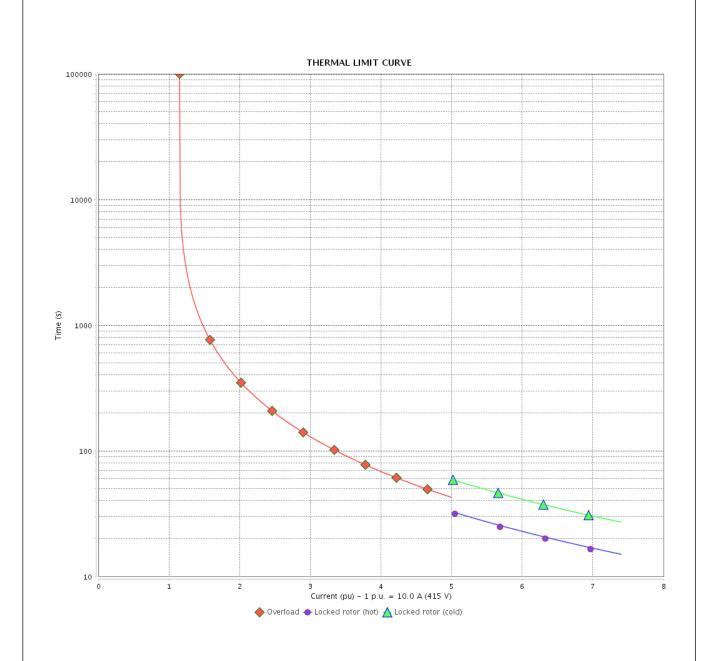


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Product line		: NEMA Premium Efficiency ` Phase		Product code :	11770881 00736ET3E1	84TC-W22
Performance Rated current LRC Rated torque Locked rotor toro	i : : : : :	415 V 50 Hz 2P IE2 10.0 A 7.4 13.8 ft.lb 270 %	Duty cycle Insulation Service fa	class ctor	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.00	b
Breakdown torqu Rated speed Heating constant	:: t	310 % 2860 rpm	Temperatu Design	116 119 6	: 80 K : A	
Cooling constant Rev.	:	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

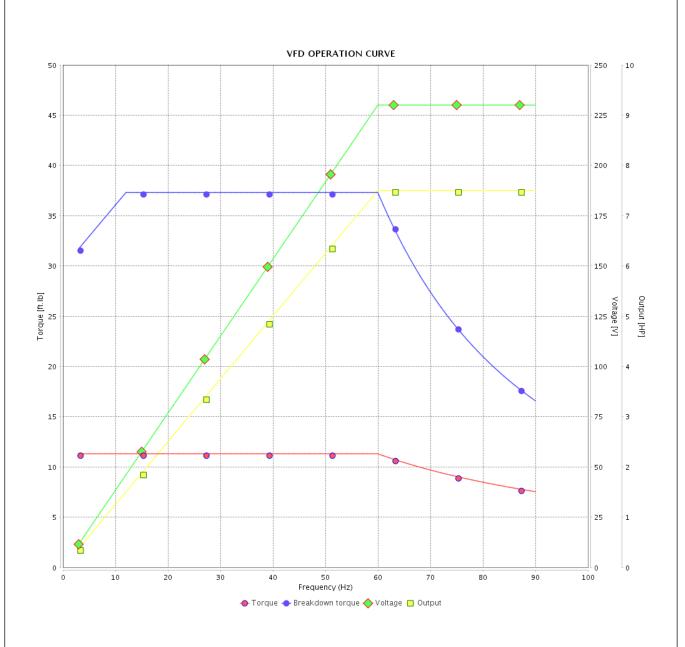
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11770881

Catalog #: 00736ET3E184TC-W22

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Performance	: 230/460 V 60 Hz 2P	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.5/8.76 A : 8.2 : 11.3 ft.lb : 270 % : 330 % : 3485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : A				
Rev.	Changes Summary		Performed	Checked	Date			
Performed by								
Checked by				Page	Revision			

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Date

Three Phase Induction Motor - Squirrel Cage

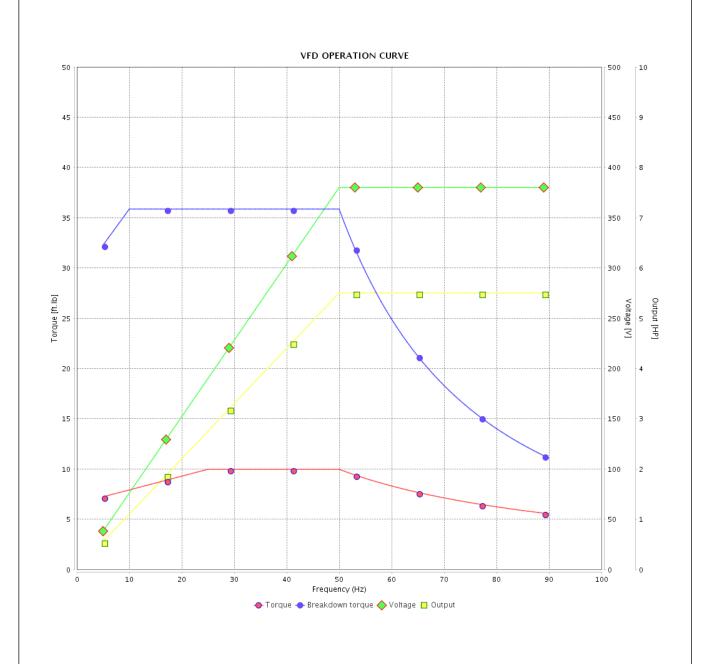


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance	:	380 V 50 Hz 2P IE3				
Rated current		7.84 A	Moment o	Moment of inertia (J)		lb
LRC	:	8.3	Duty cycle)	: Cont.(S1)	
Rated torque	:	9.96 ft.lb	Insulation	class	: F	
Locked rotor torque	:	310 %	Service fa	ctor	: 1.00	
Breakdown torque		360 %	Temperati	Temperature rise		
Rated speed	:	2900 rpm	Design		: A	
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Customer :

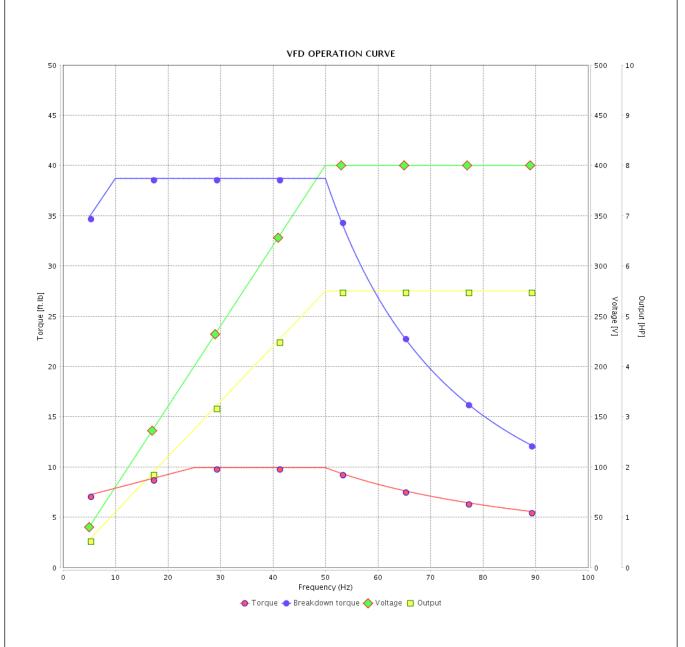
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11770881

Catalog #: 00736ET3E184TC-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
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Checked by				Page	Revision

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Three Phase Induction Motor - Squirrel Cage

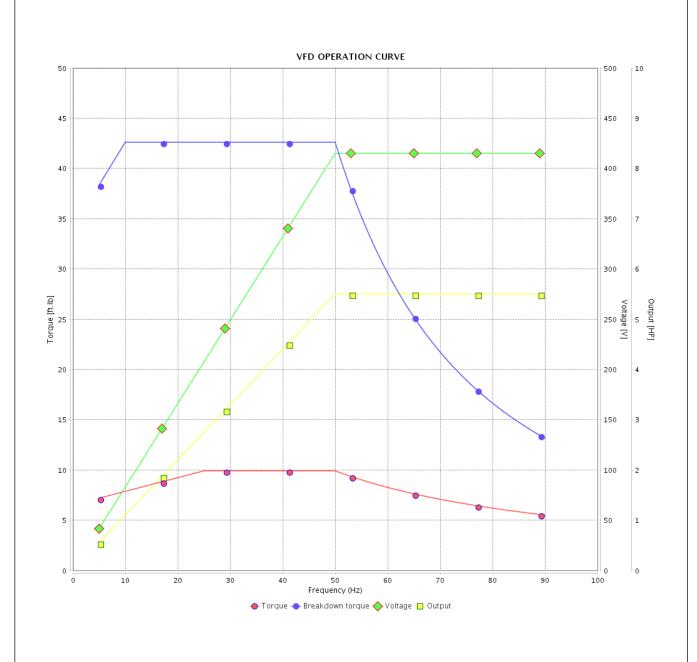


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 7.	47 A	Moment o	of inertia (J)	: 0.2242 sq.ft.lb	
LRC	: 9.	6	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 9.	91 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 37	70 %	Service fa	ector	: 1.00	
Breakdown torqu	e : 43	30 %	% Temperature rise		: 80 K	
Rated speed	ed : 2915 rpm Design			: A		
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Three Phase Induction Motor - Squirrel Cage



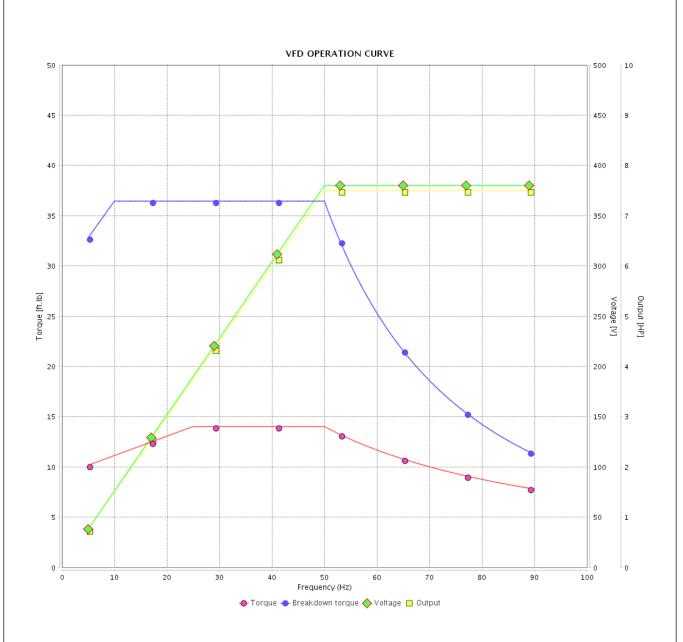
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11770881

Catalog #: 00736ET3E184TC-W22



Performance : 380 V 50 Hz 2P : 10.9 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 14.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2810 rpm Design : A Rev. Performed Checked Date **Changes Summary**

Performed by

Checked by

Date 12/04/2022 Periodic is not allowed without written authorization of WEC S/A

Three Phase Induction Motor - Squirrel Cage

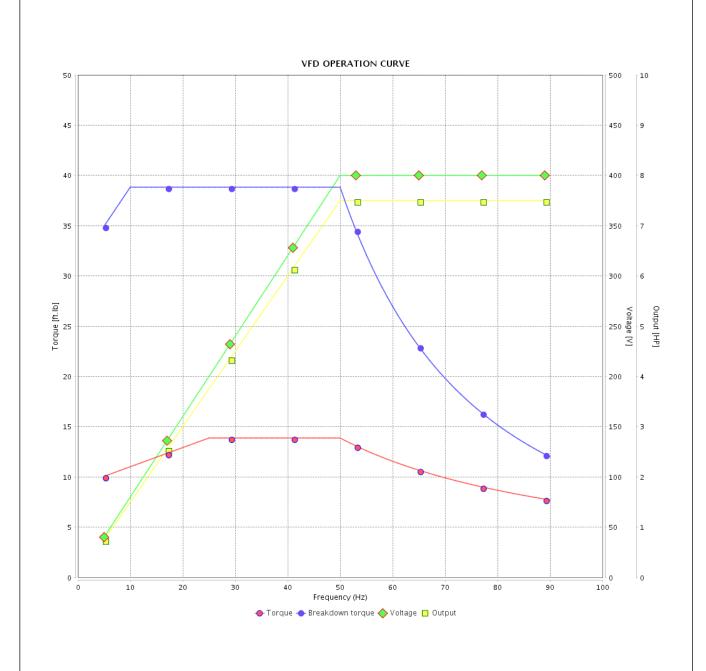


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11770881

Phase

Catalog #: 00736ET3E184TC-W22



Performance	: 40	00 V 50 Hz 2P IE1				
Rated current	ted current : 10.3 A		Moment o	of inertia (J)	: 0.2242 sq.ft.lb	
LRC	: 7.	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 13	3.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 25	50 %	Service fa	actor	: 1.00	
Breakdown torque	: 28	80 %	7 % Temperature rise		: 80 K	
Rated speed : 2840 rpm		840 rpm	Design	Design		
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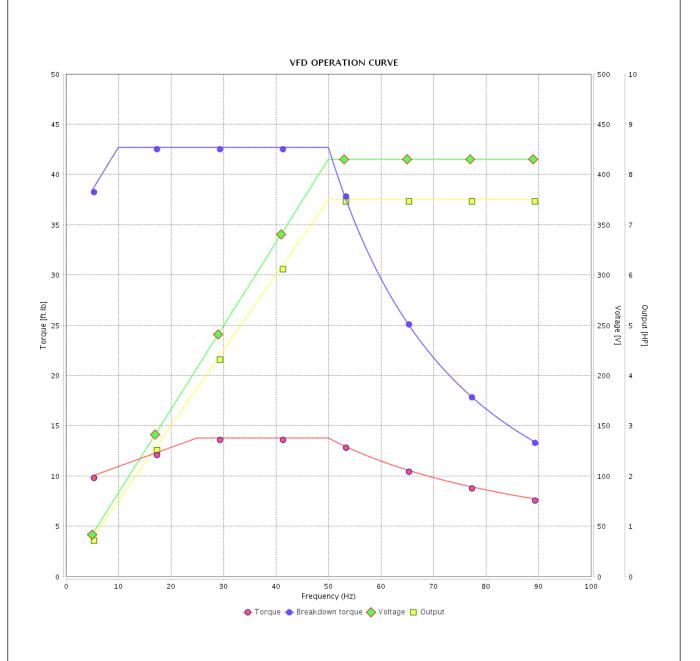
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184TC-W22

11770881



Performance	: 41	15 V 50 Hz 2P IE2				
Rated current	eurrent : 10.0 A		Moment of	Moment of inertia (J)		.lb
LRC	: 7.	4	Duty cycle	е	: Cont.(S1)	
Rated torque	: 13	3.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 27	70 %	Service fa	actor	: 1.00	
Breakdown torque	e : 3′	10 %	% Temperature rise		: 80 K	
Rated speed	ed speed : 2860 rpm Design		Design		: A	
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