### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13418946

Phase

Catalog #: 00736ET3E184JM-W22

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 101 lb

Protection degree	е	: IP55		Momer	nt of inertia (J)	: C	0.2242 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 [RPM	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 <sup>2</sup>		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
Elliciency (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
Dower Factor	50%	0.75	0.70	0.66	0.63	0.80	0.77	0.74
Power 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 : 6307 ZZ 6206 ZZ Max. traction : 222 lb Sealing : V'Ring V'Ring Max. compression : 323 lb

Sealing : V'Ring V'Ring | Max. compression : 323
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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#### Three Phase Induction Motor - Squirrel Cage



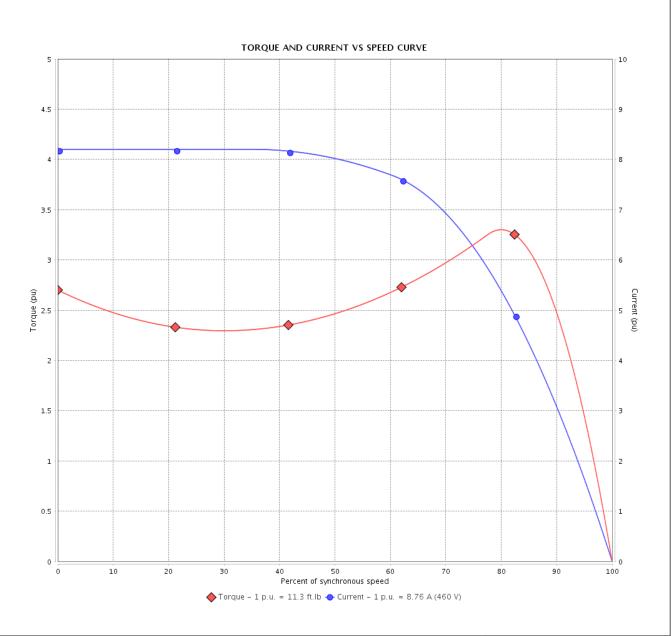
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-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 Service factor Locked rotor torque : 270 % : 1.25 : 80 K Breakdown torque : 330 % Temperature rise Rated speed : 3485 rpm Design : A

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

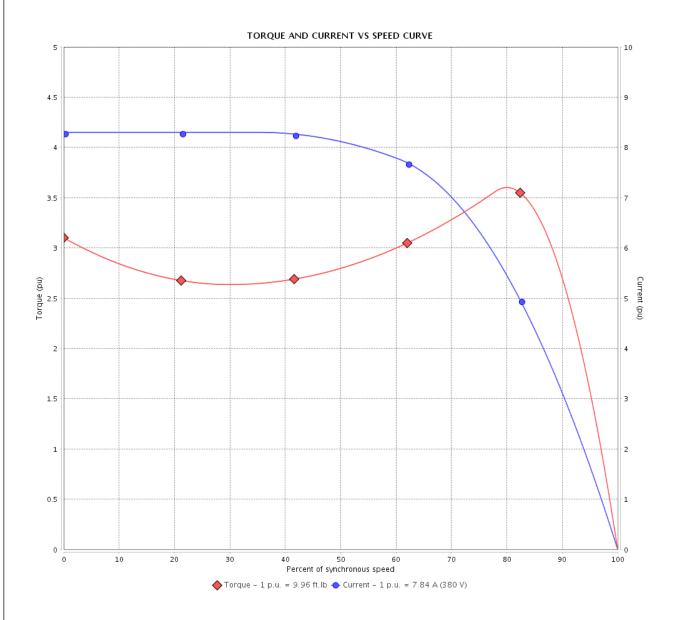
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13418946

> Catalog #: 00736ET3E184JM-W22



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)	
Rated torque	: 9.96 ft.lb	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.00	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 2900 rpm	Design	: A	
Locked rotor time	: 28s (cold) 16s (hot)		_	

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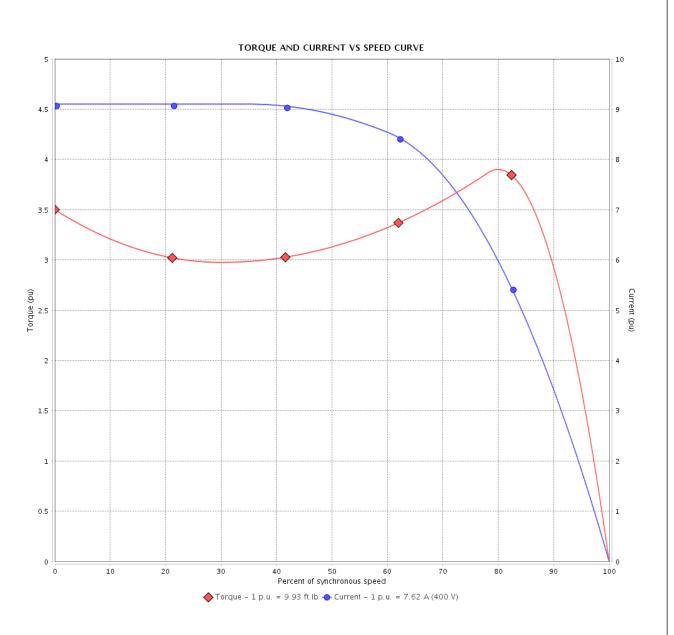
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184JM-W22

13418946



Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K
Rated speed	: 2910 rpm	Design	: A
Locked rotor time	: 27s (cold) 15s (hot)		

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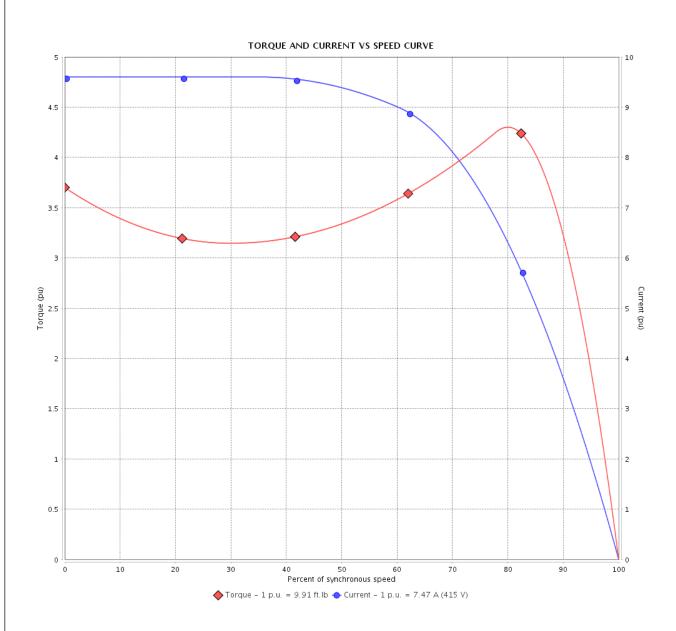
#### Three Phase Induction Motor - Squirrel Cage



Customer Product line

: NEMA Premium Efficiency Three-Product code: 13418946

> Catalog #: 00736ET3E184JM-W22



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)
Rated torque	: 9.91 ft.lb	Insulation class	:F
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)		

Locked folor tilli	. 2	75 (COId) 155 (110t)			
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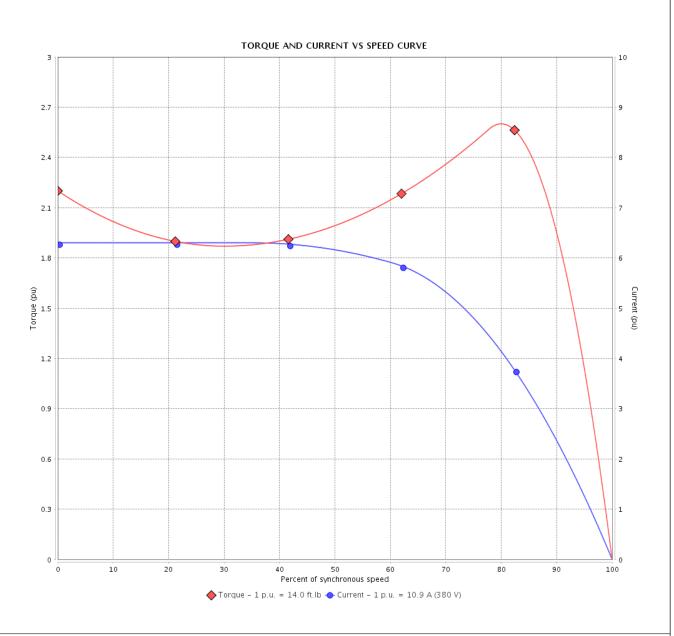
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-W22



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 Service factor Locked rotor torque : 220 % : 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: 13418946 Catalog #: 00736ET3E184JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 13.9 ft.lb ◆ Current - 1 p.u. = 10.3 A (400 V) : 400 V 50 Hz 2P IE1 Performance

Rated current	: 10	.3 A	A Moment of inertia (J) :		: 0.2242 sq.ft.lb		
LRC	: 7.0	)		Duty cycle		: Cont.(S1)	
Rated torque	: 13	.9 ft.lb		Insulation c	lass	: F	
Locked rotor torqu	ue : 25	0 %		Service factor		: 1.00	
Breakdown torque	e : 28	0 %		Temperature rise		: 80 K	
Rated speed	: 28	40 rpm		Design		: A	
Locked rotor time	: 27	7s (cold) 15s (hot)	)				
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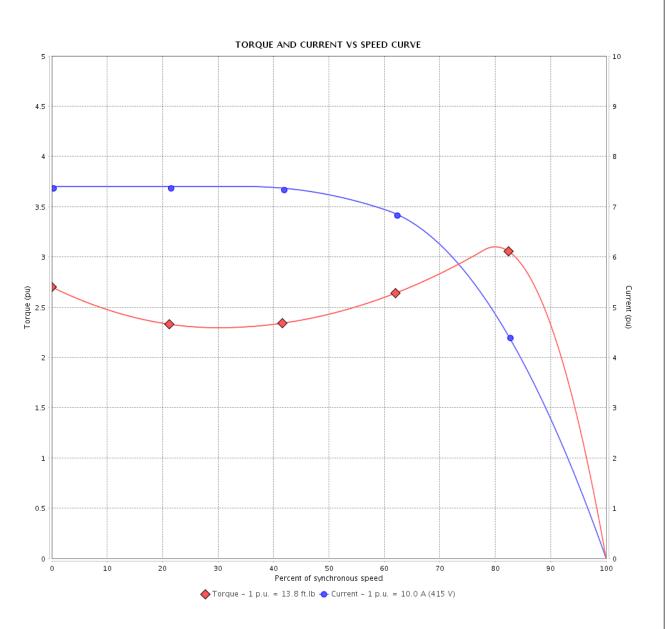
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184JM-W22

13418946



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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
Locked rotor time	: 27s (cold) 15s (hot)			
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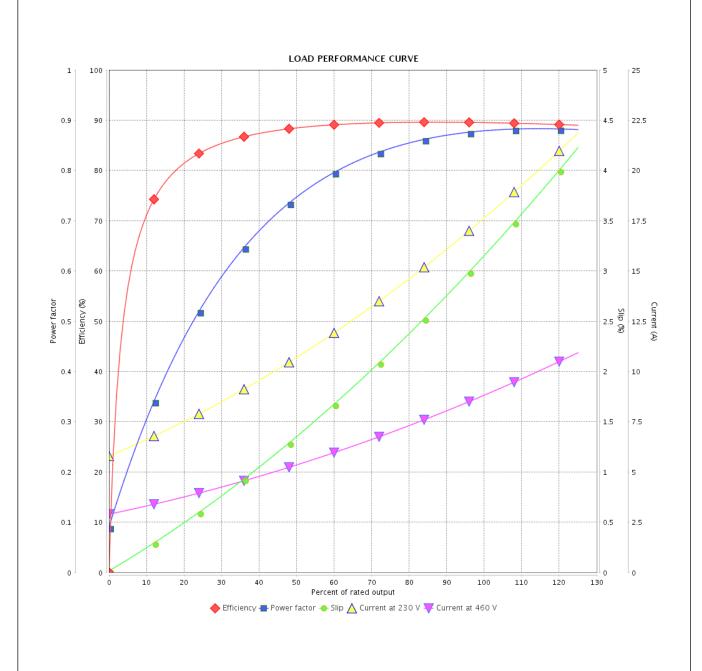


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13418946

Phase

Catalog #: 00736ET3E184JM-W22



Performance	::	230/460 V 60 Hz 2P				
Rated current : 17		17.5/8.76 A	Moment of	Moment of inertia (J)		.lb
LRC	: 8	8.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	11.3 ft.lb	Insulation	class	: F	
Locked rotor toro	que : :	270 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	330 %	Temperat	Temperature rise		
Rated speed	::	3485 rpm	Design		: A	
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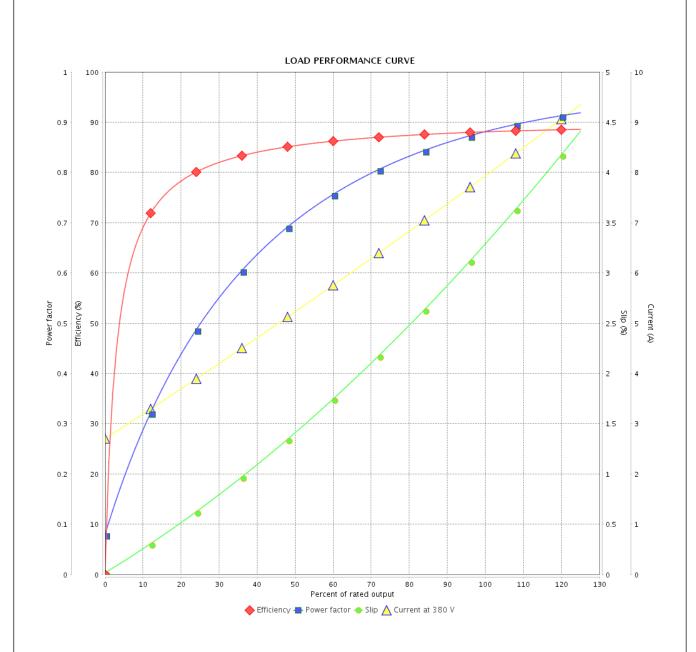
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184JM-W22

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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 Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



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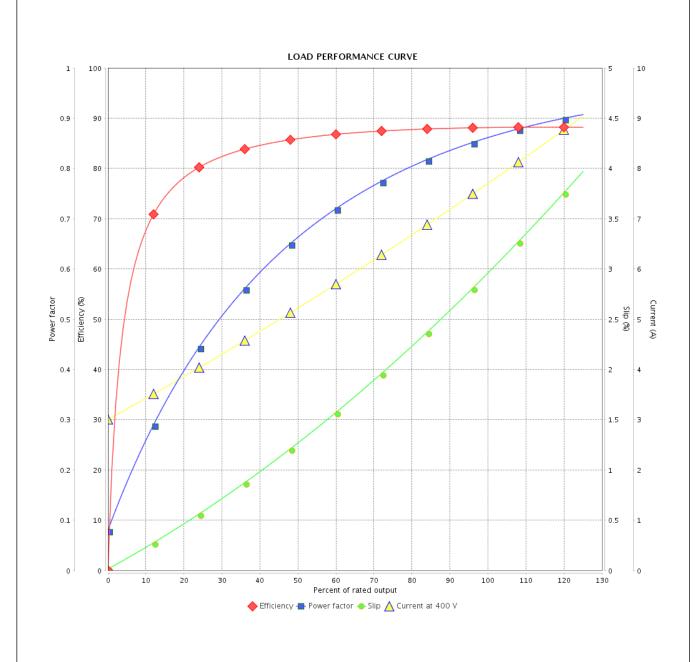
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 7.62 A : 9.1 : 9.93 ft.lb : 350 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 390 % : 2910 rpm	Temperature rise Design		: 80 K : A	
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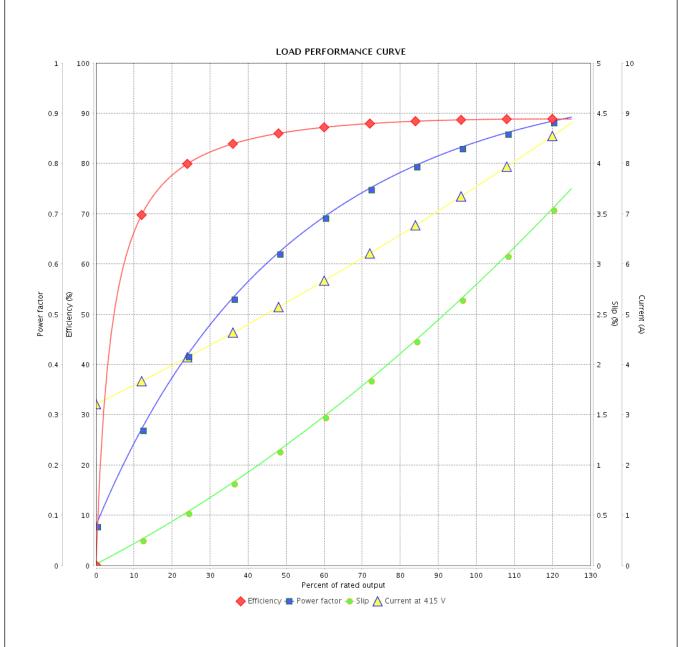
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Performance	: 415 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.47 A : 9.6 : 9.91 ft.lb : 370 % : 430 % : 2915 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 0.2242 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : A	: F : 1.00 : 80 K	
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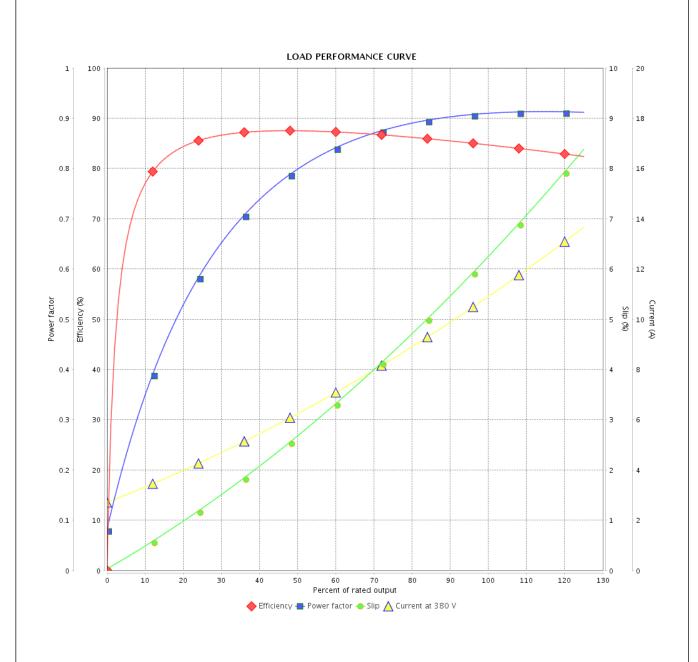


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13418946

Phase

Catalog #: 00736ET3E184JM-W22



Performance	: 3	380 V 50 Hz 2P					
Rated current	: 1	10.9 A	Moment o	f inertia (J)	: 0.2242 sq.ft.lb		
LRC	: 6	3.3	Duty cycle	)	: Cont.(S1)		
Rated torque	: 1	14.0 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 2	220 %	Service fa	ctor	: 1.00		
Breakdown torque	e : 2	260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	2810 rpm	Design		: A		
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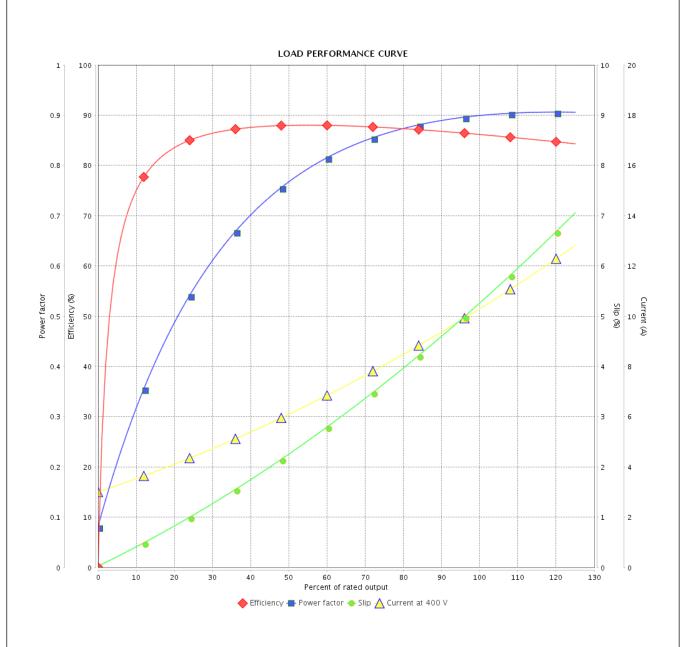
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Phase

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Performance	: 4	00 V 50 Hz 2P IE1	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 2	0.3 A .0 3.9 ft.lb 50 % 80 % 840 rpm	Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2242 sq.ft : Cont.(S1) : F : 1.00 : 80 K : A	.lb
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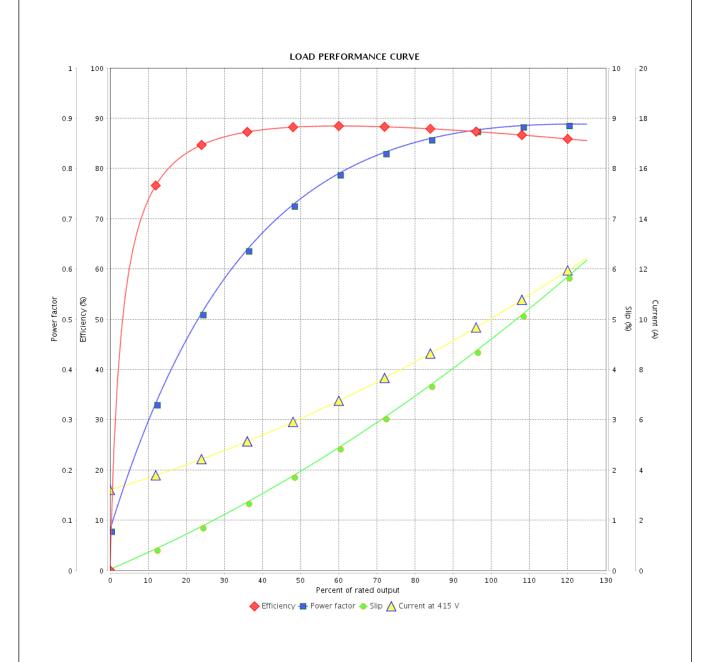
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13418946

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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2242 sq.ft : Cont.(S1) : F : 1.00 : 80 K : A	.lb
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### Three Phase Induction Motor - Squirrel Cage

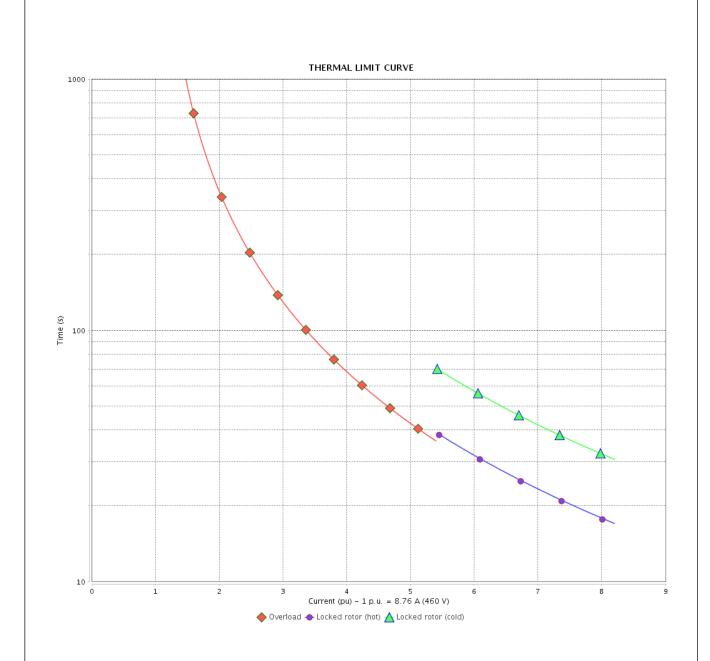


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13418946	
				Catalog # :	00736ET3E1	84JM-W22
Performance		: 230/460 V 60 Hz 2P		· · · · · · · · · · · · · · · · · · ·	0.0040 %1	
Rated current LRC		: 17.5/8.76 A : 8.2	Moment of Duty cycle	of inertia (J) e	: 0.2242 sq.ft.l : Cont.(S1)	D
Rated torque	:	: 11.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		: 270 % : 330 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 3485 rpm	Design	<del>-</del>	: A	
Heating constant						
Cooling constant						
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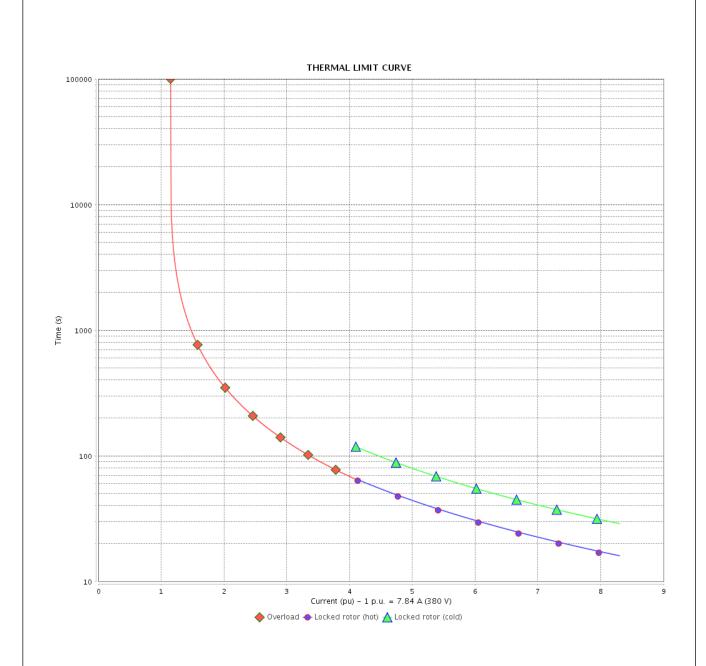


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13418946	
				Catalog # :	00736ET3E1	84JIVI-VVZZ
Performance		: 380 V 50 Hz 2P IE3	T			
Rated current LRC		: 7.84 A : 8.3	Moment of Duty cycle	of inertia (J)	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque	:	: 9.96 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 310 % : 360 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2900 rpm	Design	ui 0 1100	: A	
Heating constant	t					
Cooling constant	t					
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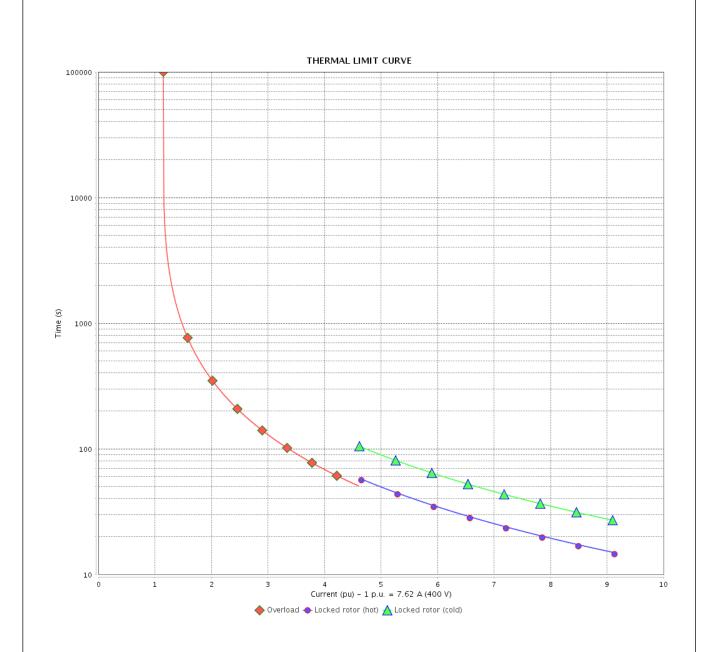


Customer	:					
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	13418946 00736ET3E1	84JM-W22
Performance Rated current	: 7	400 V 50 Hz 2P IE3 7.62 A	Moment o	f inertia (J)	: 0.2242 sq.ft.	b
LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 que : 3 ue : 3	9.1 9.93 ft.lb 350 % 390 % 2910 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.00 : 80 K : A	
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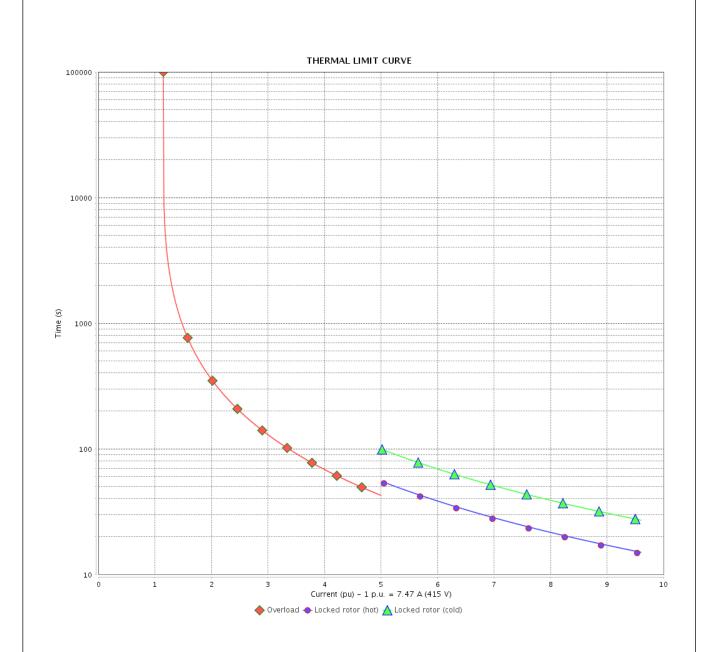


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	13418946 00736ET3E1	84JM-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: : que :	415 V 50 Hz 2P IE3 7.47 A 9.6 9.91 ft.lb 370 % 430 % 2915 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : A	b
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

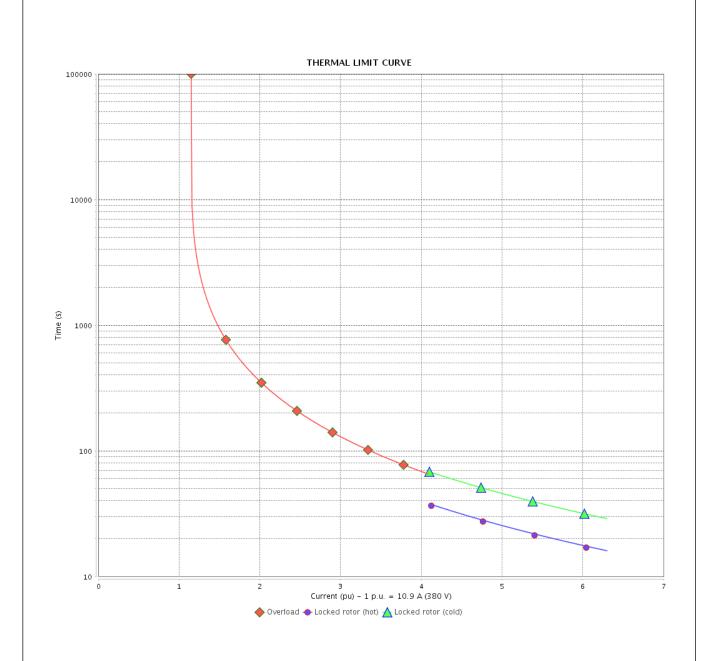


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	13418946 00736ET3E1	84JM-W22
Performance Rated current	: 10	30 V 50 Hz 2P 0.9 A	Moment o	f inertia (J)	: 0.2242 sq.ft.l	b
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 14 : 22 : 26		Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.00 : 80 K : A	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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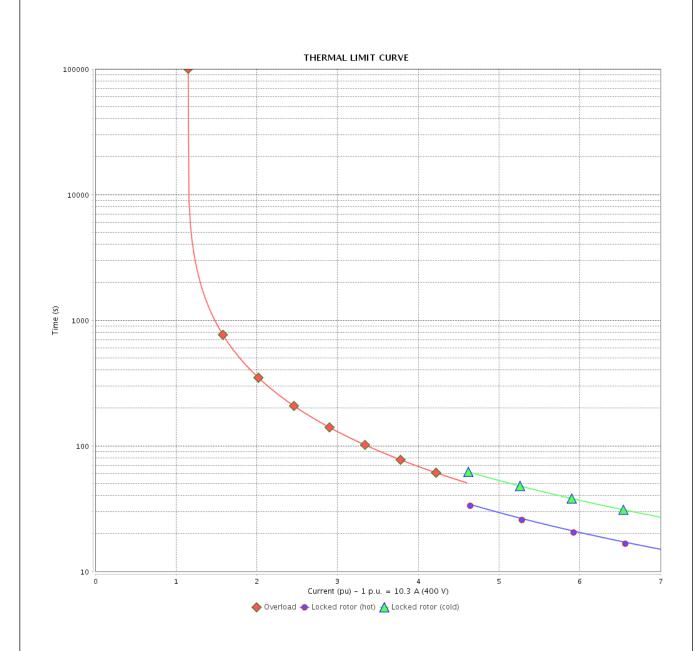


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	13418946 00736ET3E	184JM-W22
Performance	: 400 V 50 Hz 2P IE1				
Rated current	: 10.3 A : 7.0	Moment o	of inertia (J)	: 0.2242 sq.ft.	lb
LRC Rated torque	: 13.9 ft.lb	Duty cycle	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 250 % : 280 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed	: 2840 rpm	Design		: A	
Heating constant Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

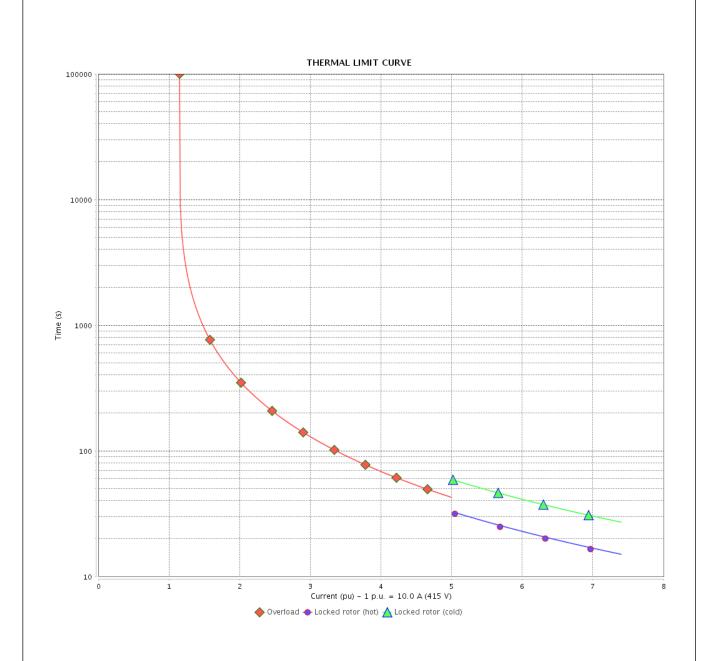


LRC : 7.4 Duty cycle : Cont.(S1) Rated torque : 13.8 ft.lb Insulation class : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2860 rpm Design : A  Heating constant Cooling constant Rev. Changes Summary Performed Checked Date  Performed by Checked by Page Revision	Customer	:	:				
Rated current : 10.0 A	Product line						84JM-W22
Rated current : 10.0 A							
Rated current : 10.0 A	Performance	.,	415 V 50 Hz 2P IE2				
Rev. Changes Summary Performed Checked Date  Performed by Checked by Page Revision	Rated current LRC Rated torque Locked rotor tord	que : :	10.0 A 7.4 13.8 ft.lb 270 % 310 %	Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.00 : 80 K	b
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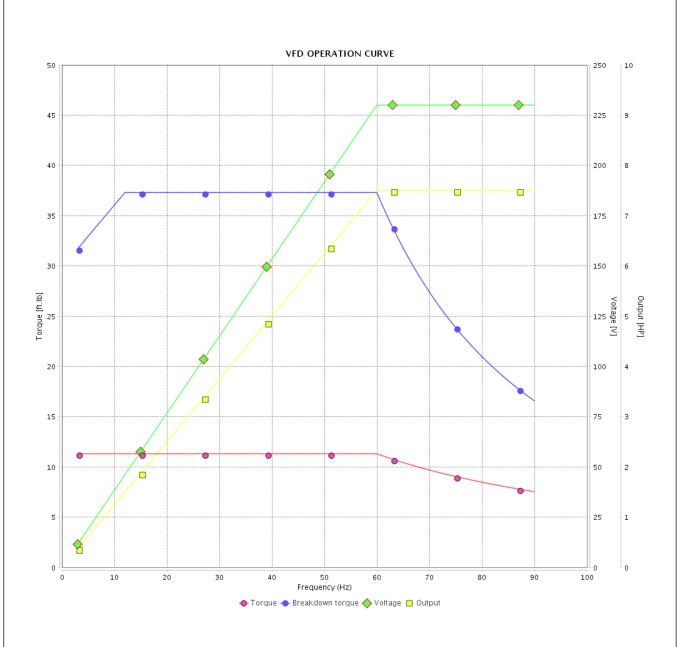
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-W22

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

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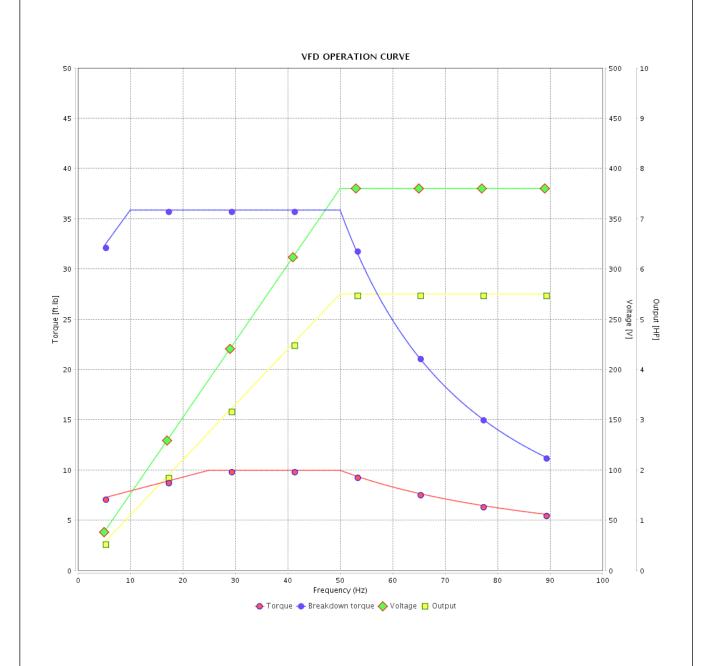


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13418946

Phase

Catalog #: 00736ET3E184JM-W22



Performance	::	380 V 50 Hz 2P IE3				
Rated current	:	7.84 A	Moment o	f inertia (J)	: 0.2242 sq.ft.	.lb
LRC	: 8	3.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 9	9.96 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	310 %	Service fa	ctor	: 1.00	
Breakdown torque	::	360 %	Temperati	ıre rise	: 80 K	
Rated speed	::	2900 rpm	Design		: A	
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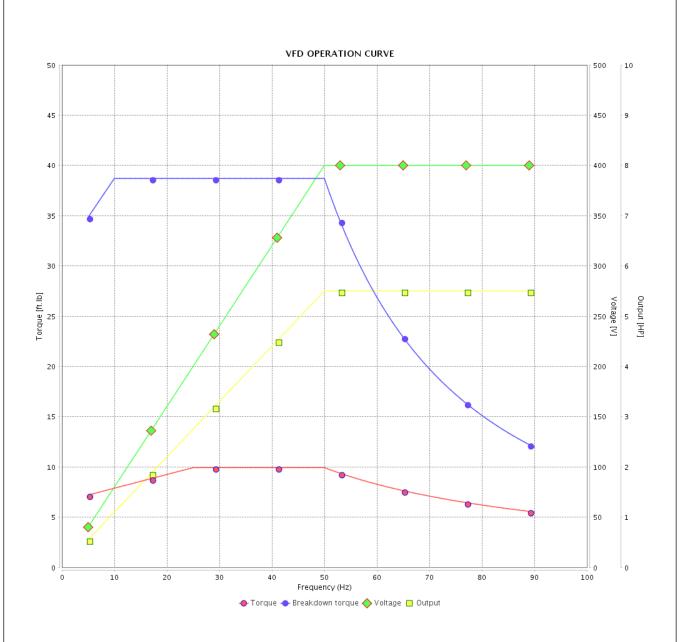
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

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Performance		: 400 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ue	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2242 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb
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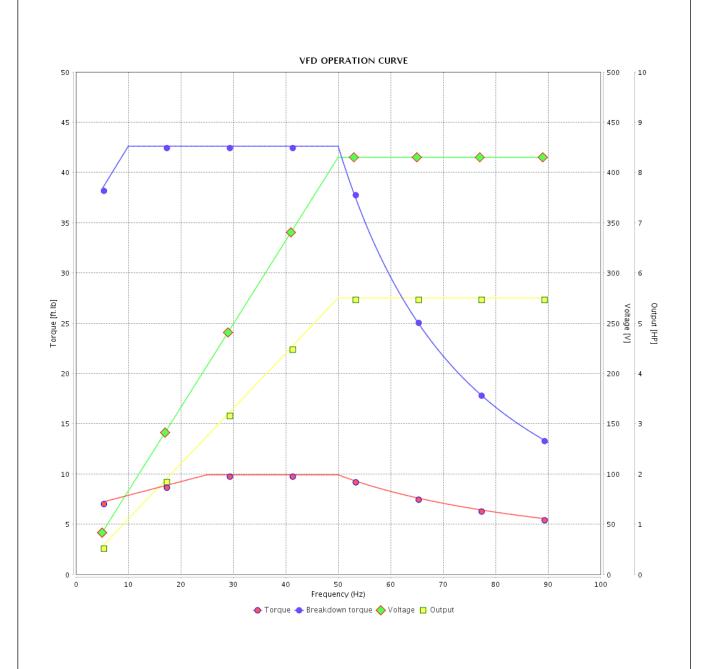


Customer

Product line : NEMA Premium Efficiency Three-Product code:

13418946

Catalog #: 00736ET3E184JM-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 7	.47 A	Moment o	f inertia (J)	: 0.2242 sq.ft	.lb
LRC	: 9	.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 9	.91 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :3	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 4	30 %	Temperati	Temperature rise		
Rated speed	: 2	915 rpm	Design		: A	
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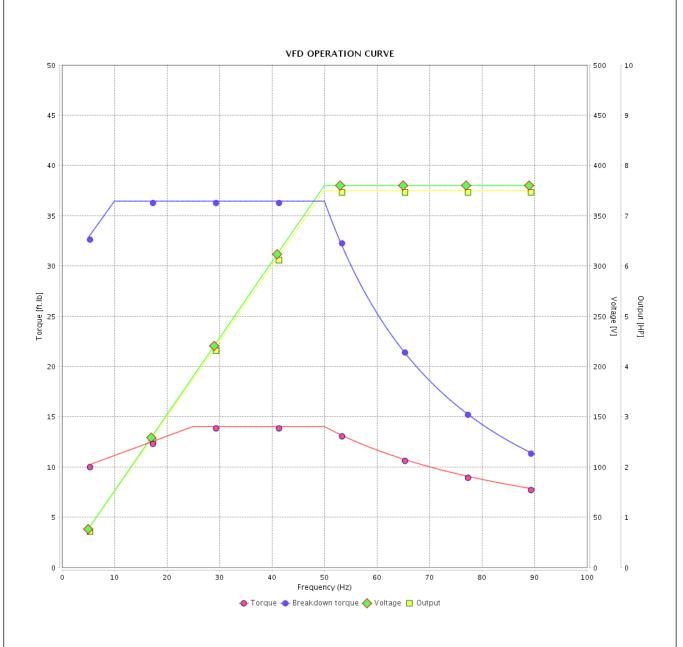
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Performance	: 380 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 6.3 : 14.0 ft.lb : 220 % : 260 % : 2810 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A		
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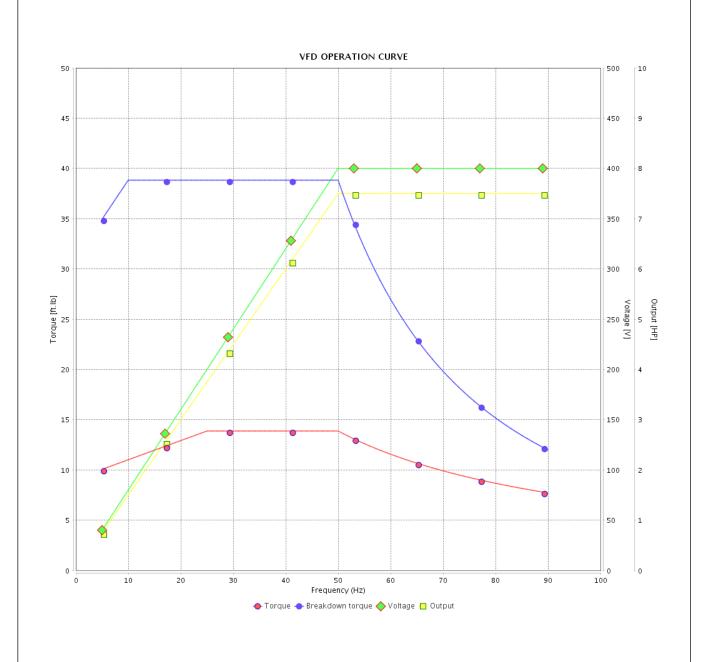
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184JM-W22

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Performance	: 400 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 10.3 A : 7.0 : 13.9 ft.lb : 250 % : 280 % : 2840 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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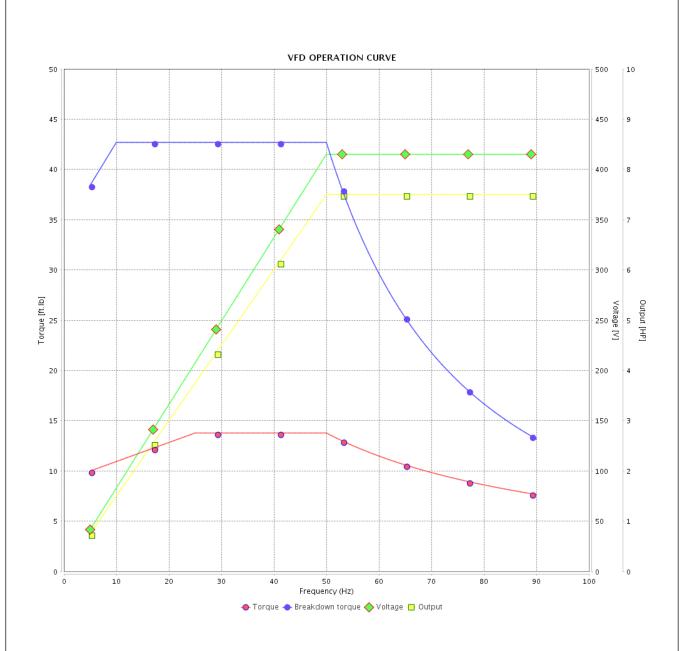
Product code: 13418946

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Performance : 415 V 50 Hz 2P IE2 : 10.0 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class : 13.8 ft.lb : F Rated torque Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2860 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

