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 : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 101 lb

/ untage		. 1000 111.4.	J.I.	7,66107	. weigin		0110	
Protection degre	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 [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
Lincicity (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
1 OWELL ACIO	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

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

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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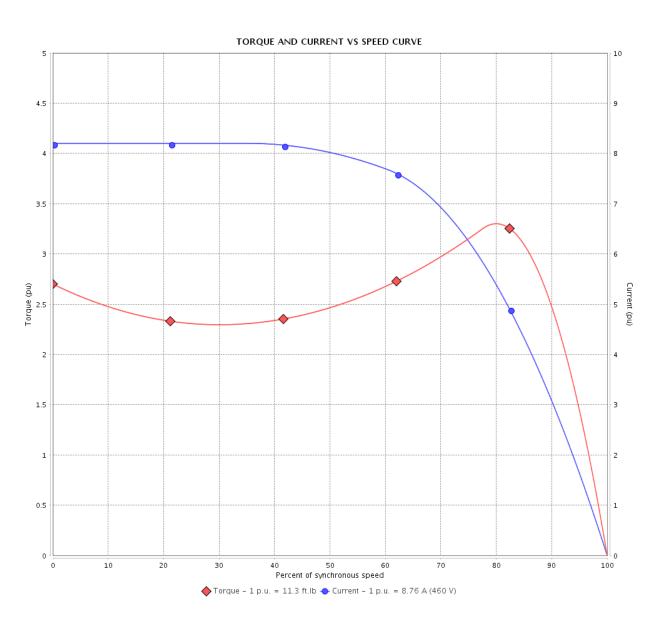


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 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 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 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)
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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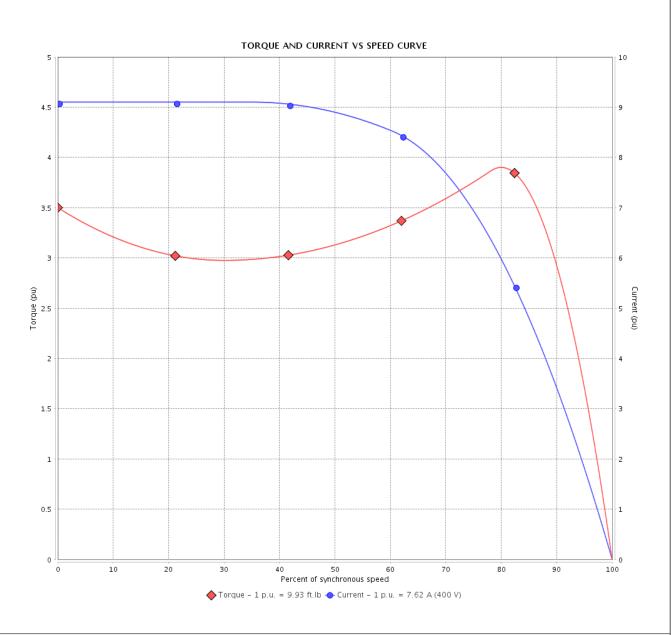
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-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) Insulation class Rated torque : 9.93 ft.lb : F Locked rotor torque : 350 % Service factor : 1.00 : 80 K Breakdown torque : 390 % Temperature rise Rated speed : 2910 rpm Design : 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

TORQUE AND CURRENT VS SPEED CURVE

anb.roT									nt (pu)
2									
1.5									3
1								\	2
0.5									1
0 1	10	20	30 ◆Torque -		50 60 of synchronous speed t.lb • Current - 1 p.u. = 7.	70 47 A (415 V)	* 80	90	100
Performance		: 415 \	V 50 Hz 2F	P IE3					
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed		: 7.47 : 9.6 : 9.91 : 370 : 430 : 2915	ft.lb % %		Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design		: 0.2242 : Cont.(: F : 1.00 : 80 K : A	2 sq.ft.lb S1)	
ocked rotor tim	e	: 27s	(cold) 15s	(hot)					

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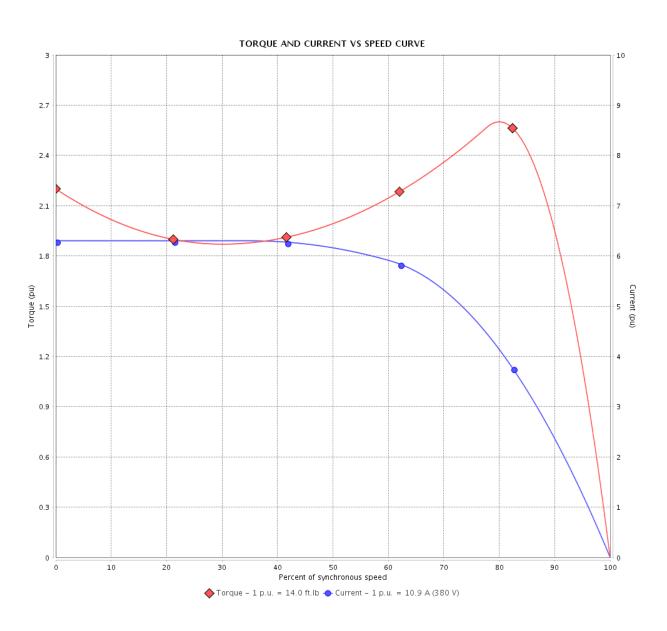
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Product line : NEMA Premium Efficiency Three- Product code :

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) Insulation class Rated torque : 14.0 ft.lb : F 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: 13418946 Catalog #: 00736ET3E184JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 6. 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 Rated torque Locked rotor torque Breakdown torque Rated speed Locked rotor time	jue : 25 le : 28 : 28	0 3.9 ft.lb 50 % 50 % 340 rpm 7s (cold) 15s (ho	Duty cyc Insulation Service f Tempera Design	n class actor	: Cont.(S1) : F : 1.00 : 80 K : A	
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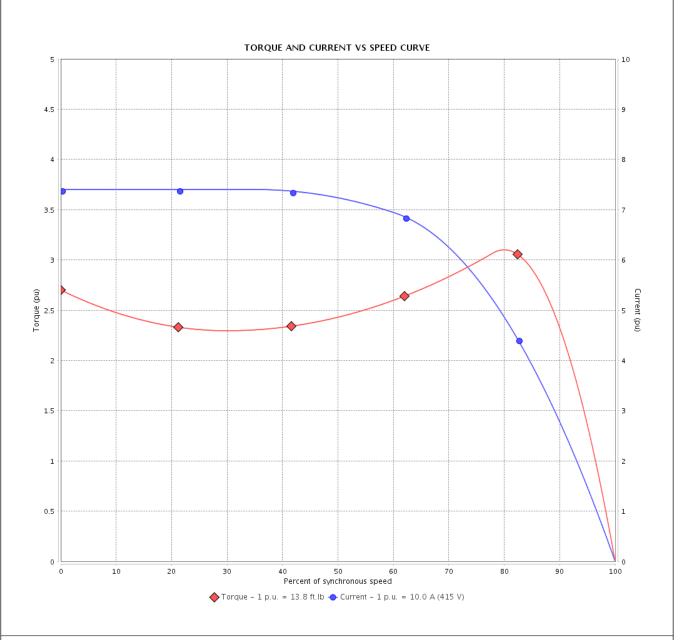
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-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) : F : 13.8 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.00 : 310 % : 80 K Breakdown torque Temperature rise Rated speed : 2860 rpm Design : A

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

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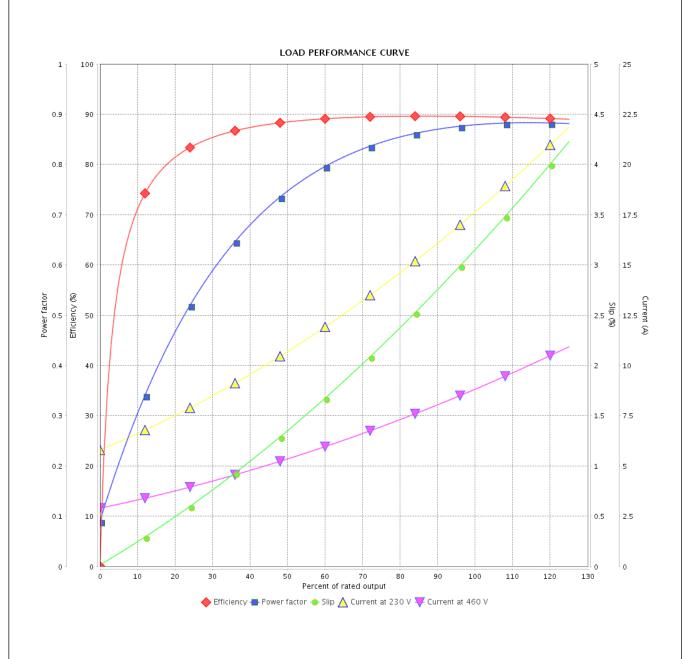


Customer

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

Phase

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Performance	::	230/460 V 60 Hz 2P				
Rated current	:	17.5/8.76 A	Moment o	f inertia (J)	: 0.2242 sq.ft.	lb
LRC	:	8.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	11.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	270 %	Service fa	ctor	: 1.25	
Breakdown torque :		330 %	Temperature rise		: 80 K	
Rated speed	:	3485 rpm	Design		: A	
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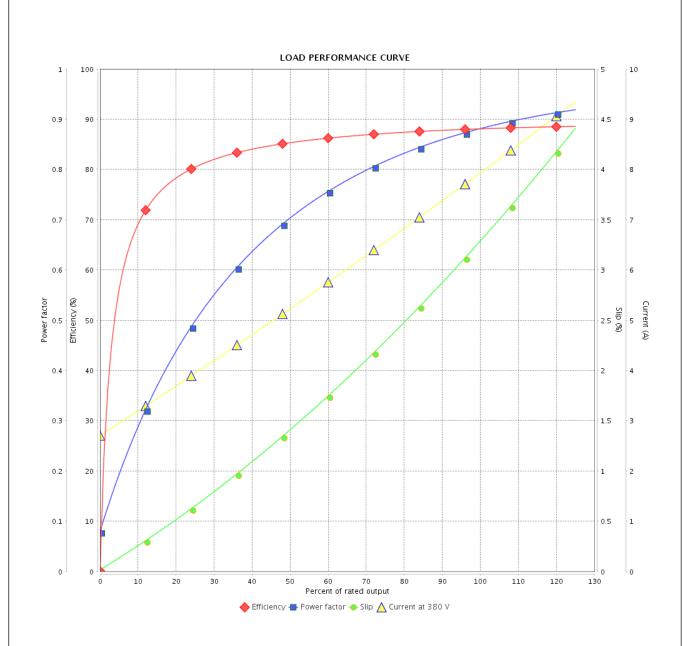
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Performance : 380 V 50 Hz 2P IE3 : 7.84 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 9.96 ft.lb Insulation class Rated torque : F Locked rotor torque : 310 % Service factor : 1.00 Breakdown torque : 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



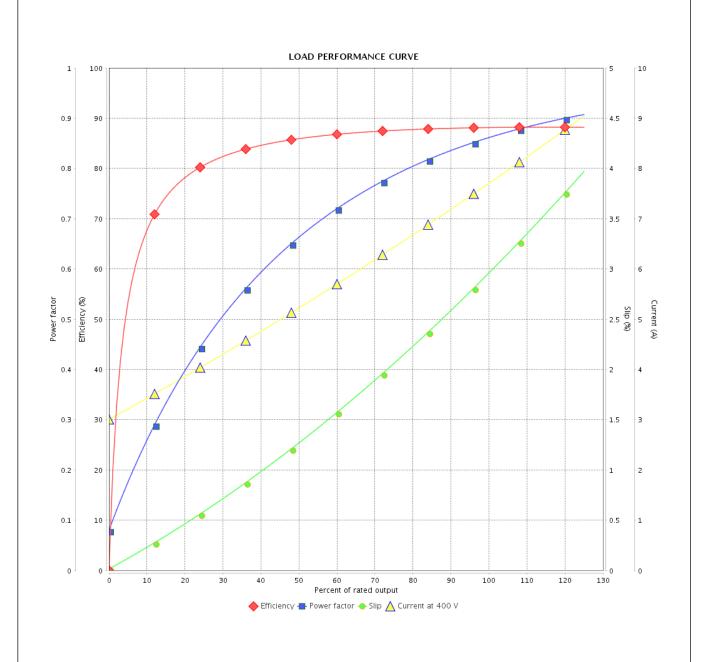
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ass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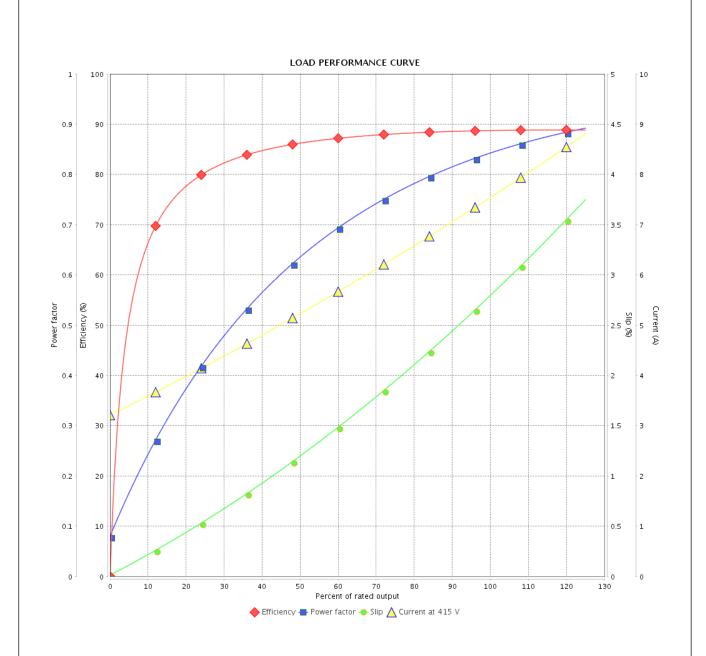
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	.				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC	: 7.47 A : 9.6 : 9.91 ft.lb	Moment of inertia (J) Duty cycle		: 0.2242 sq.ft.lb : Cont.(S1) : F	
Rated torque Locked rotor torque Breakdown torque	: 370 % : 430 %	Insulation class Service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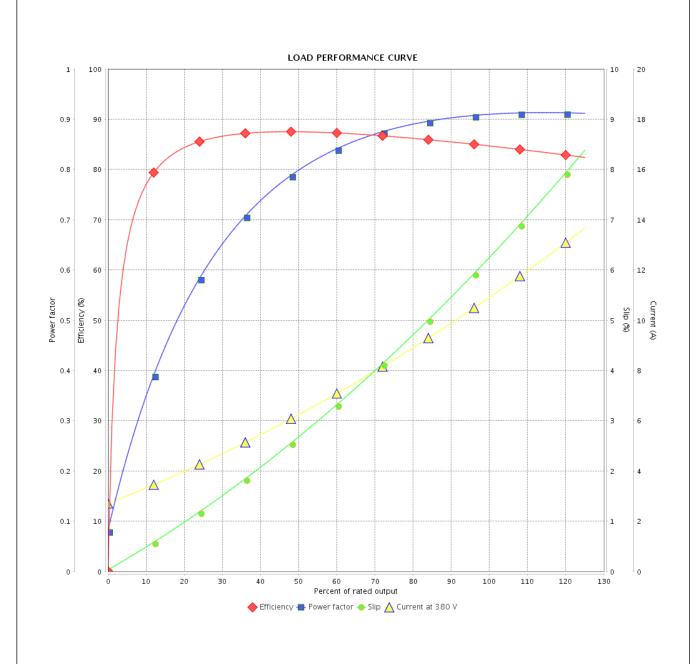
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 3	80 V 50 Hz 2P					
Rated current	current : 10.9 A		Moment o	f inertia (J)	: 0.2242 sq.ft.lb		
LRC	: 6	3.3	Duty cycle	:	: Cont.(S1)		
Rated torque	: 1	4.0 ft.lb	Insulation	class	: F		
Locked rotor torque : 220 %		20 %	Service fa	ctor	: 1.00		
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	810 rpm	Design		: A		
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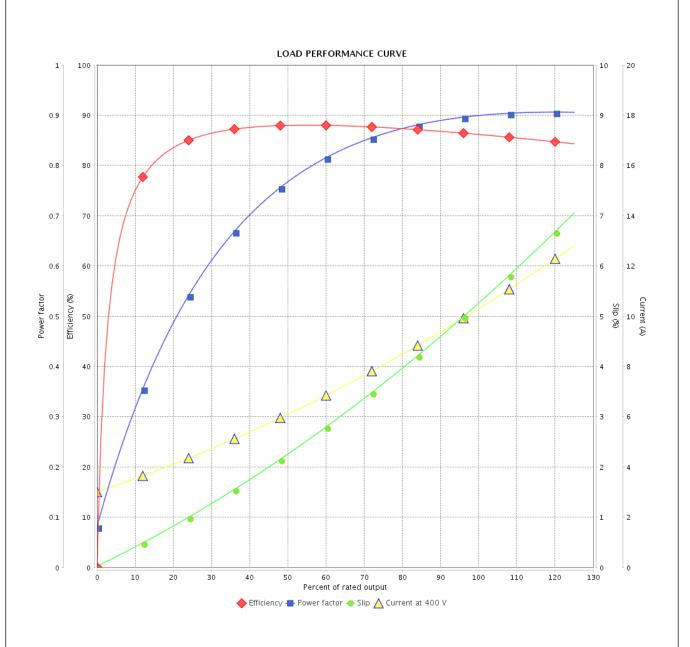
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Performance : 400 V 50 Hz 2P IE1 : 10.3 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 13.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2840 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

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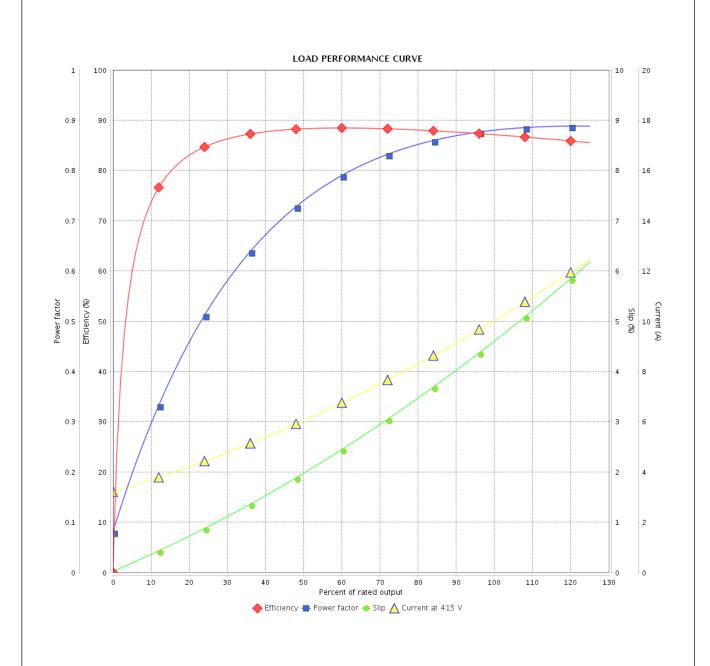


Customer

Product line : NEMA Premium Efficiency Three-Product code:

13418946

Catalog #: 00736ET3E184JM-W22



Performance	: 4	15 V 50 Hz 2P IE2					
Rated current	: 10	: 10.0 A Moment of ir		ent of inertia (J) : 0.2242 sq.ft.		.lb	
LRC	: 7.	4	Duty cycle	9	: Cont.(S1)		
Rated torque : 13		3.8 ft.lb	Insulation	class	: F		
Locked rotor torque :		70 %	Service fa	ictor	: 1.00		
Breakdown torque	e : 3°	10 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 28	860 rpm	Design		: A		
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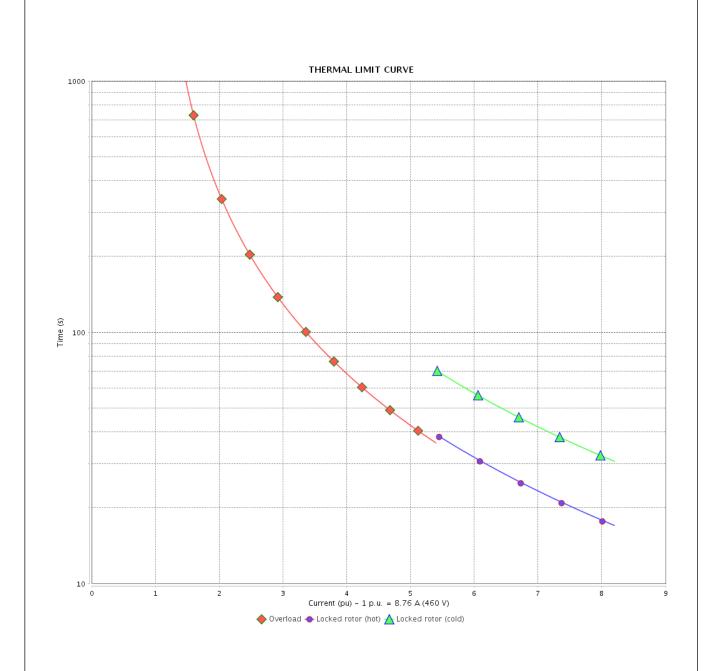


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	13418946 00736ET3E1	84JM-W22
Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.5/8.76 A : 8.2 : 11.3 ft.lb : 270 % : 330 % : 3485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : A	b
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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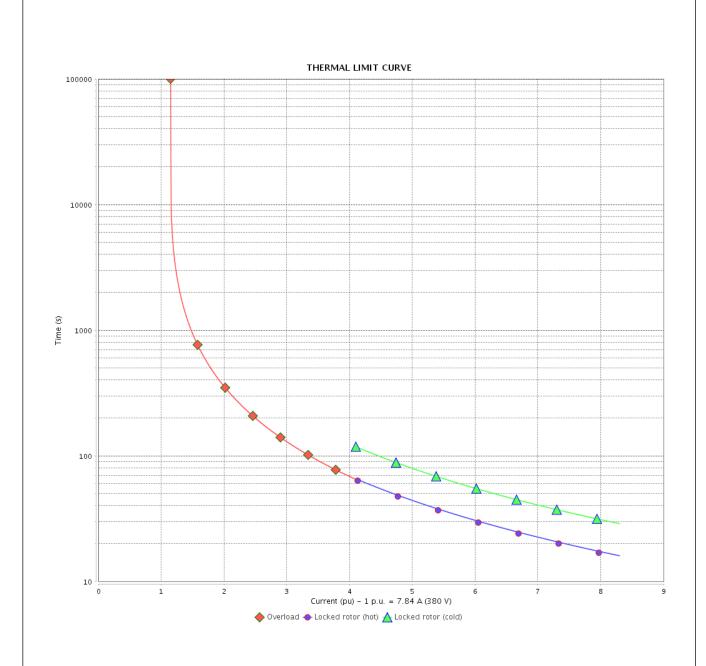


Customer	:	:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13418946	0.4 11.4 14/00
				Catalog # :	00736ET3E1	84JIVI-VVZZ
Performance		380 V 50 Hz 2P IE3				
Rated current		7.84 A	Moment o	of inertia (J)	: 0.2242 sq.ft.l	b
LRC	: 8	8.3	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torqu		9.96 ft.lb 310 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e ::	360 %	Temperat	ure rise	: 80 K : A	
Rated speed		2900 rpm	Design		. A	
Heating constant Cooling constant						
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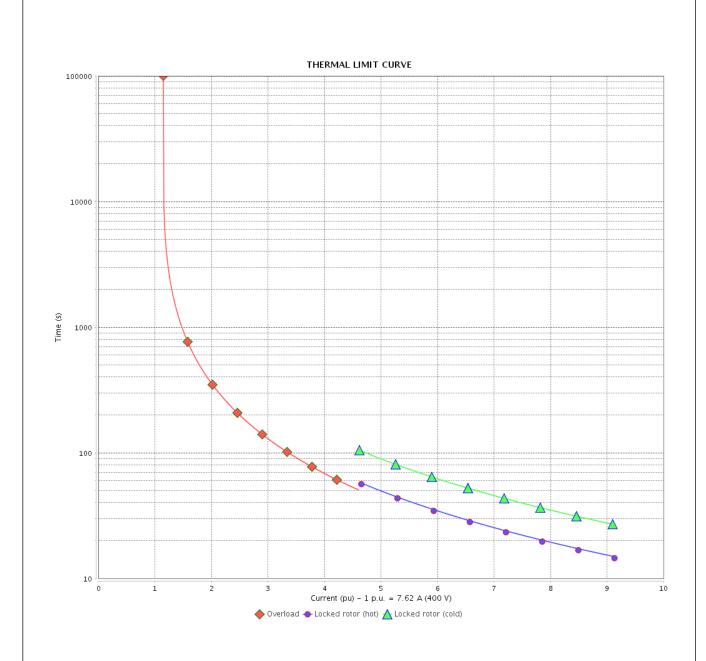


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	13418946 00736ET3E1	84JM-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	iue :	400 V 50 Hz 2P IE3 7.62 A 9.1 9.93 ft.lb 350 % 390 % 2910 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.2242 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : A)
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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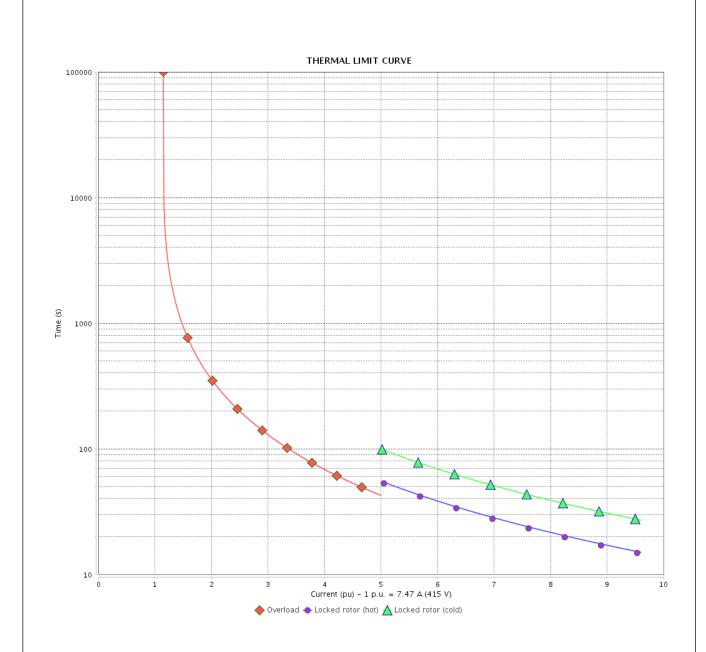


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13418946 00736ET3E1	84 IM W22
				- Catalog # :	0070021021	
Performance		: 415 V 50 Hz 2P IE3 : 7.47 A	Momont	of inactio (I)	: 0.2242 og ft l	<u> </u>
Rated current LRC		: 9.6	Duty cycle		: 0.2242 sq.ft.l : Cont.(S1)	U
Rated torque Locked rotor tord		: 9.91 ft.lb : 370 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 430 %	Temperat		: 80 K	
Rated speed		: 2915 rpm	Design		: A	
Heating constan						
Cooling constan	t	Changes Cumment		Dorform	Chaolad	Data
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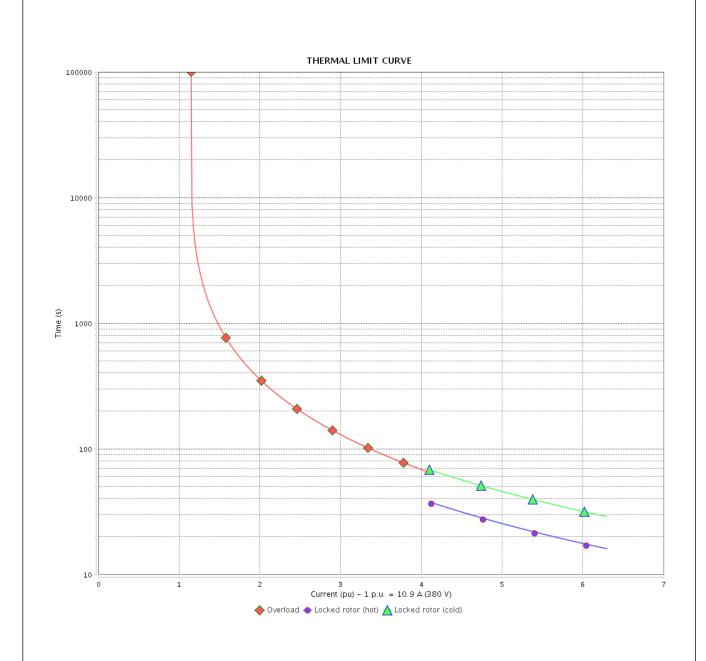


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13418946 00736ET3E1	84JM-W22
Performance Rated current		: 380 V 50 Hz 2P : 10.9 A	Moment o	of inertia (J)	: 0.2242 sq.ft.l	h
LRC		: 6.3	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 14.0 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 260 %	Temperat		: 80 K	
Rated speed		: 2810 rpm	Design		: A	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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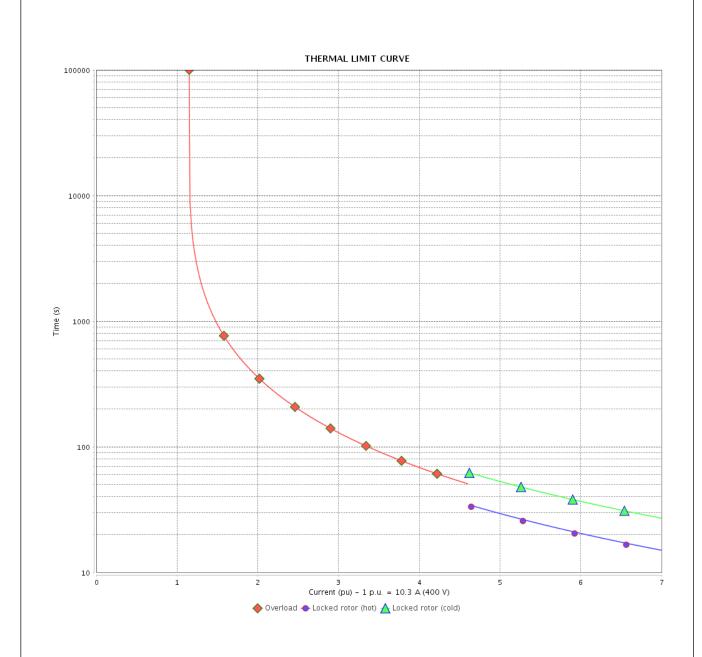


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13418946 00736ET3E1	84JM-W22
Performance		: 400 V 50 Hz 2P IE1	I			
Rated current LRC		: 10.3 A : 7.0	Moment of Duty cycle	of inertia (J) e	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque		: 13.9 ft.lb : 250 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		. 250 % : 280 %	Temperat		: 80 K	
Rated speed		: 2840 rpm	Design		: A	
Heating constan						
Cooling constant	Ţ	Changes Summan		Performed	Checked	Date
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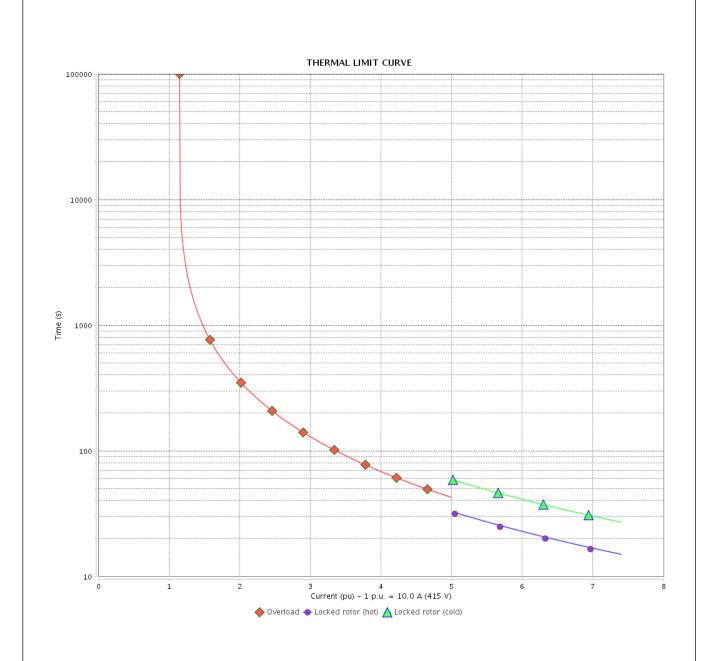


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13418946	
				Catalog # :	00736ET3E1	84JM-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current		: 10.0 A	Moment of	of inertia (J)	: 0.2242 sq.ft.l	b
LRC		: 7.4 : 13.8 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 13.8 ILID : 270 %	Service fa		: 1.00	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K	
Rated speed		: 2860 rpm	Design		: A	
Heating constant						
Cooling constant	t	Changes Summers		Performed	Checked	Doto
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Customer



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Product line : NEMA Premium Efficiency Three-

Phase

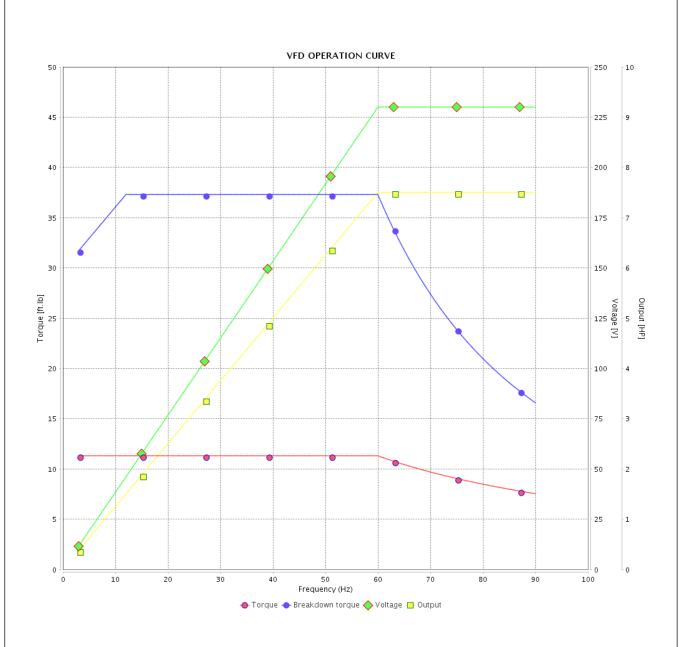
Product code: 13418946

Catalog #: 00736ET3E184JM-W22

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Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1 que : 2 ue : 3	7.5/8.76 A .2 1.3 ft.lb 70 % 30 % 485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.2242 sq.ft.lt : Cont.(S1) : F : 1.25 : 80 K : A)
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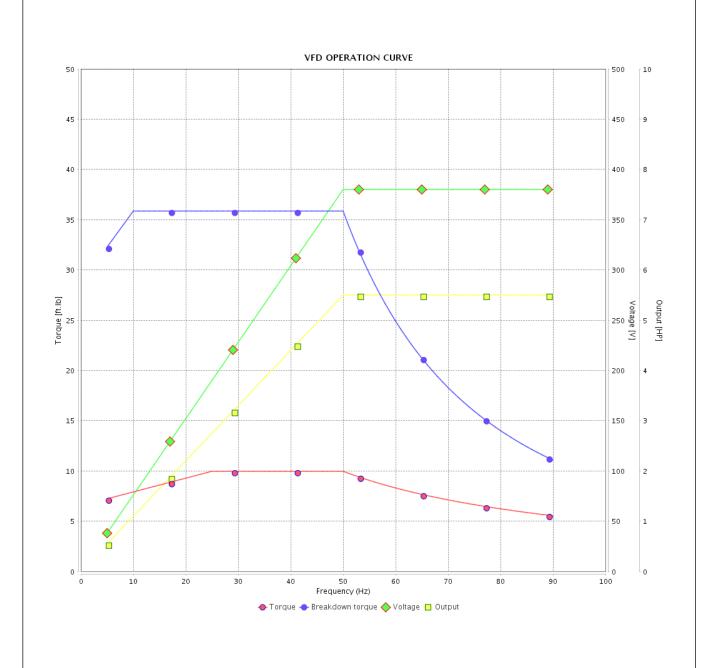


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Product line : NEMA Premium Efficiency Three- Product code : 13418946

Phase

Catalog #: 00736ET3E184JM-W22



Performance	: 3	80 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 torqu	ie : 3	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	900 rpm	Design		: A	
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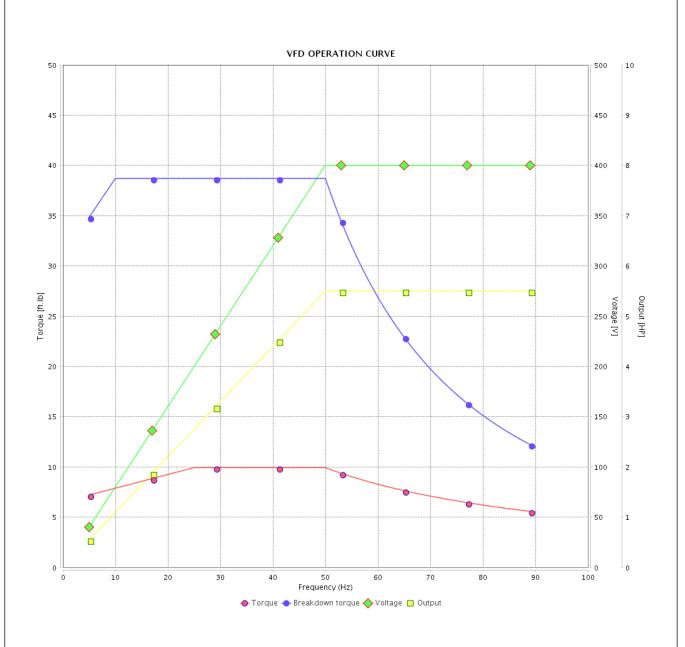
Product line : NEMA Premium Efficiency Three-

Phase

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	<u> </u>						
Performance	: 400 V 50 Hz 2P IE3						
Rated current LRC Rated torque	: 7.62 A : 9.1 : 9.93 ft.lb	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cor		: 0.2242 sq.ft. : Cont.(S1) : F	lb
Locked rotor torque Breakdown torque Rated speed	: 350 % : 390 % : 2910 rpm			: 1.00 : 80 K : A			
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Three Phase Induction Motor - Squirrel Cage



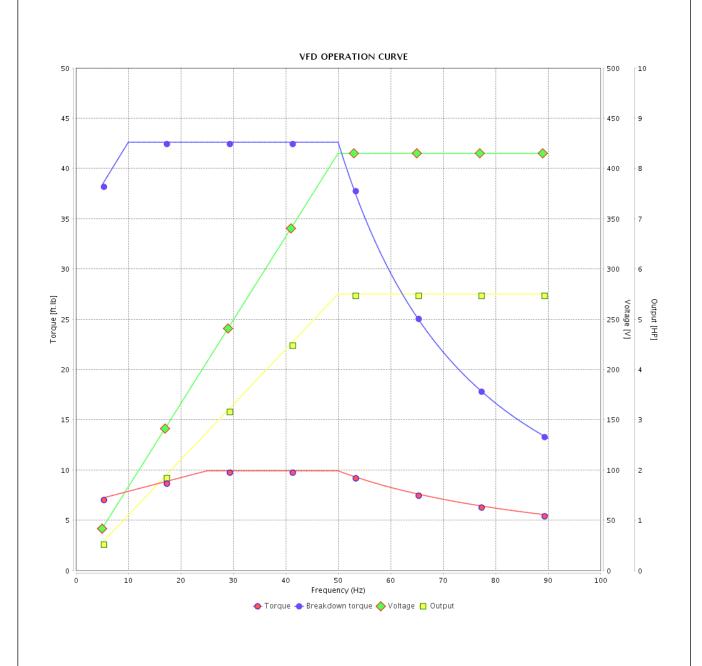
Customer

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 13418946

Catalog #: 00736ET3E184JM-W22



Performance		415 V 50 Hz 2P IE3				
Rated current		7.47 A	Moment o	f inertia (J)	: 0.2242 sq.ft	lh
LRC		9.6	Duty cycle	` '	: Cont.(S1)	
Rated torque	-	9.91 ft.lb	Insulation		: F	
Locked rotor torque	e :	370 %	Service fa	ctor	: 1.00	
Breakdown torque		430 %	Temperature rise		: 80 K	
Rated speed	:	2915 rpm	Design		: A	
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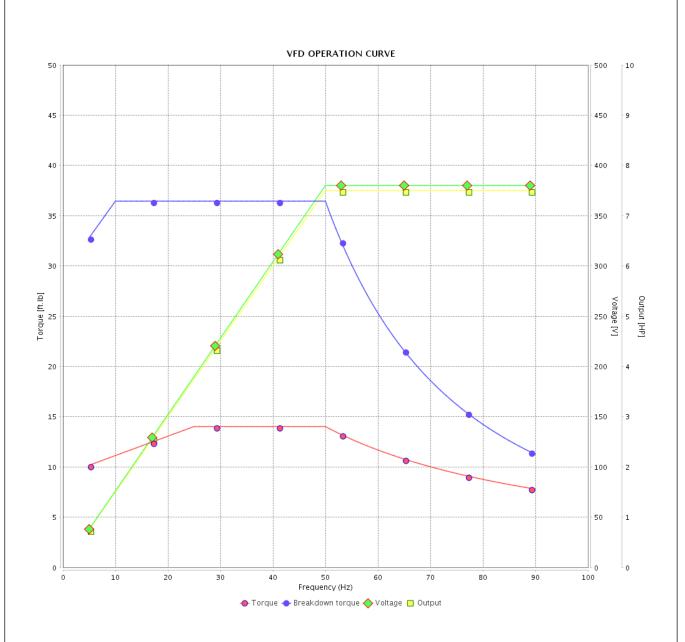
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

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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 : F Rated torque 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

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

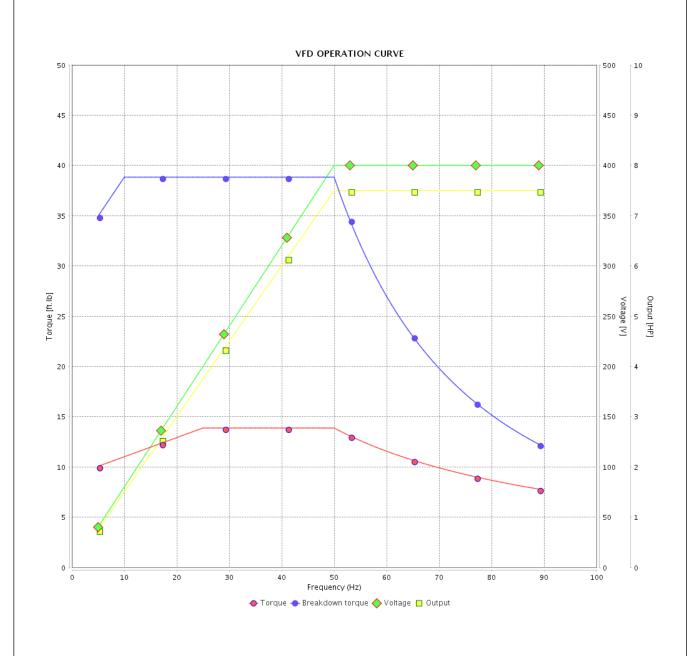
Phase

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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 Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2242 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
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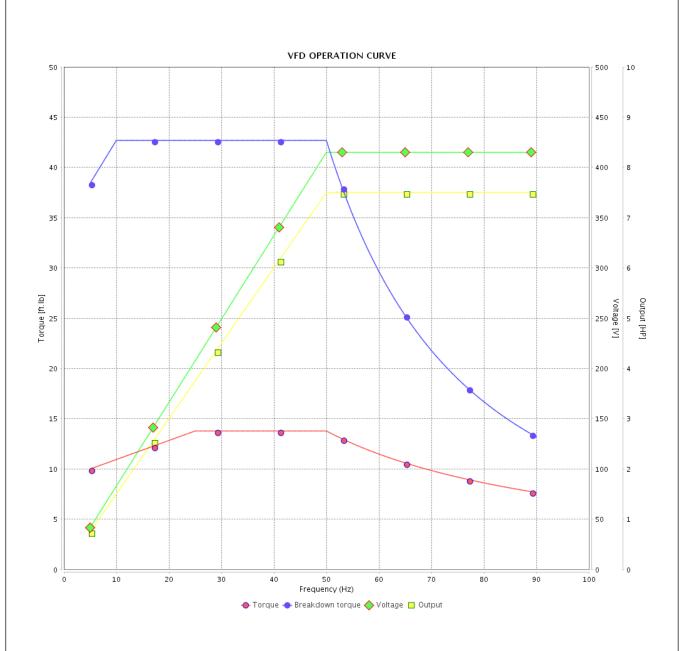
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13418946

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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		: 7.4 Duty cycle : Cont.(\$: 13.8 ft.lb Insulation class : F : 270 % Service factor : 1.00 : 310 % Temperature rise : 80 K		: 1.00 : 80 K	lb
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