DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12034551

Catalog #: 00536ET3E184JP-W22

Frame : 182/4JP 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 : 95.8 lb Altitude : IP55

Protection degree Moment of inertia (J) : 0.2233 sq.ft.lb

Design		: B		Monie	it of inertia (3)	. 0	.2233 Sq.1t.1b	
Output [HP]		5	4	4	4	5	5	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]			5.79	5.57	5.43	7.14	6.78	6.61
L. R. Amperes [A]		11.8/5.90 89.7/44.8	42.8	45.1	48.3	42.1	44.7	47.6
			_	_				_
LRC [A]		7.0x(Code J)	7.4X(Code n)	o. IX(Code J)	8.9x(Code K)	5.9X(Code F)	6.6x(Code G)	7.2x(Code H)
No load current [A]	4.00/2.00	2.00	2.15	2.25	2.00	2.15	2.25
Rated speed [RPN	/ []	3485	2890	2900	2910	2850	2870	2880
Slip [%]		3.19	3.67	3.33	3.00	5.00	4.33	4.00
Rated torque [ft.lb]		7.53	7.27	7.24	7.22	9.21	9.15	9.12
Locked rotor torqu	e [%]	229	229	270	300	180	210	240
Breakdown torque	[%]	350	320	370	400	250	290	320
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		45s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		25s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (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%	86.1	86.1	85.8	85.6	88.0	88.0	88.0
Efficiency (%)	50%	86.5	86.3	86.3	86.1	87.5	87.5	87.5
Efficiency (%)	75%	88.5	87.7	88.2	88.2	87.5	88.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5	87.5
	25%	0.51	0.49	0.46	0.43	0.56	0.53	0.50
Dower Footer	50%	0.76	0.74	0.71	0.68	0.81	0.78	0.76
Power Factor	75%	0.85	0.85	0.83	0.81	0.88	0.87	0.85
	100%	0.89	0.90	0.88	0.87	0.91	0.90	0.89

Non drive end Drive end Foundation loads

Bearing type 6307 ZZ 6206 ZZ Max. traction : 138 lb Sealing V'Ring V'Ring : 234 lb Max. compression

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 13.1A SF 1.15 SFA 15.0A

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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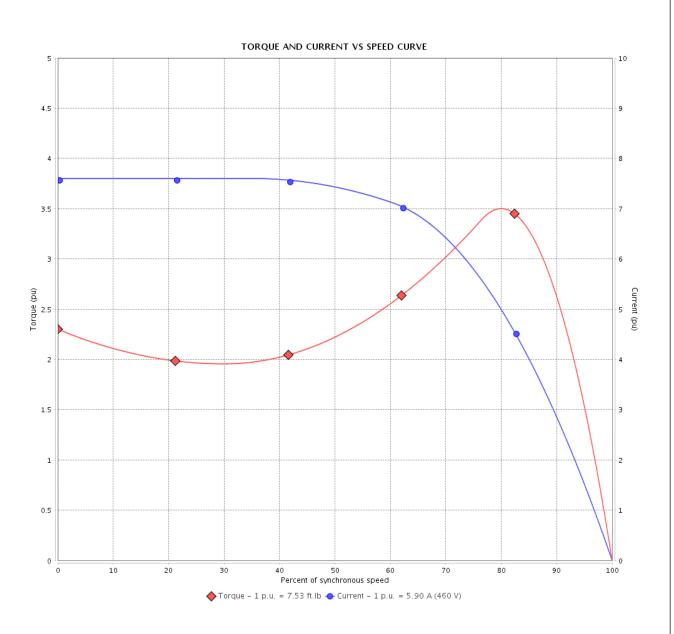
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12034551

Catalog #: 00536ET3E184JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 7.53 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 3485 rpm Design : B Locked rotor time

: 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12034551 Catalog #: 00536ET3E184JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 40 50 Servent of synchronous speed ◆ Torque - 1 p.u. = 7.27 ft.lb ◆ Current - 1 p.u. = 5.79 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current · 5 79 Δ Moment of inertia (1) · 0 2233 sq ft lh

Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7.4 : 7.2 que : 22 ue : 32	79 A 4 27 ft.lb 9 % 0 % 90 rpm	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor tim	e : 32	2s (cold) 18s (ho	t)			
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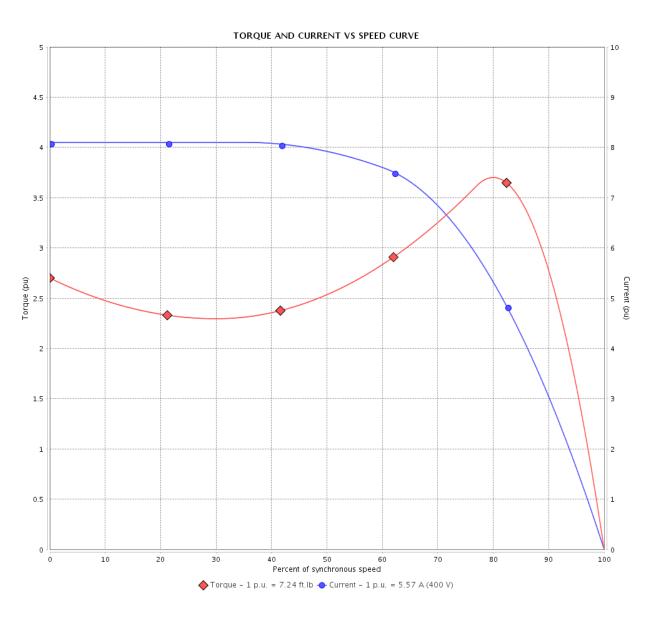
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12034551

Catalog #: 00536ET3E184JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 5.57 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12034551 Catalog #: 00536ET3E184JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 7.22 ft.lb ◆ Current - 1 p.u. = 5.43 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 5.43 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 7.22 ft.lb : 300 % Locked rotor torque Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



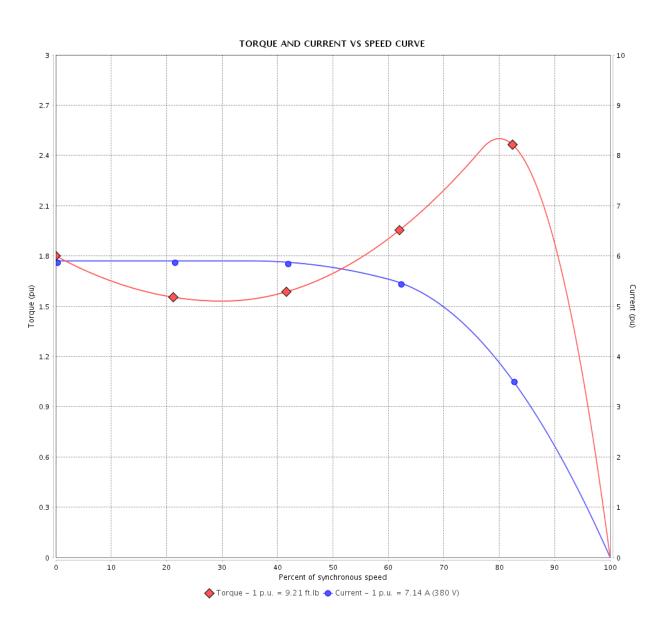
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12034551

Catalog #: 00536ET3E184JP-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 7.14 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.21 ft.lb : F Service factor Locked rotor torque : 180 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B

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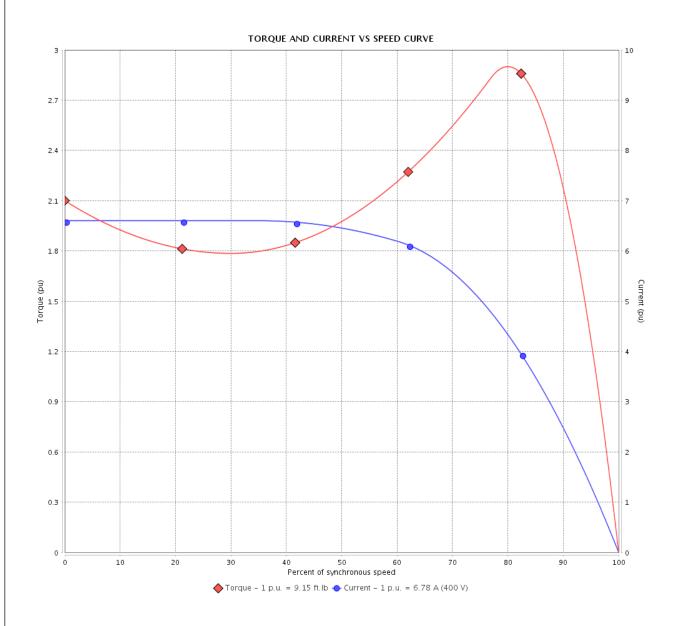
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12034551

Catalog #: 00536ET3E184JP-W22



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 6.78 A	Moment of inertia (J)	: 0.2233 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 9.15 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.25	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 2870 rpm	Design	: B	

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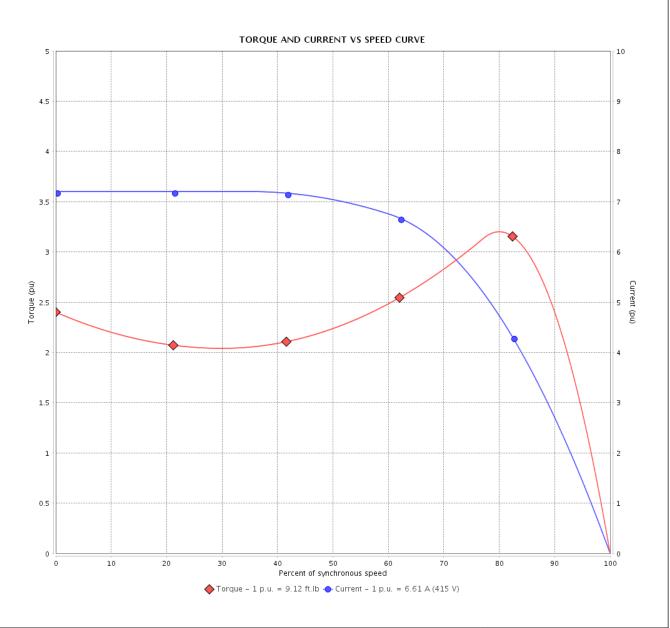
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12034551

Catalog #: 00536ET3E184JP-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 6.61 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.12 ft.lb Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B

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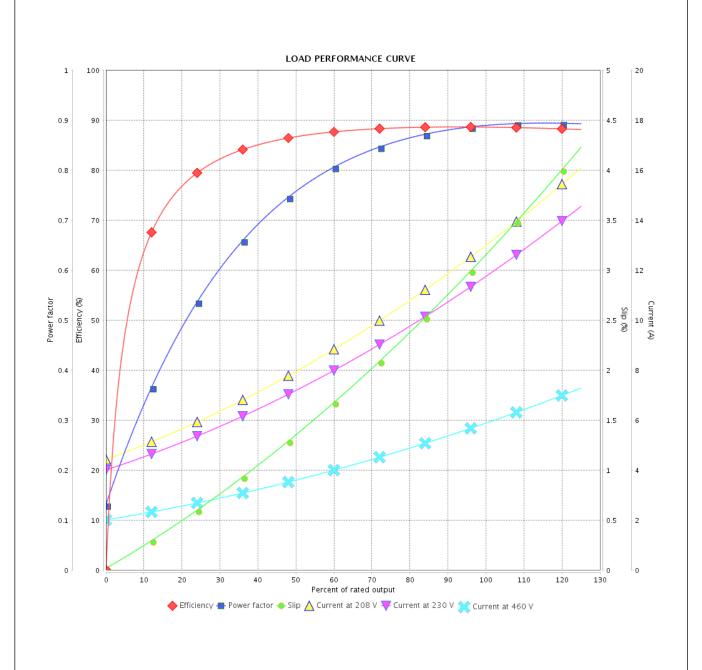
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00536ET3E184JP-W22

12034551



Performance	: 2	30/460 V 60 Hz 2P					
Rated current	: 1	1.8/5.90 A	Mon	Moment of inertia (J)		: 0.2233 sq.ft.lb	
LRC	: 7	.6	Duty cycle		: Cont.(S1)		
Rated torque	: 7	.53 ft.lb	Insul	lation cla	ass	: F	
Locked rotor tord	que : 2	29 %	Serv	ice facto	or	: 1.25	
•		50 %	Tem	Temperature rise		: 80 K	
•		485 rpm	Desi	Design		: B	
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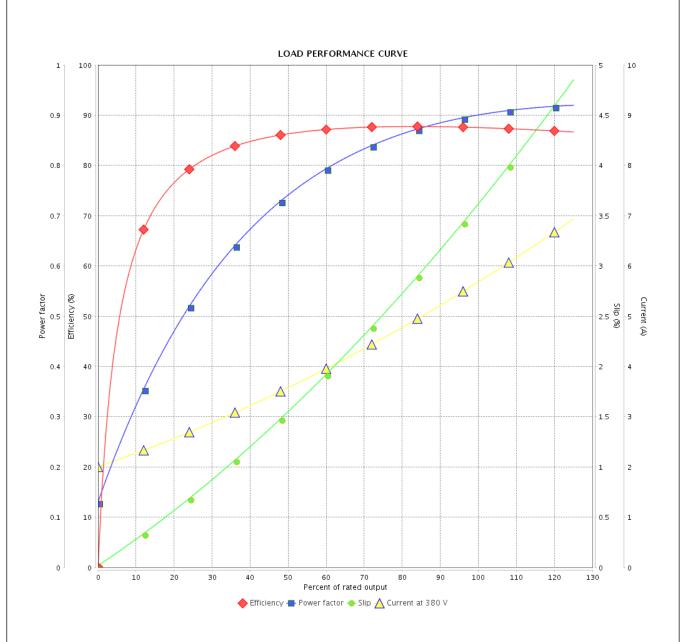
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Phase

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Performance	: 38	: 380 V 50 Hz 2P IE3					
Rated current : 5.		79 A		Moment of inertia (J)		lb	
Rated torque	Rated torque : 7.27 ft.lb Insulation class		class	: Cont.(S1) : F : 1.25			
		29 %		Service factor			
		20 %	, ,	Temperature rise			
Rated speed	: 28	390 rpm	Design		: B		
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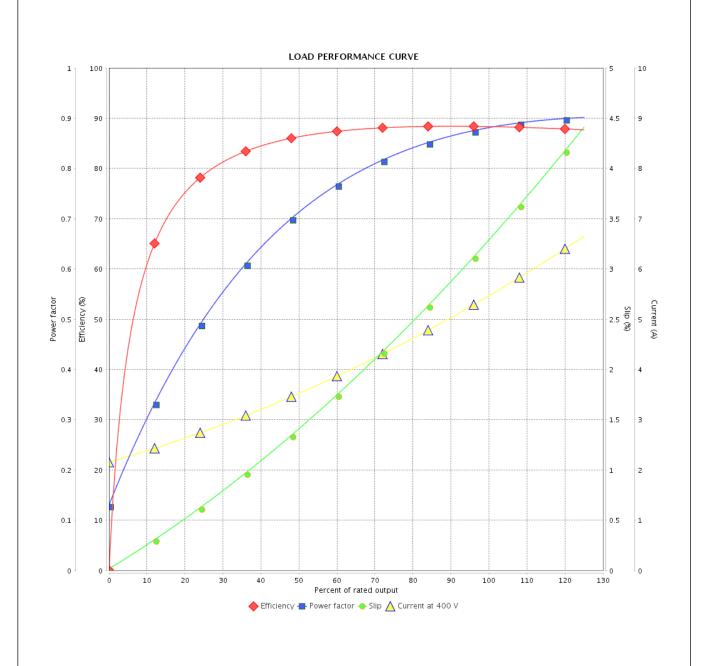


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

Catalog #: 00536ET3E184JP-W22



Performance	:	400 V 50 Hz 2P IE3					
Rated current :		5.57 A	Moment o	Moment of inertia (J)		.lb	
LRC	:	8.1	Duty cycle	` '	: Cont.(S1)		
Rated torque	:	7.24 ft.lb	Insulation		: F ` ´		
Locked rotor torque	e :	270 %	Service fa	ctor	: 1.25		
Breakdown torque	:	370 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2900 rpm	Design		: B		
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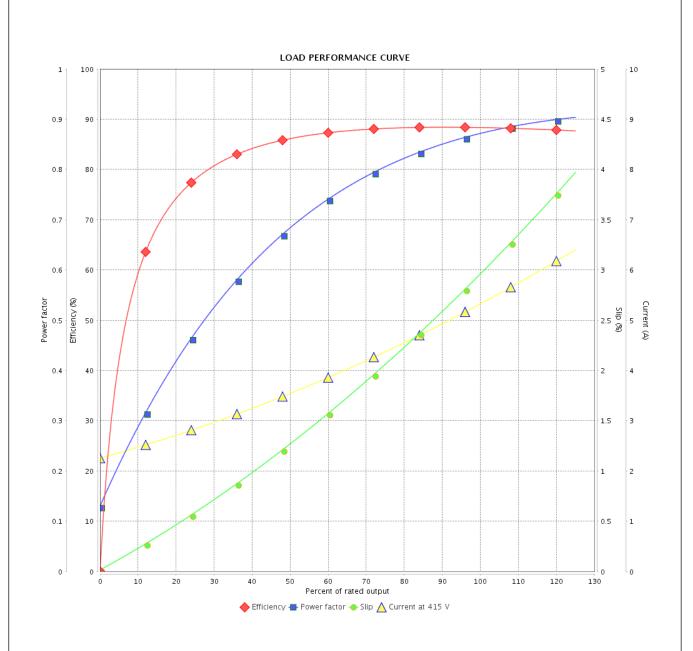
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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.43 A : 8.9 : 7.22 ft.lb : 300 % : 400 % : 2910 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.2233 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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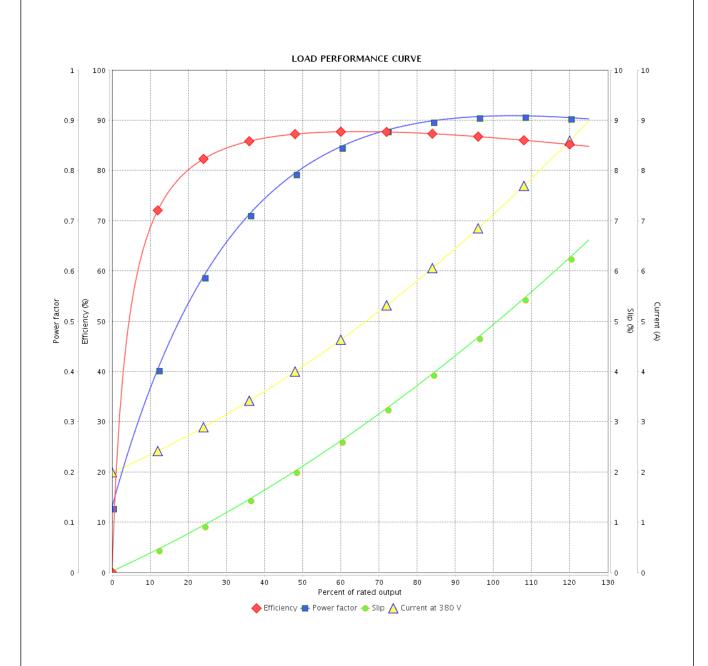


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Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

Catalog #: 00536ET3E184JP-W22



Performance	: 3	30 V 50 Hz 2P IE2					
Rated current	: 7.	: 7.14 A		f inertia (J)	: 0.2233 sq.ft	.lb	
LRC	: 5	9	Duty cycle)	: Cont.(S1)	: Cont.(S1)	
Rated torque	: 9	21 ft.lb	Insulation	class	: F		
Locked rotor torq	jue : 18	30 %	Service fa	ctor	: 1.25		
Breakdown torqu	ie : 2:	50 %	Temperati	ure rise	: 80 K		
Rated speed	: 28	350 rpm	Design		: B		
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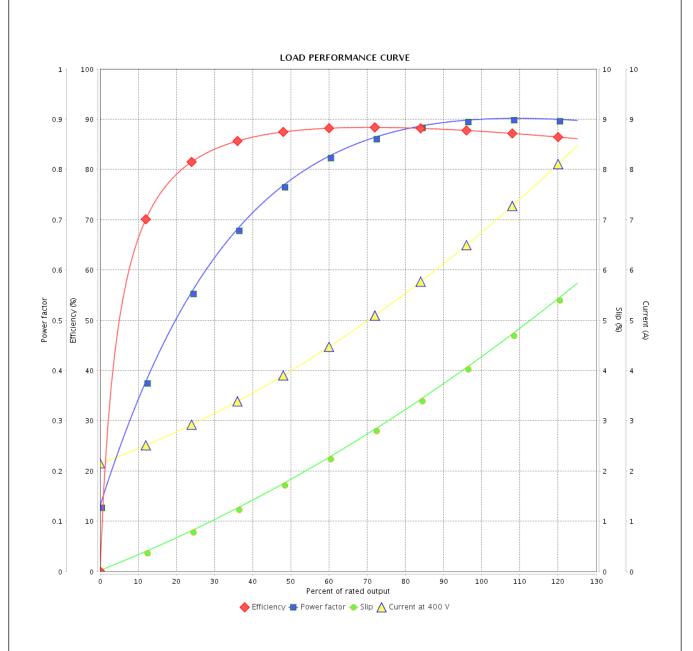
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 4	00 V 50 Hz 2P IE2	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 9 que : 2 ue : 2	5.78 A 5.6 5.15 ft.lb 110 % 190 % 1870 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2233 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
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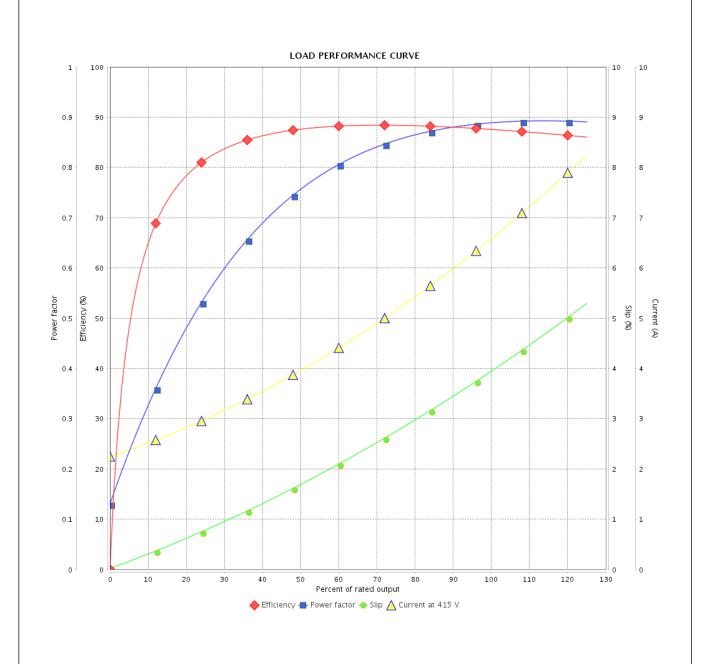


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Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

Catalog #: 00536ET3E184JP-W22



Performance	: 4	415 V 50 Hz 2P IE2				
Rated current	: (6.61 A	Moment o	f inertia (J)	: 0.2233 sq.ft.	.lb
LRC	: '	7.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 9	9.12 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	240 %	Service fa	ctor	: 1.25	
Breakdown torque	::	320 %	Temperati	ıre rise	: 80 K	
Rated speed	::	2880 rpm	Design		: B	
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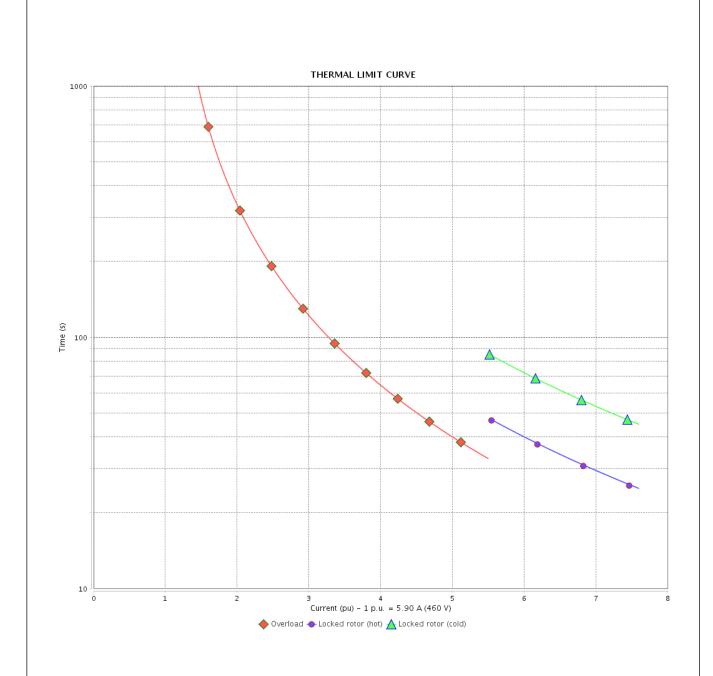


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Product line	: I P	NEMA Premium Efficiency l		Product code :	12034551	04 ID W/00
				Catalog # :	00536ET3E1	04JP-VVZZ
		00/400 \/ 60 \/ 0				
Performance		30/460 V 60 Hz 2P 1.8/5.90 A	Momant	finartic (1)	. 0 2222 # 1	h
Rated current LRC	: 7.	.6	Duty cycle	f inertia (J)	: 0.2233 sq.ft.l : Cont.(S1)	υ
Rated torque		.53 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		29 % 50 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		485 rpm	Design		: B	
Heating constant						
Cooling constant						
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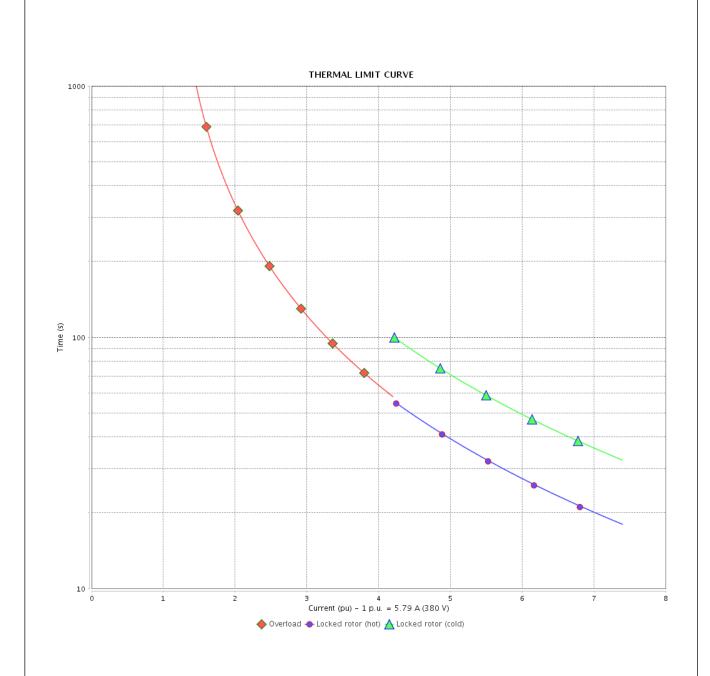


Customer	:					
Product line	: NE Pha	EMA Premium Efficiency se		Product code : Catalog # :	12034551 00536ET3E1	84JP-W22
Performance	: 380	V 50 Hz 2P IE3				
Rated current	: 5.79 : 7.4		Moment or	f inertia (J)	: 0.2233 sq.ft.l	b
LRC Rated torque	: 7.27		Duty cycle	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 229 : 320		Service far Temperatu		: 1.25 : 80 K	
Rated speed	: 289	0 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	С	hanges Summary		Performed	Checked	Date
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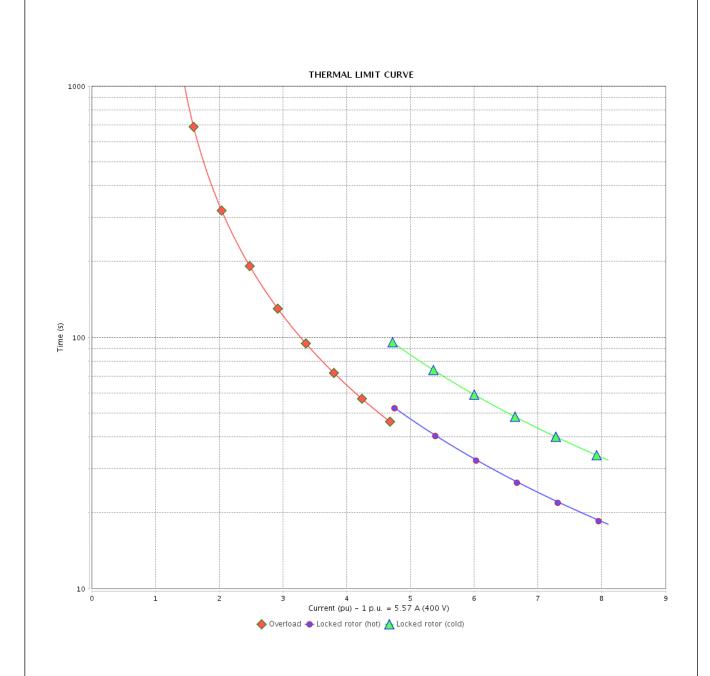


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12034551 00536ET3E1	84JP-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	: 5.57 A : 8.1 : 7.24 ft.lb	Duty cycle Insulation	class	: 0.2233 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ue :	: 270 % : 370 % : 2900 rpm	Service fa Temperati Design		: 1.25 : 80 K : B	
Heating constan						
Cooling constant	t					
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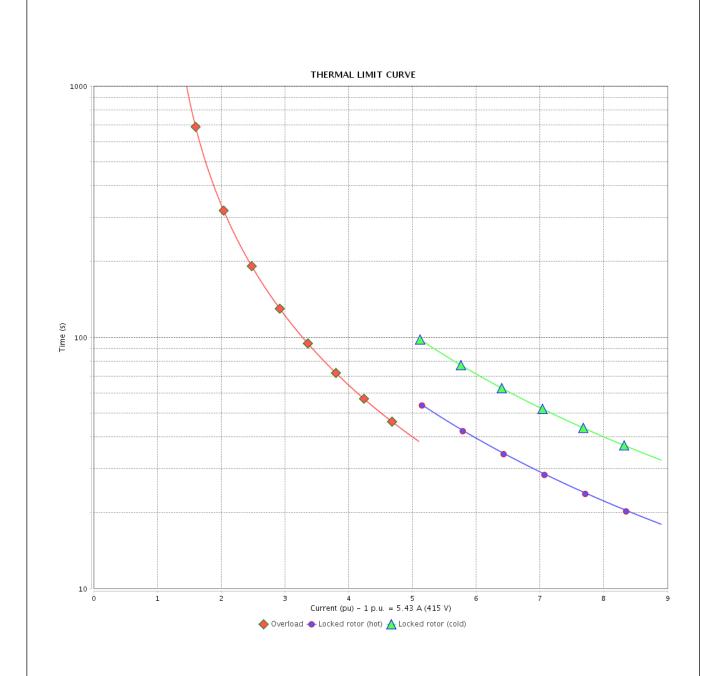


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12034551 00536ET3E1	84JP-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 5.43 A : 8.9 : 7.22 ft.lb	Duty cycle Insulation	class	: 0.2233 sq.ft.I : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue	: 300 % : 400 %	Service fa		: 1.25 : 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constant Cooling constant						
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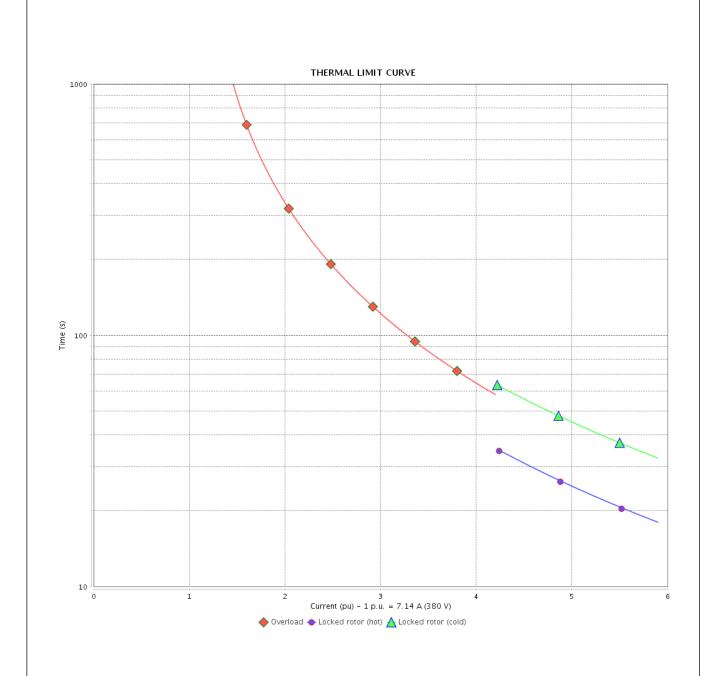


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12034551 00536ET3E1	84JP-W22
Performance		: 380 V 50 Hz 2P IE2	N 4	. f : ()	0.0000 6.11	
Rated current LRC		: 7.14 A : 5.9	Duty cycle		: 0.2233 sq.ft.li : Cont.(S1)	0
Rated torque Locked rotor tord		: 9.21 ft.lb : 180 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 180 % : 250 %	Temperat		: 1.25 : 80 K	
Rated speed		: 2850 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Cummen		Dorformed	Chaolaad	Data
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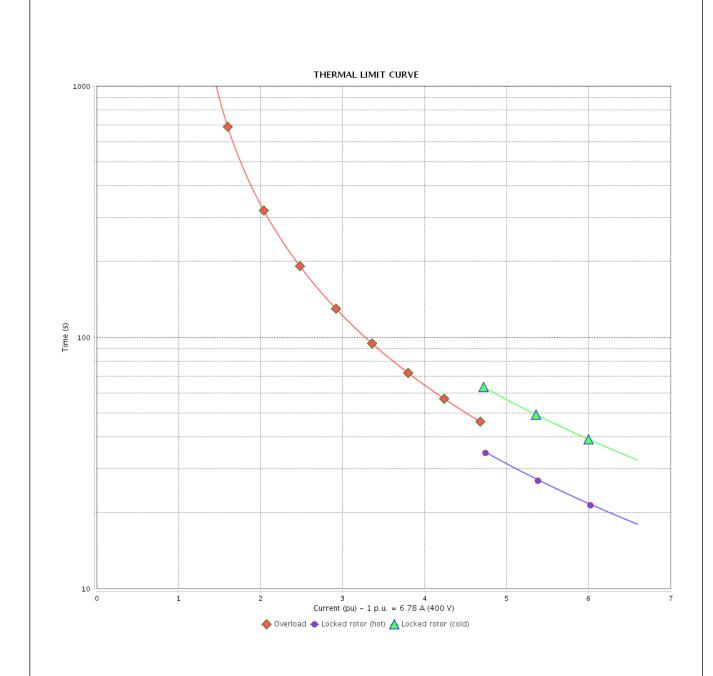


Product line : NEMA Premium Efficiency Three-Product code : 12034551 Phase Catalog # : 00536ET3E184JP-V	N22
Performance : 400 V 50 Hz 2P IE2	
Rated current : 6.78 A Moment of inertia (J) : 0.2233 sq.ft.lb	
LRC : 6.6 Duty cycle : Cont.(S1)	
LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 9.15 ft.lb Insulation class : F	
LRC: 6.6Duty cycle: Cont.(S1)Rated torque: 9.15 ft.lbInsulation class: FLocked rotor torque: 210 %Service factor: 1.25Breakdown torque: 290 %Temperature rise: 80 K	
LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 9.15 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B	
LRC: 6.6Duty cycle: Cont.(S1)Rated torque: 9.15 ft.lbInsulation class: FLocked rotor torque: 210 %Service factor: 1.25Breakdown torque: 290 %Temperature rise: 80 K	
LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 9.15 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B Heating constant Cooling constant	Date
LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 9.15 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B Heating constant Cooling constant	Pate

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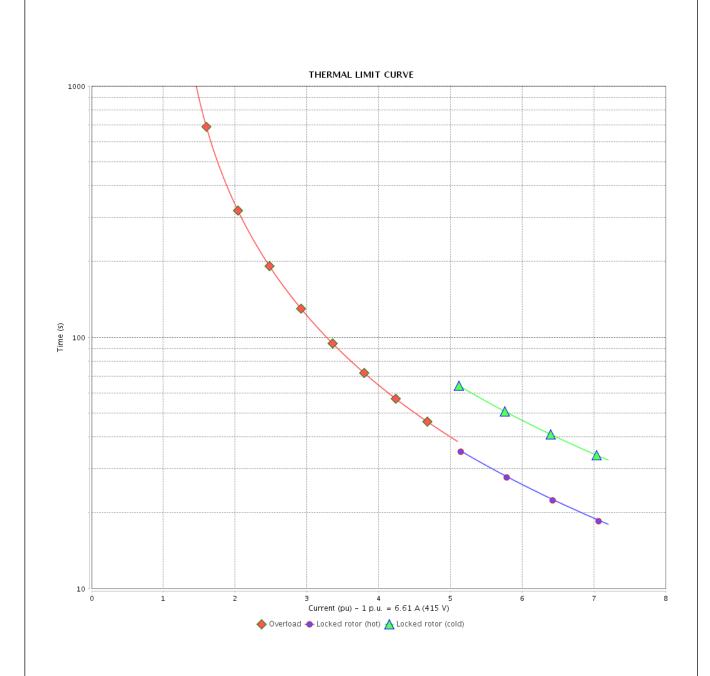


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12034551 00536ET3E1	84JP-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 6.61 A : 7.2	Moment of Duty cycle	of inertia (J) e	: 0.2233 sq.ft.l : Cont.(S1)	b
Rated torque		: 9.12 ft.lb : 240 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 320 %	Temperat		: 80 K	
Rated speed		: 2880 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ	Changes Summers		Performed	Checked	Date
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Phase

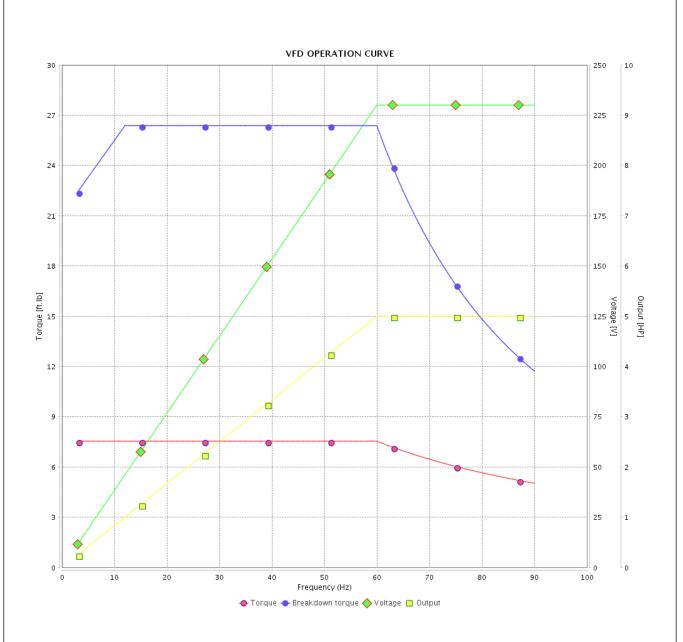
Product code: 12034551

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			<u>.</u>			
Performance : 23		30/460 V 60 Hz 2P)			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 7 : 7 : 1 : 2 : 8 : 8	1.8/5.90 A 7.6 7.53 ft.lb 129 % 150 % 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2233 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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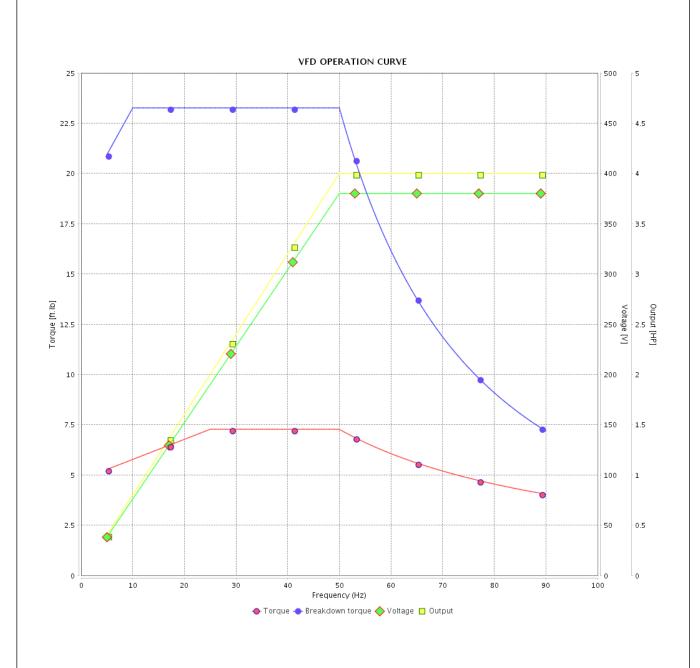


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

Catalog #: 00536ET3E184JP-W22



Performance	formance : 380 V 50 Hz 2P IE3						
Rated current	: 5.79 A		Moment o	Moment of inertia (J)		: 0.2233 sq.ft.lb	
LRC	: 7	.4	Duty cycle)	: Cont.(S1)		
Rated torque	: 7	.27 ft.lb	Insulation	class	: F		
Locked rotor torqu	ıe : 229 %		% Service factor		: 1.25		
Breakdown torque	n torque : 320 %		Temperati	Temperature rise : 80 K			
Rated speed : 2890 rpm		Design		: B			
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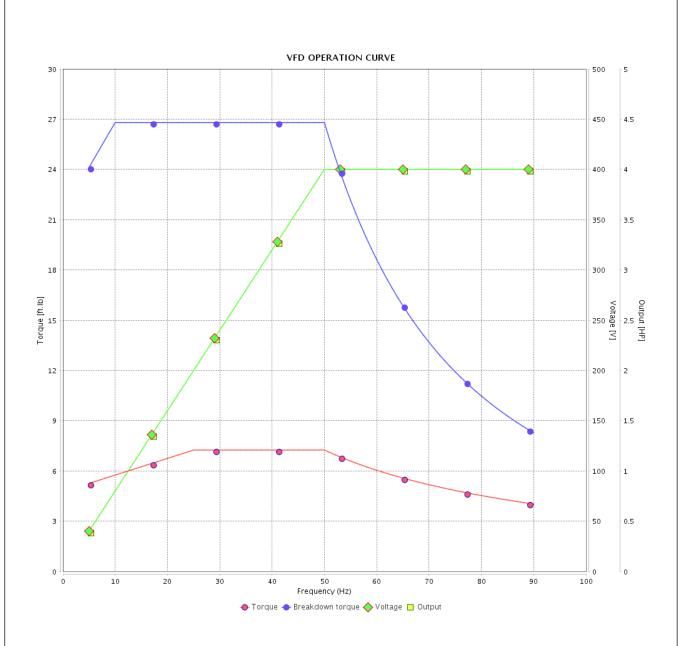
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12034551

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Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8.1 Duty cycle d torque : 7.24 ft.lb Insulation class ed rotor torque : 270 % Service factor kdown torque : 370 % Temperature rise		class ctor	: 0.2233 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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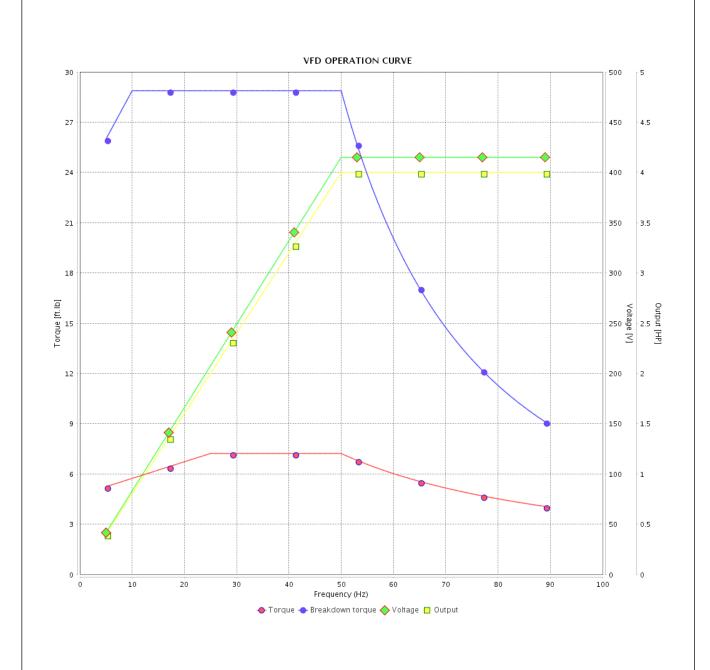
Customer

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Phase

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12034551



Performance	:	: 415 V 50 Hz 2P IE3				
Rated current	:	: 5.43 A		Moment of inertia (J)		lb
LRC	:	8.9	Duty cycle	Duty cycle : Cont.(S1)		
Rated torque	:	7.22 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	300 %) % Service factor		: 1.25	
Breakdown torque	kdown torque : 400 %		Temperature rise : 80 K		: 80 K	
Rated speed : 2910 rpm		Design		: B		
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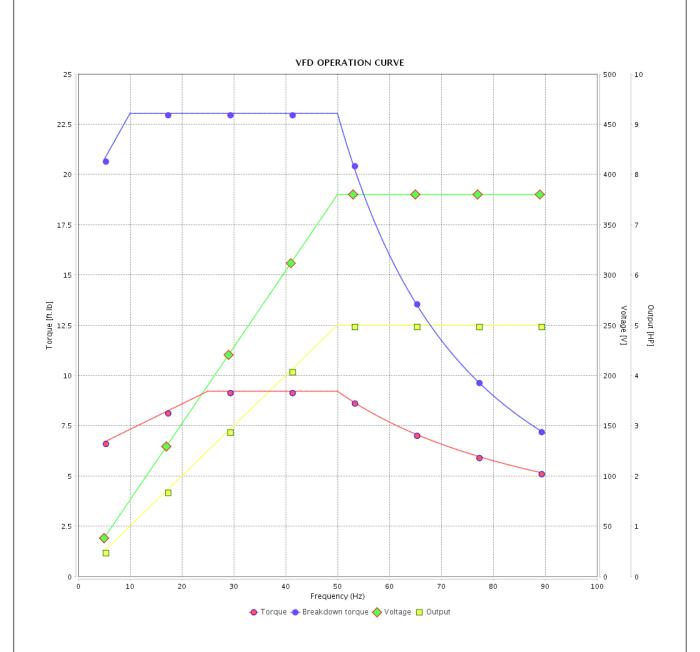


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

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Performance	: 38	30 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 9. que : 18 ue : 25	14 A 9 21 ft.lb 30 % 50 % 350 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2233 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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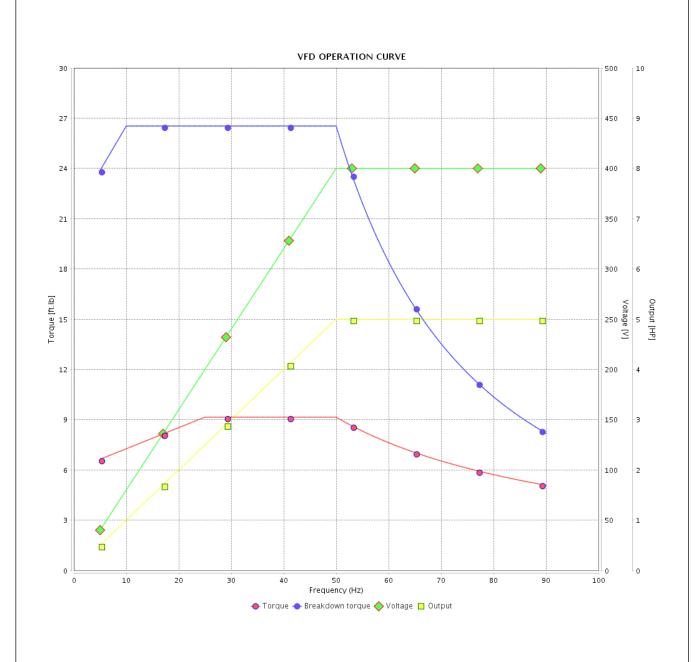


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12034551

Phase

Catalog #: 00536ET3E184JP-W22



Performance	: 400 V 50 Hz 2P IE2					
Rated current	urrent : 6.78 A		Moment o	Moment of inertia (J)		.lb
LRC	: 6	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 9	.15 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.25	
Breakdown torque	que : 290 % Ten		Temperati	Temperature rise : 80 K		
Rated speed : 2870 rpm		Design		: B		
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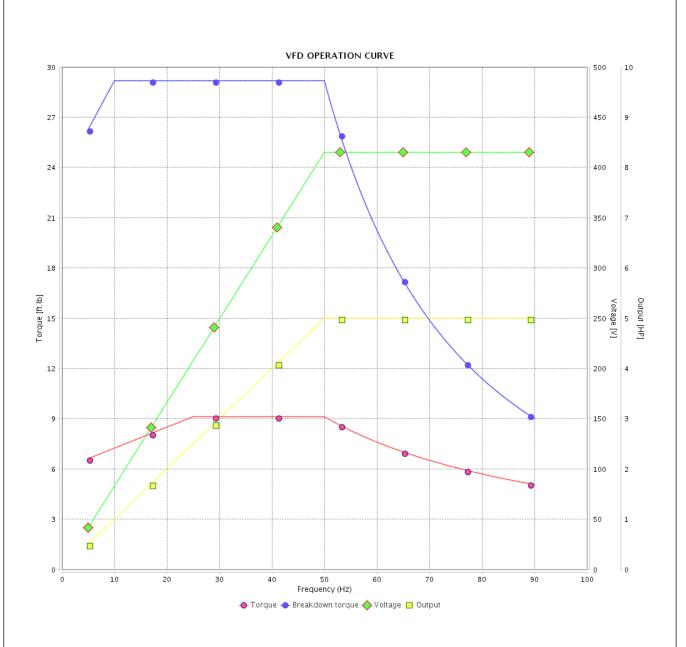
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Performance : 415 V 50 Hz 2P IE2 Rated current : 6.61 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 9.12 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

