DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11380894

Phase

Catalog #: 25036ET3G449TS-W22

Frame : 447/9TS 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 : 2520 lb
Protection degree : IP55 Moment of inertia (J) : 50.3 sq.ft.lb

Protection degre	е	: IP55		Momer	nt of inertia (J) : 5	60.3 sq.ft.lb	
Design		: B						
Output [HP]		250	200	200	200	250	250	250
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		269	265	252	245	330	312	300
L. R. Amperes [A]		1802	1511	1638	1740	1749	1810	1920
LRC [A]		6.7x(Code	5.7x(Code E)	6.5x(Code	7.1x(Code	5.3x(Code E)	5.8x(Code F)	6.4x(Code F)
		G)		G)	G)			
No load current [A]	62.0	60.0	65.0	70.0	61.0	65.0	70.0
Rated speed [RPN	Rated speed [RPM]		2973	2977	2979	2962	2967	2970
Slip [%]		0.75	0.90	0.77	0.70	1.27	1.10	1.00
Rated torque [ft.lb]	Rated torque [ft.lb]		353	353	353	443	442	442
Locked rotor torqu	e [%]	200	190	210	220	150	160	180
Breakdown torque	[%]	240	240	270	300	190	220	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		32s (cold)	48s (cold)	45s (cold)	41s (cold)	21s (cold)	21s (cold)	21s (cold)
		18s (hot)	27s (hot)	25s (hot)	23s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		81.0 dB(A)						
	25%	95.3	94.9	95.0	95.0	95.8	95.7	95.6
Efficiency (%)	50%	95.4	95.0	95.1	95.1	95.4	95.4	95.4
Liliciency (70)	75%	95.8	95.6	95.6	95.6	95.0	95.4	95.8
	100%	95.8	95.6	95.6	95.6	94.5	95.0	95.4
	25%	0.62	0.62	0.58	0.55	0.67	0.64	0.61
Power Factor	50%	0.84	0.84	0.82	0.80	0.87	0.85	0.84
Power Factor	75%	0.89	0.89	0.88	0.87	0.90	0.89	0.89

 0.90
 0.90
 0.89

 Drive end
 Non drive end
 Foundation loads

Bearing type : 6314 C3 6314 C3 | Max. traction : 1450 lb Sealing : WSeal WSeal Max. compression : 3970 lb Lubrication interval : 4000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

100%

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.

0.90

0.90

0.90

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Three Phase Induction Motor - Squirrel Cage



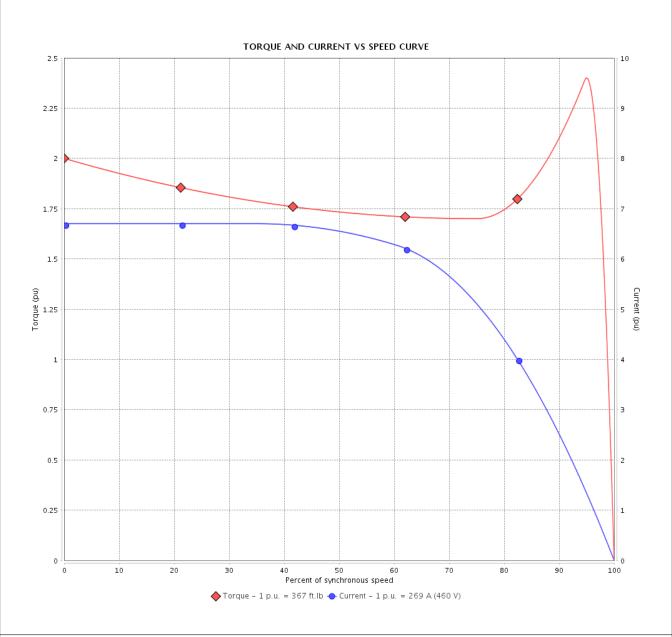
Customer :

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

Phase

Product code: 11380894

Catalog #: 25036ET3G449TS-W22



Performance : 460 V 60 Hz 2P Rated current : 269 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 367 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3573 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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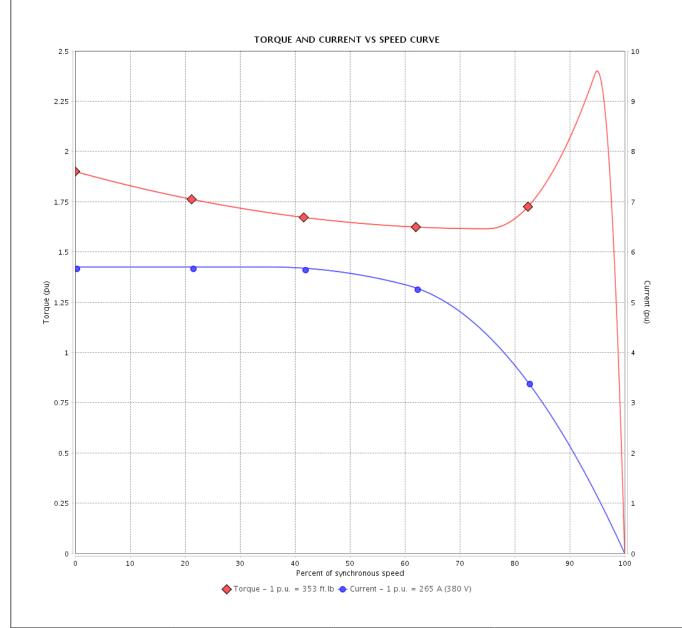
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 11380894

Catalog #: 25036ET3G449TS-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 265 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2973 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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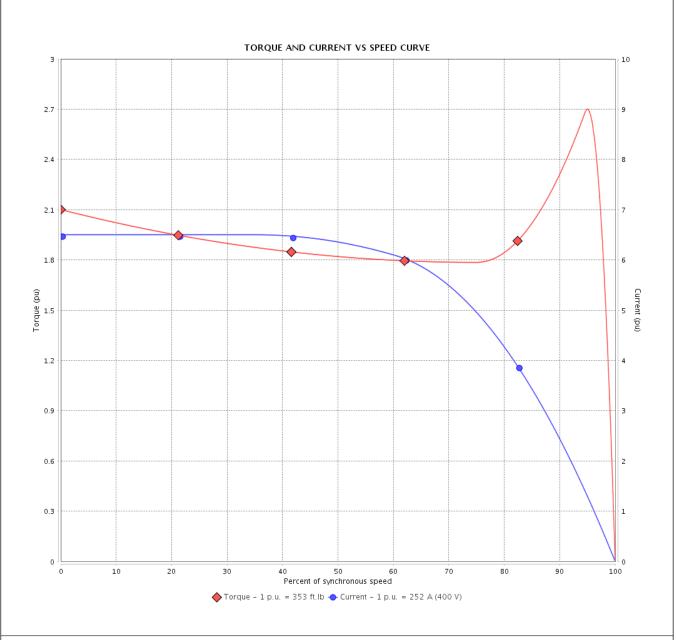
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11380894

Catalog #: 25036ET3G449TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 252 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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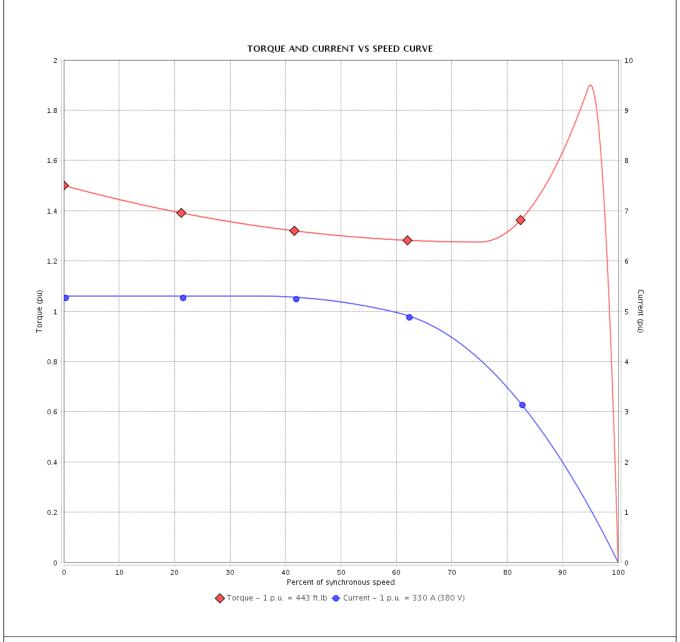
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11380894

Catalog #: 25036ET3G449TS-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 330 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2962 rpm Design : B

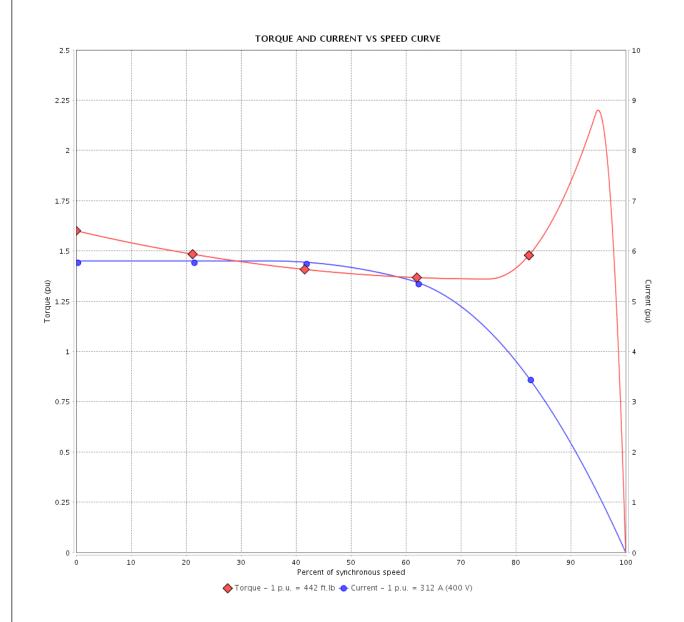
Locked rotor time : 21s (cold) 12s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11380894 Catalog #: 25036ET3G449TS-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 312 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Rated torque : 442 ft.lb Insulation class : F : 160 % : 1.00 Locked rotor torque Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 2967 rpm Design Locked rotor time : 21s (cold) 12s (hot)

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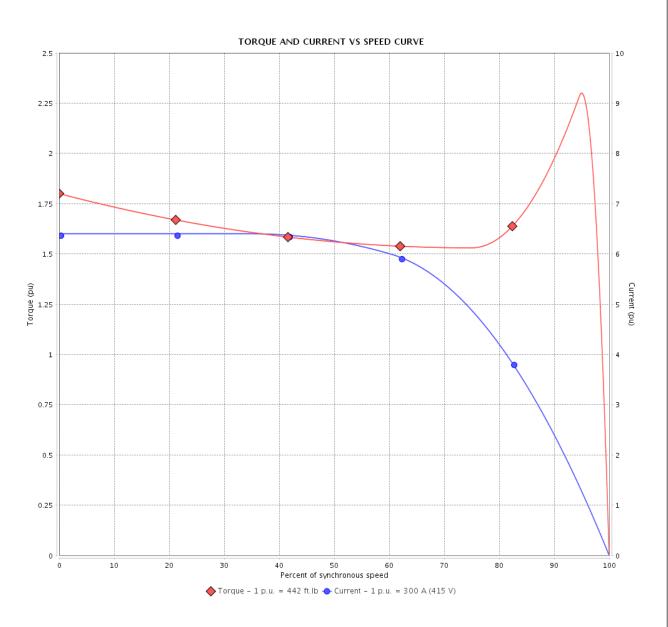


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 25036ET3G449TS-W22

11380894



Performance : 415 V 50 Hz 2P IE2 Rated current : 300 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 442 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2970 rpm Design : B Locked rotor time

: 21s (cold) 12s (hot)

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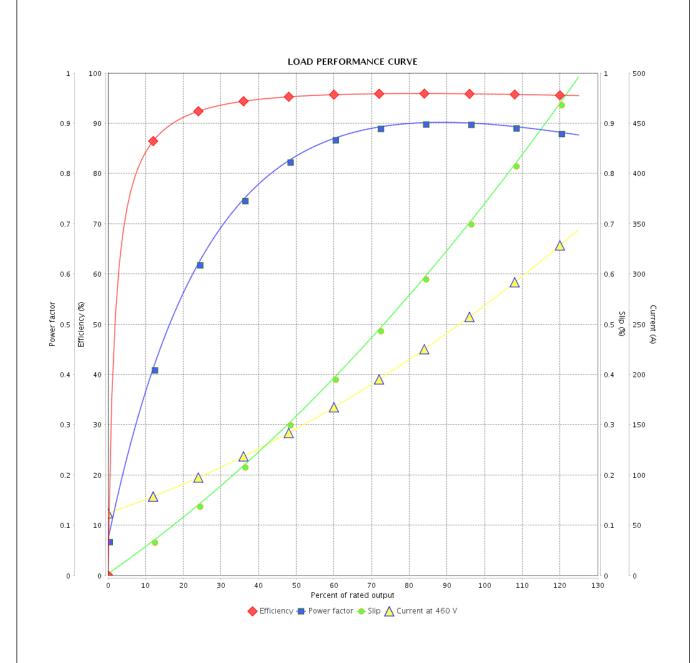
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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 269 A : 6.7 : 367 ft.lb : 200 % : 240 % : 3573 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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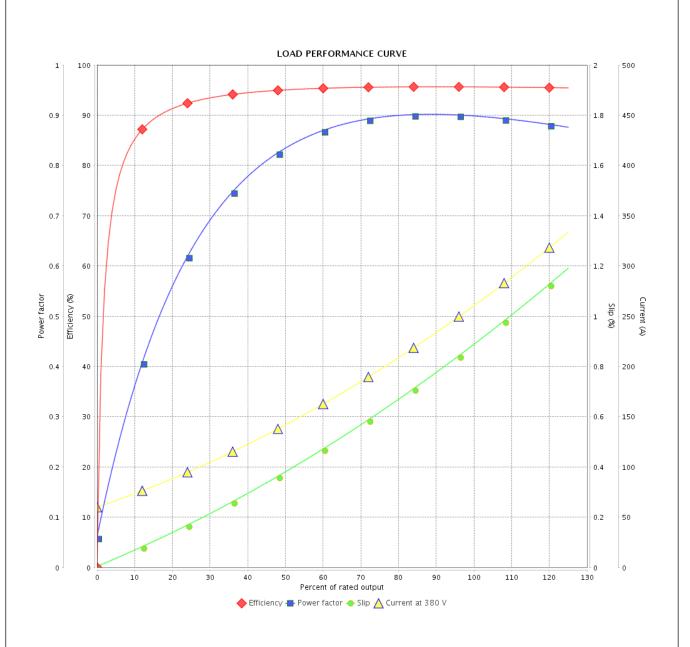
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Performance		: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 265 A : 5.7 : 353 ft.lb : 190 % : 240 % : 2973 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B			
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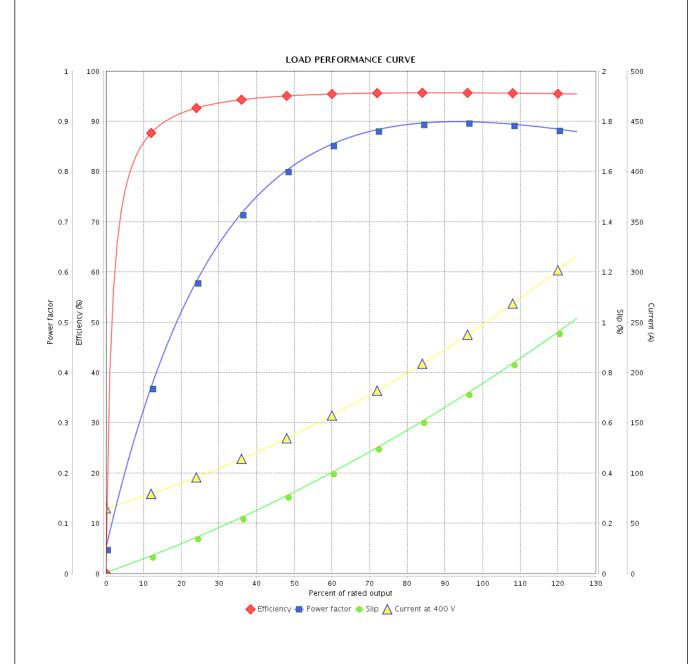
Customer

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 252 A : 6.5 : 353 ft.lb : 210 % : 270 % : 2977 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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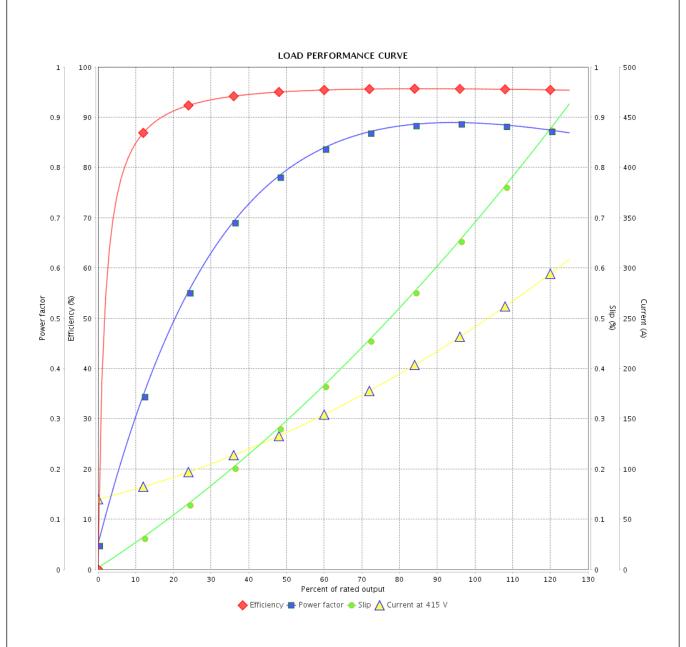
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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 245 A : 7.1 : 353 ft.lb	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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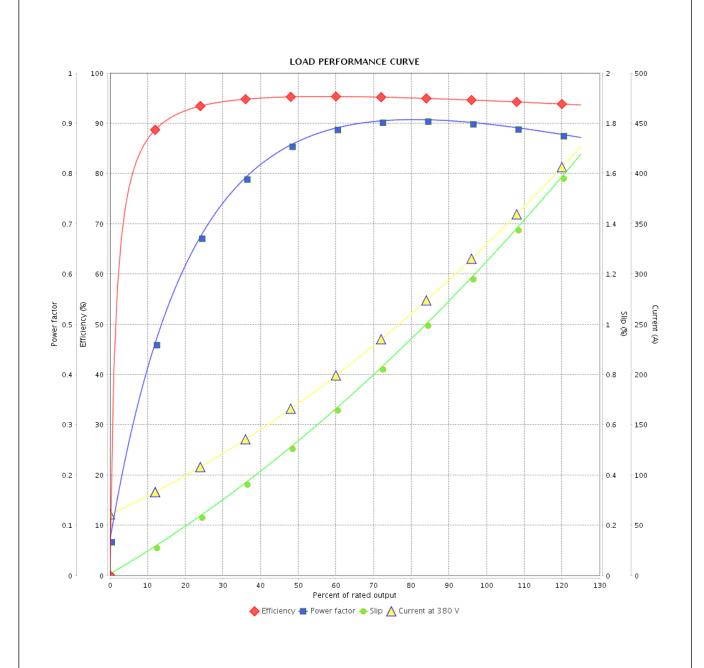


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Product line : NEMA Premium Efficiency Three- Product code : 11380894

Phase

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Performance	: 3	80 V 50 Hz 2P IE1				
Rated current LRC	: 3: : 5:	30 A 3	Moment of Duty cycle	of inertia (J)	: 50.3 sq.ft.lb : Cont.(S1)	
		43 ft.lb 50 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed		90 % 962 rpm	Temperati Design	ure rise	: 105 K : B	
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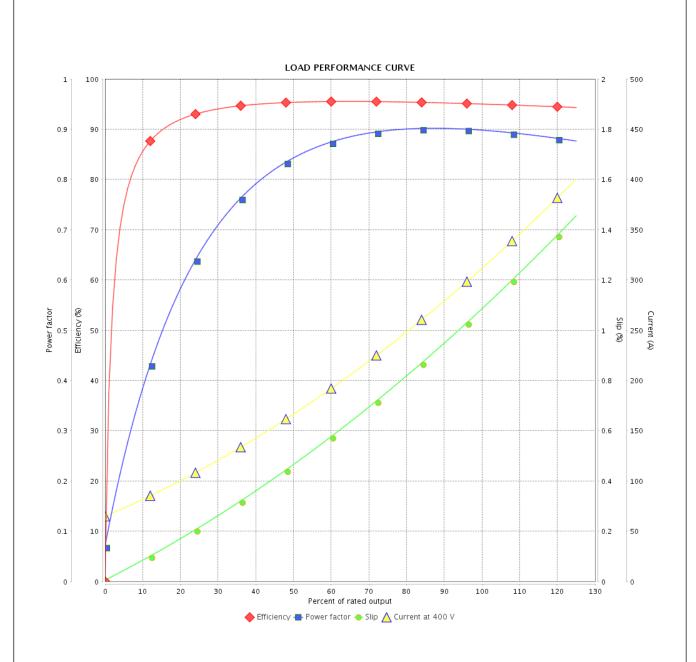
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 4	400 V 50 Hz 2P IE2				
Rated current	::	312 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
LRC	:	5.8	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 4	142 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :	160 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : :	220 %	Temperature rise		: 105 K	
Rated speed	: 2	2967 rpm	Design		: B	
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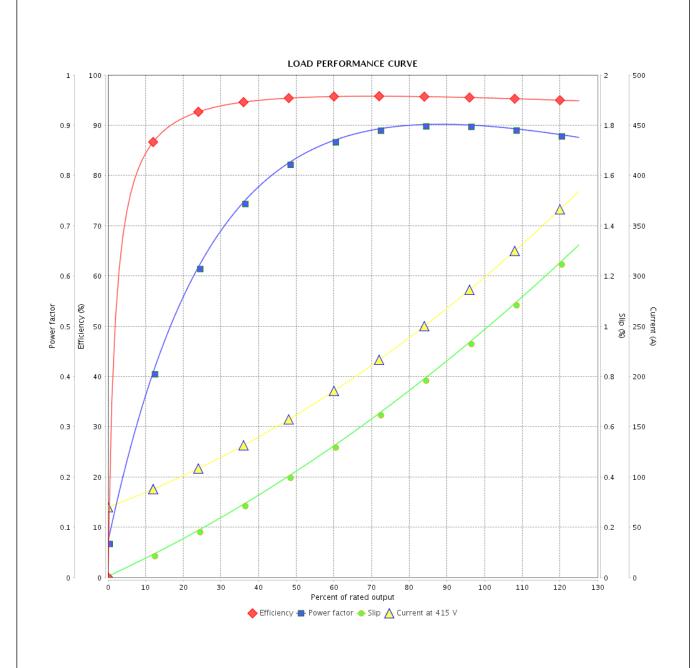
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11380894

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 300 A : 6.4 : 442 ft.lb : 180 % : 229 % : 2970 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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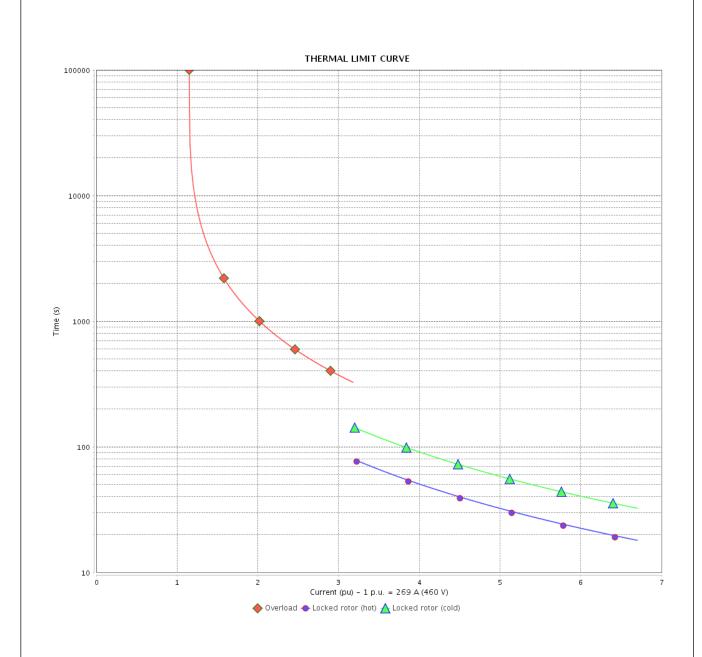


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	11380894 25036ET3G4	49TS-W22
Performance	: 460 V 60 Hz 2P	NA	-f:t:- (1)	. 50 0 # !!-	
Rated current LRC	: 269 A : 6.7	Duty cycle	of inertia (J) e	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 367 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 240 %	Temperat		: 80 K	
Rated speed	: 3573 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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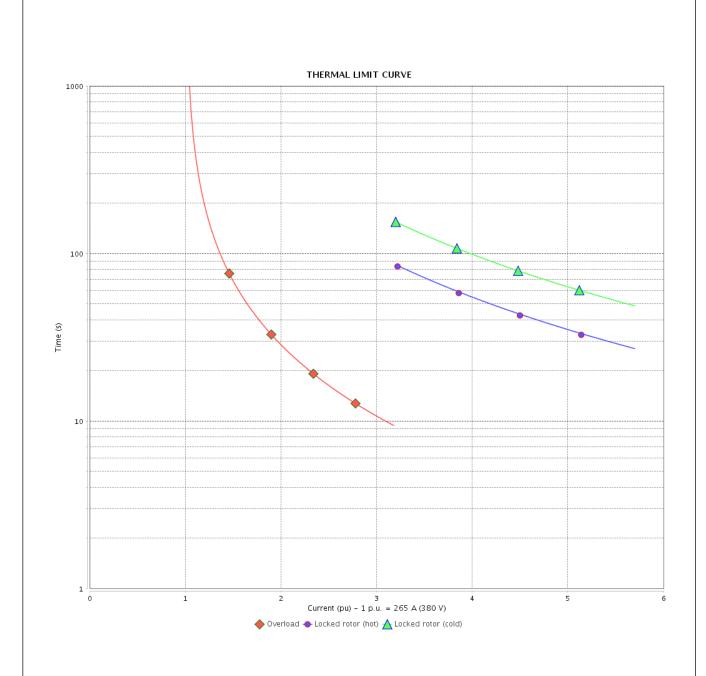


Customer	:				
Product line	: NEMA Premium Effici Phase		Product code :	11380894	
			Catalog #:	25036ET3G4	49TS-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 265 A : 5.7 : 353 ft.lb	Duty cycle Insulation	class	: 50.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 190 % : 240 % : 2973 rpm	Service fa Temperat Design		: 1.15 : 105 K : B	
Heating constant					
Cooling constant			,		
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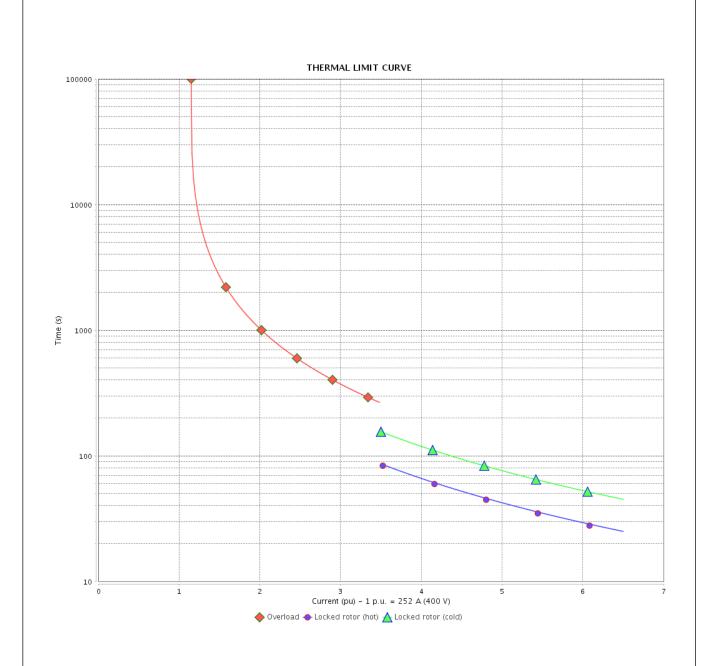


LRC : 6.5 Rated torque : 353 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Customer		:				
Performance	Product line		· NEMA Promium Efficience:	Three	Product codo :	11390904	
Performance	Product line			mee-			
Rated current : 252 A					Catalog # :	25036ET3G4	49TS-W22
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Rated current : 252 A	Performance		400 V 50 Hz 2P IF3				
LRC : 6.5 Rated torque : 353 ft.lb Insulation class : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated current			Moment of	of inertia (J)	: 50.3 sq.ft.lb	
Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	LRC	:	6.5	Duty cycle	е	: Cont.(S1)	
Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision							
Rated speed : 2977 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision							
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Three Phase Induction Motor - Squirrel Cage



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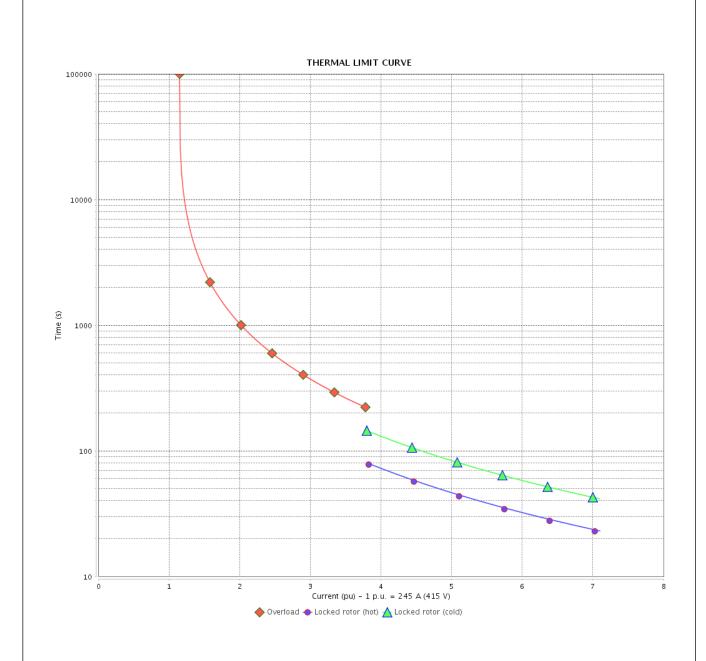


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11380894 25036ET3G44	9TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : : : : : : :	415 V 50 Hz 2P IE3 245 A 7.1 353 ft.lb 220 % 300 % 2979 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage

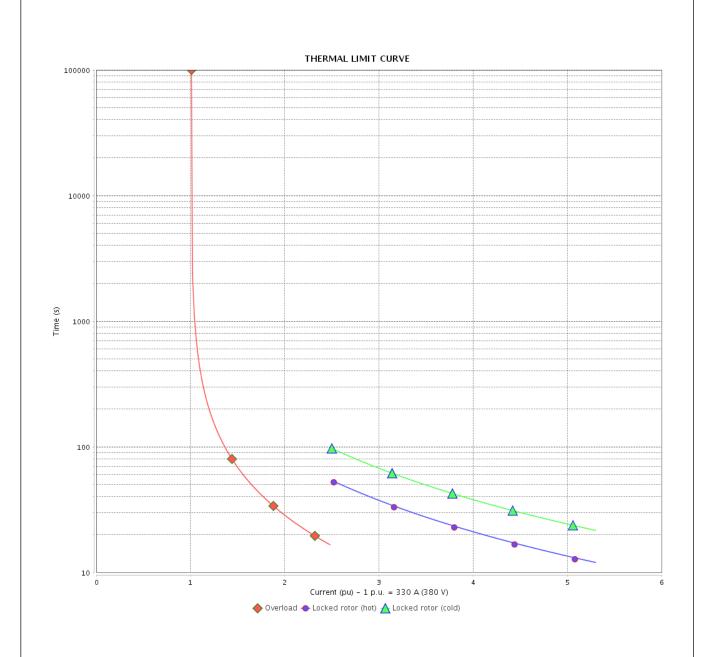


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11380894 25036ET3G44	49TS-W22
Performance		: 380 V 50 Hz 2P IE1	T			
Rated current LRC Rated torque		: 330 A : 5.3 : 443 ft.lb	Moment of Duty cycle Insulation		: 50.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que	: 150 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 190 % : 2962 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constant						
Cooling constant Rev.	[Changes Summary		Performed	Checked	Date
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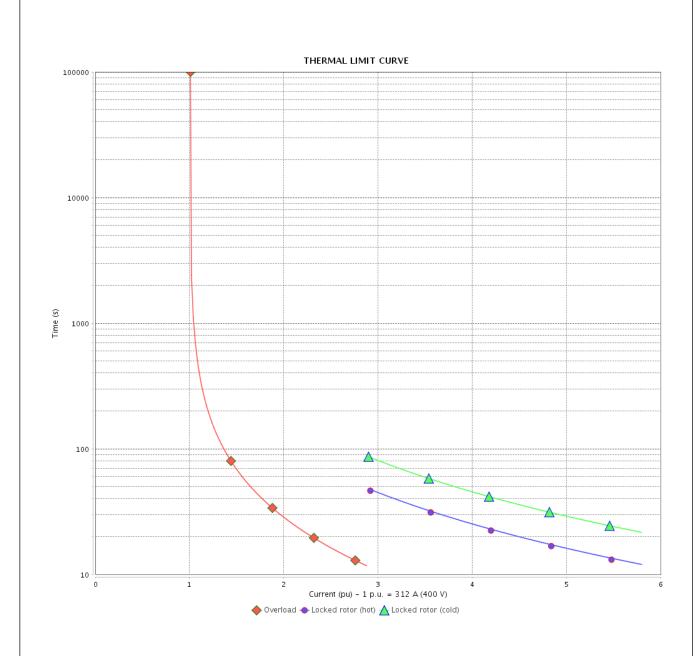


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	11380894 25036ET3G4	.49TS-W22
Performance	: 400 V 50 Hz 2P IE2				
Rated current	: 312 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
LRC	: 5.8	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torque	: 442 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	: 220 % : 2967 rpm	Temperati Design		: 105 K : B	
Heating constant	. 2007 TpHT	Design		. U	
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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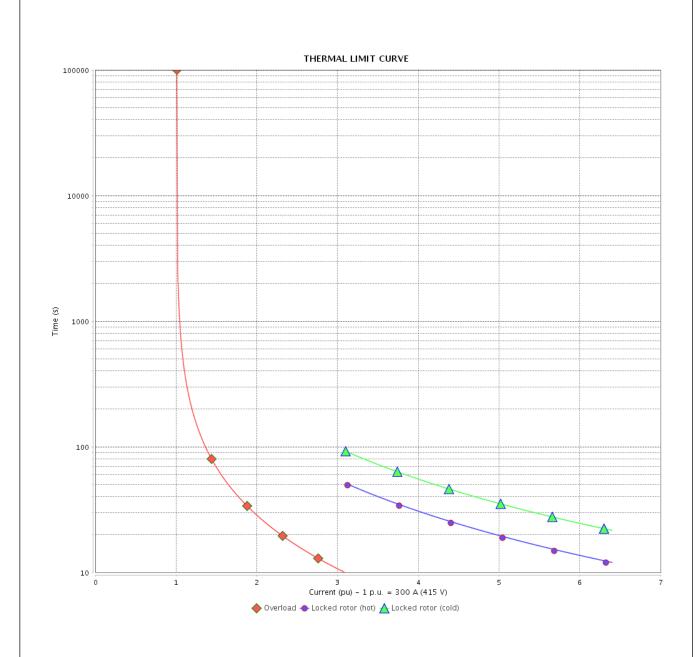


Customer	:				
Product line	: NEMA Premium Efficion Phase	ency Three-	Product code : Catalog # :	11380894 25036ET3G4	149TS-W22
Performance	: 415 V 50 Hz 2P IE2	Managata	of incentio (1)	. 50 2 az # lb	
Rated current LRC	: 300 A : 6.4	Duty cycl	of inertia (J) e	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 442 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Locked rotor torque Breakdown torque	: 229 %	Temperat		: 1.00 : 105 K	
Rated speed	: 2970 rpm	Design		: B	
Heating constant					
Cooling constant	Changas Cummer		Performed	Charles	Data
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Product line : NEMA Premium Efficiency Three-

Phase

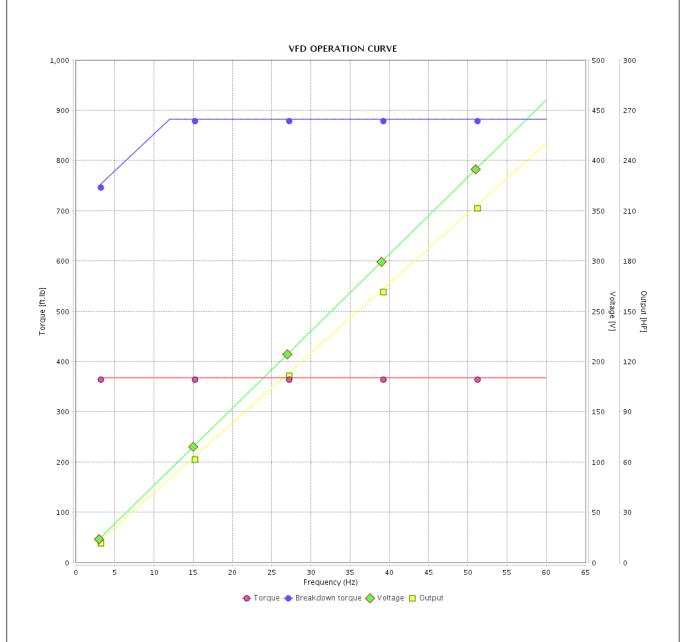
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Performance : 460 V 60 Hz 2P Rated current : 269 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 367 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3573 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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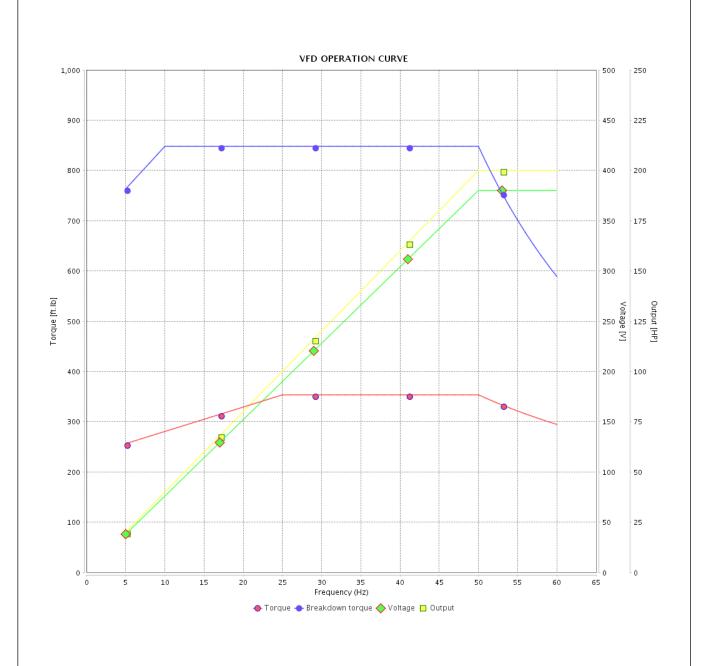
Product line : NEMA Premium Efficiency Three- Produ

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 265 A : 5.7 : 353 ft.lb : 190 % : 240 %	Moment of Duty cycle Insulation Service fac Temperatu	class	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
Rated speed Rev.	: 2973 rpm Changes Summary	Design	Performed	: B Checked	Date
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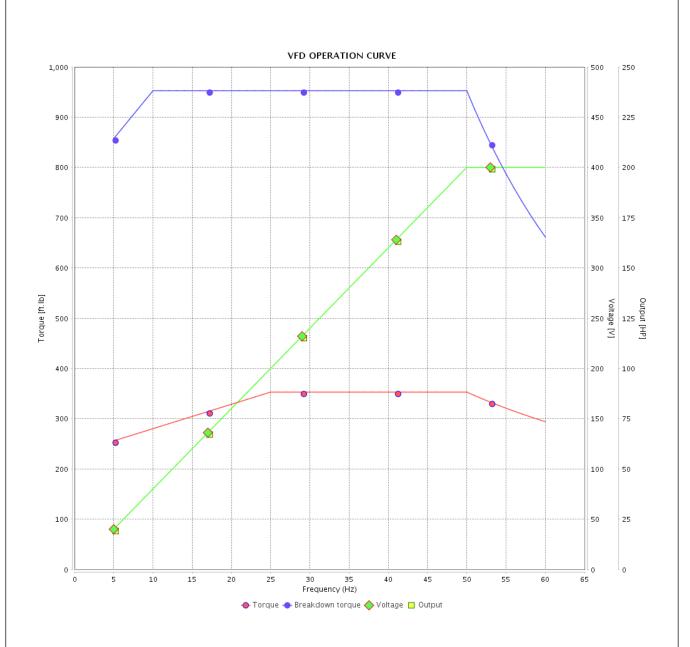
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Performance : 400 V 50 Hz 2P IE3 : 252 A Rated current Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



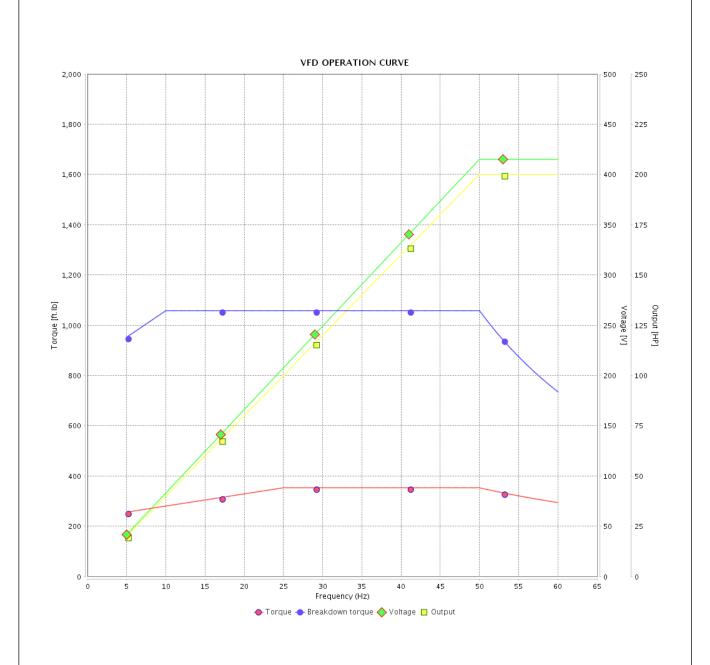
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Phase

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Performance	: 415 V 50 Hz 2P IE3	: 415 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 245 A : 7.1 : 353 ft.lb : 220 % : 300 % : 2979 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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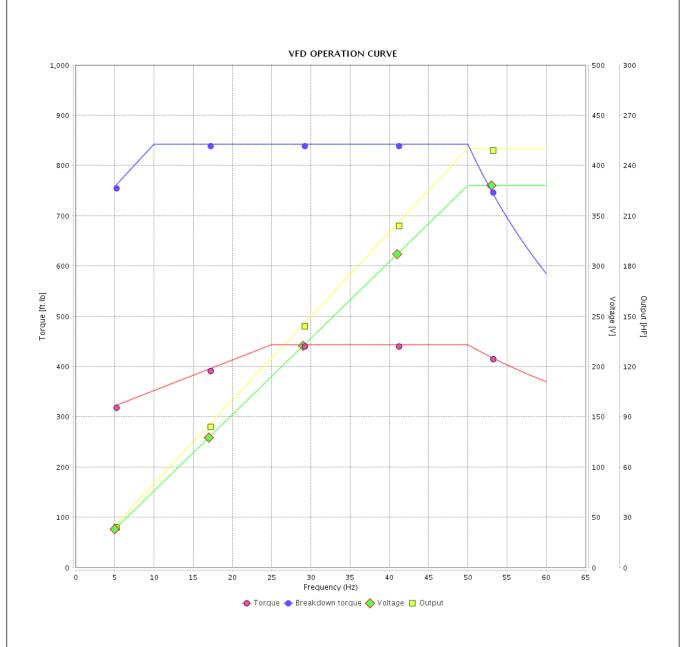
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Performance		: 380 V 50 Hz 2P IE1	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	lue le	: 330 A : 5.3 : 443 ft.lb : 150 % : 190 % : 2962 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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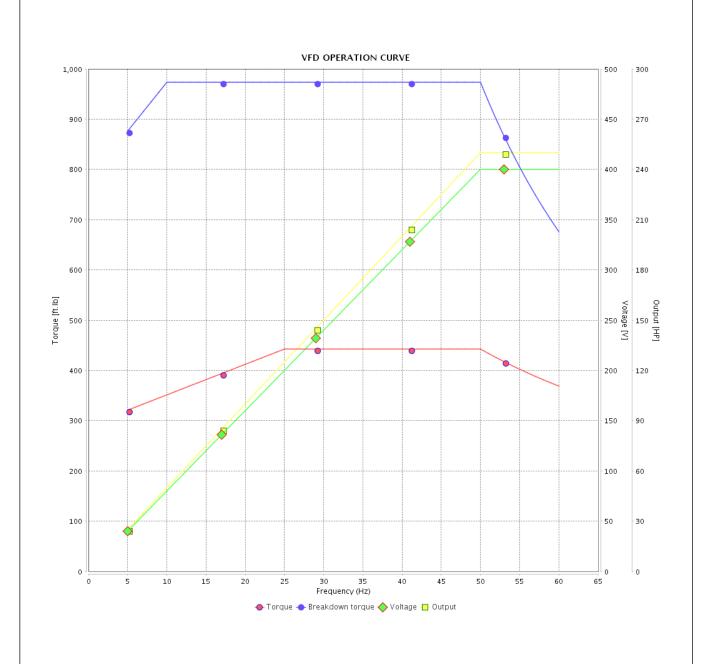
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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque	: 312 A : 5.8 : 442 ft.lb	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor torque Breakdown torque Rated speed	: 160 % : 220 % : 2967 rpm				
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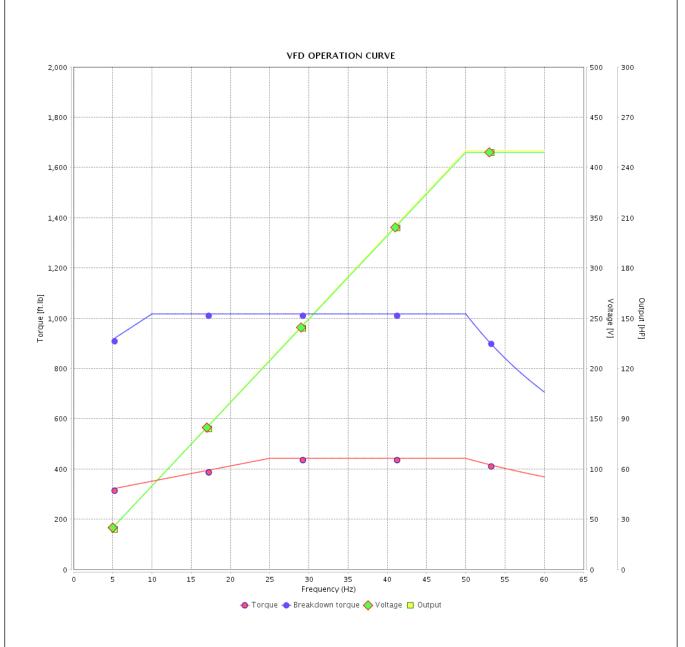
Product line : NEMA Premium Efficiency Three-

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 300 A : 6.4 : 442 ft.lb : 180 % : 229 % : 2970 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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