DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598762

Catalog #: 00736ET3E213JP-W22

Frame : 213/5JP Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude Protection degree	e.	: 1000 m.a.s : IP55	s.l.		x. weight³ nt of inertia (J)		67 lb .4665 sq.ft.lb	
Design		: B						
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	7.83	7.60	7.49	10.6	10.2	9.82
L. R. Amperes [A]		126/63.1	60.3	57.8	62.2	60.4	65.3	67.8
LRC [A]		7.2x(Code H)	7.7x(Code J)	7.6x(Code J)	8.3x(Code K)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]		5.40/2.70	2.84	3.05	3.22	2.70	2.90	3.30
Rated speed [RPM	1]	3520	2930	2940	2945	2895	2905	2915
Slip [%]		2.22	2.33	2.00	1.83	3.50	3.17	2.83
Rated torque [ft.lb]	Rated torque [ft.lb]		9.82	9.79	9.77	13.6	13.5	13.5
Locked rotor torqu	e [%]	210	220	250	270	170	190	210
Breakdown torque	[%]	300	310	350	370	229	260	280
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		39s (cold)	50s (cold)	46s (cold)	45s (cold)	36s (cold)	36s (cold)	36s (cold)
		22s (hot)	28s (hot)	26s (hot)	25s (hot)	20s (hot)	20s (hot)	20s (hot)
Noise level ²		68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	87.2	86.4	86.1	85.8	89.1	87.3	87.2
Efficiency (%)	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
Lindicitoy (70)	75%	89.5	88.2	88.3	88.5	88.5	87.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5	88.5
	25%	0.52	0.48	0.45	0.42	0.57	0.54	0.50
Power Factor	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
1 OWEN I ACION	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84

Drive end Non drive end Foundation loads

0.86

0.84

6309 Z C3 Bearing type 6207 ZZ Max. traction : 130 lb V'Ring V'Ring Sealing : 296 lb Max. compression

0.88

40000 h Lubrication interval 19000 h Lubricant amount 13 g 0 g

0.88

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 19.4A SF 1.15 SFA 22.3A

100%

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

0.89

0.88

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Three Phase Induction Motor - Squirrel Cage

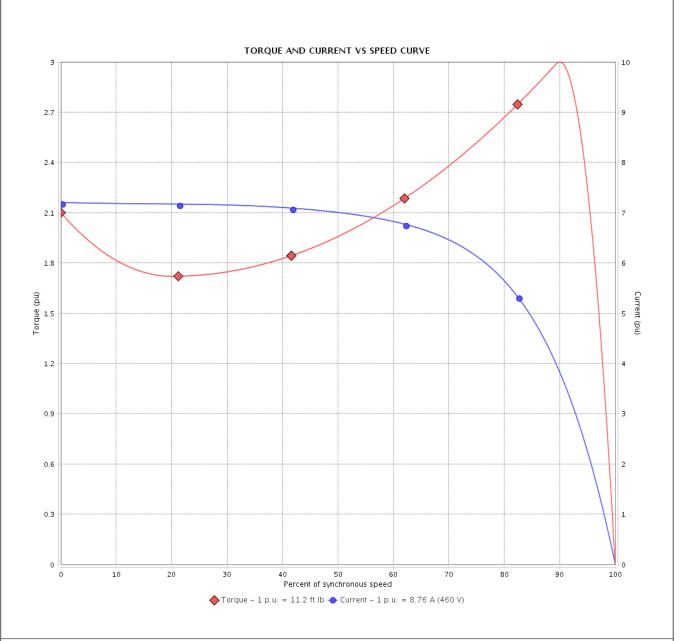


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

Catalog #: 00736ET3E213JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 17.5/8.76 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F : 11.2 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 210 % : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598762 Catalog #: 00736ET3E213JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 9.82 ft.lb ◆ Current - 1 p.u. = 7.83 A (380 V) Performance : 380 V 50 Hz 2P IE3 Moment of inertia (J) Rated current : 7.83 A : 0.4665 sq.ft.lb

LRC	: 7.			le	: Cont.(S1)	
Rated torque	: 9.	82 ft.lb	Insulation	n class	: F	
Locked rotor torque : 22		20 %	Service f	actor	: 1.25	
Breakdown torqu	·		: 80 K			
Rated speed	'		: B			
Locked rotor time	e : 50	0s (cold) 28s (ho	t)			
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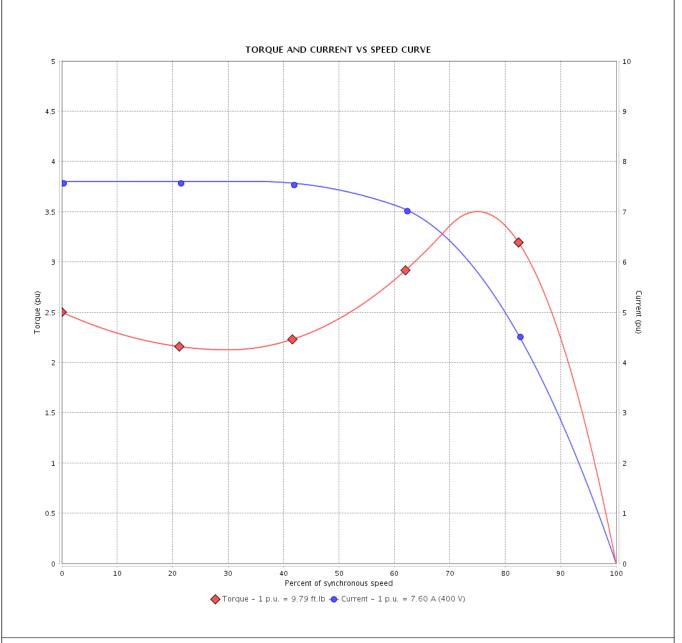
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12598762

Catalog #: 00736ET3E213JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 7.60 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.79 ft.lb Service factor Locked rotor torque : 250 % : 1.25

Breakdown torque : 350 % Temperature rise : 80 K
Rated speed : 2940 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598762 Catalog #: 00736ET3E213JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.77 ft.lb ◆ Current - 1 p.u. = 7.49 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 7.49 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.77 ft.lb Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time : 45s (cold) 25s (hot) Date Rev. Performed Checked **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



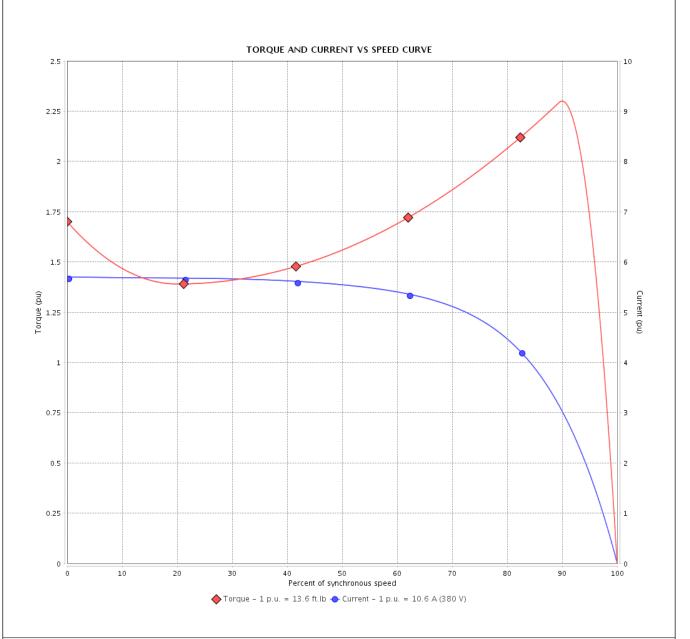
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E213JP-W22

12598762



Performance : 380 V 50 Hz 2P IE2 Rated current : 10.6 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 13.6 ft.lb Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598762 Catalog #: 00736ET3E213JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (bu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 13.5 ft.lb ♦ Current – 1 p.u. = 10.2 A (400 V) Performance · 400 V 50 Hz 2P IE2

Репогтапсе	: 40	0 V 50 HZ 2P IE2	2			
Rated current		1.2 A			: 0.4665 sq.ft.lb	
LRC	: 6.4		Duty cycle	Lance	: Cont.(S1)	
Rated torque	_	5.5 ft.lb	Insulation of		: F	
Locked rotor tord	•	0 %	Service fac		: 1.25	
Breakdown torqu	ıe : 26	60 %	Temperatu	re rise	: 80 K	
Rated speed	: 29	05 rpm	Design		: B	
Locked rotor time	e : 30	6s (cold) 20s (hot	i)			
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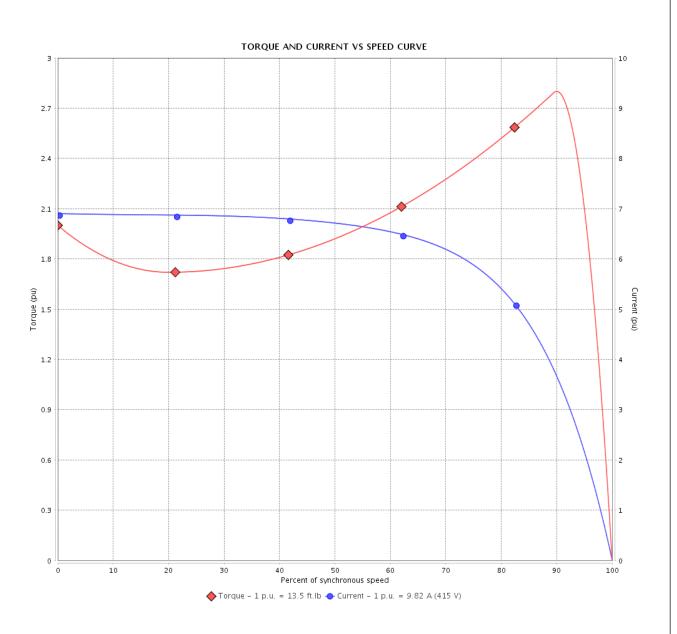
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598762

Catalog #: 00736ET3E213JP-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 9.82 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 13.5 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2915 rpm Design : B Locked rotor time

: 36s (cold) 20s (hot)

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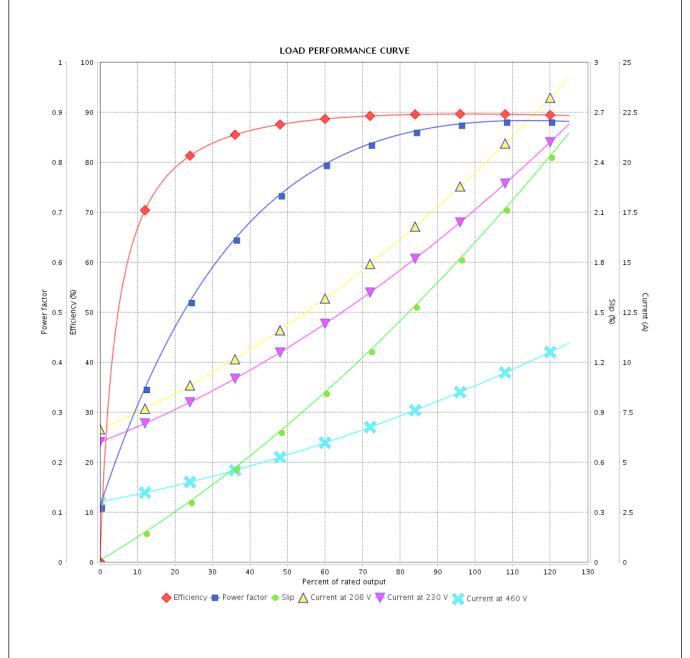
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E213JP-W22

12598762



Performance	: 2	230/460 V 60 Hz 2P				
Rated current		17.5/8.76 A	Moment o	f inertia (J)	: 0.4665 sq.ft.l	b
LRC	: 7	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	I1.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	210 %	Service fa	ctor	: 1.25	
Breakdown torque		300 %	Temperature rise		: 80 K	
Rated speed	: 3	3520 rpm	Design		: B	
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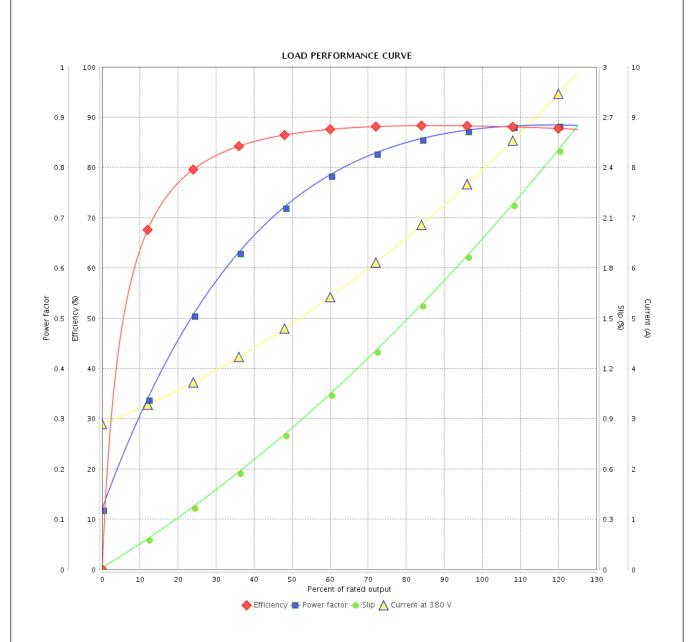
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Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

Catalog #: 00736ET3E213JP-W22



Performance : 380 V 50 Hz 2P IE3 : 7.83 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 9.82 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

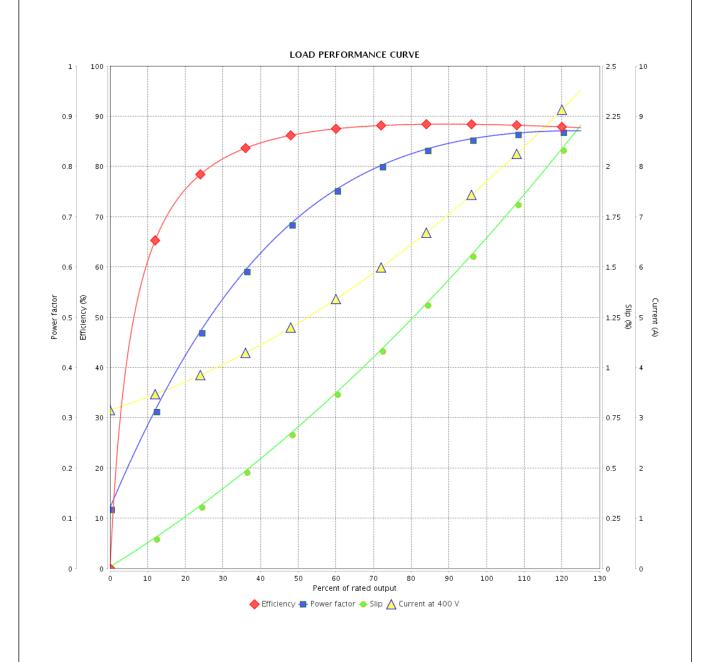
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598762

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Performance	: 4	00 V 50 Hz 2P IE3					
Rated current : 7.60 A		.60 A	Moment o	of inertia (J)	: 0.4665 sq.ft.	.lb	
LRC : 7		.6	Duty cycle	Э	: Cont.(S1)		
Rated torque : 9.		.79 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	50 %	Service fa	ector	: 1.25		
Breakdown torque :		50 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	940 rpm	Design		: B		
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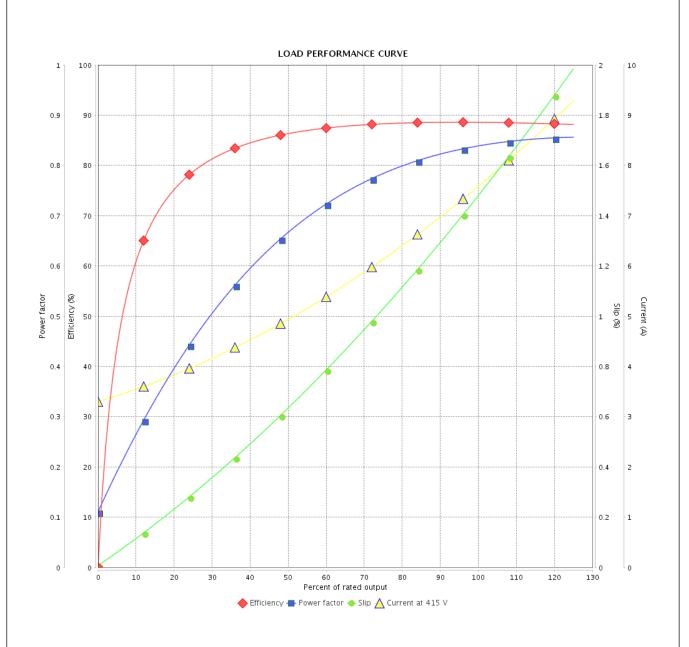
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Phase

Product code: 12598762

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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 7.49 A	Moment of inertia (J)	: 0.4665 sq.f	t.lb	
LRC	: 8.3	Duty cycle	: Cont.(S1)		
Rated torque	: 9.77 ft.lb	Insulation class	: F		
Locked rotor torque	: 270 %	Service factor	: 1.25	: 1.25	
Breakdown torque	: 370 %	Temperature rise	: 80 K	: 80 K	
Rated speed	: 2945 rpm	Design	: B		
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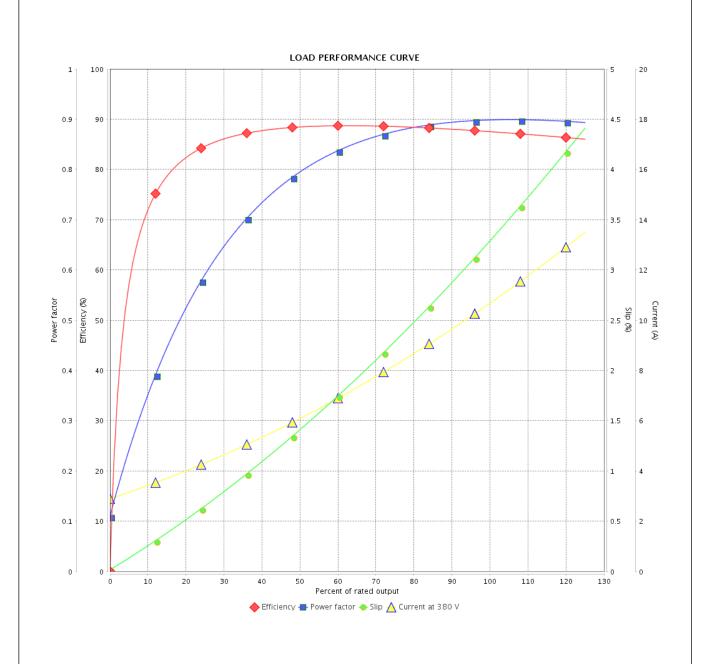


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

Catalog #: 00736ET3E213JP-W22



Performance	: 3	380 V 50 Hz 2P IE2				
Rated current		10.6 A	Moment o	Moment of inertia (J)		.lb
LRC : 5		5.7	Duty cycle	;	: Cont.(S1)	
Rated torque : 13		13.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	170 %	Service fa	ctor	: 1.25	
Breakdown torque		229 %	Temperature rise		: 80 K	
Rated speed	: 2	2895 rpm	Design		: B	
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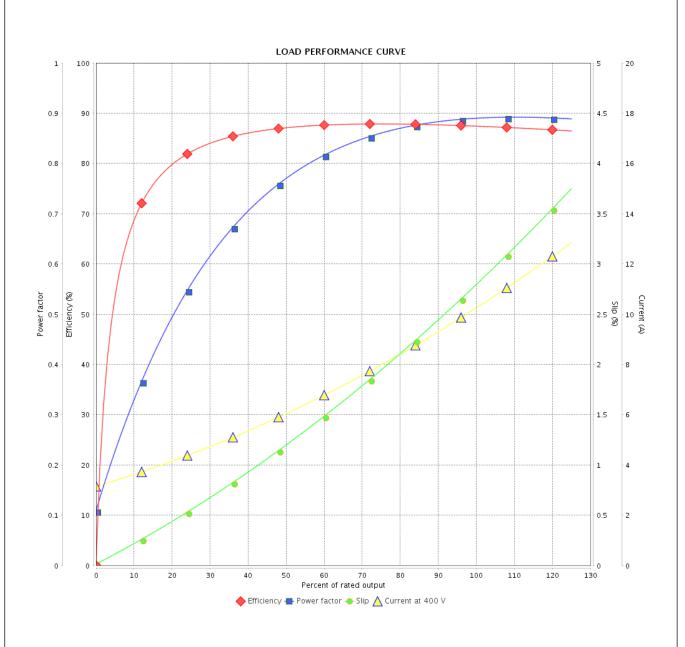
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598762

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque	: 10.2 A : 6.4 : 13.5 ft.lb : 190 %	Duty cycle Insulation Service fa	class ctor	: 0.4665 sq.ft. : Cont.(S1) : F : 1.25	lb
Breakdown torque Rated speed	: 260 % : 2905 rpm	Temperate Design	ıre rise	: 80 K : B	
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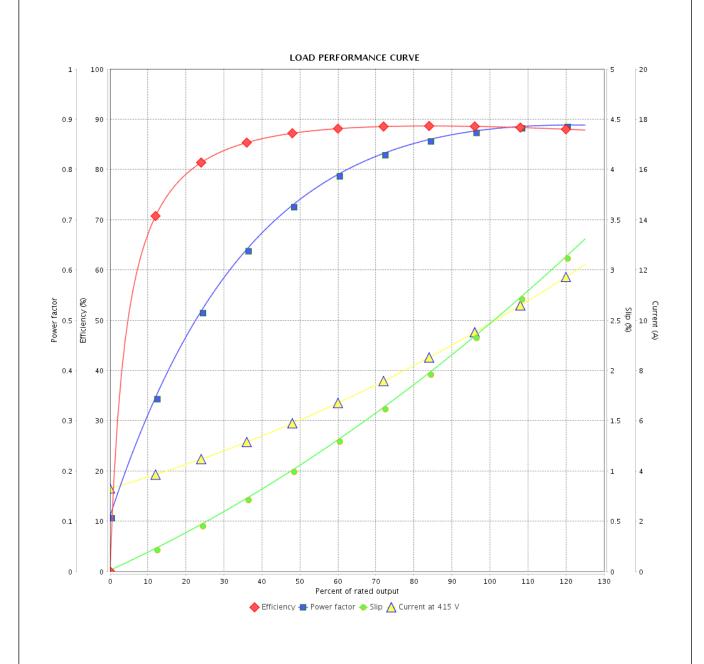


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

Catalog #: 00736ET3E213JP-W22



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	: 9.	82 A	Moment o	f inertia (J)	: 0.4665 sq.ft	.lb
LRC	: 6	9	Duty cycle)	: Cont.(S1)	
Rated torque		3.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 28	30 %	Temperati	ıre rise	: 80 K	
Rated speed	: 29	915 rpm	Design		: B	
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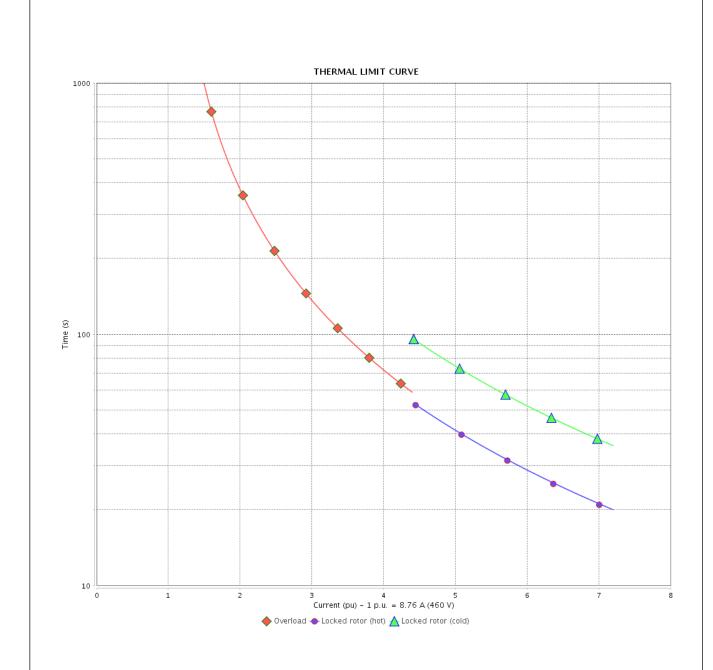


Customer	:			·	
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	12598762 00736ET3E2	213JP-W22
Performance Rated current	: 230/460 V 60 Hz 2P : 17.5/8.76 A	Moment o	of inertia (J)	: 0.4665 sq.ft.	lb
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.2 : 11.2 ft.lb : 210 % : 300 % : 3520 rpm	Duty cycle Insulation Service fa Temperati	e class actor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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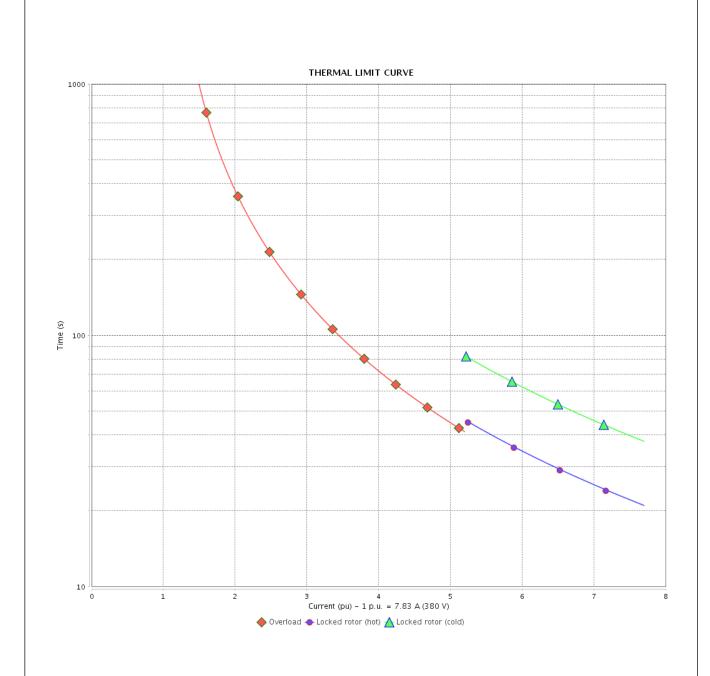


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Product line		NEMA Premium Efficiency hase	/ Three-	Product code :	12598762	
		11436		Catalog # :	00736ET3E2	213JP-W22
Performance		80 V 50 Hz 2P IE3	1	.	0.400=	
Rated current LRC	: 7. : 7.	83 A 7	Moment of Duty cycle	of inertia (J)	: 0.4665 sq.ft. : Cont.(S1)	D
Rated torque	: 9.	82 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 10 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		930 rpm	Design		: B	
Heating constant						
Cooling constant					0 1	
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Three Phase Induction Motor - Squirrel Cage



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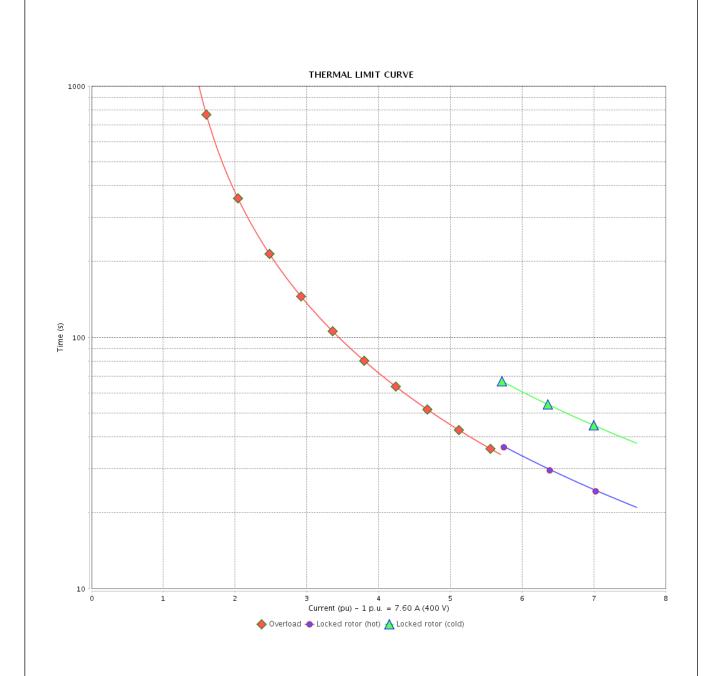


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598762 00736ET3E2	13JP-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 7.60 A : 7.6	Duty cycle		: 0.4665 sq.ft.ll : Cont.(S1)	0
Rated torque Locked rotor tord		: 9.79 ft.lb : 250 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 350 %	Temperat		: 80 K	
Rated speed		: 2940 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summers		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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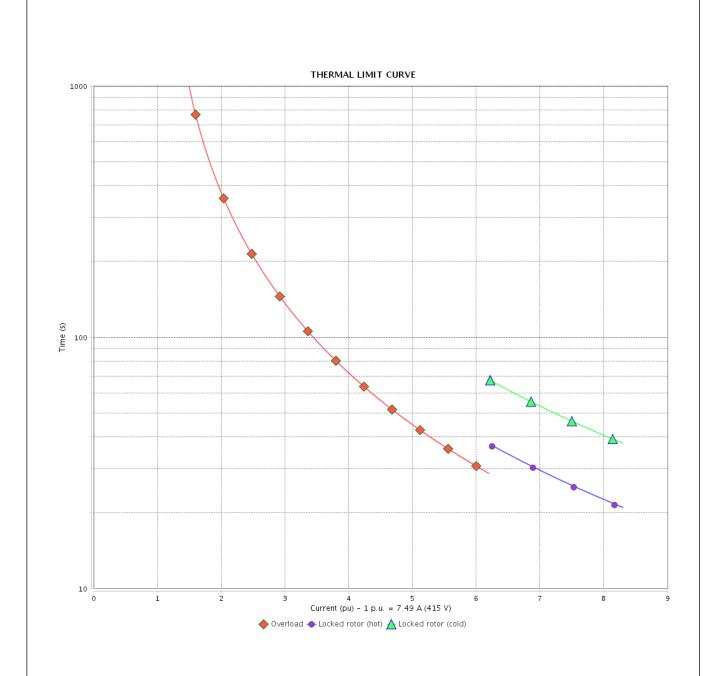


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598762 00736ET3E2	13JP-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 7.49 A : 8.3	Duty cycle		: 0.4665 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 9.77 ft.lb : 270 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 370 %	Temperat		: 80 K	
Rated speed		: 2945 rpm	Design		: B	
Heating constant						
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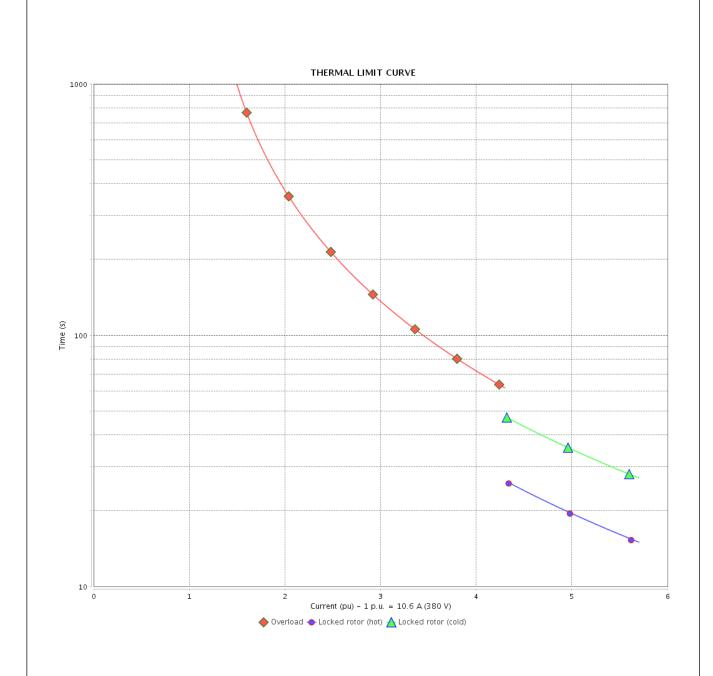


Performance							
Performance	Customer	:					
Performance	Product line						
Rated current : 10.6 A				(Catalog # :	00736ET3E2	213JP-W22
Rated current : 10.6 A							
LRC : 5.7 Duty cycle : Cont.(S1) Rated torque : 13.6 ft.lb Insulation class : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	Performance	: 38	80 V 50 Hz 2P IE2				
Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	LRC Rated torque Locked rotor torqu Breakdown torque	: 5. : 13 : 15 : : 22	.7 3.6 ft.lb 70 % 29 %	Duty cycle Insulation Service far Temperatu	class ctor	: Cont.(S1) : F : 1.25 : 80 K	b
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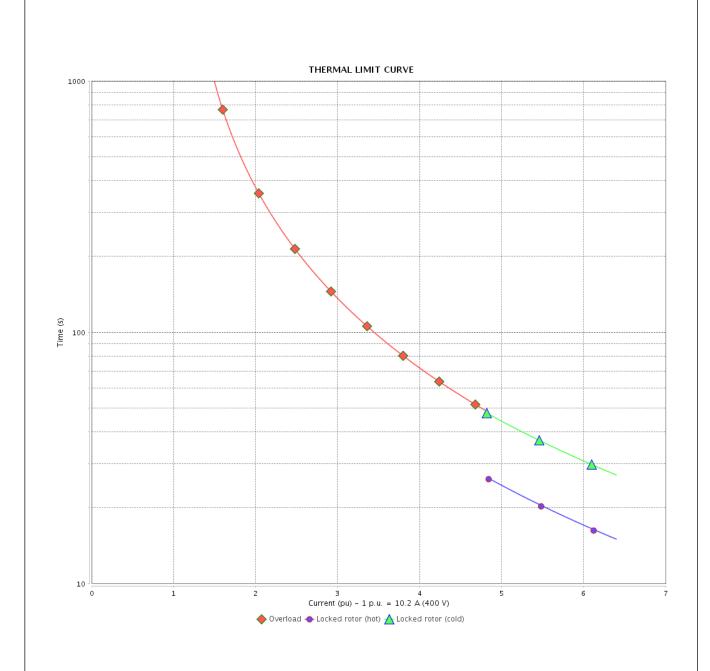


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598762 00736ET3E2	13JP-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 10.2 A : 6.4	Duty cycle		: 0.4665 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 13.5 ft.lb : 190 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 260 %	Temperat		: 80 K	
Rated speed		: 2905 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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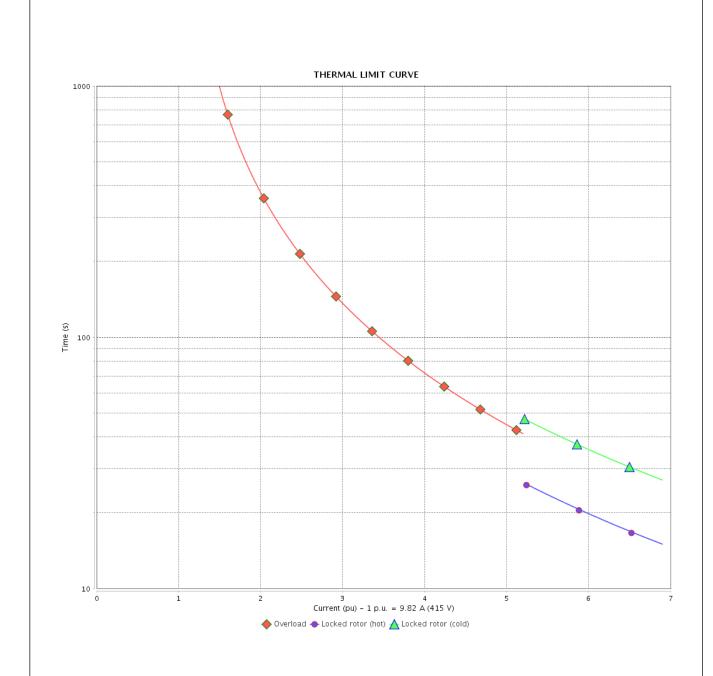


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598762 00736ET3E2	213JP-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC	: 9.82 A : 6.9	Duty cycle	f inertia (J)	: 0.4665 sq.ft. : Cont.(S1)	b
Rated torque Locked rotor torque	: 13.5 ft.lb : 210 %	Insulation Service fa	ctor	: F : 1.25	
Breakdown torque Rated speed	: 280 % : 2915 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Customer



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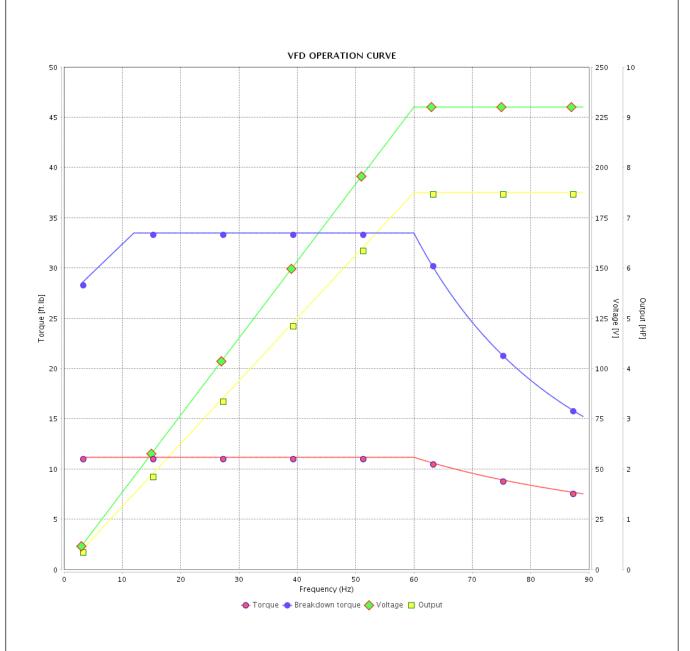
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598762

Catalog #: 00736ET3E213JP-W22

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Performance		: 230/460 V 60 Hz 2F	P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 17.5/8.76 A : 7.2 : 11.2 ft.lb : 210 % : 300 % : 3520 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
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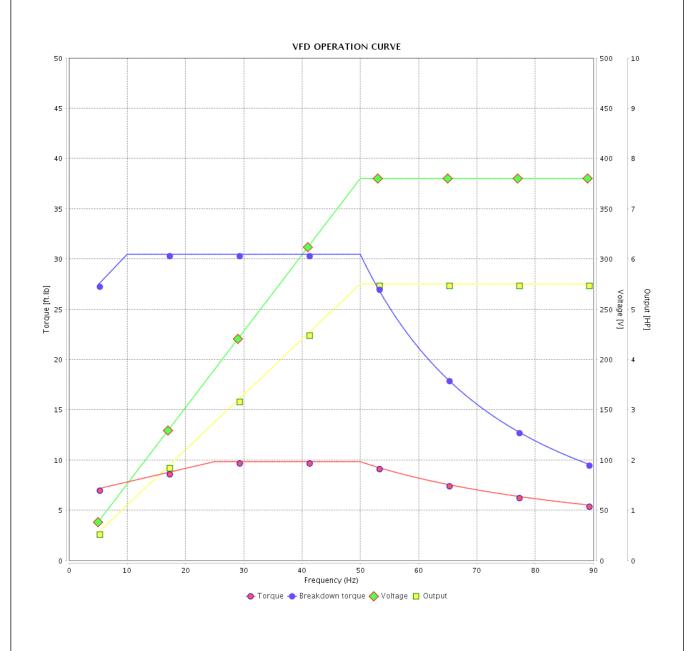
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC	: 7.83 A : 7.7	Moment of inertia (J) Duty cycle		: 0.4665 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 9.82 ft.lb : 220 % : 310 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed	: 2930 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

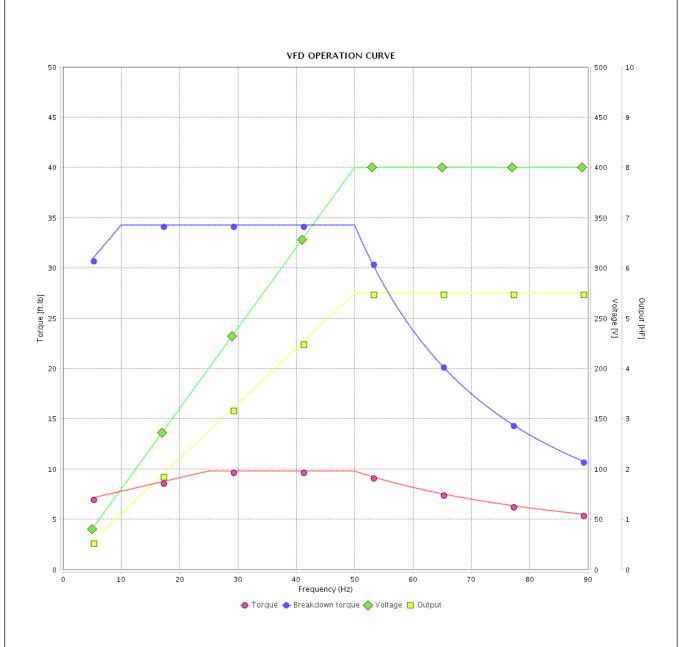
Product code: 12598762

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Performance	:	: 400 V 50 Hz 2P II	E3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :e ::	: 7.60 A : 7.6 : 9.79 ft.lb : 250 % : 350 % : 2940 rpm	Duty Insul Serv	cycle lation ice fac peratu	class	: 0.4665 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Three Phase Induction Motor - Squirrel Cage

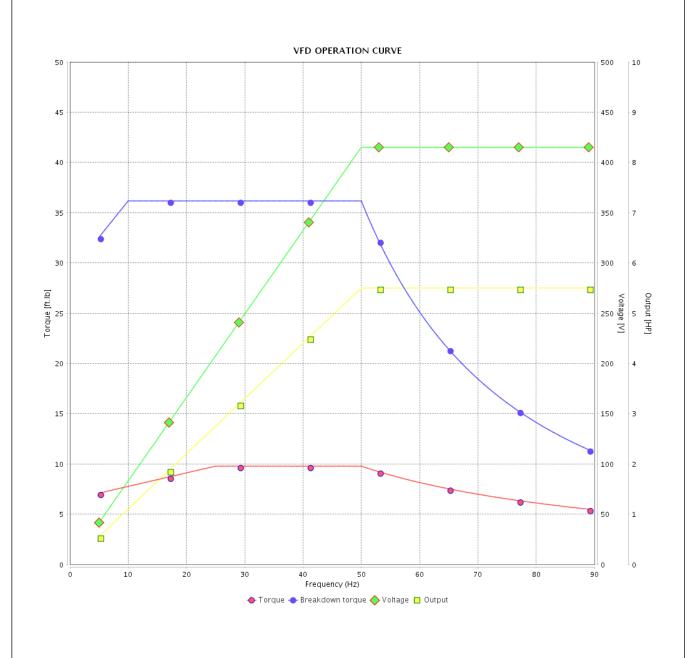


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Product line : NEMA Premium Efficiency Three- Product code : 12598762

Phase

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 7.4		.49 A	Moment of	Moment of inertia (J)		lb
LRC	: 8	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 9	.77 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	70 %	Service fa	ctor	: 1.25	
Breakdown torque	que : 370 % Temperat		ure rise : 80 K			
Rated speed : 2945 rpn		945 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

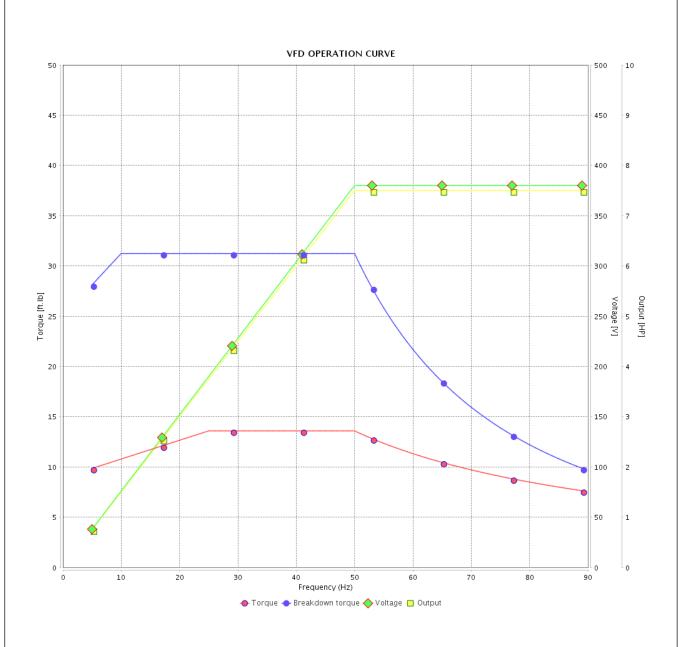
Product code: 12598762

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Performance : 380 V 50 Hz 2P IE2 : 10.6 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 13.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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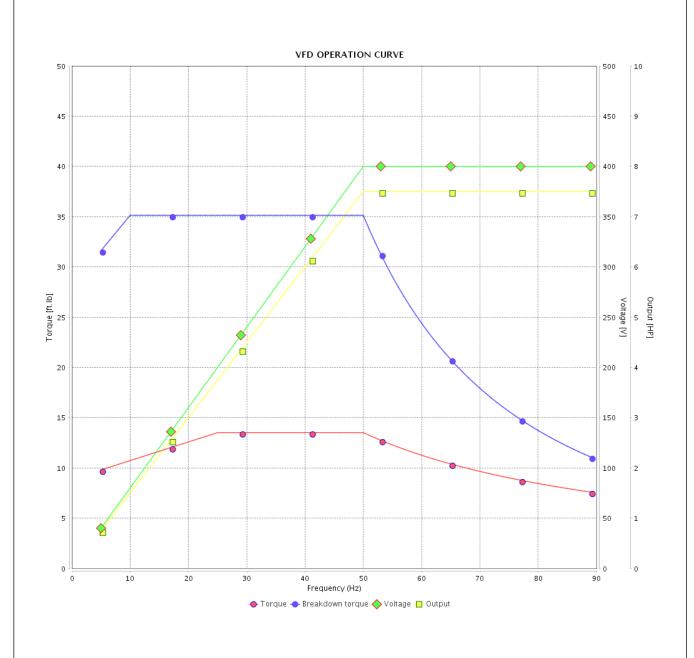
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.2 A : 6.4 : 13.5 ft.lb : 190 % : 260 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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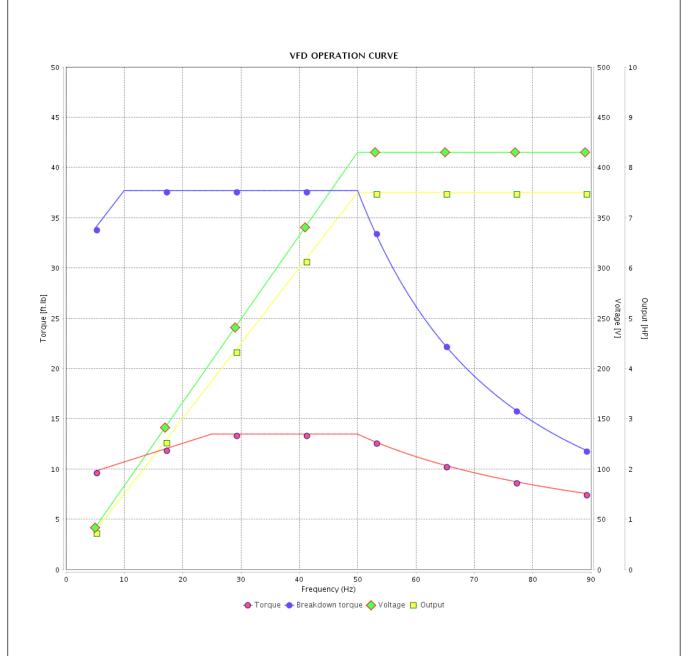
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598762

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Performance	: 415 V 50 Hz 2P IE2				
Rated current	: 9.82 A	Moment of inertia (J)		: 0.4665 sq.ft.lb	
LRC	: 6.9	Duty cycle	e	: Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation class		:F	
Locked rotor torque	: 210 %	Service factor		: 1.25	
Breakdown torque	: 280 %	Temperature rise Design		: 80 K : B	
Rated speed	: 2915 rpm				
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