DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

Catalog #: 00736ET3E213TC-W22

Frame : 213/5TC 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	k. weight³	: 1	62 lb	
Protection degre	е	: IP55		Momei	nt of inertia (J) : 0	.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)	,	6.9x(Code H)
							G)	
No load current [A]	5.40/2.70	2.35	2.65	2.91	2.23	2.52	2.98
Rated speed [RPN	/ 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]		11.2	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%							
Efficiency (%)	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
Lincicity (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%							
Power Factor	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
I OWELL ACIOL	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.90	0.89	0.88

Drive end Non drive end Foundation loads

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 132 lb Sealing : V'Ring V'Ring Max. compression : 294 lb

Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 19.4A SF 1.15 SFA 22.3A

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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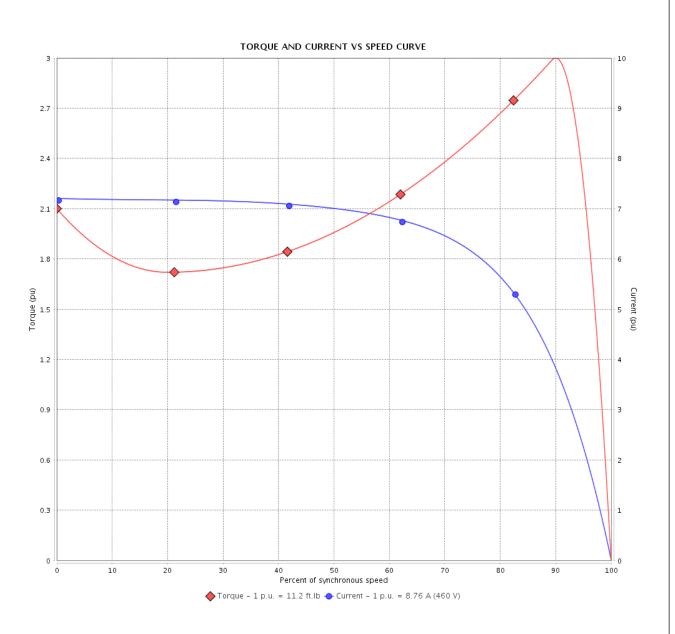
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446714

Catalog #: 00736ET3E213TC-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: 12446714 Catalog #: 00736ET3E213TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 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 Rated current : 7.83 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.82 ft.lb : 220 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Locked rotor time : 50s (cold) 28s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage

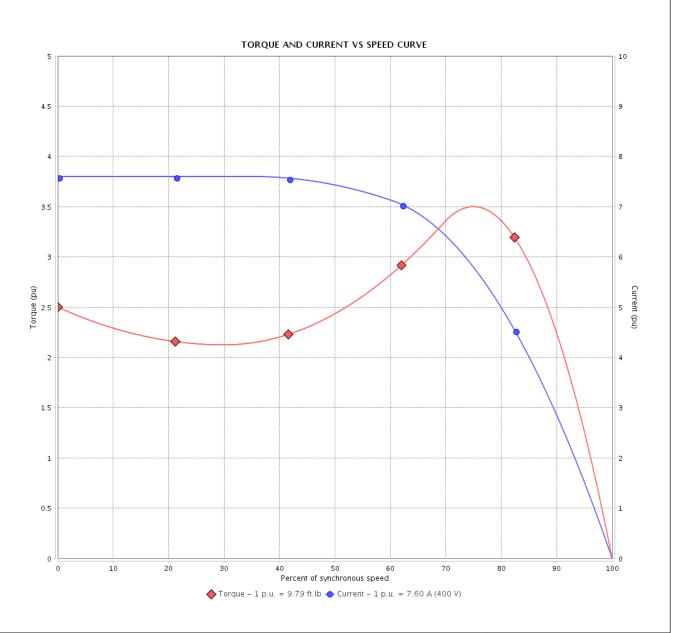


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

Catalog #: 00736ET3E213TC-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) Insulation class Rated torque : 9.79 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B

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

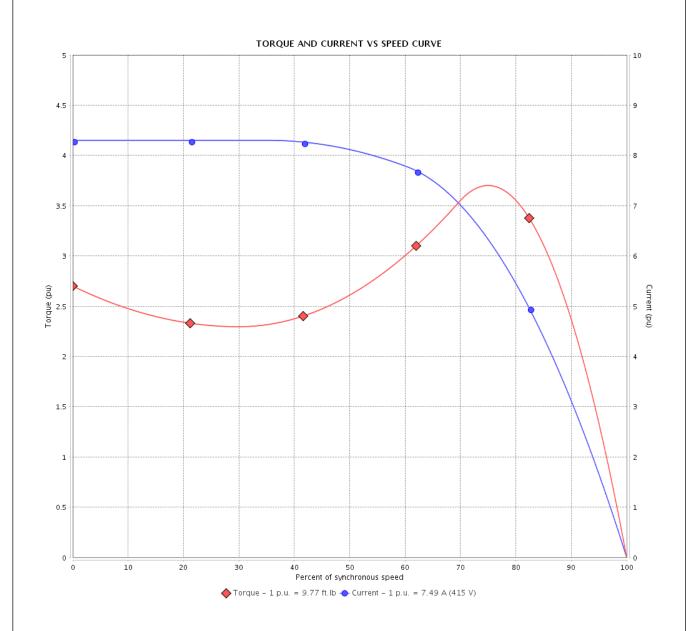
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12446714
Phase Catalog # : 00736ET3E213TC-W22



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)

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Three Phase Induction Motor - Squirrel Cage

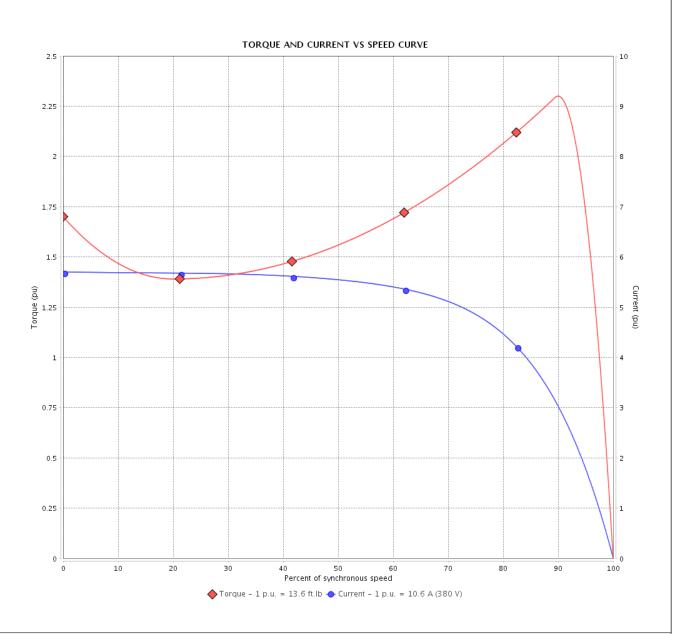


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

Catalog #: 00736ET3E213TC-W22



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 Service factor Locked rotor torque : 170 % : 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: 12446714 Catalog #: 00736ET3E213TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 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 Rated current : 10.2 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 13.5 ft.lb Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Date Performed Checked Rev. **Changes Summary**

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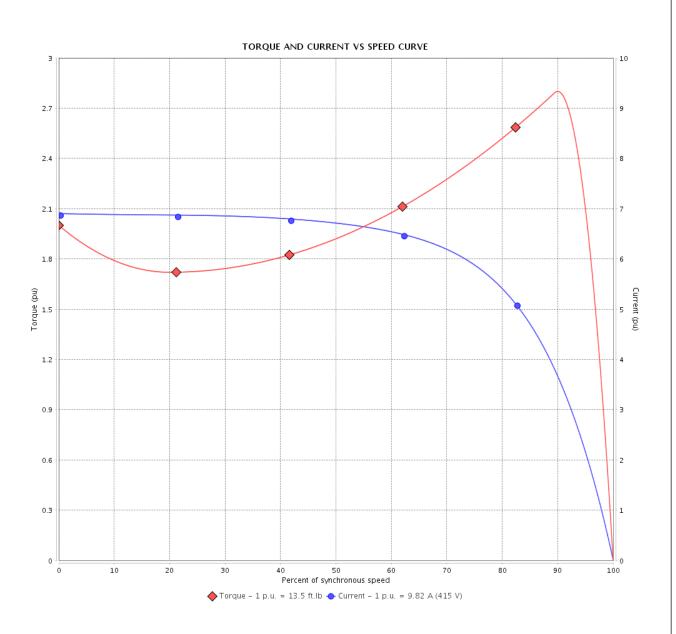
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446714

Catalog #: 00736ET3E213TC-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) : F Insulation class Rated torque : 13.5 ft.lb 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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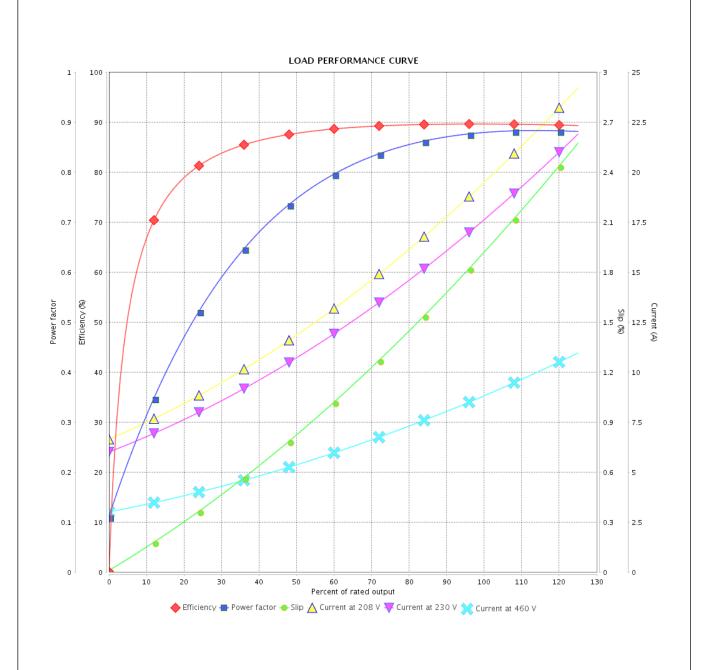


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

Catalog #: 00736ET3E213TC-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current : 17.5/8.76 A		17.5/8.76 A	Moment o	f inertia (J)	: 0.4665 sq.ft.lb	
LRC	:	7.2	Duty cycle)	: Cont.(S1)	
Rated torque	:	11.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.25	
Breakdown torque : 3		300 %	Temperature rise		: 80 K	
Rated speed	:	3520 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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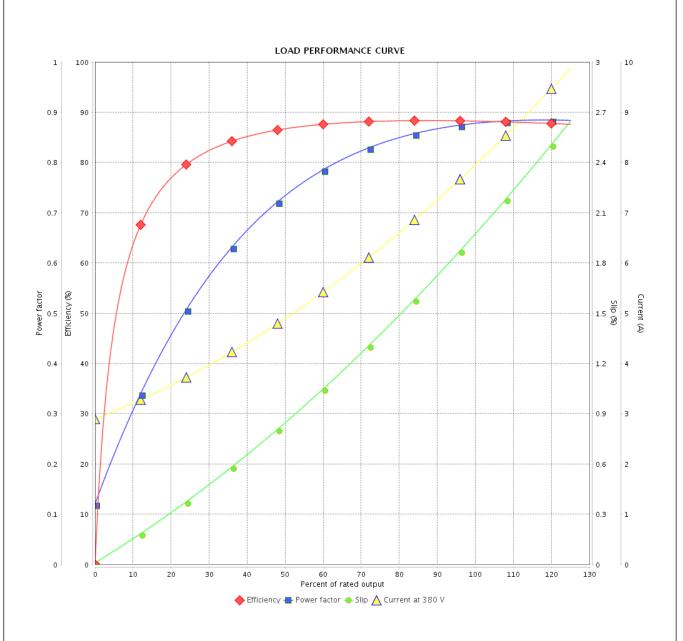
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12446714

Catalog #: 00736ET3E213TC-W22

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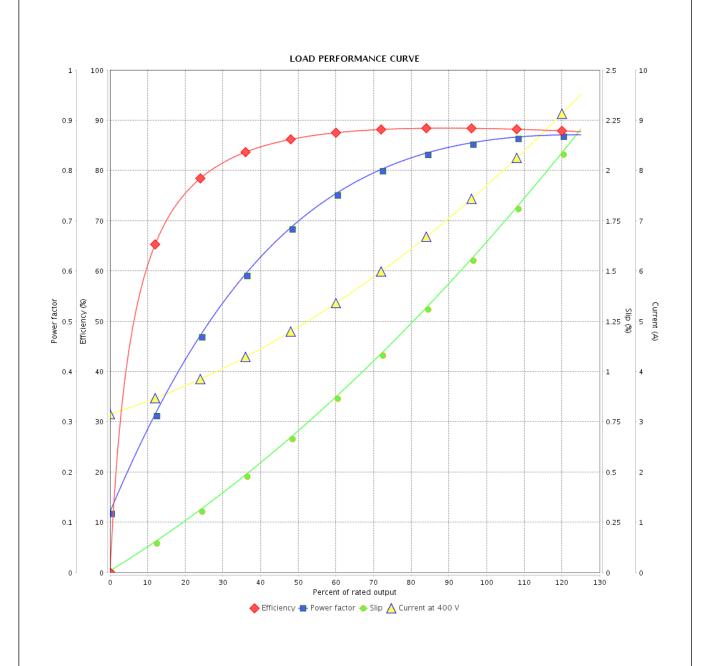
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446714

Catalog #: 00736ET3E213TC-W22



	-					
Performance	:	400 V 50 Hz 2P IE3				
Rated current : 7.60 A		Moment o	Moment of inertia (J)		.lb	
LRC : 7.		7.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	9.79 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	250 %	Service fa	ctor	: 1.25	
Breakdown torque		350 %	Temperati	Temperature rise		
Rated speed	:	2940 rpm	Design		: B	
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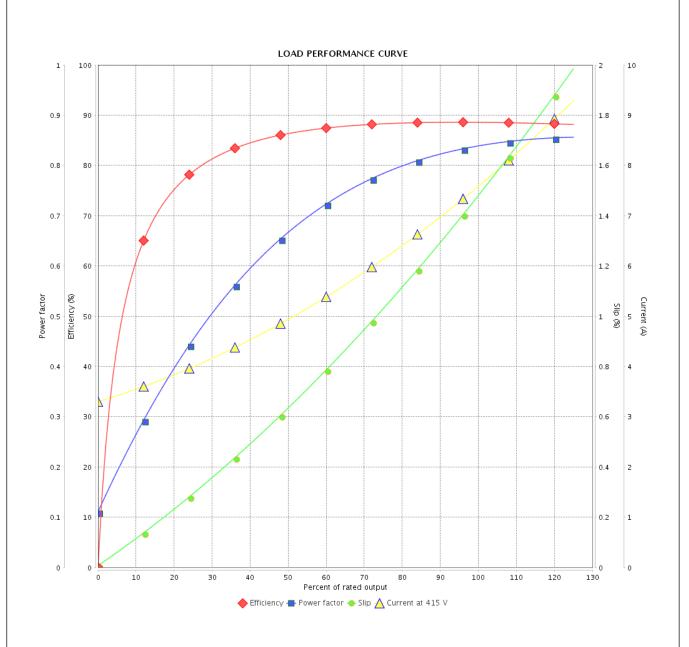
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Phase

Product code: 12446714

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			,		
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.49 A : 8.3 : 9.77 ft.lb : 270 % : 370 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.4665 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 2945 rpm	Design	: E	3	
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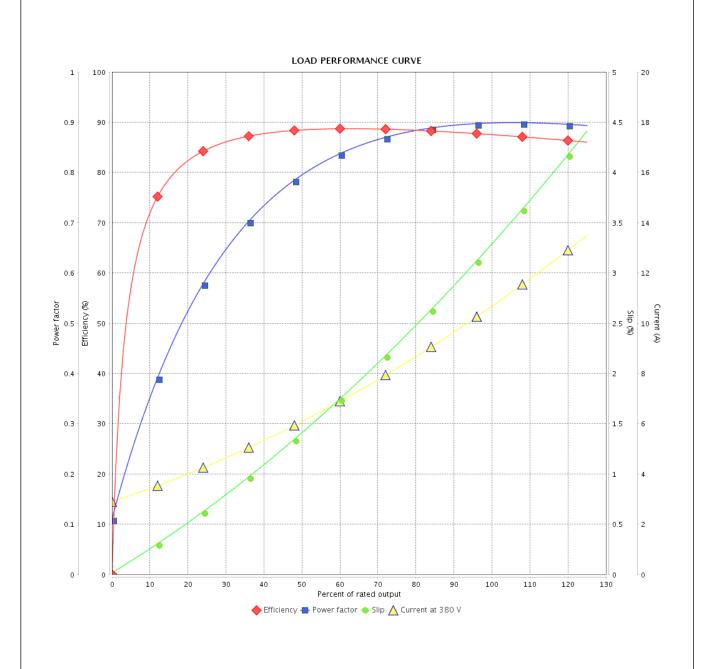
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446714

Catalog #: 00736ET3E213TC-W22



Performance	: 3	: 380 V 50 Hz 2P IE2				
Rated current : 10.6 A		Moment o	f inertia (J)	: 0.4665 sq.ft.lb		
LRC : 5.7		5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	3.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	70 %	Service fa	ctor	: 1.25	
Breakdown torque	eakdown torque : 229 % Temperature rise		ure rise	: 80 K		
Rated speed : 2		2895 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

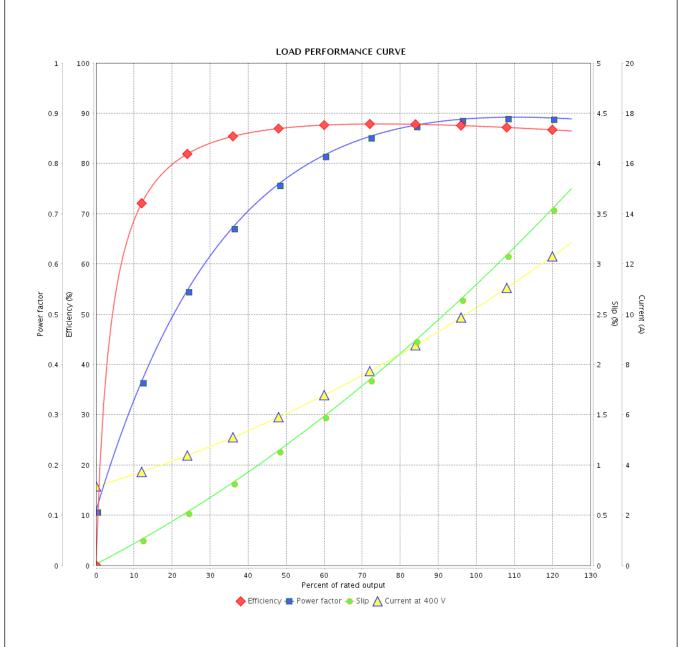
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Performance : 400 V 50 Hz 2P IE2 : 10.2 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 13.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

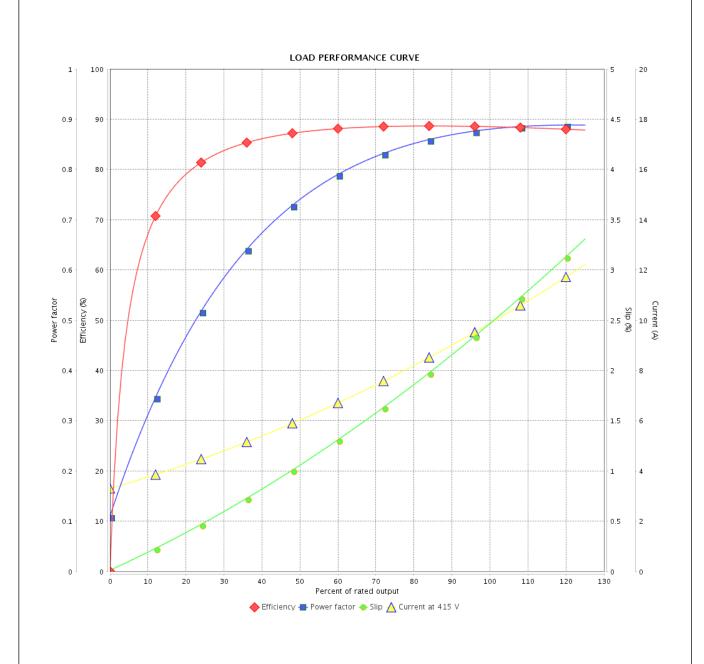


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

Catalog #: 00736ET3E213TC-W22



Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current	Rated current : 9.82 A		Moment o	Moment of inertia (J)		.lb
LRC : 6.9		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 : 28		30 %	Temperature rise		: 80 K	
Rated speed		Design		: B		
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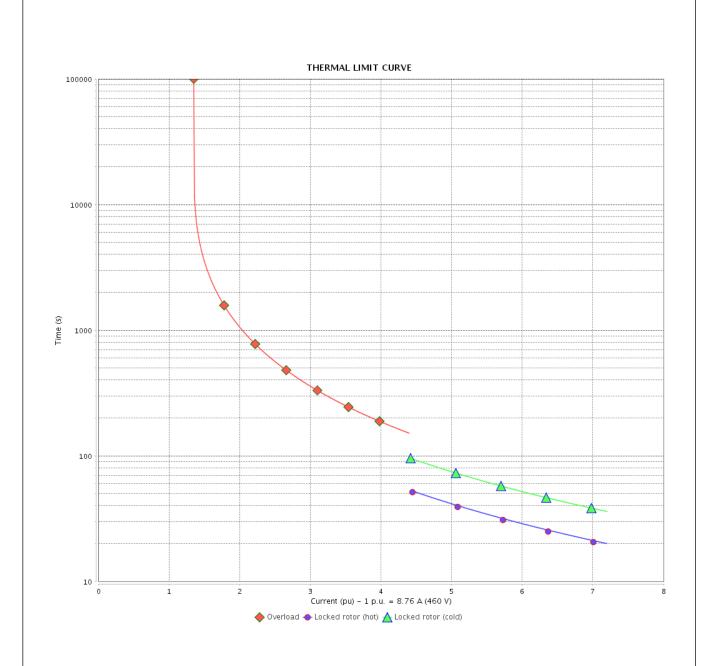


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12446714 00736ET3E2	213TC-W22
Performance	: 230/460 V 60 Hz 2P				
Rated current LRC	: 17.5/8.76 A : 7.2	Duty cycle	f inertia (J)	: 0.4665 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque	: 11.2 ft.lb : 210 %	Insulation Service fa	ctor	: F : 1.25	
Breakdown torque Rated speed	: 300 % : 3520 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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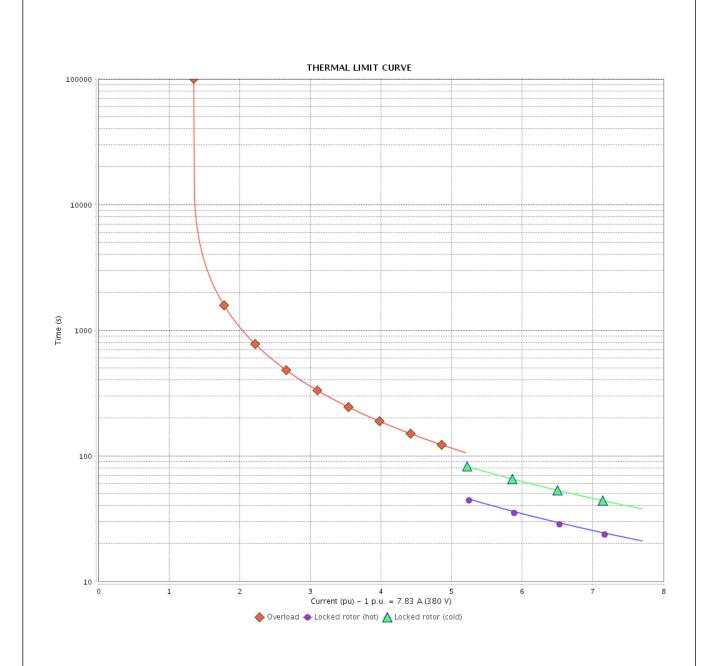


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Product line		NEMA Premium Efficiency Thase		Product code :	12446714 00736ET3E2	13TC-W22
Performance		80 V 50 Hz 2P IE3				
Rated current LRC	: 7.		Moment of Duty cycle		: 0.4665 sq.ft.lb : Cont.(S1))
Rated torque		.82 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		20 % 10 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		930 rpm	Design		: B	
Heating constant Cooling constant						
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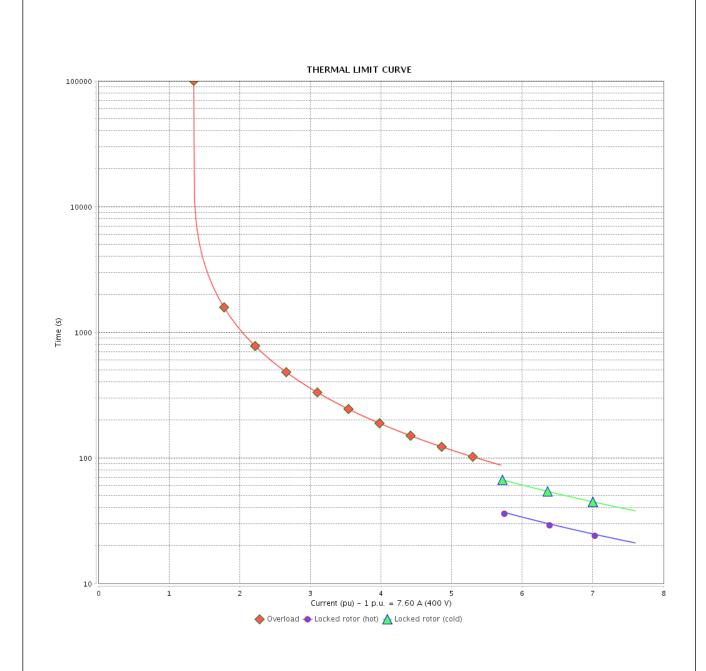


Customer	:				
Product line	: NEMA Premi	um Efficiency Three-	Product code :	12446714	
	Phase	·	Catalog # :	00736ET3E2	12TC M22
Performance	: 400 V 50 Hz 2	P IE3			
Rated current	: 7.60 A	Moment	of inertia (J)	: 0.4665 sq.ft.l	b
LRC Rated torque	: 7.6 : 9.79 ft.lb	Duty cycl Insulation	e n class	: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 350 % : 2940 rpm	Temperal Design	ture rise	: 80 K : B	
Heating constant		2 33.911		· · · · · · · · · · · · · · · · · · ·	
Cooling constant					
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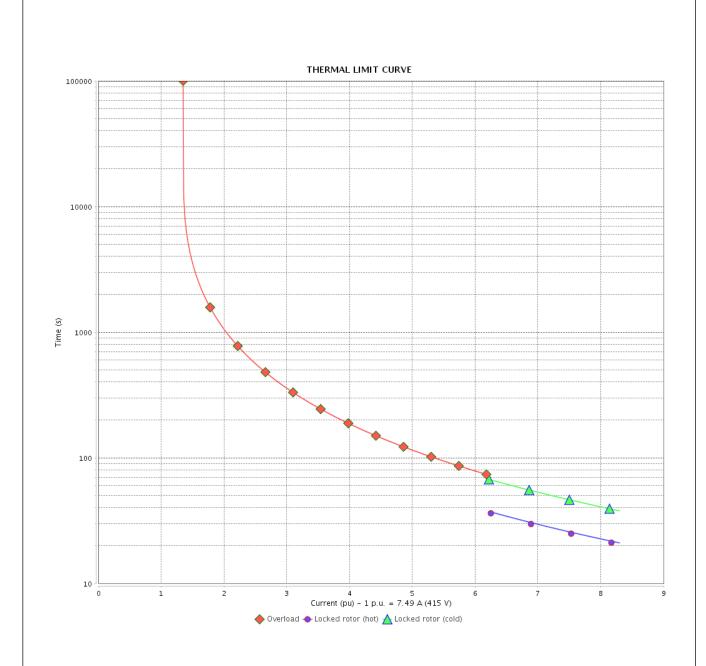


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12446714 00736ET3E2	13TC-W22
Performance Rated current	:	415 V 50 Hz 2P IE3 7.49 A	Moment o	f inertia (J)	: 0.4665 sq.ft.l	b
LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	igue :	8.3 9.77 ft.lb 270 % 370 % 2945 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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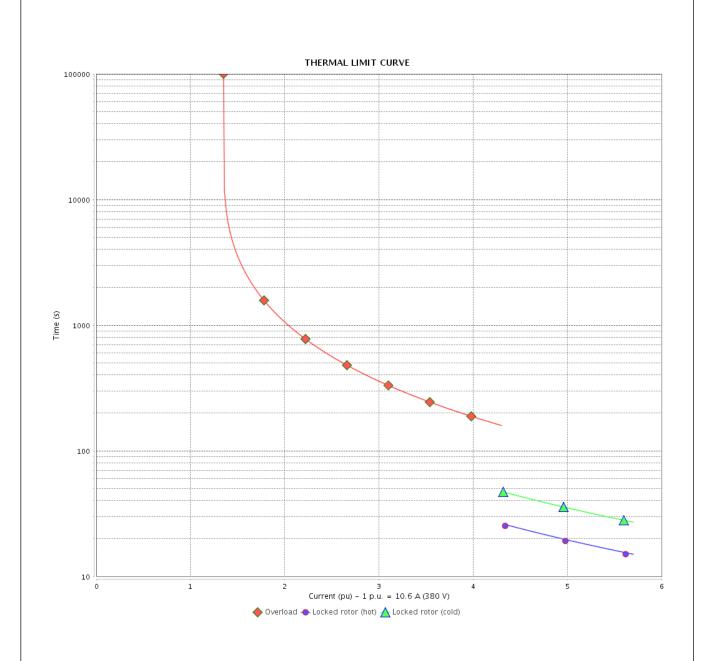


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	12446714	MATO W/00
		(Catalog # :	00736ET3E2	2131C-W22
Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 10.6 A : 5.7 : 13.6 ft.lb : 170 % : 229 % : 2895 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.4665 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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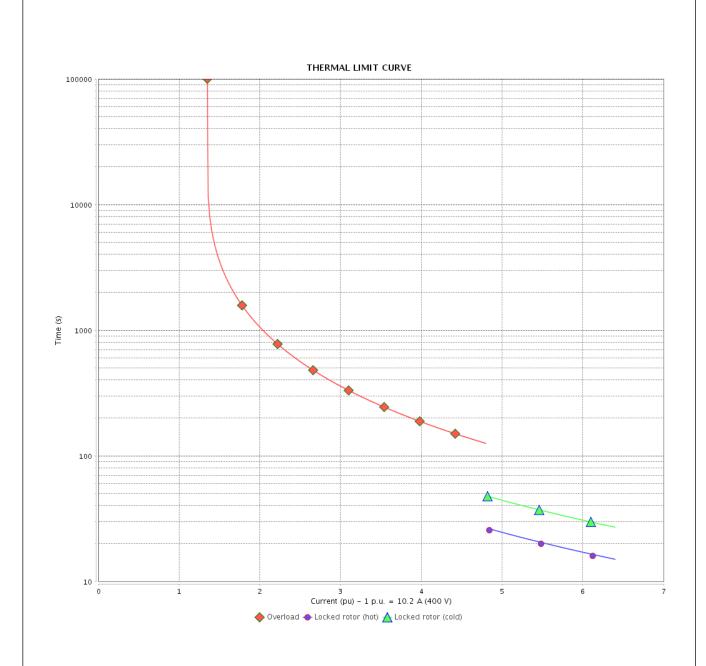


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12446714 00736ET3E2	13TC-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque		: 10.2 A : 6.4 : 13.5 ft.lb	Duty cycle Insulation	class	: 0.4665 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue	: 190 % : 260 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2905 rpm	Design		: B	
Heating constant Cooling constant						
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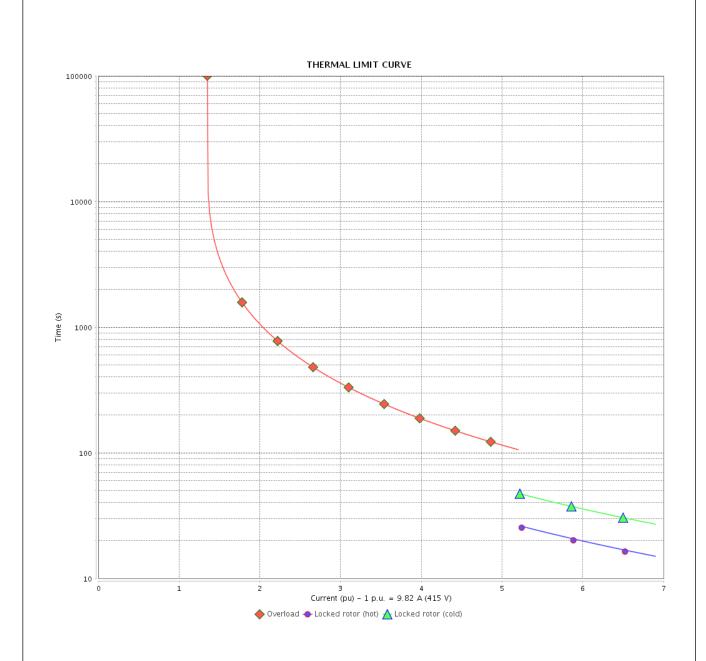


Customer	:					
Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	12446714	
		11430		Catalog # :	00736ET3E2	213TC-W22
Performance		15 V 50 Hz 2P IE2	N4	finanto (IV	.0.400=	L
Rated current LRC	: 9. : 6.	82 A 9	Moment o	f inertia (J)	: 0.4665 sq.ft.l : Cont.(S1)	D
Rated torque	: 13	3.5 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 30 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		915 rpm	Design		: B	
Heating constant						
Cooling constant					<u> </u>	
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Three Phase Induction Motor - Squirrel Cage



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12/04/2022

Product line : NEMA Premium Efficiency Three- Pr

Phase

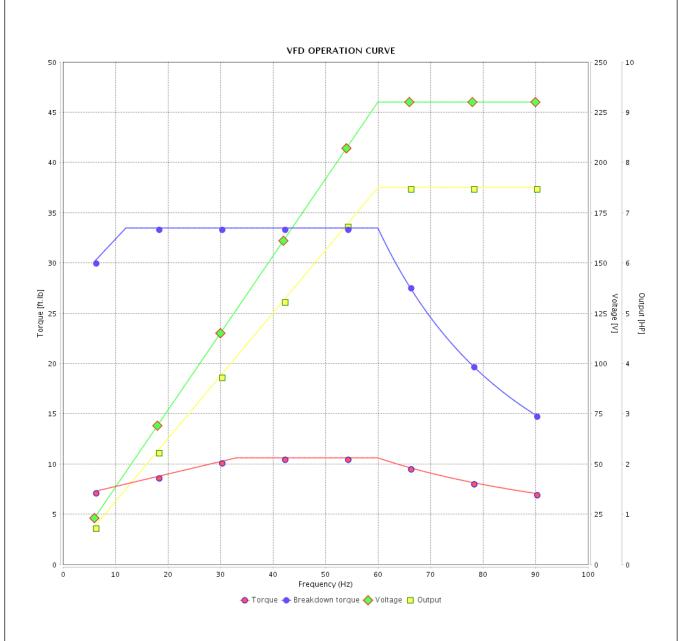
Product code: 12446714

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Performance : 23		: 230/460 V 60 Hz 2F)			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	ie e	: 17.5/8.76 A : 7.2 : 11.2 ft.lb : 210 % : 300 % : 3520 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	
Rev.	Rev. Changes Summary		ry	Performed	Checked	Date
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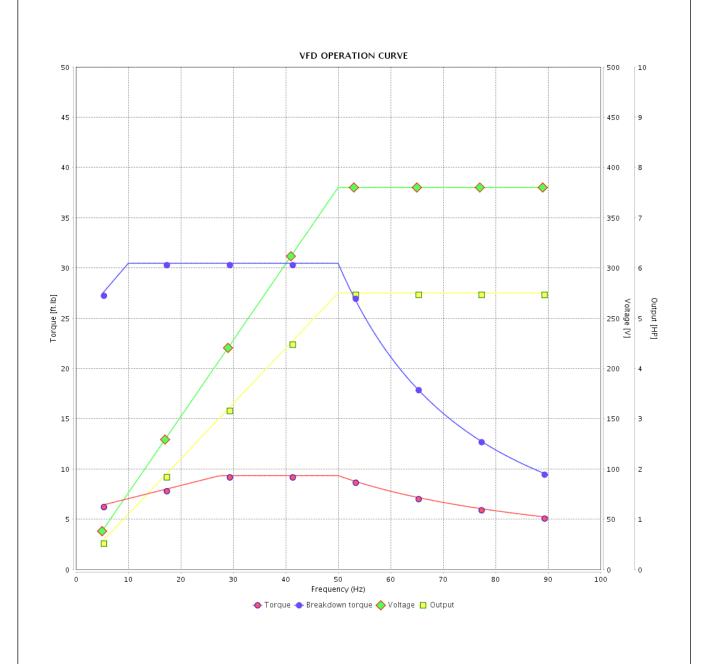
Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 12446714

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Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current : 7.83		.83 A	Moment o	Moment of inertia (J)		.lb
LRC : 7.7		.7	Duty cycle	Duty cycle		
Rated torque	: 9	.82 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ictor	: 1.25	
Breakdown torque : 310		10 %	Temperati	Temperature rise		
Rated speed	: 2	930 rpm	Design	Design		
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Product line : NEMA Premium Efficiency Three- Produ

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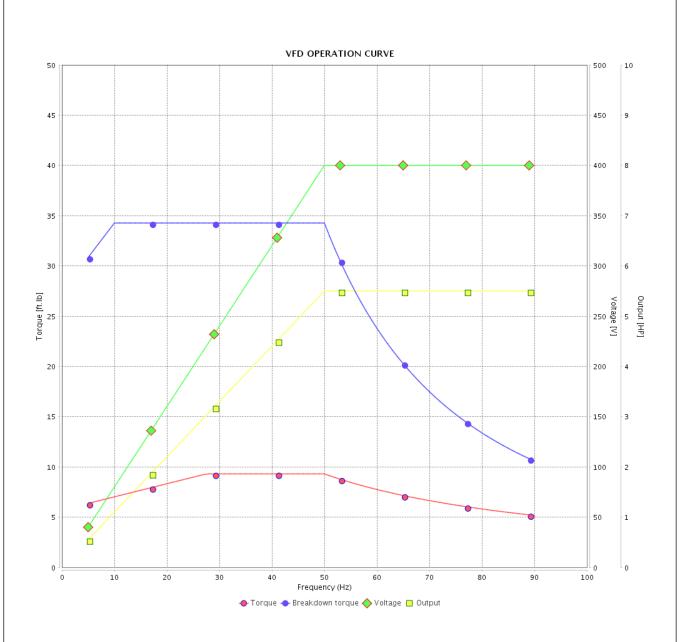
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Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.60 A : 7.6 : 9.79 ft.lb : 250 % : 350 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4665 sq.ft.lt : Cont.(S1) : F : 1.25 : 80 K : B	0
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Three Phase Induction Motor - Squirrel Cage

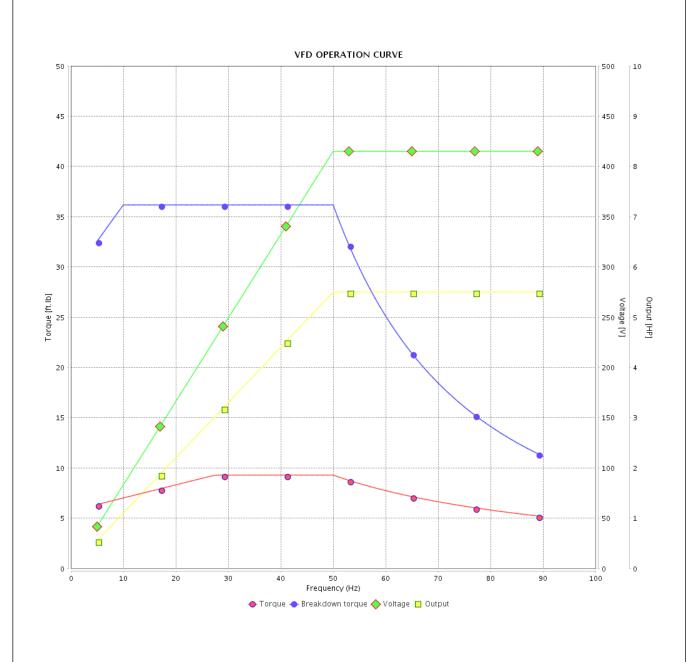


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Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

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Performance		: 415 V 50 Hz 2P IE3						
Rated current	:	.49 A Moment of inertia (J)		f inertia (J)	: 0.4665 sq.ft.lb			
LRC	:	8.3	Duty cycle		: Cont.(S1)			
Rated torque	:	9.77 ft.lb	Insulation	class	: F			
Locked rotor torque	e :	270 %	Service fa	Service factor				
Breakdown torque	:	370 %	Temperature rise		: 80 K			
Rated speed	:	2945 rpm	Design		: B			
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Customer :

Product line : NEMA Premium Efficiency Three- Product code :

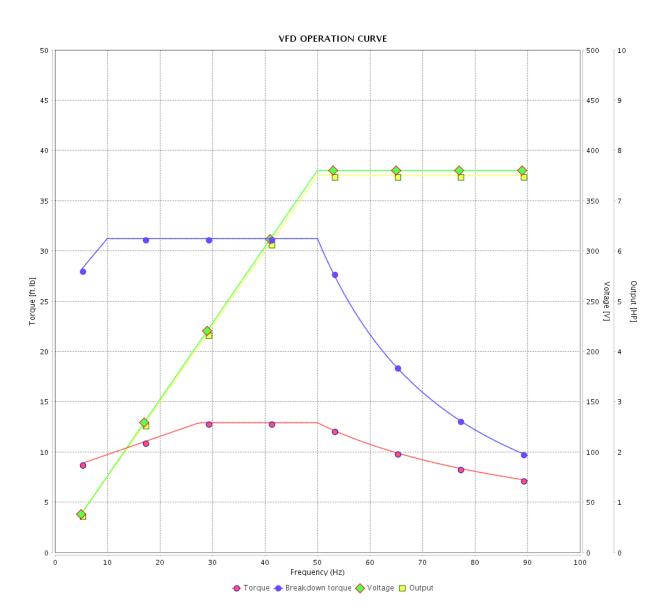
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Catalog #:



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 Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

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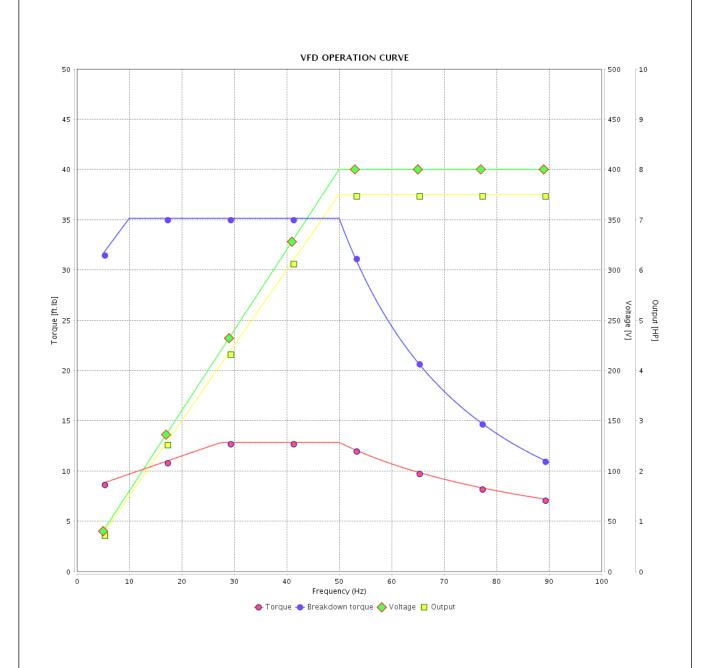


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Product line : NEMA Premium Efficiency Three- Product code : 12446714

Phase

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Performance : 400		00 V 50 Hz 2P IE2				
Rated current : 10.		0.2 A	Moment o	Moment of inertia (J)		.lb
LRC : 6.4		.4	Duty cycle		: Cont.(S1)	
Rated torque : 13		3.5 ft.lb			: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.25	
Breakdown torque :		60 %	Temperati	Temperature rise		
Rated speed		905 rpm	Design	Design		
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Product line : NEMA Premium Efficiency Three- P

Phase

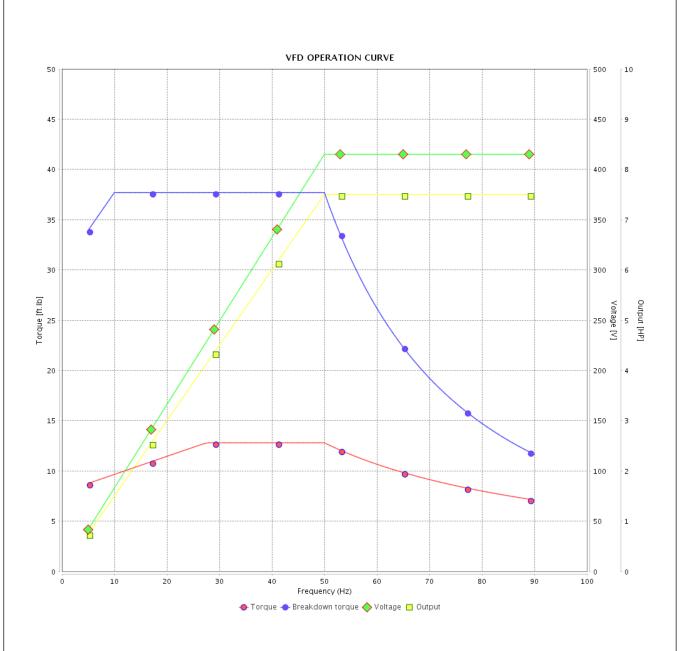
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Performance : 415 V 50 Hz 2P IE2 Rated current : 9.82 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class : 13.5 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque :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

