DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22

Frame : 364/5TC Cooling method : IC411 - TEFC

Insulation class : F 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 : 1000 m.a.s.l. Approx. weight³ : 782 lb

7 111114440		. 1000 III.a.	o	, .pp. 0,		• •	O= 1.0	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: 3	2.4 sq.ft.lb	
Design		: B						
Output [HP]		50	40	40	40	50	50	50
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		57.4	57.7	55.5	53.5	70.5	66.4	64.8
L. R. Amperes [A]		367	358	377	396	345	365	389
LRC [A]		6.4x(Code	6.2x(Code	6.8x(Code H)	7.4x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
		G)	G)					
No load current [A]	20.0	19.8	21.1	22.1	19.8	21.1	22.1
Rated speed [RPN	/ 1]	1180	980	980	985	970	975	980
Slip [%]		1.67	2.00	2.00	1.50	3.00	2.50	2.00
Rated torque [ft.lb]		223	214	214	213	271	269	268
Locked rotor torqu	e [%]	200	200	229	250	160	180	200
Breakdown torque	[%]	240	240	260	290	190	210	229
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	80 K	80 K
Locked rotor time		32s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		18s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		66.0 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%	93.4	92.5	92.7	92.6	93.5	93.3	93.4
Efficiency (%)	50%	93.6	92.7	92.7	92.6	93.0	93.0	93.0
Efficiency (70)	75%	94.1	92.8	93.1	93.1	92.4	93.0	93.0
	100%	94.1	92.9	92.9	92.9	91.7	92.4	92.4
	25%	0.49	0.48	0.45	0.41	0.53	0.51	0.49
Power Factor	50%	0.74	0.72	0.70	0.66	0.77	0.77	0.74
Fower Factor	75%	0.83	0.82	0.81	0.79	0.84	0.83	0.83
	100%	0.86	0.85	0.84	0.84	0.87	0.87	0.86
				*				

pe <u>Drive end</u> <u>Non drive end</u> Foundation loads

6314 C3 6314 C3 Max traction

Bearing type : 6314 C3 6314 C3 | Max. traction : 1718 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 2500 lb Lubrication interval : 17000 h

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

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.

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Three Phase Induction Motor - Squirrel Cage

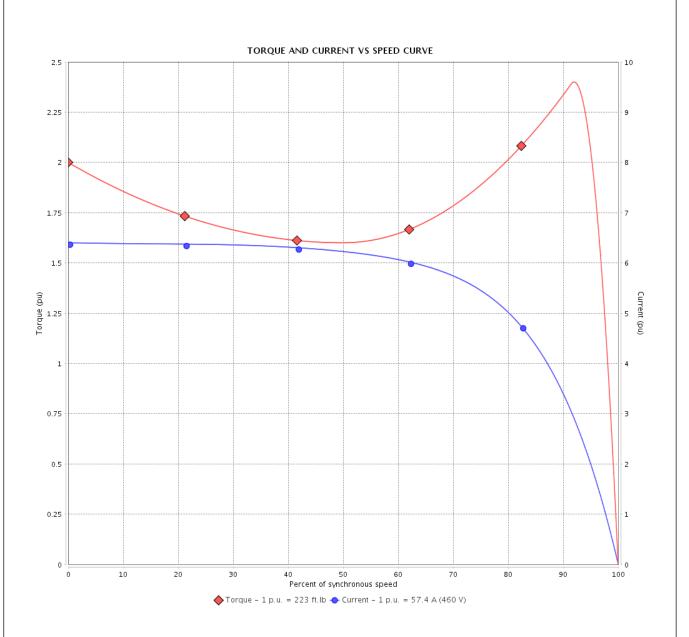


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance : 460 V 60 Hz 6P Rated current : 57.4 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 223 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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

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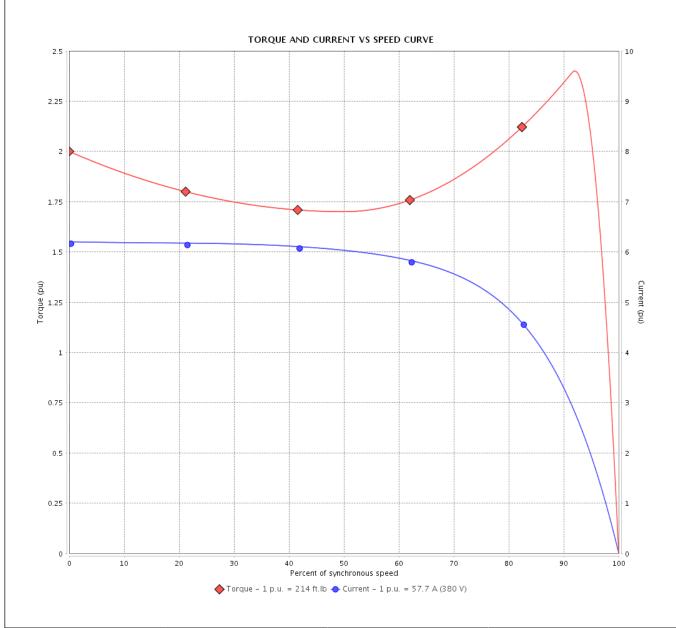
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 57.7 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

LOCKCU TOLOT LITTE	. 2	73 (cold) 103 (flot)			
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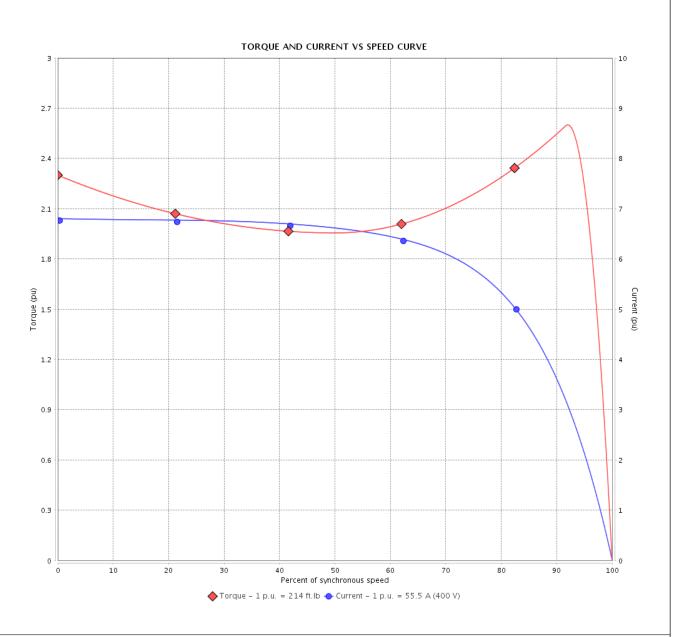


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 55.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Laster describer a	. 07- (1-1) 45- (1+)			

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14275000 Catalog #: 05012ST3QIE365TC-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. = 213 ft.lb ◆ Current - 1 p.u. = 53.5 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 53.5 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

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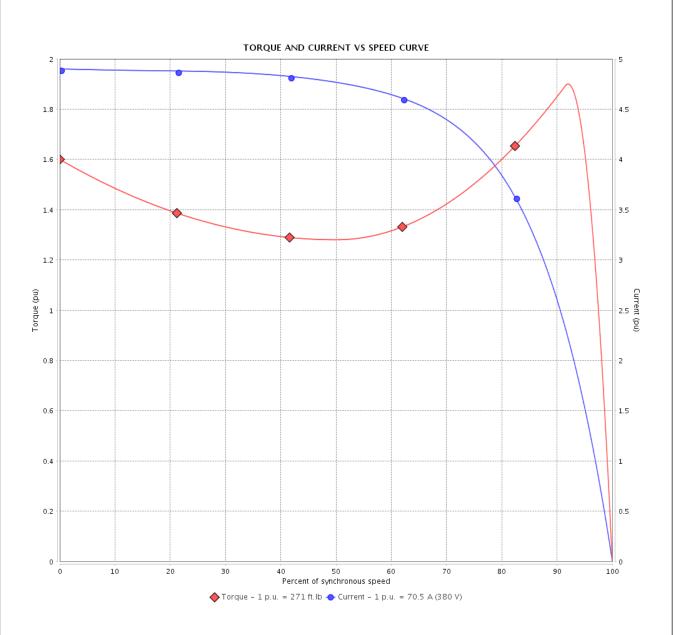
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22



Performance	: 380 V 50 Hz 6P IE1			
Rated current	: 70.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 4.9	Duty cycle	: Cont.(S1)	
Rated torque	: 271 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)	1		

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

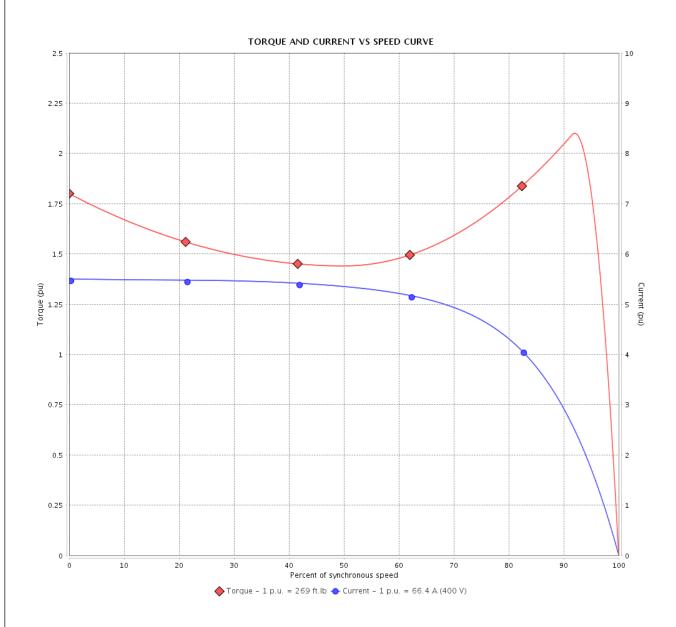
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Customer Product line : NEMA Premium Efficiency Three-Product code: 14275000

> Catalog #: 05012ST3QIE365TC-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 66.4 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 269 ft.lb	Insulation class	:F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)		.	

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Three Phase Induction Motor - Squirrel Cage



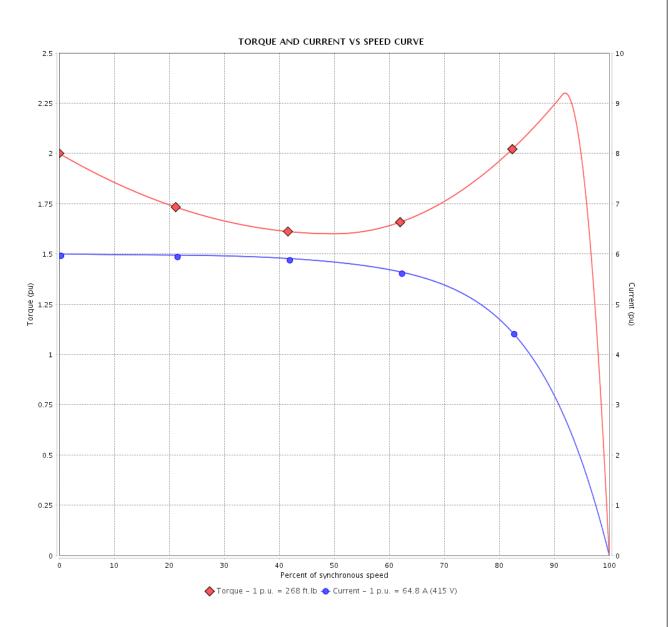
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 64.8 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 268 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

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

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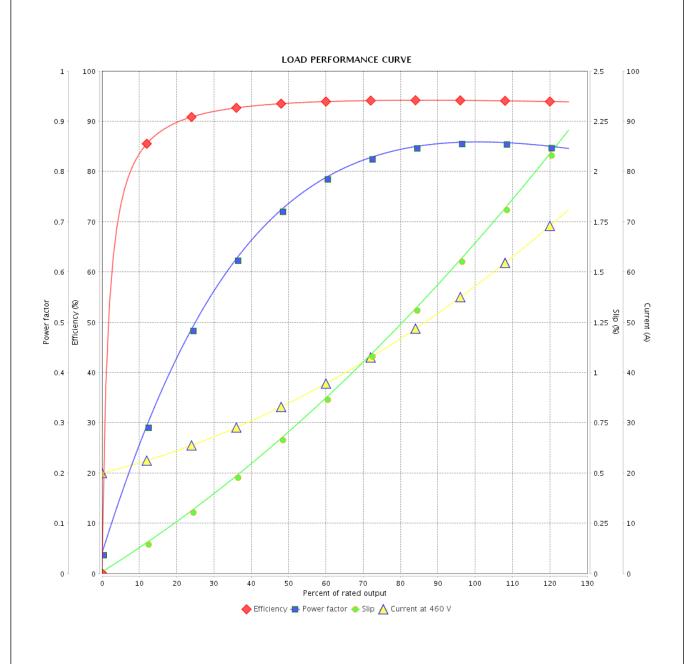


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance	: 4	160 V 60 Hz 6P				
Rated current	: 5	57.4 A	7.4 A Moment of inertia (J)		: 32.4 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	223 ft.lb	Insulation	class	:F	
Locked rotor torque	e :2	200 %	Service factor		: 1.25	
Breakdown torque	: 2	: 240 % Temperature rise		ıre rise	: 80 K	
Rated speed	: '	1180 rpm	Design		: B	
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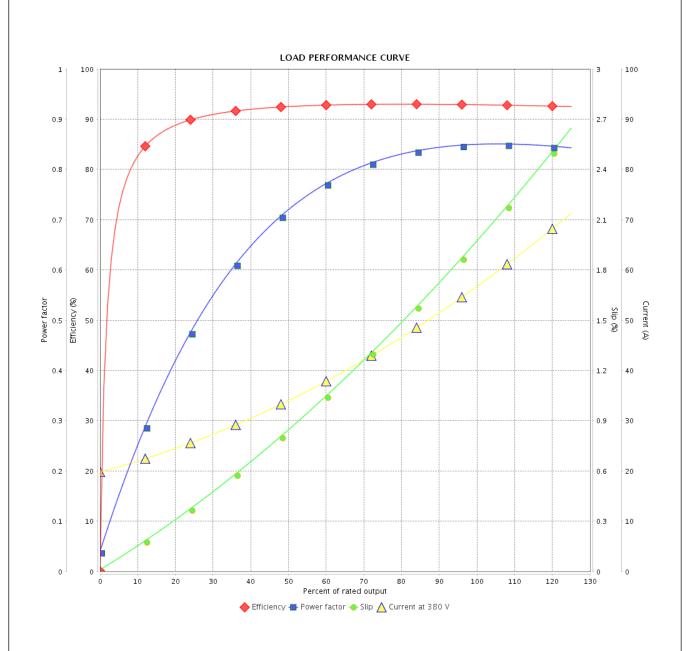
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.7 A : 6.2 : 214 ft.lb : 200 % : 240 % : 980 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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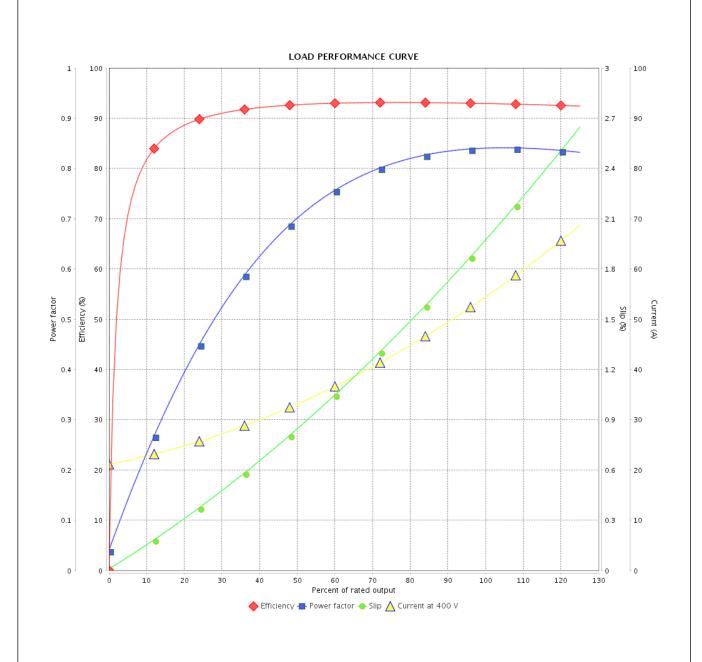


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



	·					
Performance	: 4	100 V 50 Hz 6P IE3				
Rated current	: 5	55.5 A	Moment o	f inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6	3.8	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	229 %	Service factor		: 1.00	
Breakdown torque	: : 2	260 %	Temperati	Temperature rise : 80 K		
Rated speed	: 9	980 rpm	Design		: B	
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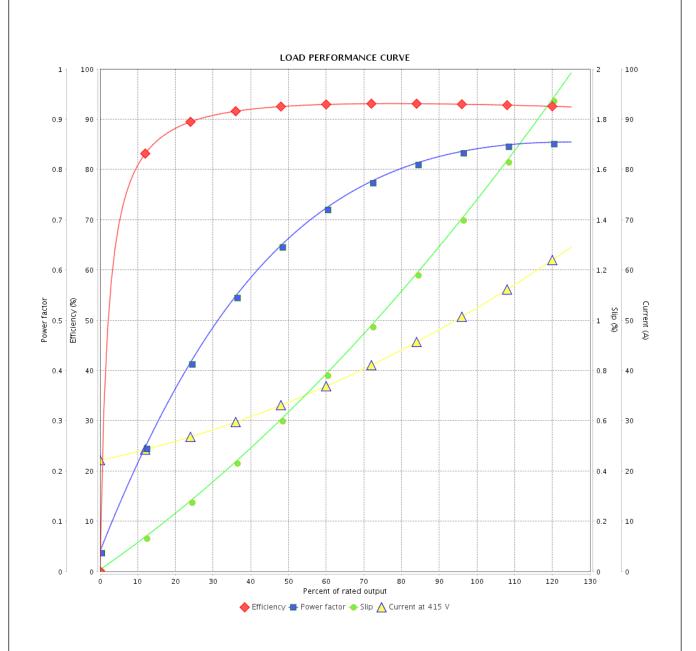
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Performance	:	415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: ue : ie :	53.5 A 7.4 213 ft.lb 250 % 290 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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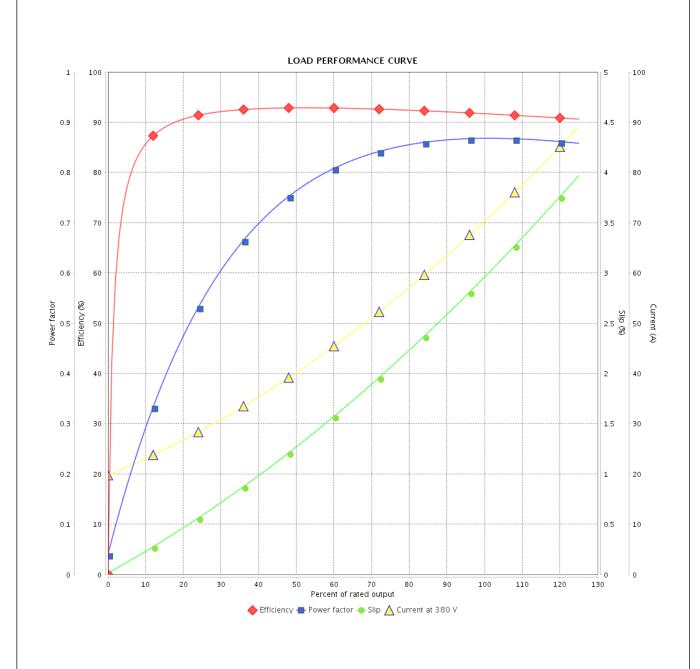


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance	:	380 V 50 Hz 6P IE1				
Rated current	:	70.5 A	Moment o	f inertia (J)	: 32.4 sq.ft.lb	
LRC	:	4.9	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	271 ft.lb		Insulation class		
Locked rotor torque		160 %	Service fa	Insulation class : F Service factor : 1.00		
Breakdown torque	:	190 %	Temperati	Temperature rise : 105 K Design : B		
Rated speed	:	970 rpm	Design			
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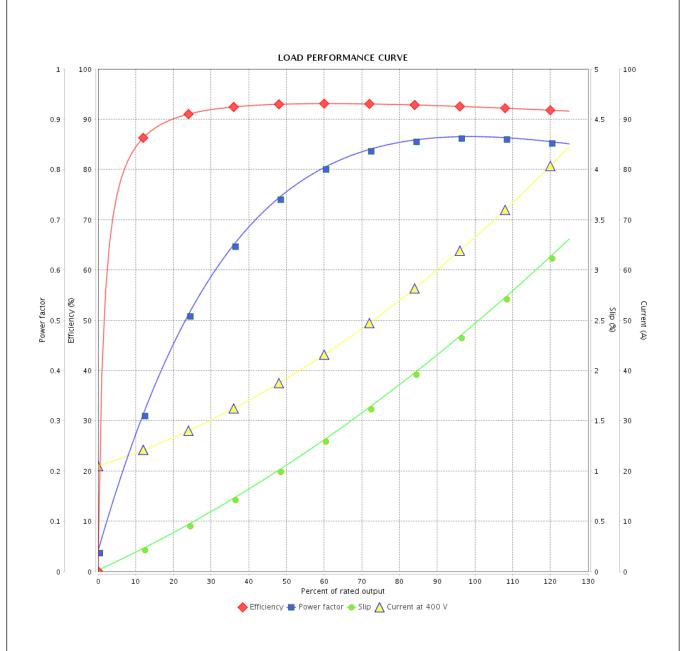
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Phase

Product code: 14275000

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.4 A : 5.5 : 269 ft.lb : 180 % : 210 % : 975 rpm	Moment of in Duty cycle Insulation con Service factor Temperature Design	lass	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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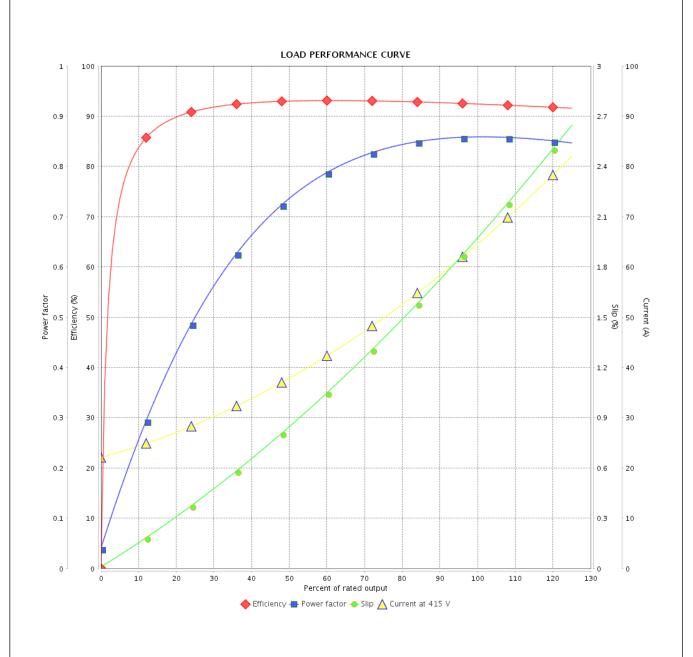


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance	: 4	15 V 50 Hz 6P IE2					
Rated current	: 6	4.8 A	B A Moment of inertia (J)		: 32.4 sq.ft.lb		
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: 2	68 ft.lb	Insulation	class	: F		
Locked rotor torque	: 2	00 %	Service fa	Service factor		: 1.00	
Breakdown torque	n torque : 229 % Temperature rise		ıre rise	: 80 K			
Rated speed	: 9	80 rpm	Design		: B		
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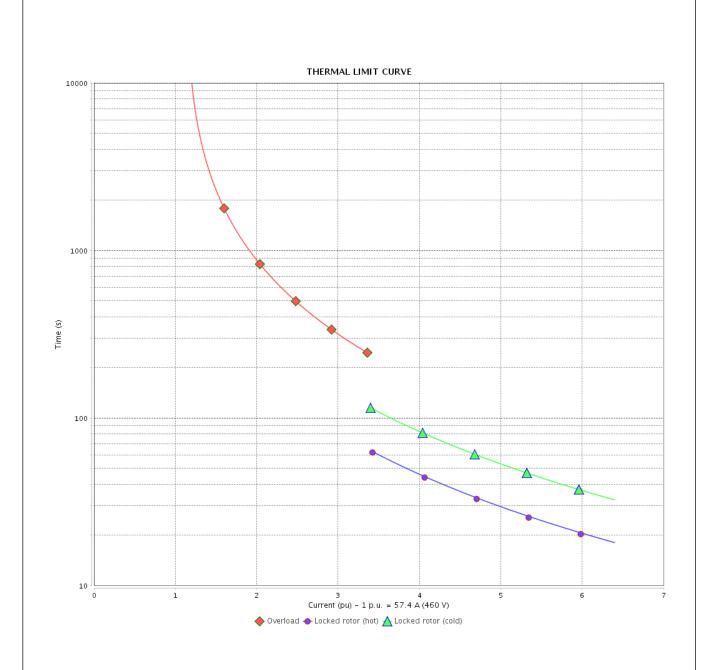


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14275000 05012ST3QIE	:365TC-W22
Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 57.4 A : 6.4	Moment of Duty cycle	of inertia (J)	: 32.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 223 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1180 rpm	Design	a. 5 1100	: B	
Heating constant						
Cooling constant	t 	Changes Commercial		Douts was!	Charles	Data
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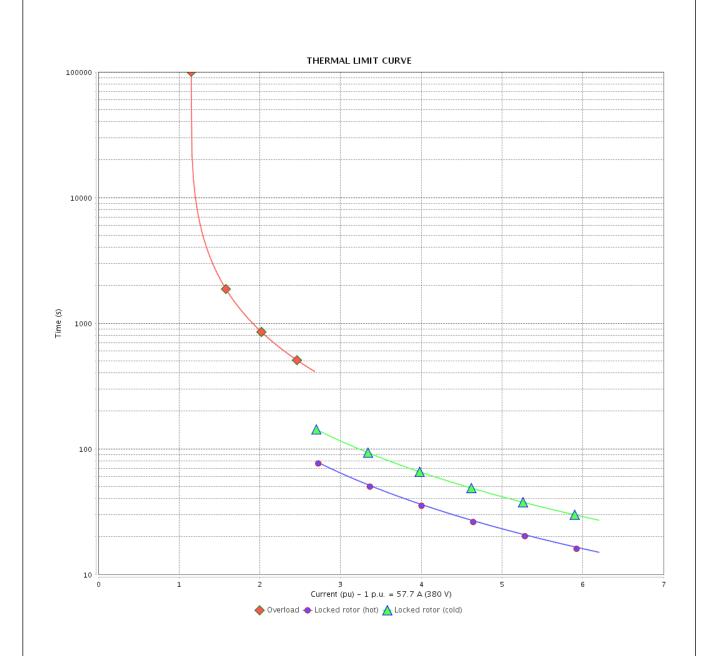


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	14275000 05012ST3QIE	365TC-W22
Performance		380 V 50 Hz 6P IE3				
Rated current LRC	:	57.7 A 6.2	Duty cycle		: 32.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		214 ft.lb 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	240 %	Temperatu		: 80 K	
Rated speed		980 rpm	Design		: B	
Heating constant Cooling constant						
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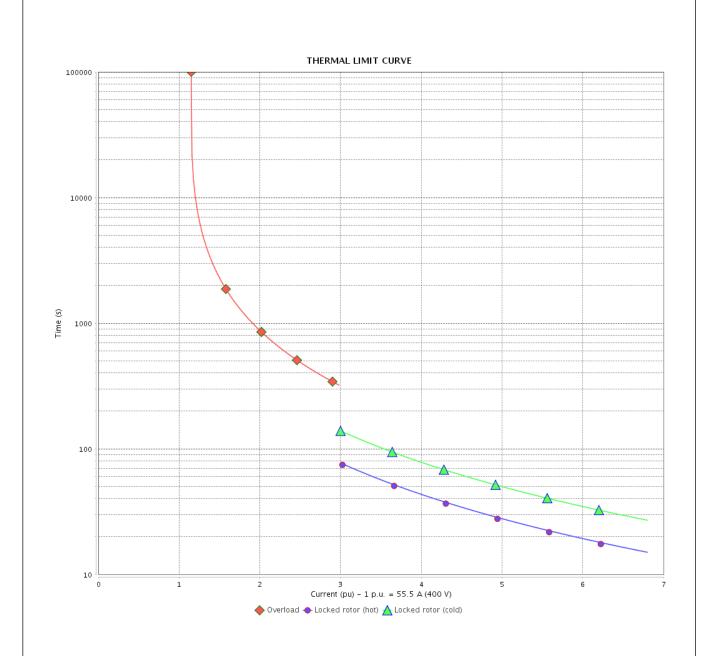


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	14275000	
	FI	idse	(Catalog # :	05012ST3QIE	365TC-W22
Performance		00 V 50 Hz 6P IE3				
Rated current		5.5 A	Moment of	f inertia (J)	: 32.4 sq.ft.lb	
LRC Rated torque	: 6. : 21	8 I4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ue : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		60 % 80 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		•	- J ^{··}			
Cooling constant						
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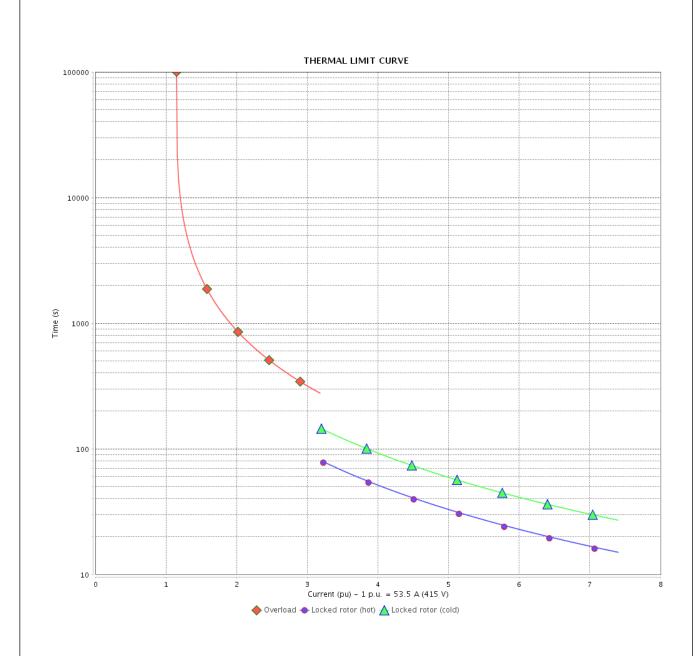


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14275000 05012ST3QIE	:365TC-W22
					<u> </u>	
Performance		: 415 V 50 Hz 6P IE3				
Rated current		: 53.5 A	Moment o	of inertia (J)	: 32.4 sq.ft.lb	
LRC		: 7.4	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		: 213 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 290 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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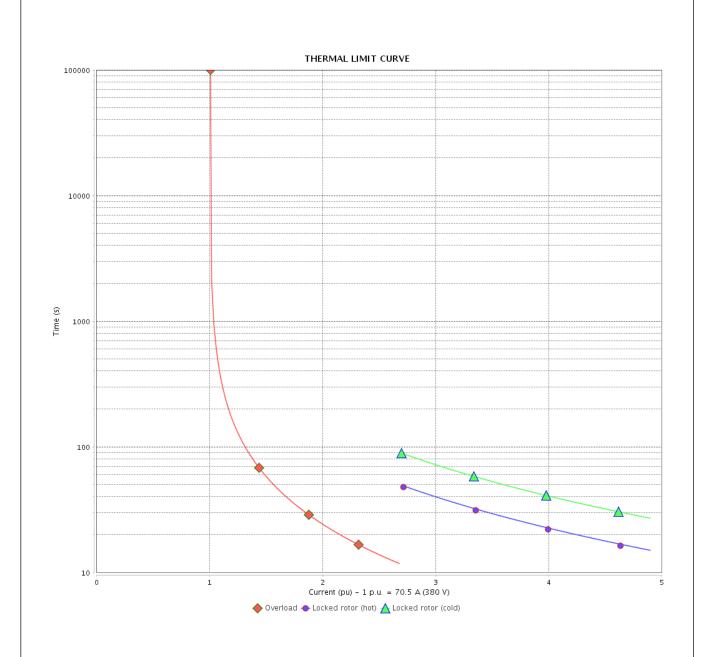


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Product line	: N	NEMA Premium Efficiency Thase	Γhree- I	Product code :	14275000	
		1430	(Catalog # :	05012ST3QIE	365TC-W22
Performance	. 20	30 V 50 Hz 6P IE1				
Rated current		0.5 A	Moment of	f inertia (J)	: 32.4 sq.ft.lb	
LRC	: 4.	9	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torq		71 ft.lb 60 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	e : 19	90 %	Temperatu		: 105 K	
Rated speed		70 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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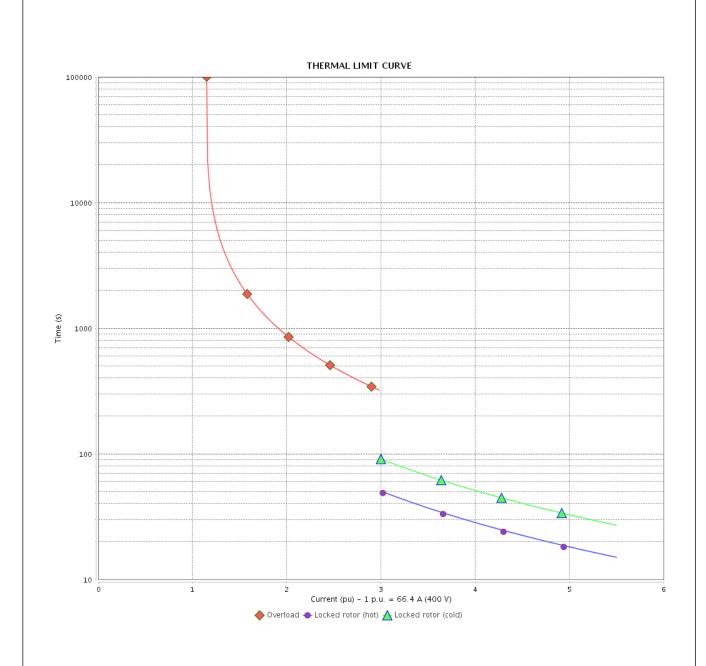


Customer	:				,	
Product line		NEMA Premium Efficiency inase		Product code :	14275000 05012ST3QIE	365TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66 : 5. : 26 e : 18 : 21	00 V 50 Hz 6P IE2 6.4 A 5 69 ft.lb 80 % 10 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

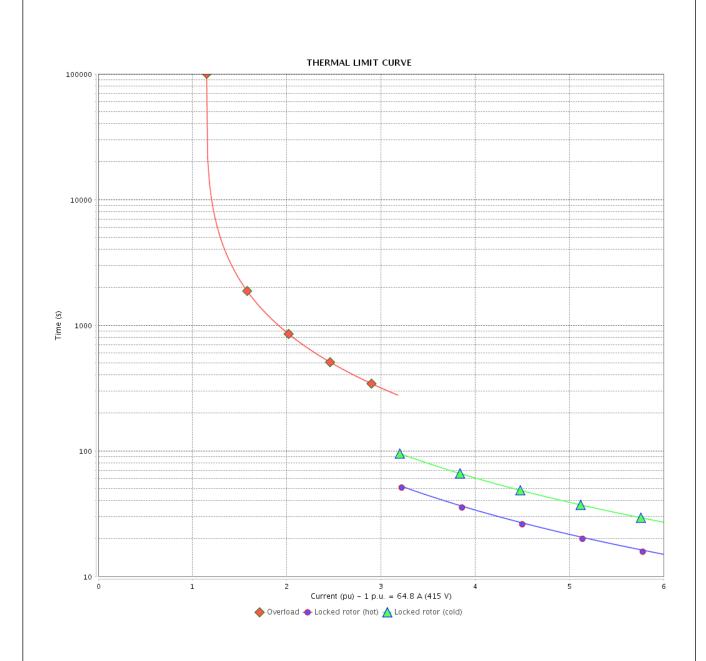


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14275000 05012ST3QIE	:365TC-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 64.8 A : 6.0	Duty cycle		: 32.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 268 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 80 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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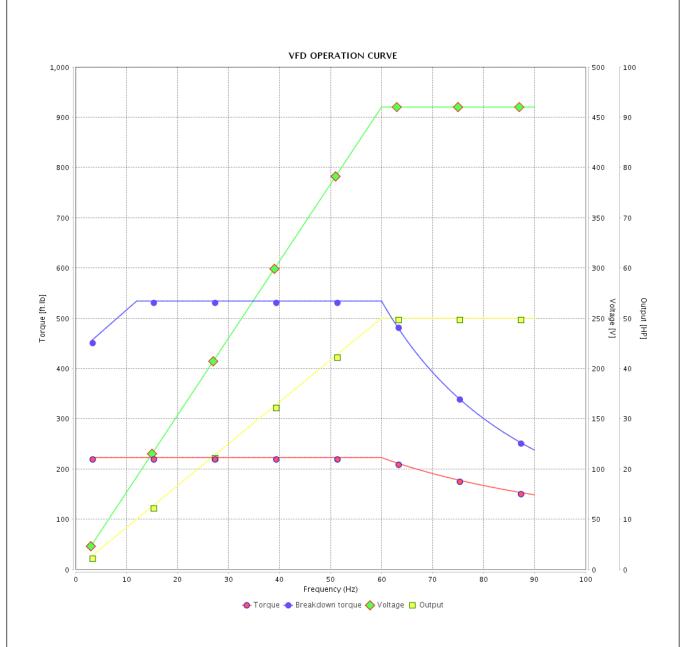
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.4 A : 6.4 : 223 ft.lb : 200 % : 240 % : 1180 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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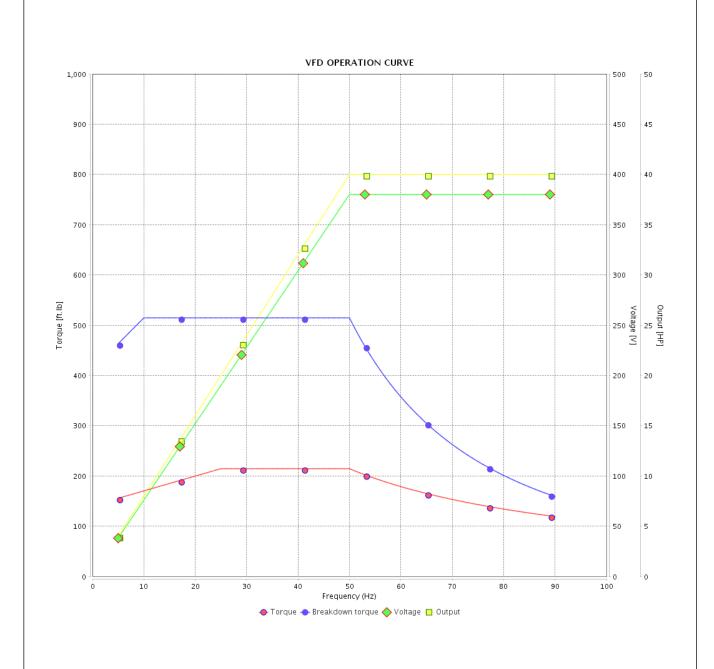


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

Catalog #: 05012ST3QIE365TC-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 6 : 2 e : 2	7.7 A 2 14 ft.lb 00 % 40 % 80 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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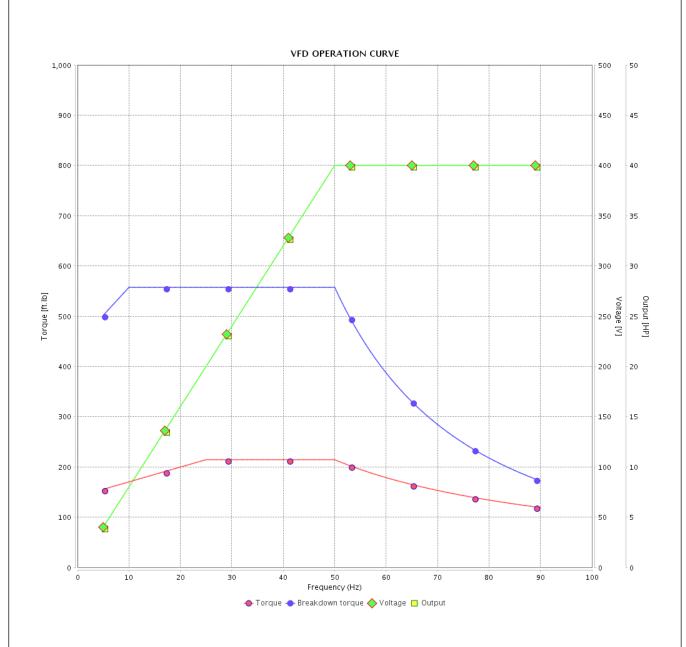
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14275000

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Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.5 A : 6.8 : 214 ft.lb : 229 % : 260 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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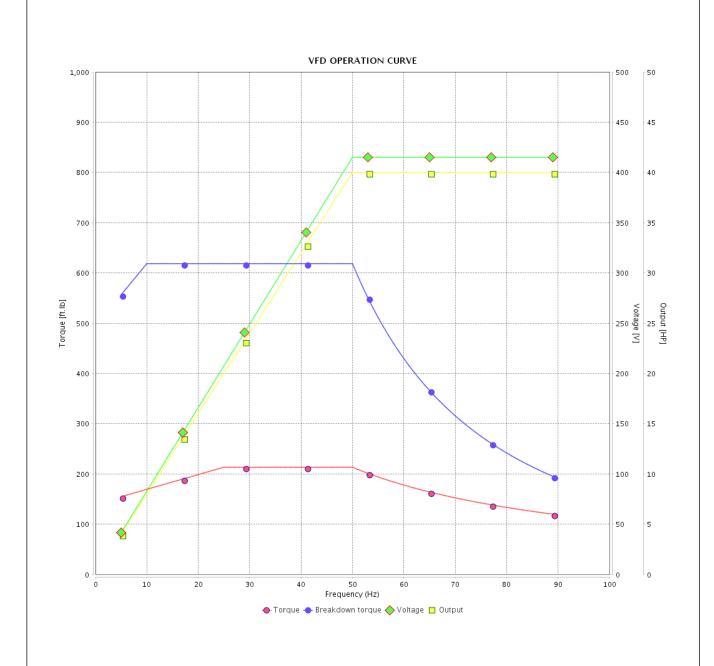
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14275000

Catalog #: 05012ST3QIE365TC-W22



Performance		15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 7. : 2° que : 28 ue : 29	13 ft.lb 50 % 90 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 98	35 rpm	Design		: B	
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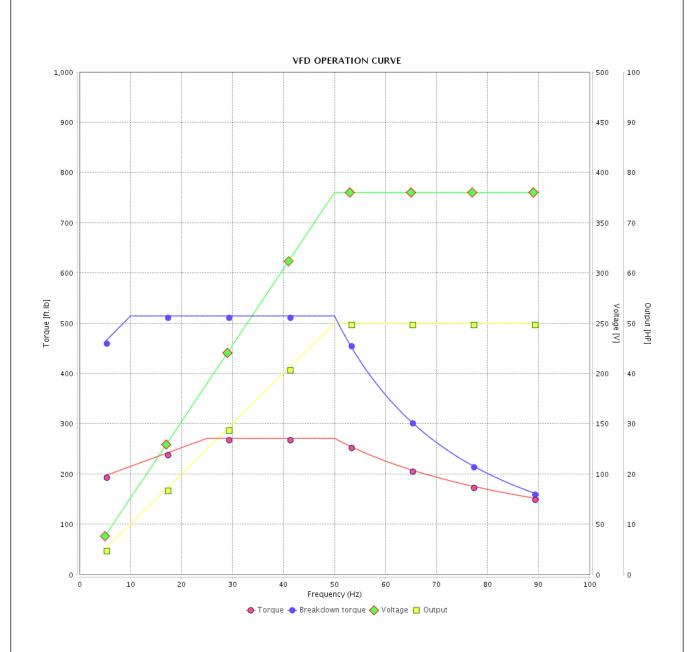
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14275000

Phase

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Performance	: 38	30 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4. : 27 que : 16 ie : 19	0.5 A 9 71 ft.lb 60 % 90 % 70 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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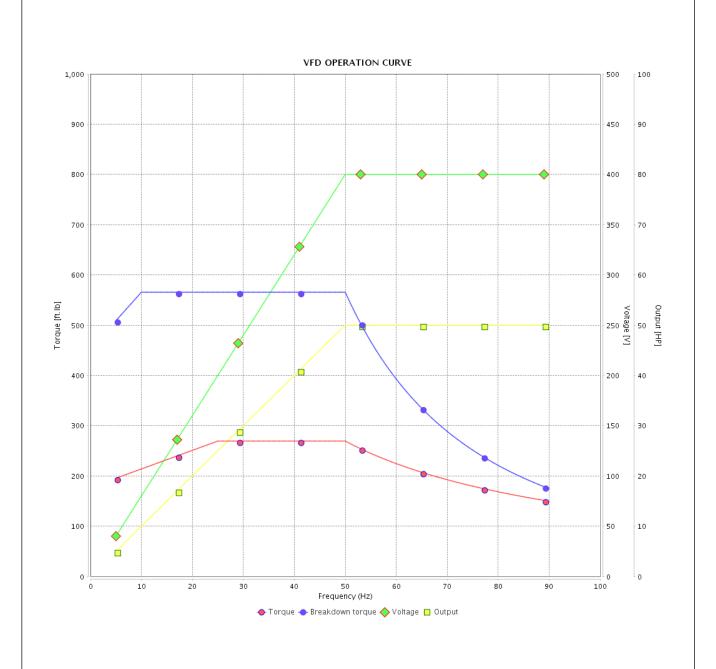
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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14275000



Performance : 4		400 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 5. : 20 e : 18 : 2	6.4 A 5 69 ft.lb 30 % 10 % 75 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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Product line : NEMA Premium Efficiency Three- F

Phase

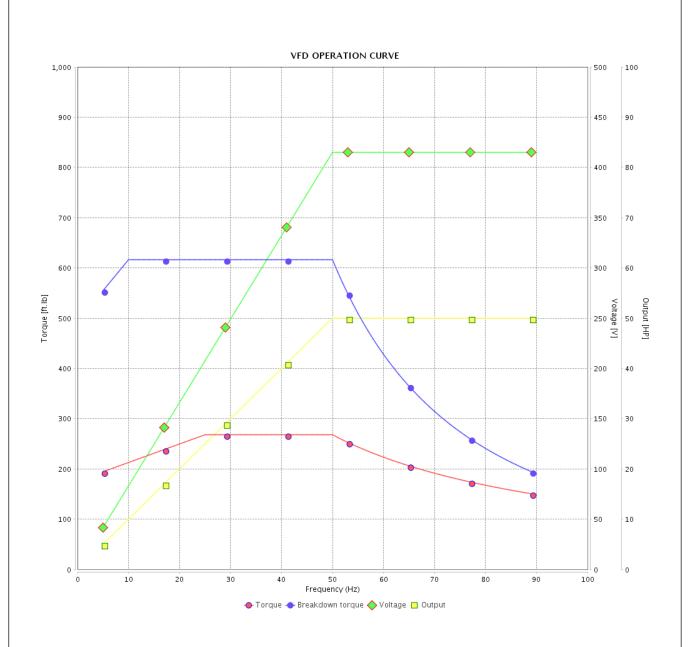
Product code: 14275000

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Performance	: 4	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 : 2 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4	64.8 A 6.0 268 ft.lb 200 % 229 % 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
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