### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12109400

Catalog #: 04012ST3QIE364T-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 901 lb : IP55 Moment of inertia (J) : 29.0 sq.ft.lb Protection degree

Design	е	: IP55 : B		Womer	it of inertia (J)	: 2	9.0 sq.π.ib	
Output [HP]		40	30	30	30	40	40	40
Poles		6	6	6	6	6	6	6
		60	50	50	50	50	50	50
Frequency [Hz]								
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		46.5	42.0	40.2	39.6	56.5	53.9	52.2
L. R. Amperes [A]		298	269	289	305	277	296	313
LRC [A]		6.4x(Code	6.4x(Code	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	,
		G)	G)					G)
No load current [A	-	17.0	16.8	17.9	18.7	16.8	17.9	18.7
Rated speed [RPN	Л]	1185	985	985	990	980	980	985
Slip [%]		1.25	1.50	1.50	1.00	2.00	2.00	1.50
Rated torque [ft.lb]	]	177	160	160	159	214	214	213
Locked rotor torqu	ie [%]	200	210	240	270	160	180	200
Breakdown torque	: [%]	240	250	280	310	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	80 K	80 K	80 K
Locked rotor time		37s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		21s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		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%							
Efficiency (%)	50%	93.6	92.4	92.3	91.9	93.0	93.0	93.0
Efficiency (%)	75%	93.6	92.8	93.1	93.0	92.4	93.0	93.0
	100%	94.1	92.5	93.0	93.2	91.7	92.4	93.0
	25%							
Power Factor	50%	0.73	0.68	0.66	0.63	0.78	0.76	0.73
Fower Factor	75%	0.82	0.80	0.79	0.76	0.85	0.84	0.82
	100%	0.86	0.86	0.85	0.83	0.88	0.87	0.86
		<del></del>						

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6314 C3 Max. traction : 1228 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 2129 lb

17000 h Lubrication interval 17000 h Lubricant amount 27 g 27 g

Mobil Polyrex EM Lubricant type

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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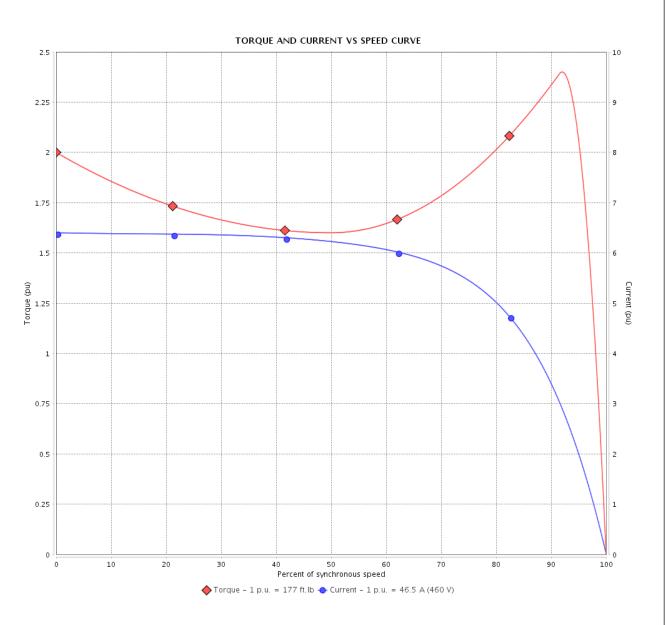
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12109400

Catalog #: 04012ST3QIE364T-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 46.5 A	Moment of inertia (J)	: 29.0 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked rotor time	: 37s (cold) 21s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12109400 Catalog #: 04012ST3QIE364T-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. = 160 ft.lb ◆ Current - 1 p.u. = 42.0 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 42.0 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Performed Checked Date Rev. **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage



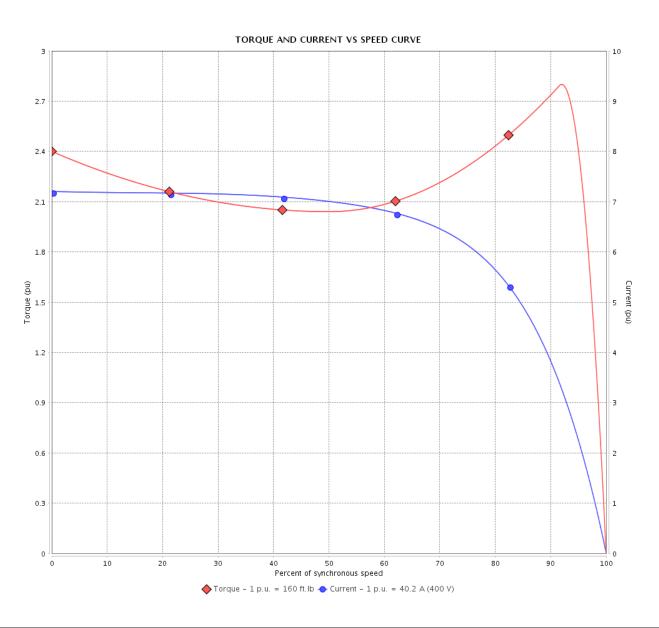
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12109400

Catalog #: 04012ST3QIE364T-W22



Performance : 40	100 V 50 Hz 6P IE3		
LRC : 7. Rated torque : 16 Locked rotor torque : 24 Breakdown torque : 28	10.2 A 7.2 160 ft.lb 240 % 280 % 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12109400 Catalog #: 04012ST3QIE364T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 159 ft.lb ◆ Current - 1 p.u. = 39.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 39.6 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 159 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage



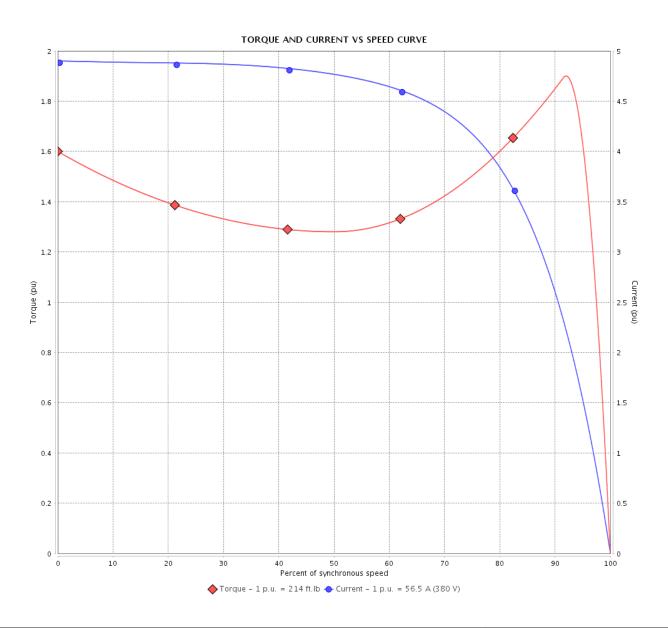
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12109400

Catalog #: 04012ST3QIE364T-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 56.5 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B
Locked roter time	: 32c (cold) 18c (bot)	1	

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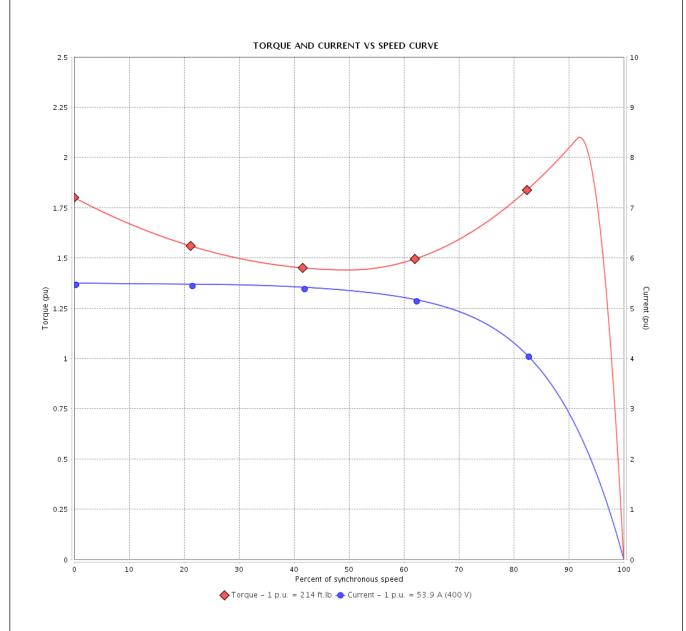
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Catalog # : 04012ST3QIE364T-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 53.9 A	Moment of inertia (J)	: 29.0 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	:F ´´	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)	1	<del>.</del>	

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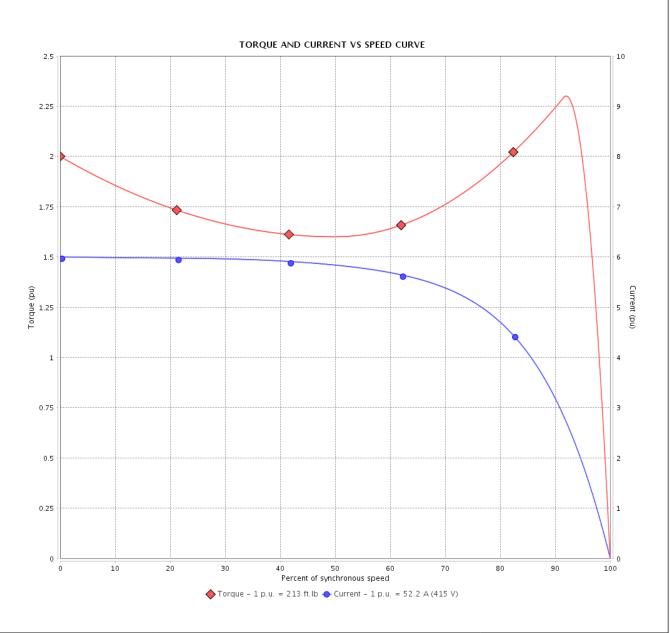


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog # : 04012ST3QIE364T-W22



Performance	: 415 V 50 Hz 6P IE3		
Rated current LRC Rated torque Locked rotor torque	: 52.2 A : 6.0 : 213 ft.lb : 200 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00
Breakdown torque Rated speed	: 229 % : 985 rpm	Temperature rise Design	: 80 K : B

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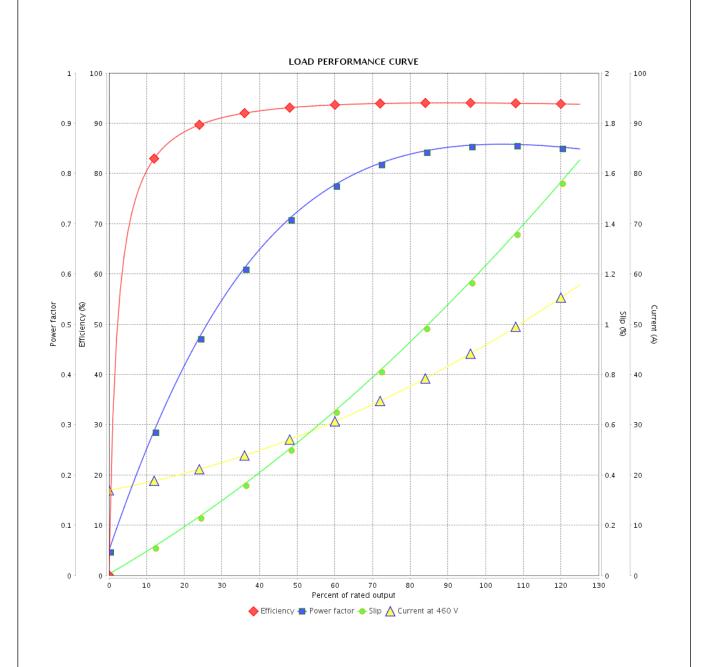


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22



Performance	: 4	160 V 60 Hz 6P					
Rated current	: 4	16.5 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb		
LRC	: 6	6.4	Duty cycle	)	: Cont.(S1)		
Rated torque	: 1	177 ft.lb	Insulation	class	: F		
Locked rotor torque : 20		200 %	Service fa	ctor	: 1.25		
Breakdown torque		240 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 1	185 rpm	Design		: B		
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Phase

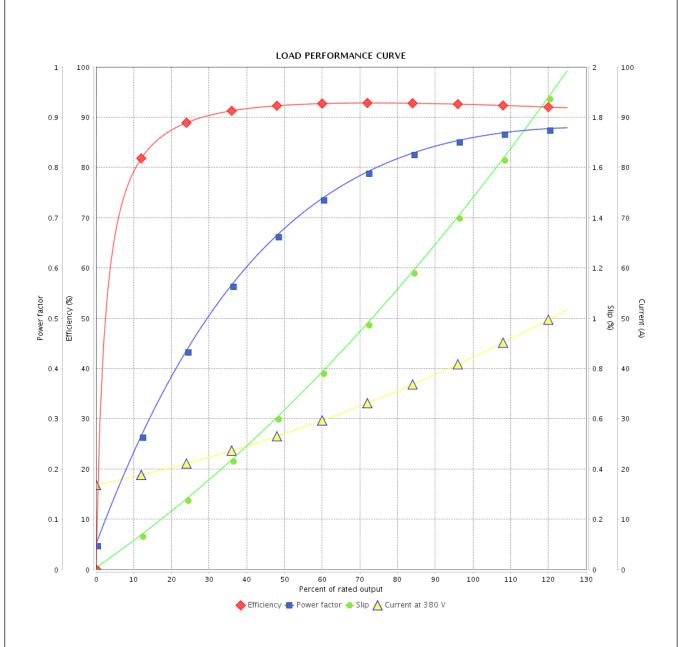
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Performance	::	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : : : : : : : : : : : :	42.0 A 6.4 160 ft.lb 210 % 250 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

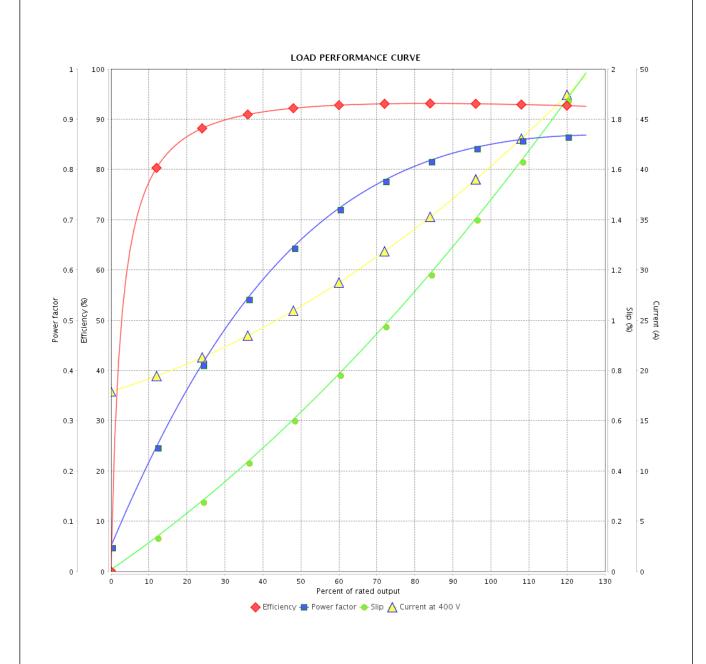


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22



Performance	:	400 V 50 Hz 6P IE	:3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: :ue :e :	40.2 A 7.2 160 ft.lb 240 % 280 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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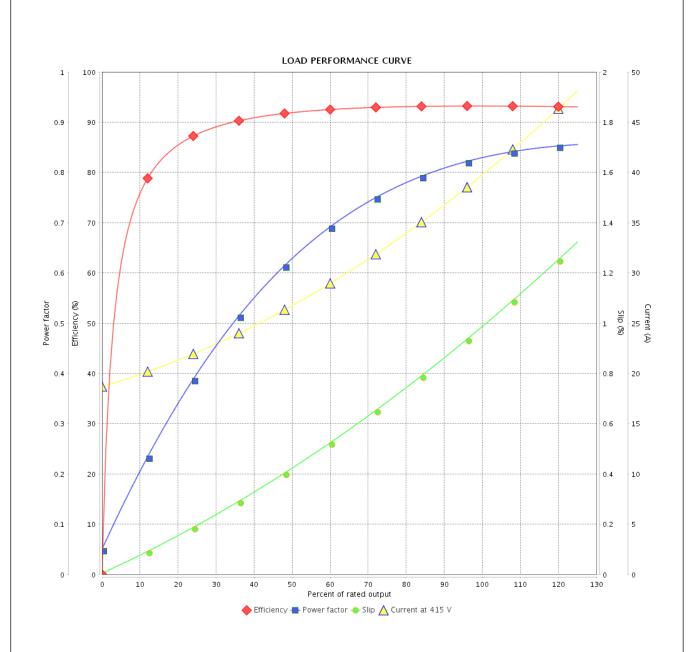
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ST3QIE364T-W22

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12109400



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 3	9.6 A .7 59 ft.lb 70 % 10 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

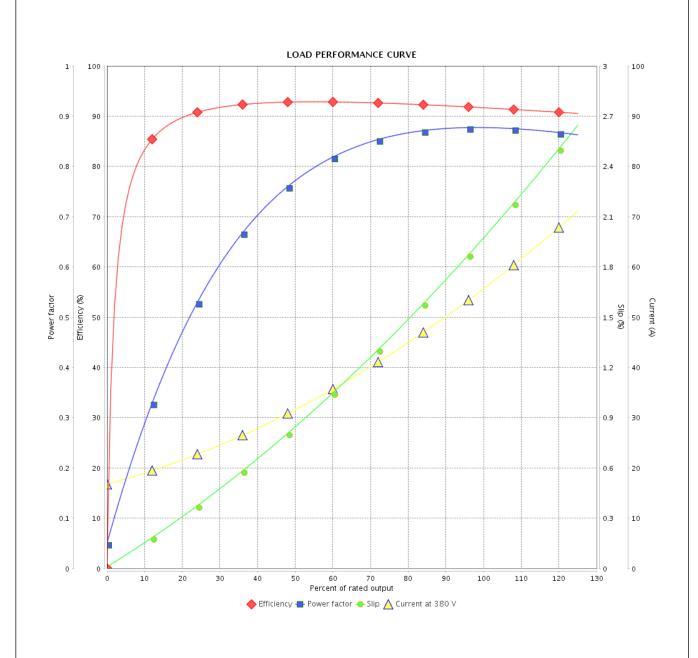


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22



Performance	Performance : 380 V 50 Hz 6P IE2					
Rated current : 56.5 A		56.5 A	Moment of	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 4	1.9	Duty cycle		: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : 1	160 %	Service factor		: 1.00	
Breakdown torque	: 1	190 %	Temperature rise		: 80 K	
Rated speed	: 9	980 rpm	Design		: B	
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Phase

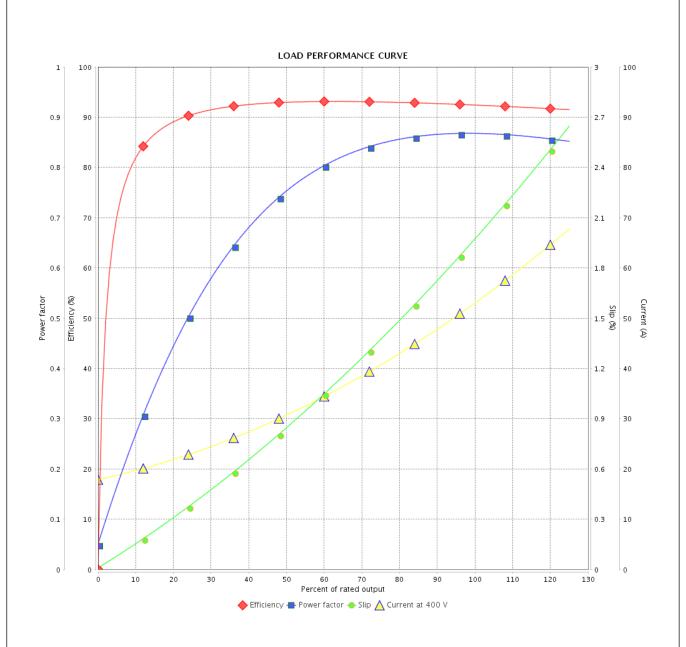
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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.9 A : 5.5 : 214 ft.lb : 180 % : 210 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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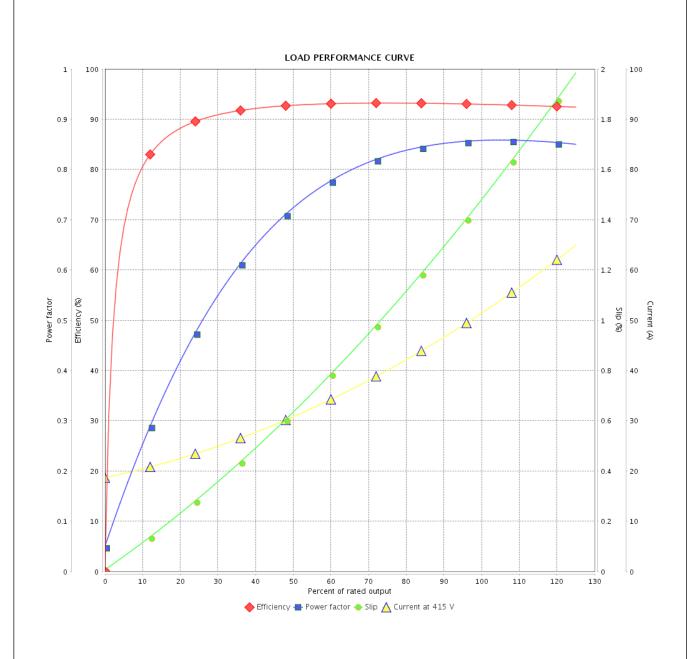


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22



Performance	: 4	15 V 50 Hz 6P IE3			,	
LRC : Rated torque :		2.2 A .0 13 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 29.0 sq.ft.lb : Cont.(S1) : F	
Breakdown torque :		00 % 29 % 85 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : B	
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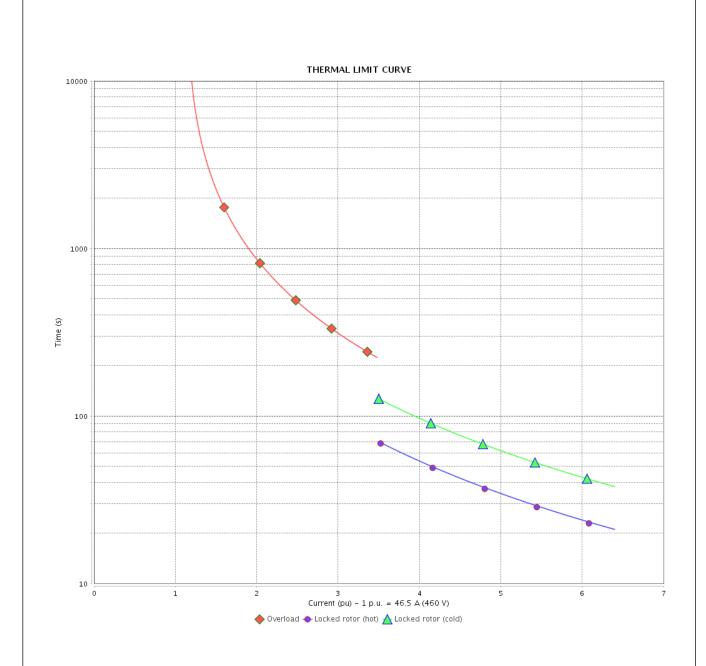


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12109400 04012ST3QIE	E364T-W22
Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 46.5 A : 6.4	Moment of Duty cycle	of inertia (J) e	: 29.0 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb : 200 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 240 % : 240 %	Temperat		: 1.25 : 80 K	
Rated speed		: 1185 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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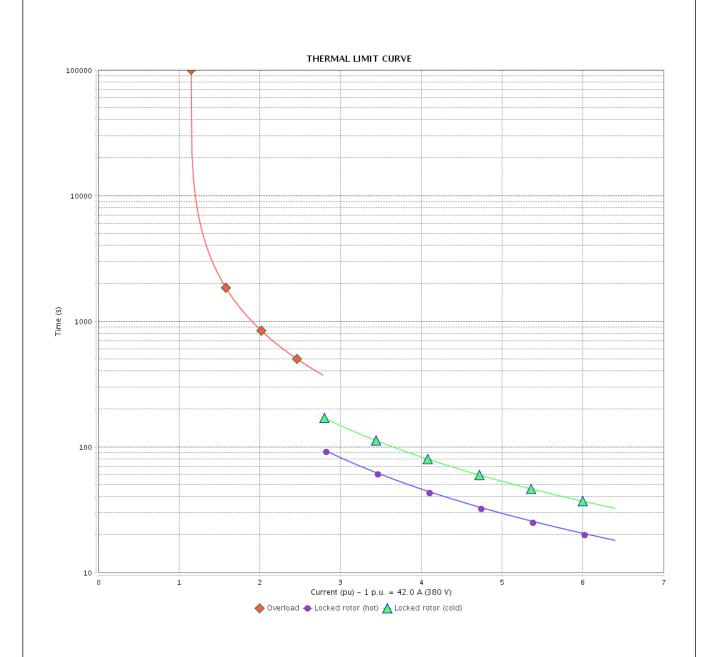


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12109400	
			Catalog # :	04012ST3QI	E364T-W22
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.0 A : 6.4 : 160 ft.lb : 210 % : 250 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant					
Cooling constant  Rev.	Changes Summers		Performed	Checked	Date
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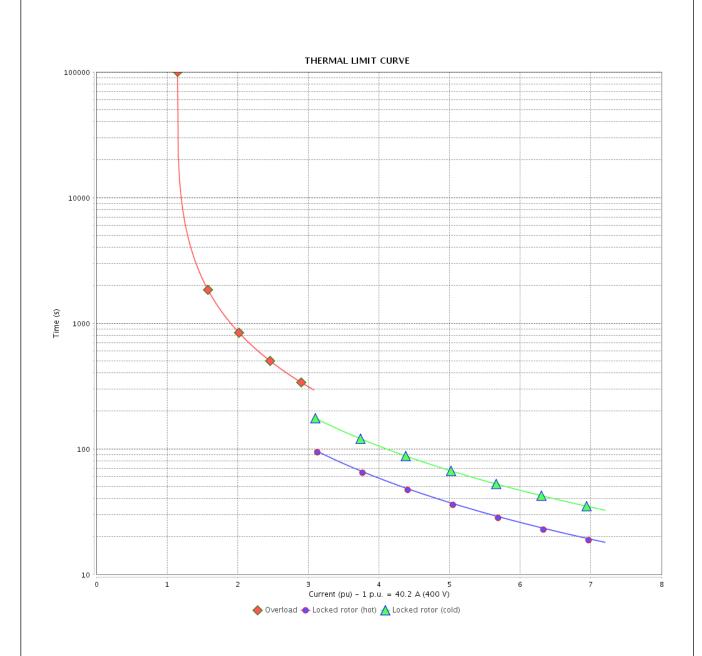


Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		roduct code :	12109400	
		C	atalog # :	04012ST3QIE	364T-W22
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 40.2 A : 7.2 : 160 ft.lb : 240 % : 280 % : 985 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

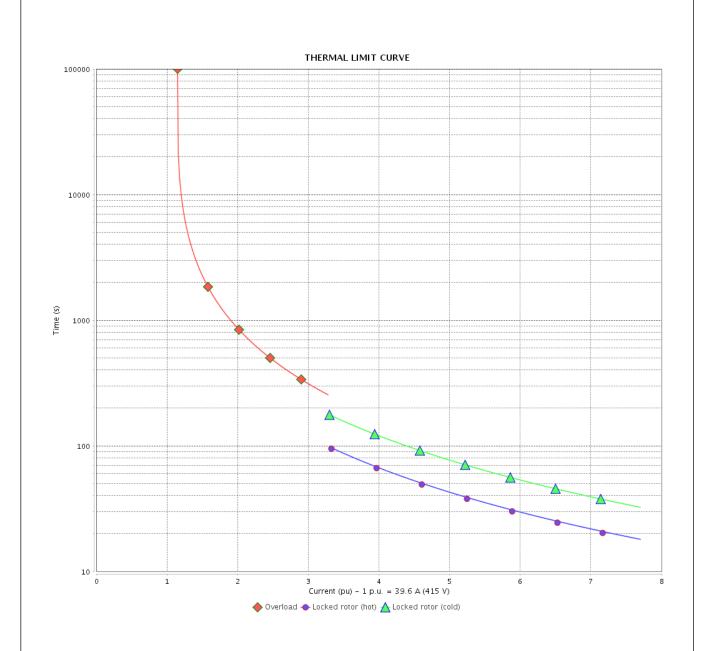


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12109400 04012ST3QI	E364T-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constant	que ::	415 V 50 Hz 6P IE3 39.6 A 7.7 159 ft.lb 270 % 310 % 990 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

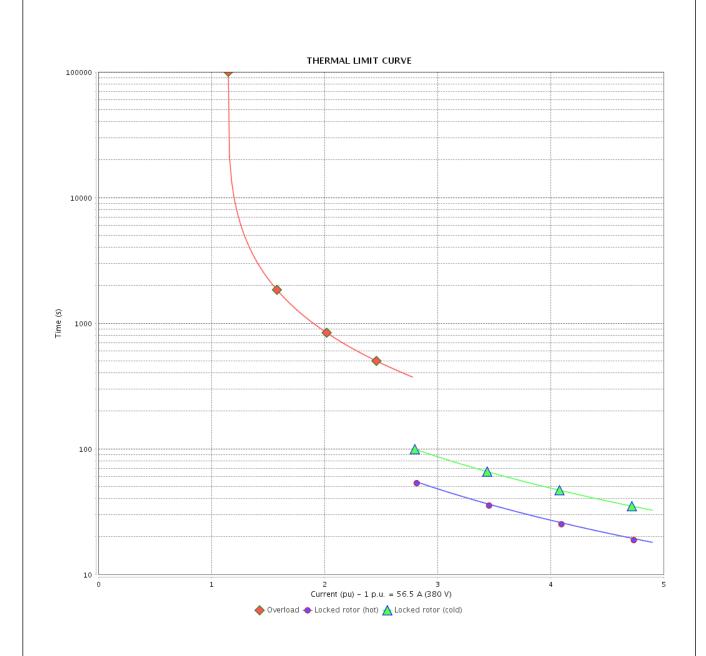


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Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	12109400	
		(	Catalog # :	04012ST3QII	E364T-W22
Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 56.5 A : 4.9 : 214 ft.lb : 160 % : 190 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•				
Heating constant					
Cooling constant	Changes Cummer:	I	Dorformad	Chaptrad	Data
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

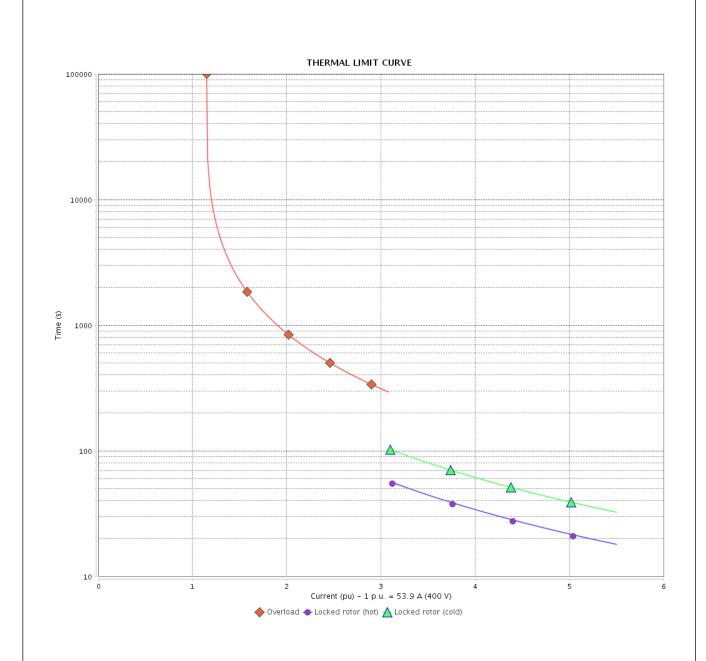


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12109400 04012ST3QIE	:364T-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 53.9 A : 5.5	Duty cycle		: 29.0 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 214 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 210 %	Temperat		: 80 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

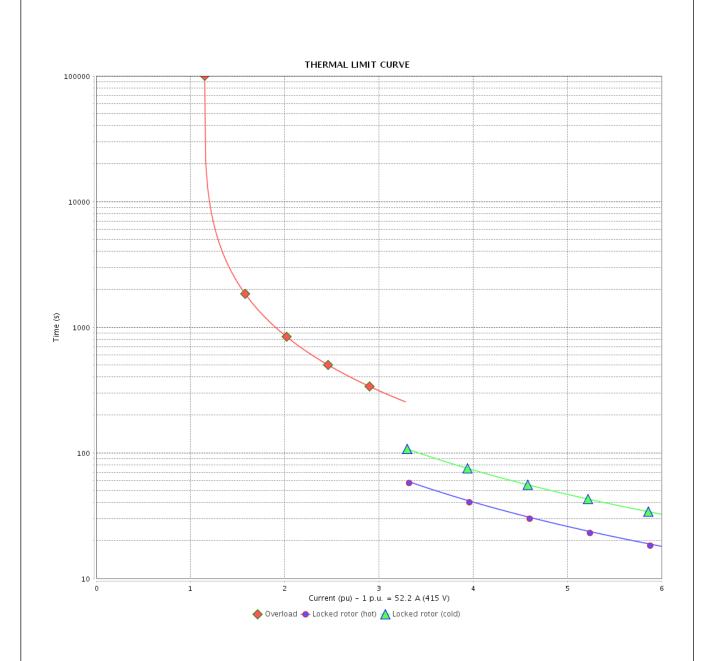


Product line					
Performance : 415 V 50 Hz 6P IE3	Customer	:			
Performance : 415 V 50 Hz 6P IE3	Product line				
			Catalog #	#: 04012ST30	QIE364T-W22
	Performance	: 415 V 50 Hz 6P IE3			
Rated current : 52.2 A Moment of inertia (J) : 29.0 sq.ft.lb LRC : 6.0 Duty cycle : Cont.(S1) Rated torque : 213 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 985 rpm Design : B	Rated torque Locked rotor torque Breakdown torque	: 213 ft.lb : 200 % : 229 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : 1.00 : 80 K	
		•			
Heating constant Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



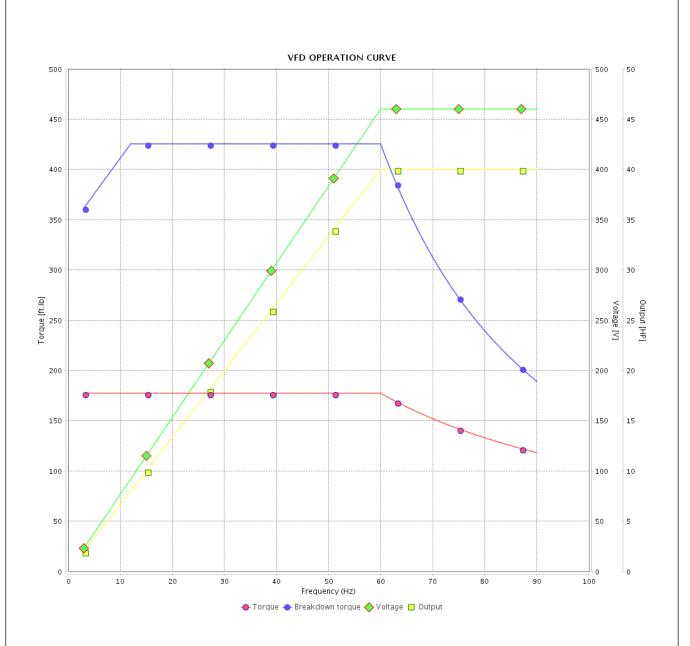
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12109400

Catalog #: 04012ST3QIE364T-W22



Performance : 460 V 60 Hz 6P : 46.5 A Moment of inertia (J) : 29.0 sq.ft.lb Rated current **LRC** : 6.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

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### Three Phase Induction Motor - Squirrel Cage



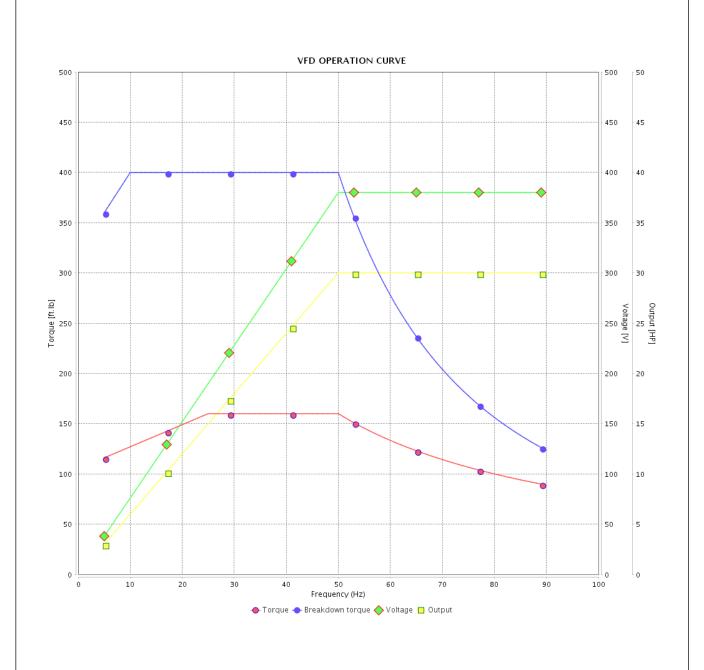
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 42.0 A	Moment of	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 6.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 160 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 250 %	Temperate	ure rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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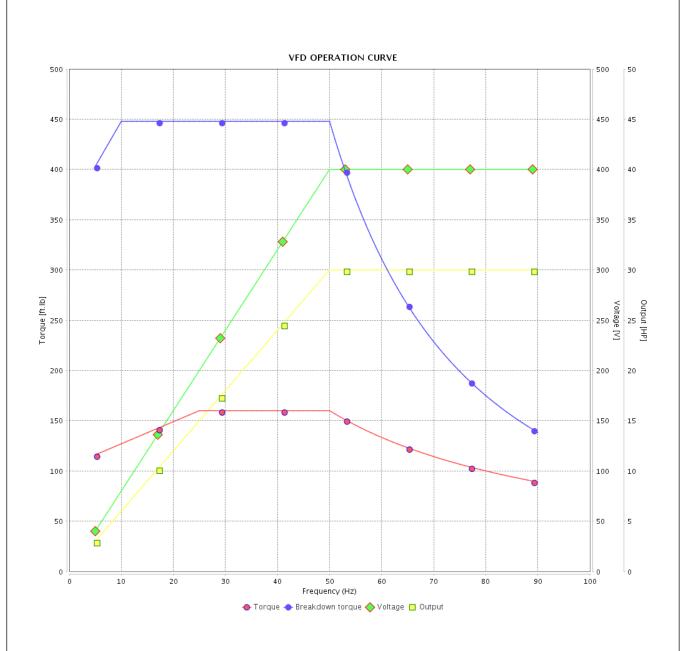
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12109400

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Performance		: 400 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	:   iue	40.2 A 7.2 160 ft.lb 240 % 280 % 985 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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#### Three Phase Induction Motor - Squirrel Cage



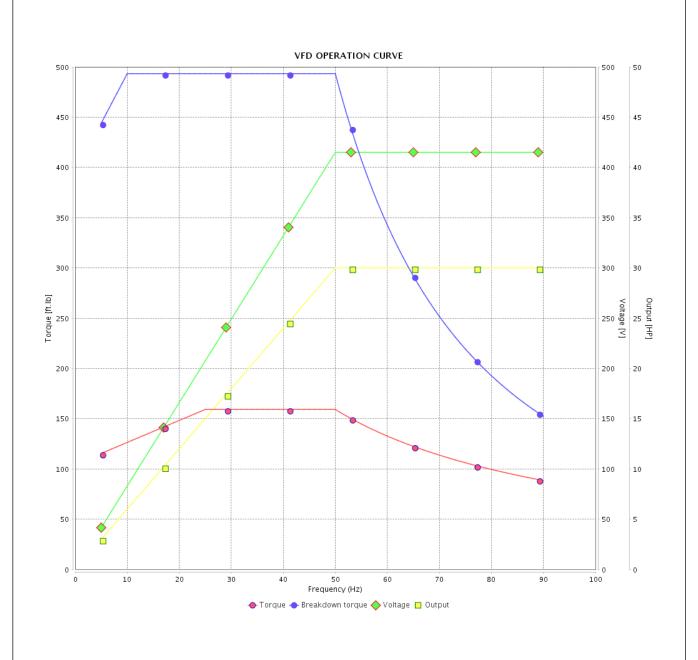
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Product line : NEMA Premium Efficiency Three- Product code : 12109400

Phase

Catalog #: 04012ST3QIE364T-W22

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Performance	: 415 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.6 A : 7.7 : 159 ft.lb : 270 % : 310 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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#### Three Phase Induction Motor - Squirrel Cage



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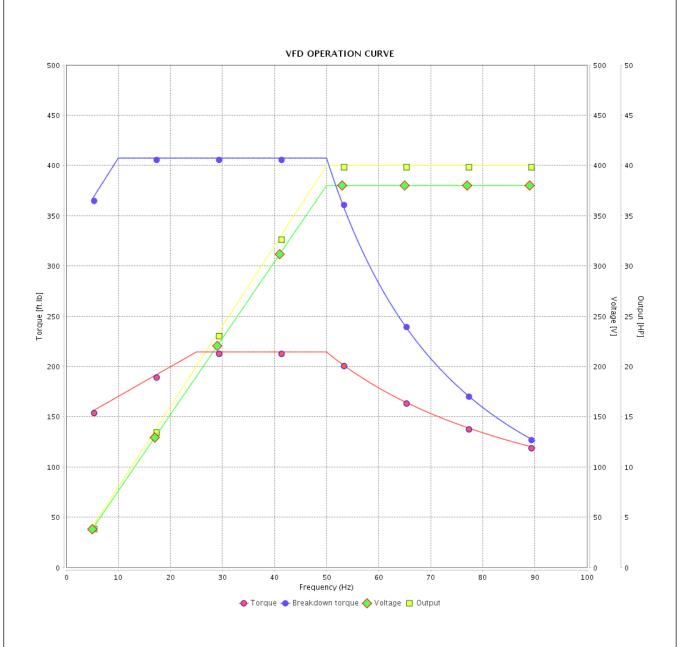
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12109400

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		<del></del>			
Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 56.5 A : 4.9 : 214 ft.lb : 160 % : 190 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 980 rpm	Design		: B	
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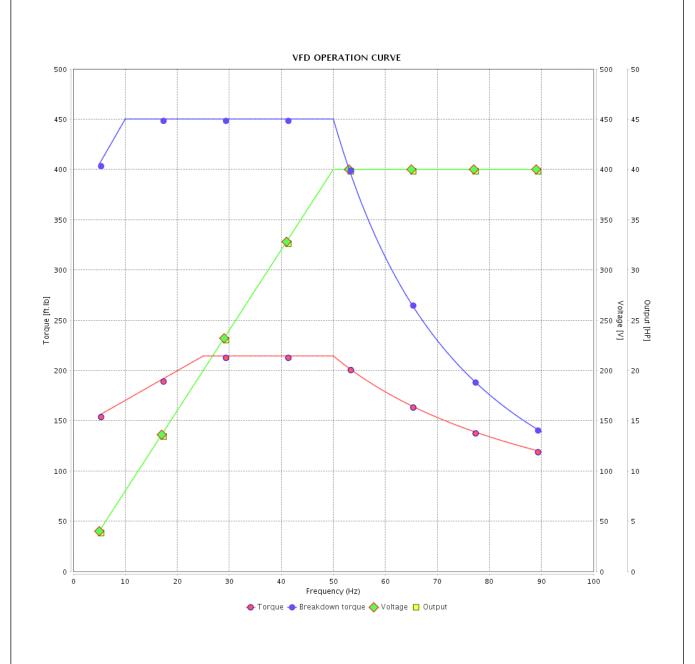
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ST3QIE364T-W22

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Performance	00 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5 : 2 e : 10 : 2	3.9 A .5 14 ft.lb 80 % 10 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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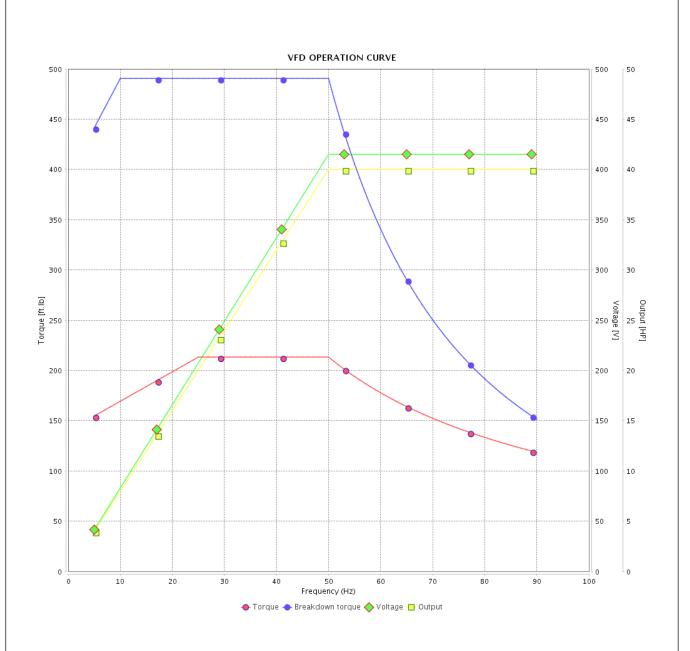
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Performance	: 4′	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 2'  ue : 20  e : 22	2.2 A .0 13 ft.lb 00 % 29 % 85 rpm	Service fact Temperatur		: Cont.(S1) lass : F tor : 1.00	
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