### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12448179

Catalog #: 04036ET3E324TSC-W22

: F-1

Frame : 324/6TSC Cooling method : IC411 - TEFC

Insulation class Mounting

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> · 567 lb

Altitude		: 1000 m.a.	S.I.	Approx	Approx. weight <sup>3</sup> : 567 lb				
Protection degre	е	: IP55		Momer	nt of inertia (J	) : 4	.90 sq.ft.lb		
Design		: B							
Output [HP]		40	30	30	30	40	40	40	
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]		91.6/45.8	40.5	38.5	37.5	56.3	53.1	51.1	
L. R. Amperes [A]		577/289	263	281	289	282	297	307	
LRC [A]		6.3x(Code	6.5x(Code	7.3x(Code H)	7.7x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code F)	
		G)	G)						
No load current [A	.]	22.0/11.0	10.8	11.8	12.5	10.8	11.8	12.5	
Rated speed [RPN	Л]	3555	2960	2965	2970	2940	2945	2950	
Slip [%]		1.25	1.33	1.17	1.00	2.00	1.83	1.67	
Rated torque [ft.lb]		59.1	53.2	53.1	53.0	71.4	71.3	71.2	
Locked rotor torqu	ie [%]	250	240	270	290	180	200	220	
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	105 K	105 K	80 K	
Locked rotor time		39s (cold) 22s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>		76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	
	25%			1210 02 (1)				1 210 02 (1)	
Efficiency (0/)	50%	91.7	90.9	90.3	90.7	91.7	91.7	91.7	
Efficiency (%)	75%	92.4	91.8	91.7	92.1	91.7	91.7	92.4	
	100%	92.4	92.7	92.7	92.7	91.0	91.7	91.7	
	25%								
Power Factor	50%	0.82	0.77	0.75	0.73	0.85	0.83	0.82	
FUWEI FACIOI	75%	0.87	0.86	0.85	0.84	0.88	0.88	0.87	

Drive end Non drive end Foundation loads

0.89

0.88

Bearing type 6312 C3 6212 C3 Max. traction : 345 lb Sealing V'Ring V'Ring : 912 lb Max. compression

15000 h

0.89

Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM

0.89

12000 h

Notes

Lubrication interval

USABLE @208V 101A SF 1.10 SFA 111A

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.

0.89

0.89

0.89

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#### Three Phase Induction Motor - Squirrel Cage

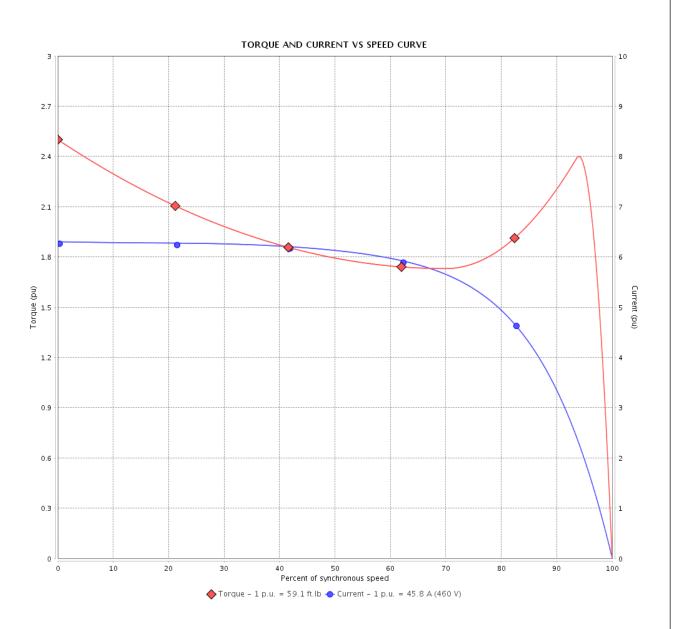


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448179

Phase

Catalog #: 04036ET3E324TSC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 91.6/45.8 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.1 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

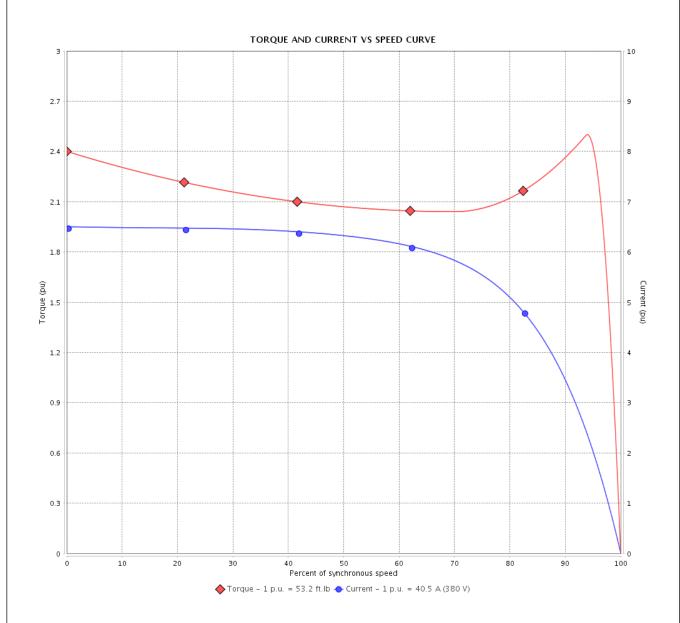
Locked rotor time : 39s (cold) 22s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12448179 Catalog #: 04036ET3E324TSC-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 40.5 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.2 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



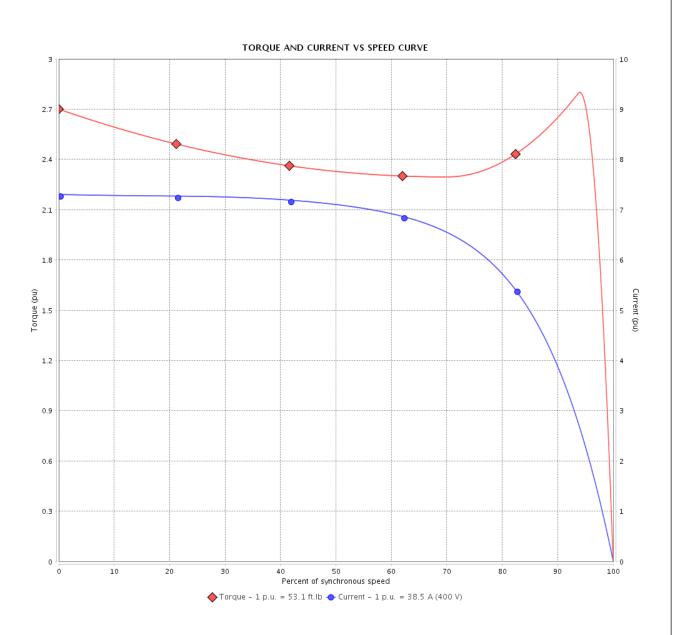
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04036ET3E324TSC-W22

12448179



Performance : 400 V 50 Hz 2P IE3 Rated current : 38.5 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.1 ft.lb : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2965 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 code: 12448179 Catalog #: 04036ET3E324TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.0 ft.lb ◆ Current - 1 p.u. = 37.5 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 37.5 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.0 ft.lb : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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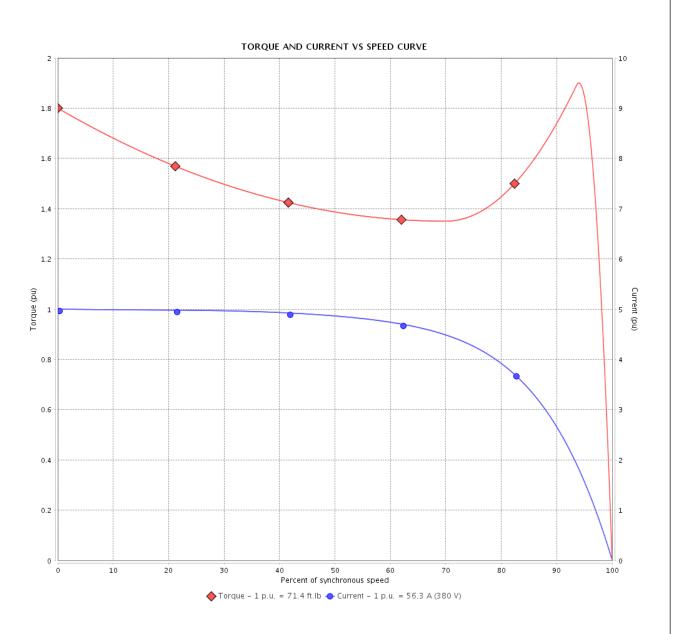
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12448179

Catalog #: 04036ET3E324TSC-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 56.3 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.4 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2940 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 code: 12448179 Catalog #: 04036ET3E324TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque – 1 p.u. = 71.3 ft.lb ◆ Current – 1 p.u. = 53.1 A (400 V) Performance : 400 V 50 Hz 2P IE1 Rated current : 53.1 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Rated torque Insulation class : 71.3 ft.lb : F : 200 % : 1.00 Locked rotor torque Service factor : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 2945 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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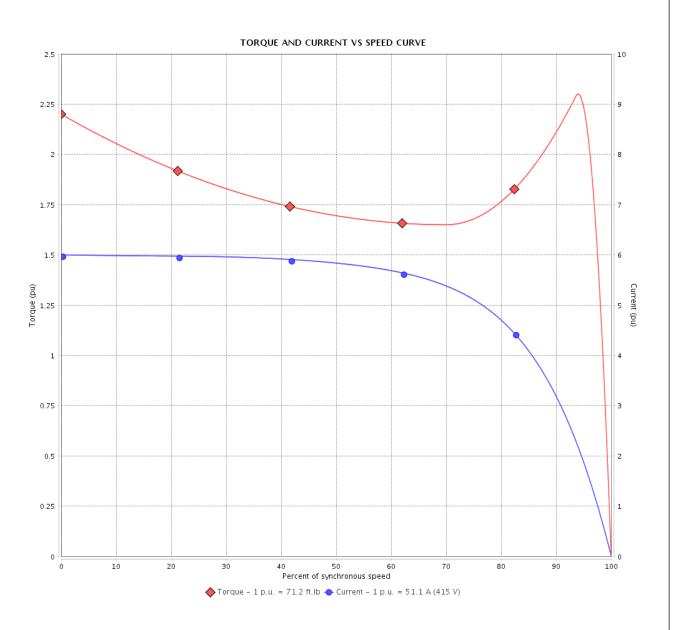


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448179

Phase

Catalog #: 04036ET3E324TSC-W22



Performance	: 415 V 50 Hz 2P IE1			
Rated current LRC	: 51.1 A : 6.0	Moment of inertia (J)	: 4.90 sq.ft.lb	
Rated torque	. 6.0 : 71.2 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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

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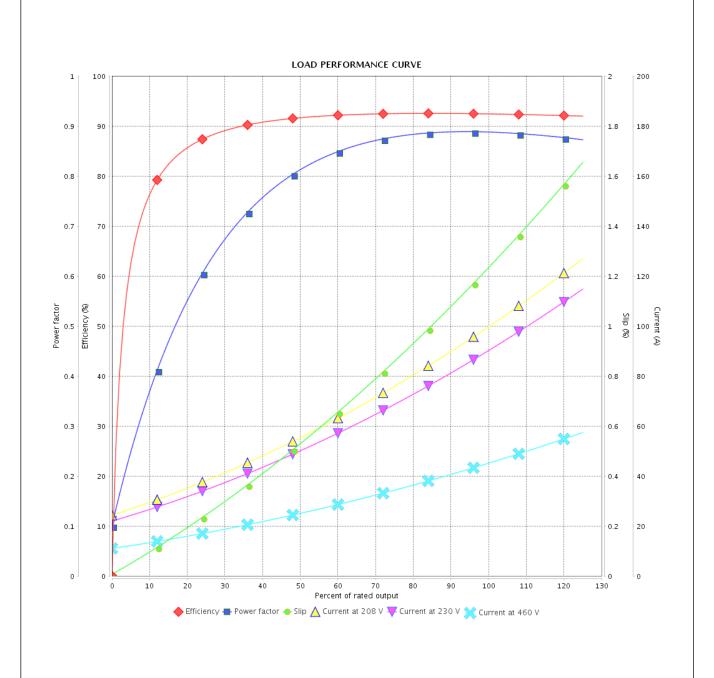
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04036ET3E324TSC-W22

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Performance : 230/460 V 60 Hz 2P						
Rated current		91.6/45.8 A	Moment of inertia (J)		: 4.90 sq.ft.lb	
LRC	:	6.3	Duty cycle		: Cont.(S1)	
Rated torque	1		Insulation	class	: F	
Locked rotor torqu			ctor	: 1.25		
Breakdown torque	:	240 %	Temperati	Temperature rise		
Rated speed	:	555 rpm Design		: B		
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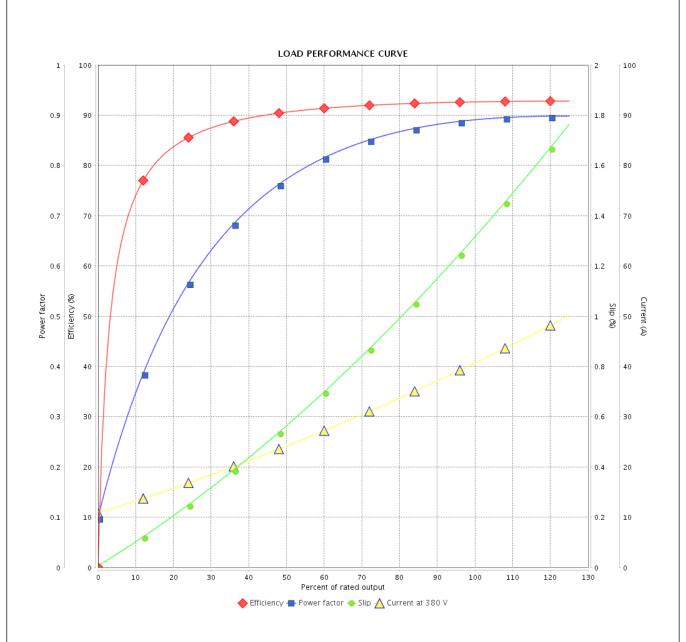
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 2P IE3				
ated current : 40.5 A Moment of inertia (J)		Moment of inertia (J)		: 4.90 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 53.2 ft.lb	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor		: 1.00	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 2960 rpm	Design		: B	
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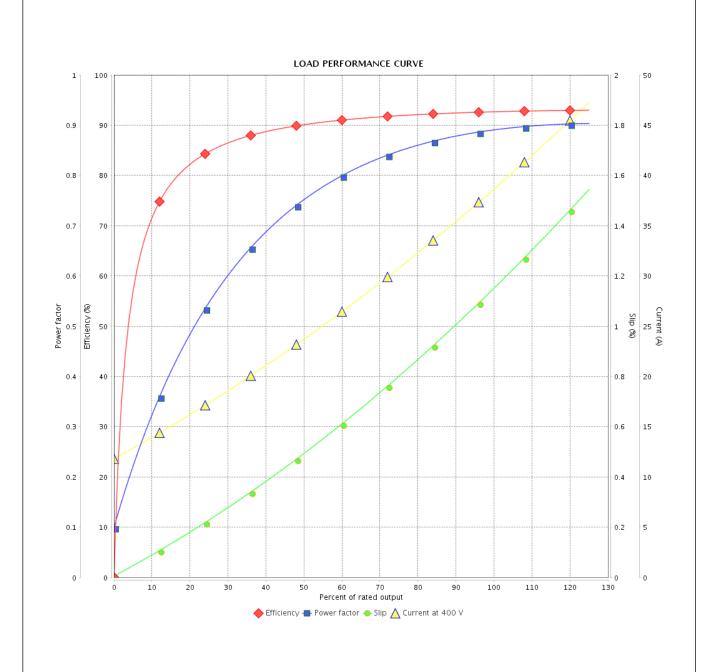
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12448179

Catalog #: 04036ET3E324TSC-W22



Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current		8.5 A	Moment o	Moment of inertia (J)		
LRC		.3	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 5	3.1 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	Zeron Temperature rise Design		ure rise	: 80 K	
Rated speed	: 2				: B	
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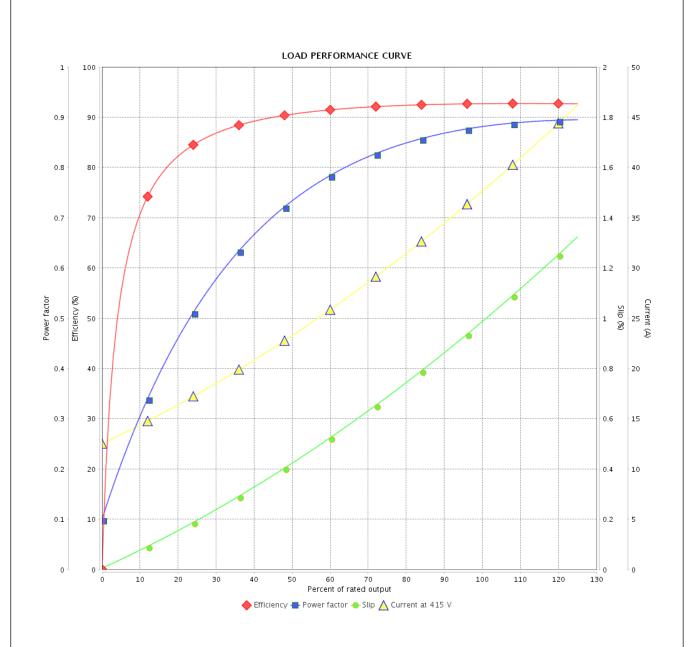
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Performance		: 415 V 50 Hz 2P I	E3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed				: 1.00 : 80 K		
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### Three Phase Induction Motor - Squirrel Cage



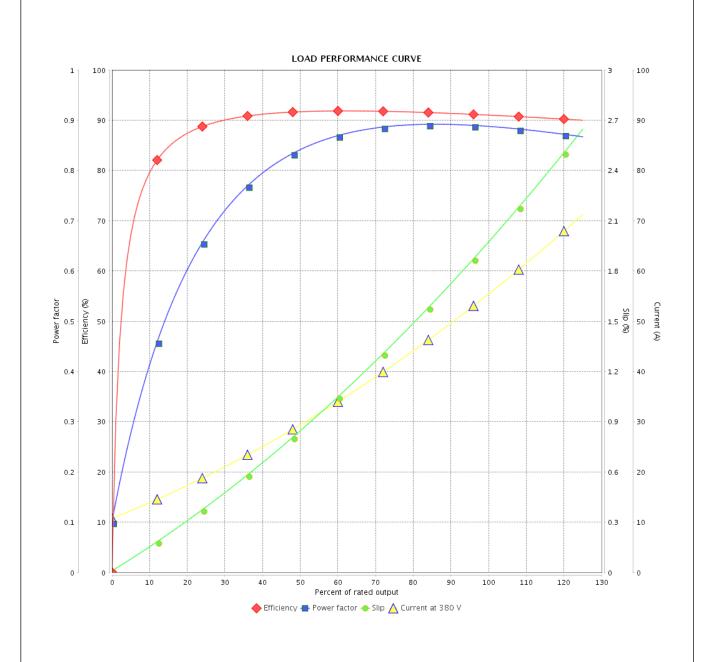
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Product line : NEMA Premium Efficiency Three- Product code : 12448179

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.3 A : 5.0 : 71.4 ft.lb : 180 % : 190 % : 2940 rpm	Moment of inertia (J) : 4.90 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 105 K  Design : B			
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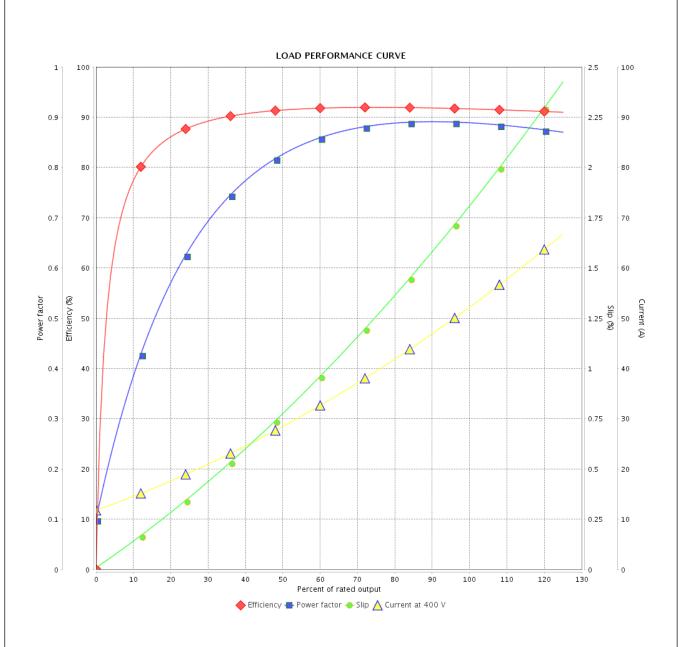
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Performance : 400 V 50 Hz 2P IE1 Rated current : 53.1 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 71.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

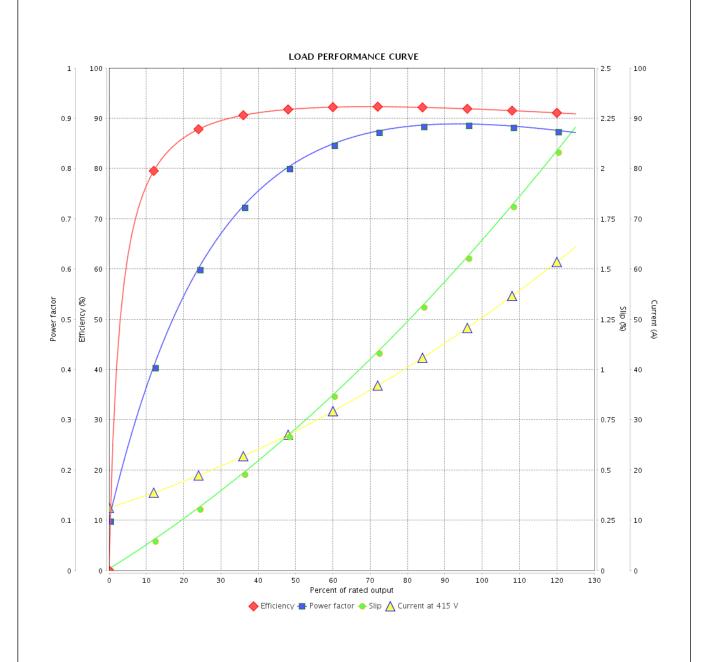


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Product line : NEMA Premium Efficiency Three- Product code : 12448179

Phase

Catalog #: 04036ET3E324TSC-W22



Performance	: 4	: 415 V 50 Hz 2P IE1				
Rated current	current : 51.1 A Mor		Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: 6	6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 7	'1.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ked rotor torque : 220 % Service factor		ctor	: 1.00		
Breakdown torque		229 %	Temperatu	Temperature rise		
Rated speed	: 2	950 rpm	Design		: B	
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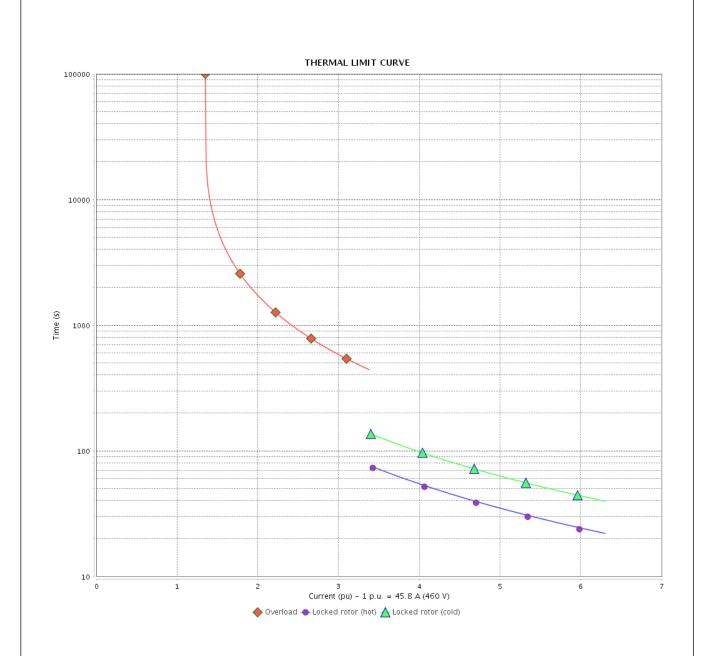


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	12448179	
	P	hase		Catalog # :	04036ET3E32	24TSC-W22
Performance		30/460 V 60 Hz 2P	I			
Rated current LRC	: 9 <sup>-</sup> : 6.	1.6/45.8 A 3	Moment of Duty cycle	f inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.1 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		50 % 40 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		555 rpm	Design		: B	
Heating constant						
Cooling constant						
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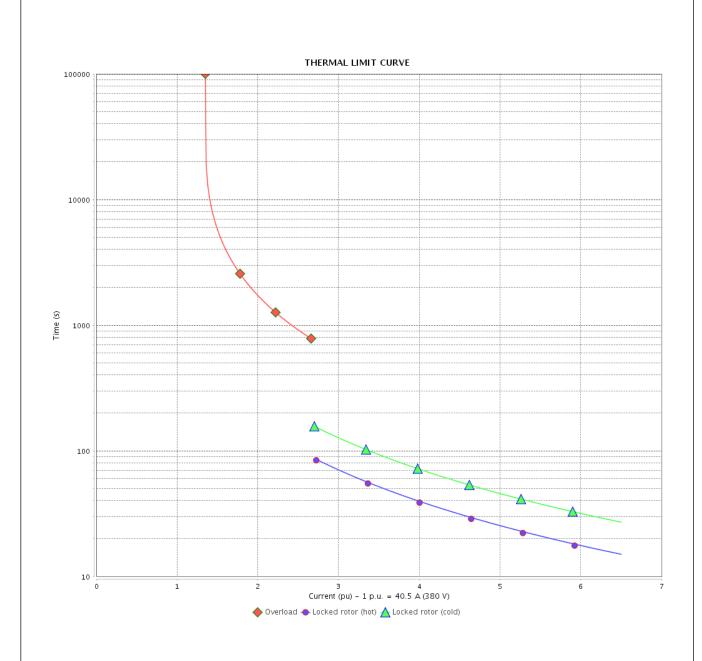


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448179 04036ET3E32	24TSC-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 40.5 A : 6.5	Duty cycle		: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 53.2 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 250 %	Temperat		: 80 K	
Rated speed		: 2960 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summan		Performed	Checked	Data
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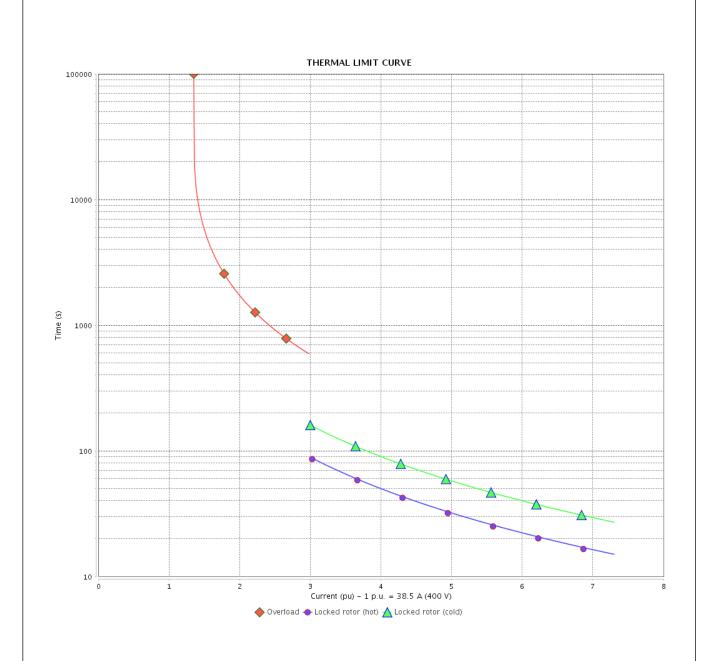


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345,011101	•					
Product line		NEMA Premium Efficiency T	Three- I	Product code :	12448179	
		liase	(	Catalog # :	04036ET3E32	4TSC-W22
Performance		00 V 50 Hz 2P IE3		<u> </u>		
Rated current LRC	: 38 : 7.	3.5 A 3	Moment of Duty cycle	t inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.1 ft.lb	Insulation	class	: F	
Locked rotor torq		70 %	Service fac		: 1.00	
Breakdown torqu Rated speed		30 % 965 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
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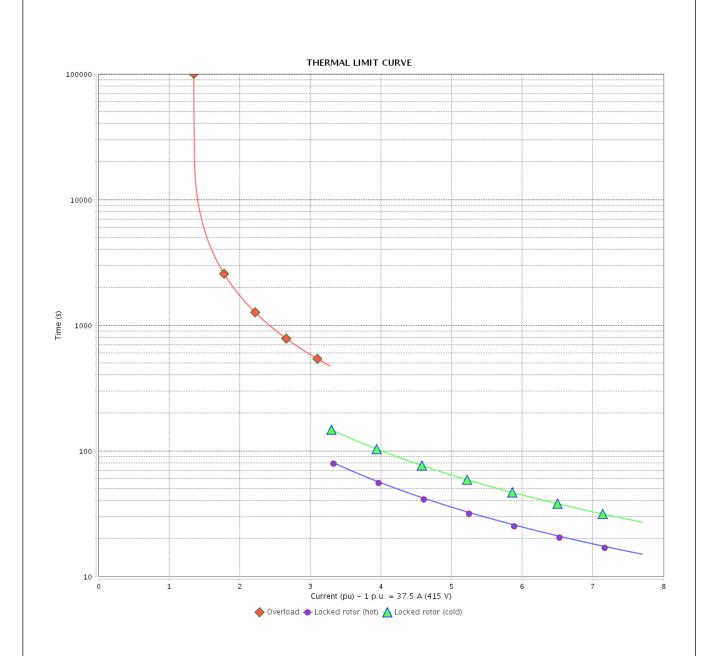


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Product line	: N	NEMA Premium Efficiency hase	/ Three-	Product code :	12448179	
		11030		Catalog # :	04036ET3E3	24TSC-W22
Performance		15 V 50 Hz 2P IE3				
Rated current LRC	: 37 : 7.	7.5 A 7	Moment of Duty cycle	of inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 10 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		970 rpm	Design	ui o 1100	: B	
Heating constant						
Cooling constant						
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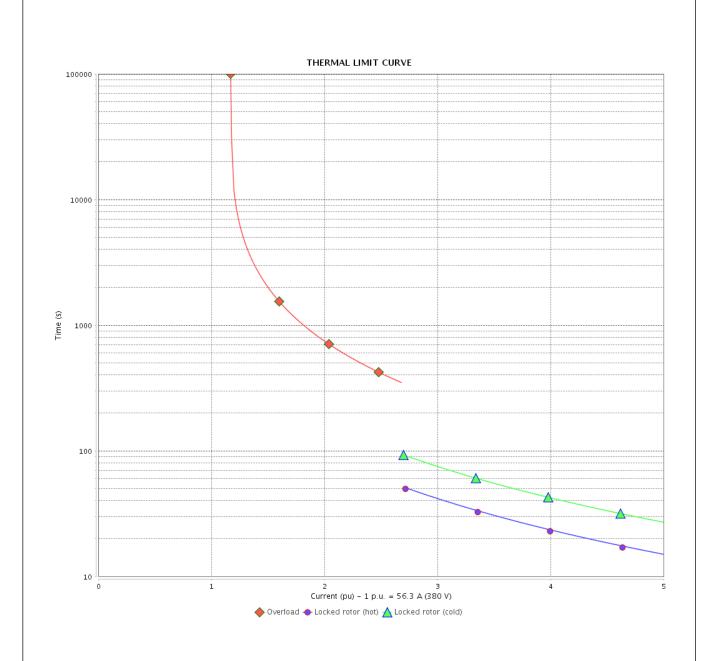


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448179 04036ET3E32	24TSC-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque		: 56.3 A : 5.0 : 71.4 ft.lb	Duty cycle Insulation	class	: 4.90 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	ue	: 180 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2940 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

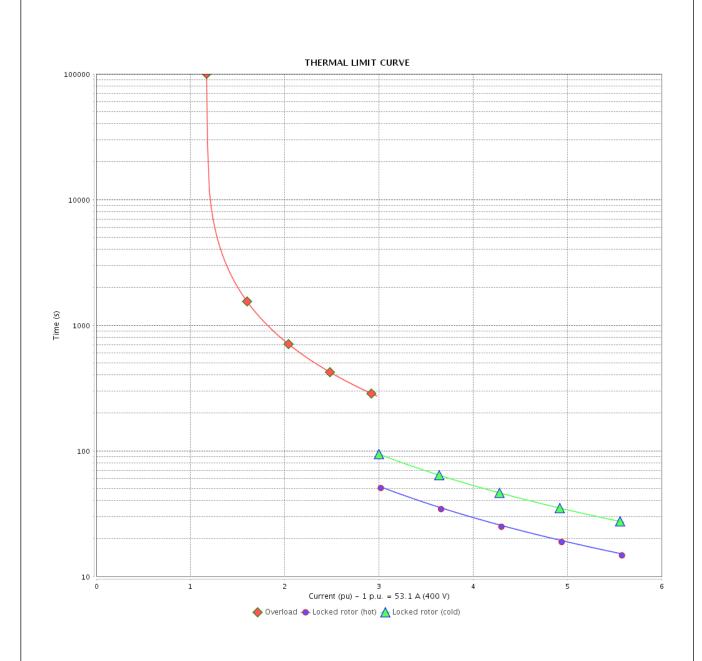


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448179 04036ET3E32	24TSC-W22
Performance	<u> </u>	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque		: 53.1 A : 5.6 : 71.3 ft.lb	Moment on Duty cycle Insulation		: 4.90 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que ue	: 200 % : 210 % : 2945 rpm	Service fa Temperati Design	ctor	: 1.00 : 105 K : B	
Heating constant	t	·				
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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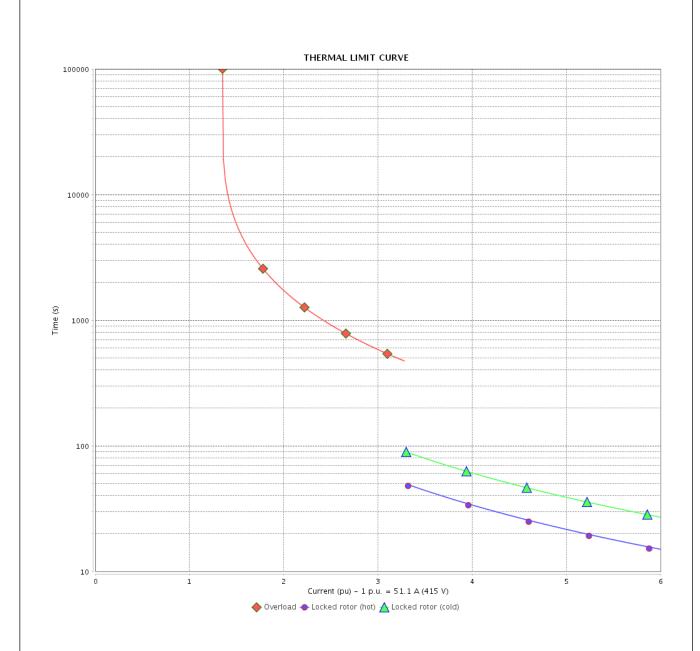


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12448179	
	P	hase	1	Catalog # :	04036ET3E32	24TSC-W22
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Performance		15 V 50 Hz 2P IE1				
Rated current LRC	: 5 <sup>-</sup> : 6.	1.1 A .0	Moment o Duty cycle	f inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 7	1.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 29 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		950 rpm	Design		: B	
Heating constant						
Cooling constant						
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Product line : NEMA Premium Efficiency Three-

Phase

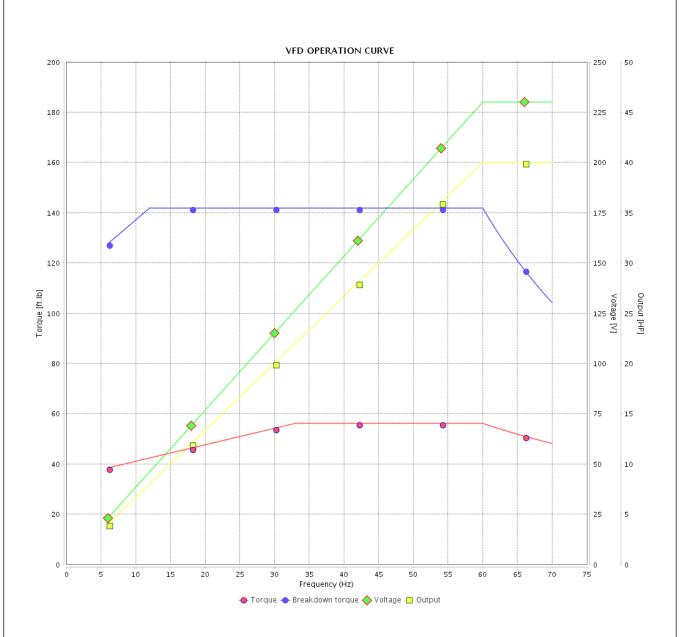
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Performance		: 230/460 V 60 Hz 2F	Р			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 91.6/45.8 A : 6.3 : 59.1 ft.lb : 250 % : 240 % : 3555 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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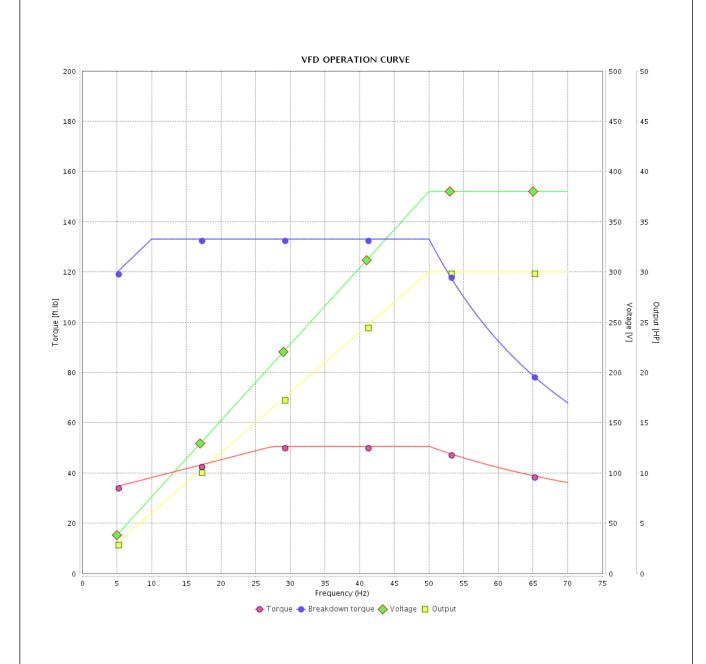
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Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.5 A : 6.5 : 53.2 ft.lb : 240 % : 250 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.00	
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Product line : NEMA Premium Efficiency Three- F

Phase

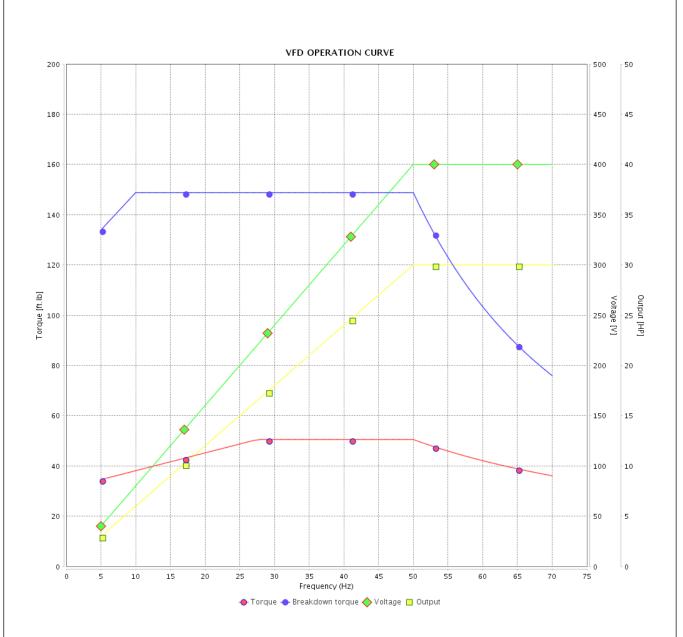
Product code: 12448179

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 38.5 A : 7.3 : 53.1 ft.lb : 270 % : 280 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



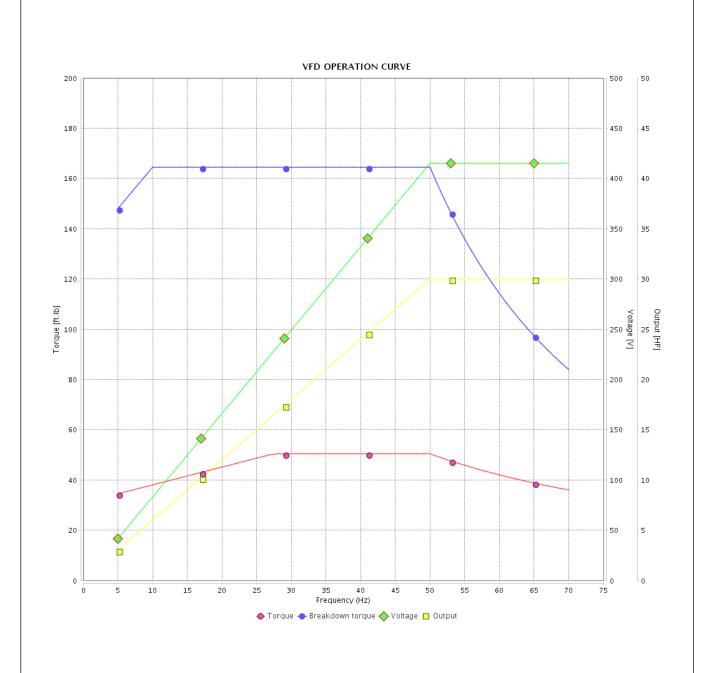
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04036ET3E324TSC-W22

12448179



Performance : 415 V 50 Hz 2P IE3						
Rated current	: 3	7.5 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: 7	.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 5	3.0 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 3	10 %	Temperati	Temperature rise		
Rated speed	: 2	2970 rpm Design		: B		
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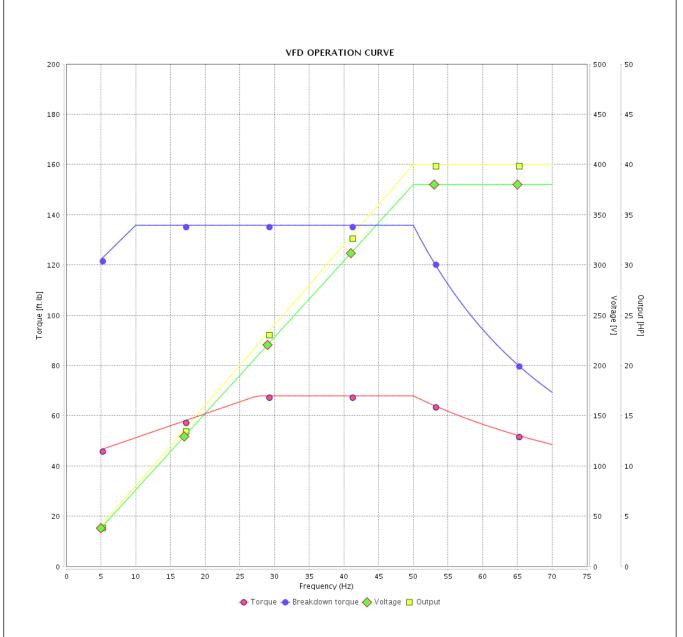
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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.3 A : 5.0 : 71.4 ft.lb : 180 % : 190 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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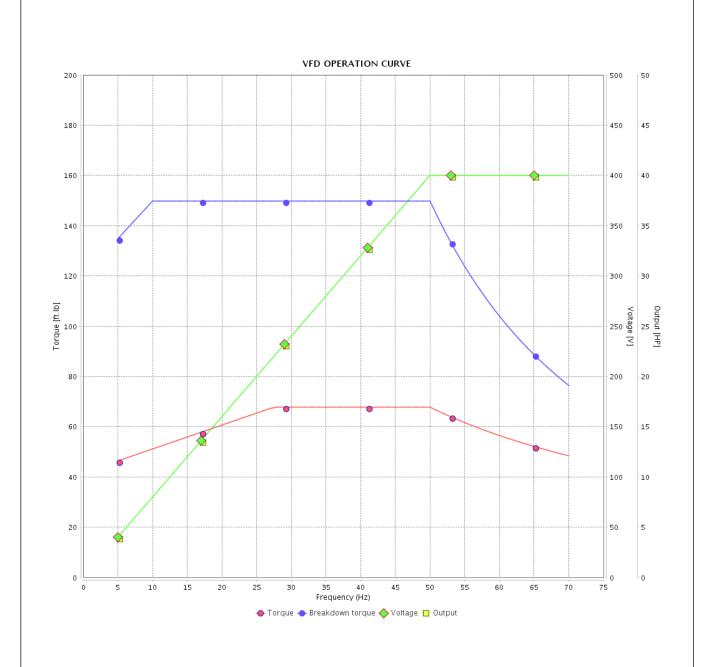
#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 12448179

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Performance : 400 V 50 Hz 2P IE1 : 53.1 A Rated current Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 71.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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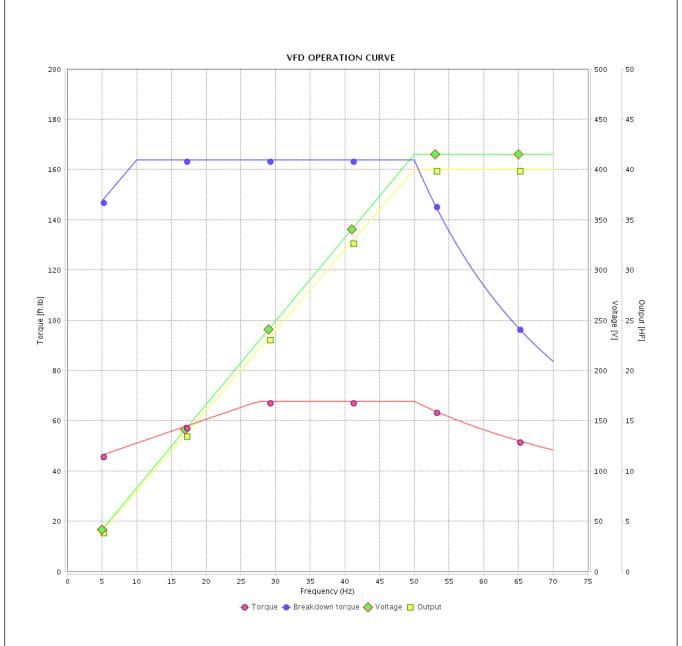
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Phase

Product code: 12448179

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Performance : 415 V 50 Hz 2P IE1 Rated current : 51.1 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : Cont.(S1) : 6.0 Duty cycle Insulation class : 71.2 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

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