### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22

Frame : 444/5TS 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. weight<sup>3</sup> : 1749 lb

Protection degree	: IP55		Momei	nt of inertia (J	) ::	39.1 sq.ft.lb	
Design	: B			·	•		
Output [HP]	150	125	125	125	150	150	150
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]	326/163	162	154	148	200	189	182
L. R. Amperes [A]	2119/1060	988	1063	1080	1020	1077	1110
LRC [A]	6.5x(Code	6.1x(Code F)	6.9x(Code	7.3x(Code	5.1x(Code D	)5.7x(Code E)	6.1x(Code F
	G)		G)	G)			
No load current [A]	82.0/41.0	41.0	43.1	45.1	41.0	43.1	45.1
Rated speed [RPM]	3570	2965	2970	2970	2960	2965	2965
Slip [%]	0.83	1.17	1.00	1.00	1.33	1.17	1.17
Rated torque [ft.lb]	221	221	221	221	266	266	266
Locked rotor torque [%]	180	170	190	200	140	160	170
Breakdown torque [%]	240	229	250	280	190	210	229
Service factor	1.15	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)	30s (cold)	30s (cold)	30s (cold)	30s (cold)	30s (cold)	30s (cold)
	22s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)

17s (hot) 17s (hot) Noise level<sup>2</sup> 81.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 25% 50% 94.1 93.7 94.1 94.1 94.1 94.5 94.5 Efficiency (%) 75% 95.0 94.4 94.9 94.9 94.5 95.0 95.0 100% 95.0 95.0 94.1 94.5 95.0 95.0 94.5 25% 0.81 0.79 0.77 0.86 0.83 50% 0.83 0.84 Power Factor 75% 0.88 0.88 0.88 0.87 0.89 0.89 0.88 100% 0.89 0.89 0.89 0.89 0.89 0.89 0.89

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction : 754 lb WSeal WSeal : 2503 lb Sealing Max. compression Lubrication interval 4000 h 4000 h

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

Notes

USABLE @208V 356A SF 1.00 SFA 356A

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

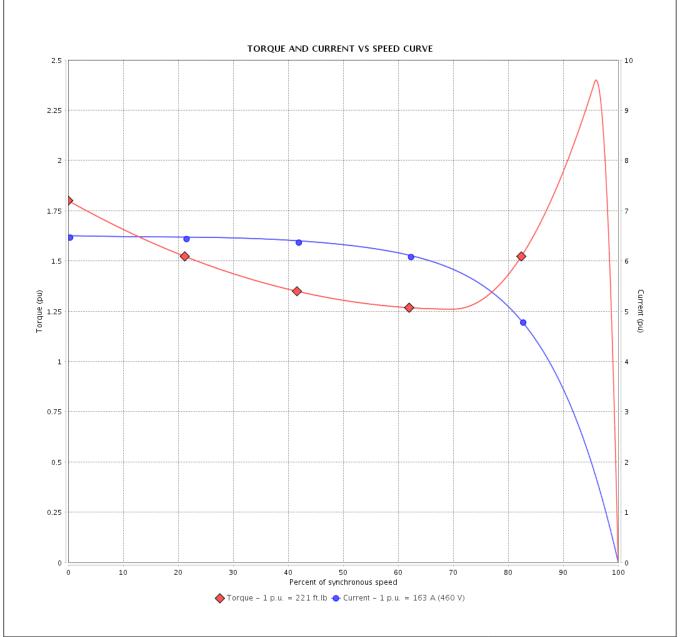


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance : 230/460 V 60 Hz 2P Rated current : 326/163 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 221 ft.lb Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B

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

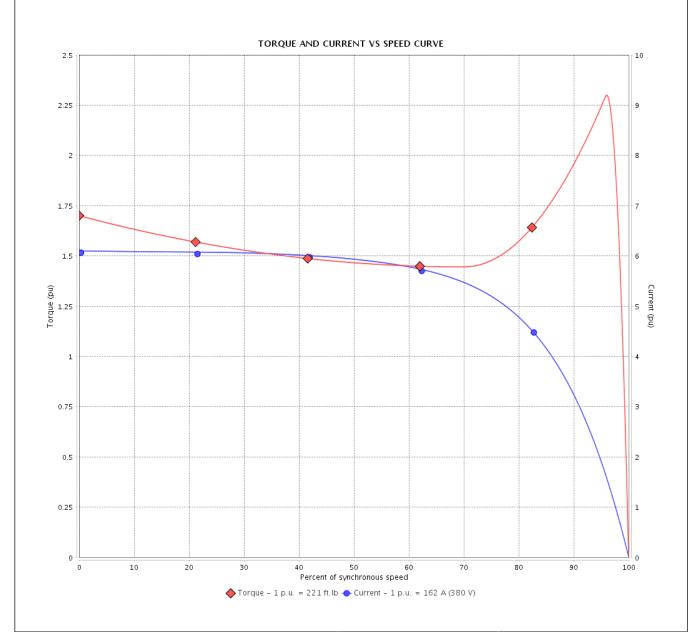
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11165997
Phase Catalog # : 15036ET3E445TS-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 162 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 30s (cold) 17s (hot)

#### Three Phase Induction Motor - Squirrel Cage



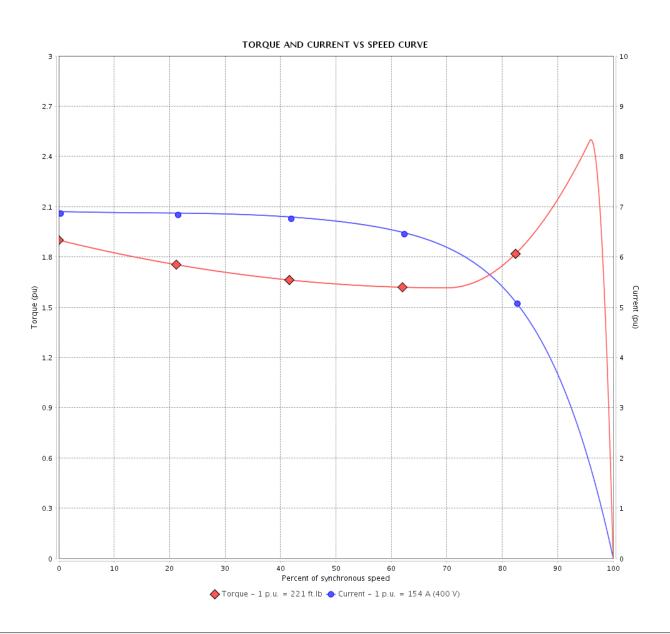
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165997

Catalog #: 15036ET3E445TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 154 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11165997 Catalog #: 15036ET3E445TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 221 ft.lb ◆ Current - 1 p.u. = 148 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 148 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F : 200 % Locked rotor torque Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Performed Checked Date Rev. **Changes Summary** 

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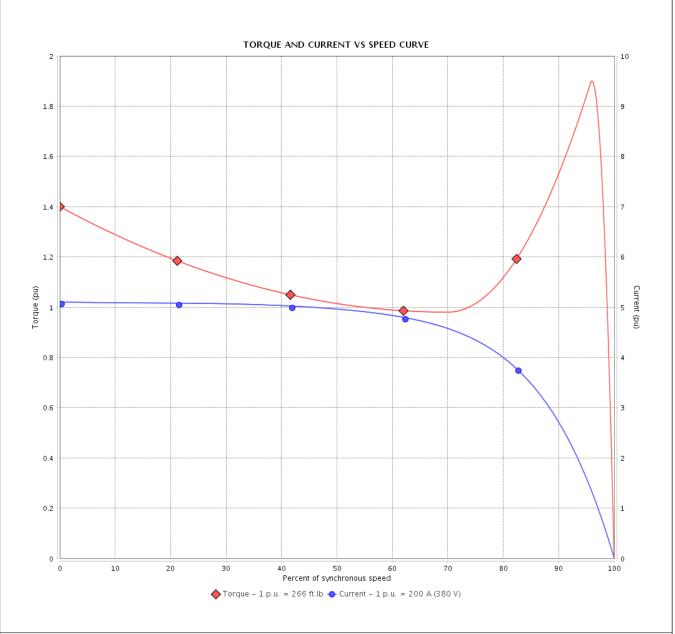


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 200 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2960 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11165997 Catalog #: 15036ET3E445TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 266 ft.lb ◆ Current - 1 p.u. = 189 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 189 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 266 ft.lb Insulation class Rated torque : F : 160 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 2965 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Date Rev. **Changes Summary** Performed Checked

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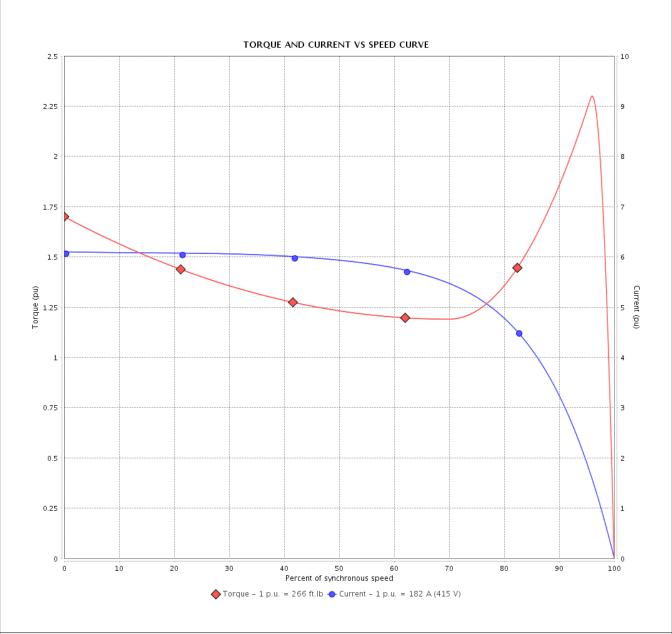


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 182 A Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

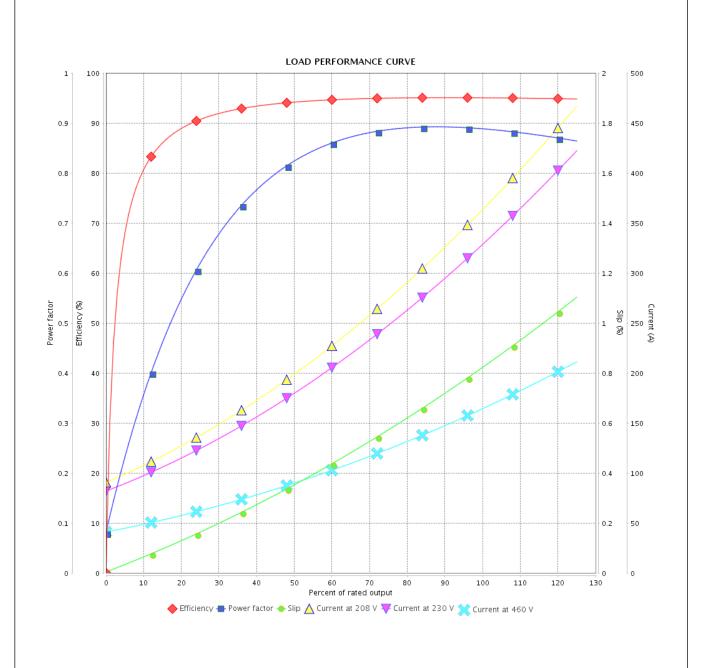


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current : 326		326/163 A	Moment o	f inertia (J)	: 39.1 sq.ft.lb	
LRC	: 6	3.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	221 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	180 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed		570 rpm Design		: B		
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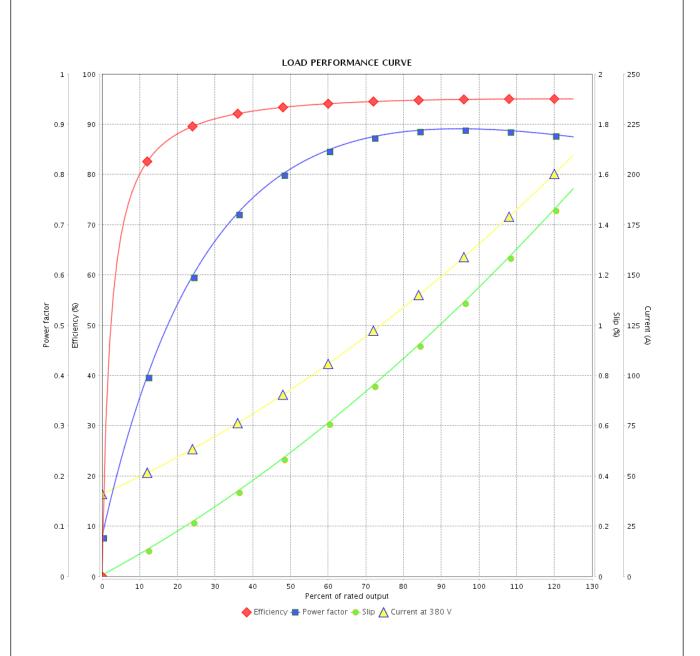
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15036ET3E445TS-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 162 A : 6.1 : 221 ft.lb : 170 % : 229 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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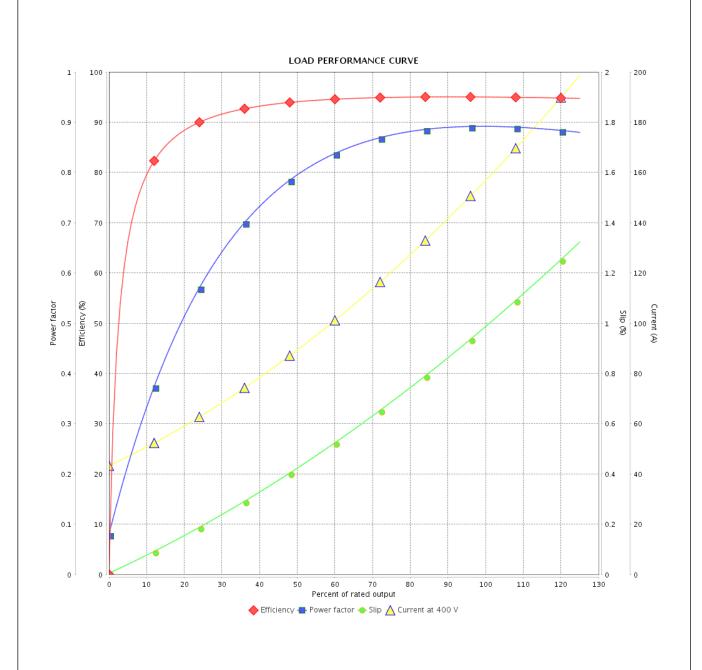


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance	:	400 V 50 Hz 2P IE3				
Rated current	:	154 A	Moment of inertia (J)		: 39.1 sq.ft.lb	
LRC	:	6.9	Duty cycle	)	: Cont.(S1)	
Rated torque	:	221 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	250 %	Temperature rise Design		: 80 K	
Rated speed	:	2970 rpm			: B	
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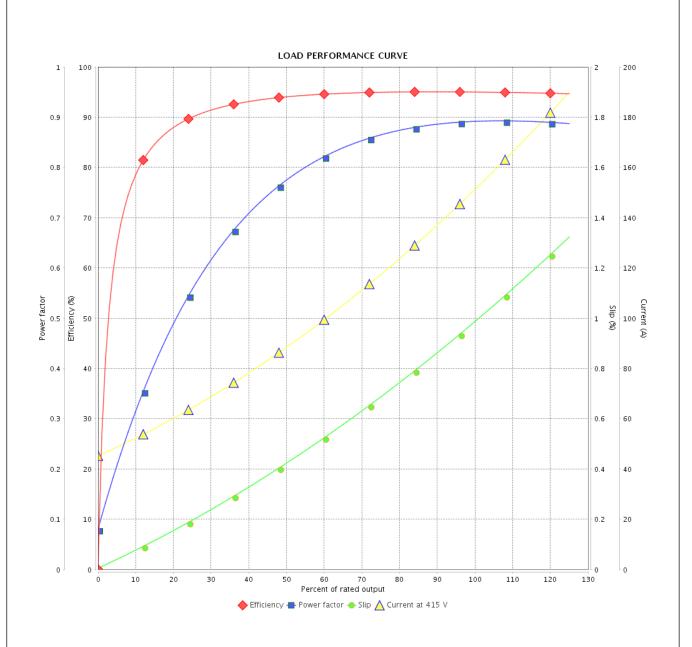
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 148 A : 7.3 : 221 ft.lb : 200 % : 280 % : 2970 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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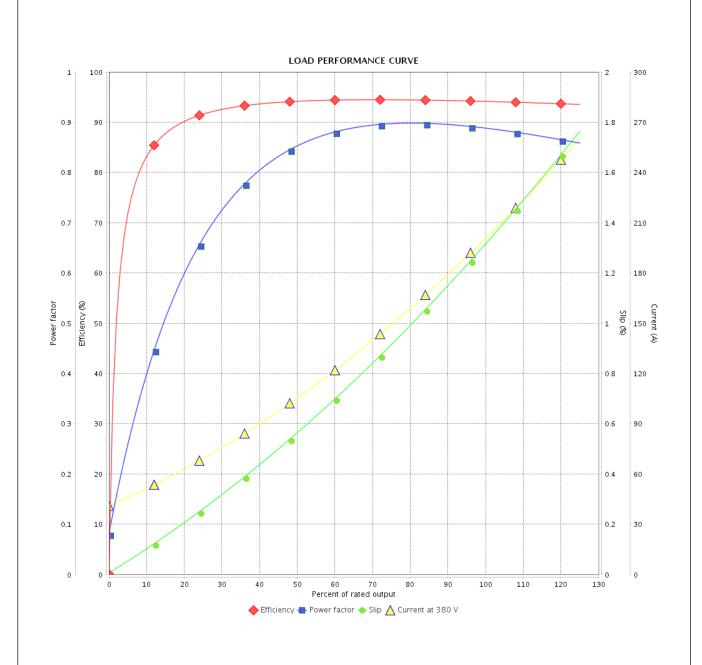
Customer

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Phase

Catalog #: 15036ET3E445TS-W22

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 200 A : 5.1 : 266 ft.lb : 140 % : 190 % : 2960 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



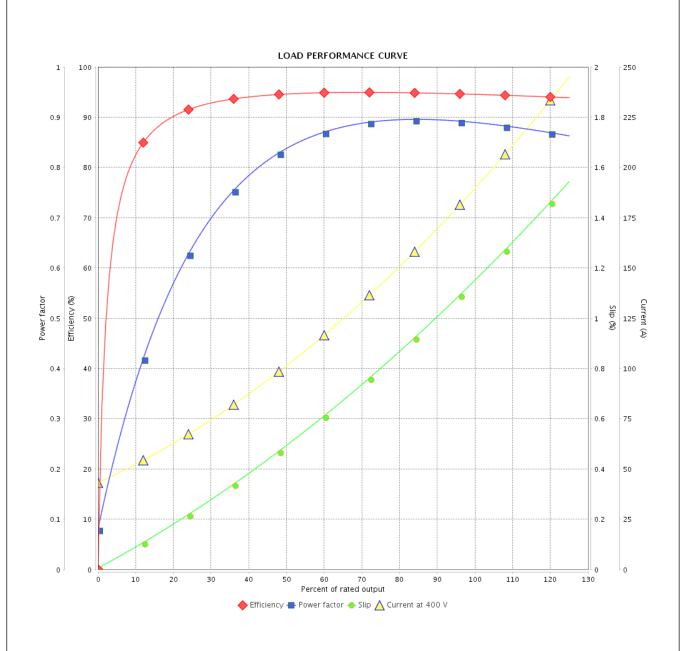
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11165997

Catalog #: 15036ET3E445TS-W22



Performance : 400 V 50 Hz 2P IE2 : 189 A Rated current Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision 14/36 Date 13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

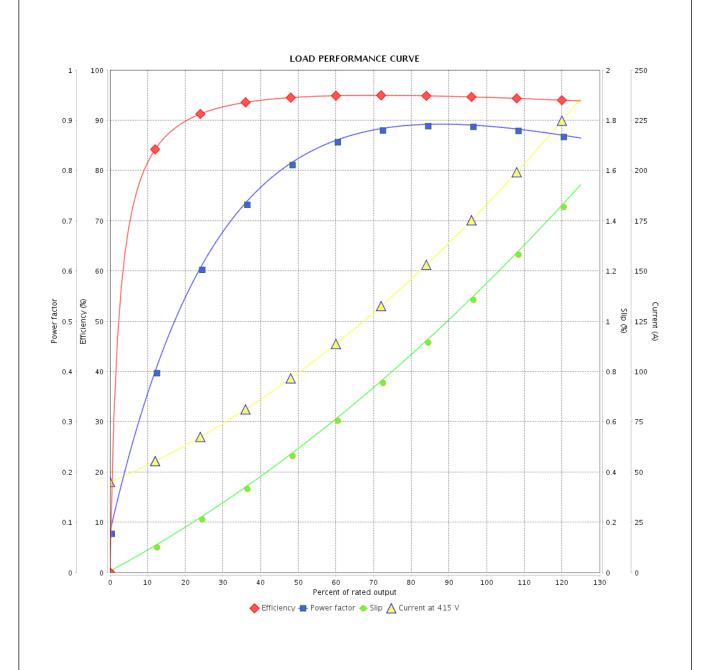


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	: 1	82 A	Moment of	Moment of inertia (J)		
LRC	: 6	.1	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2	66 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperature rise		: 80 K	
Rated speed : 2965		965 rpm	Design		: B	
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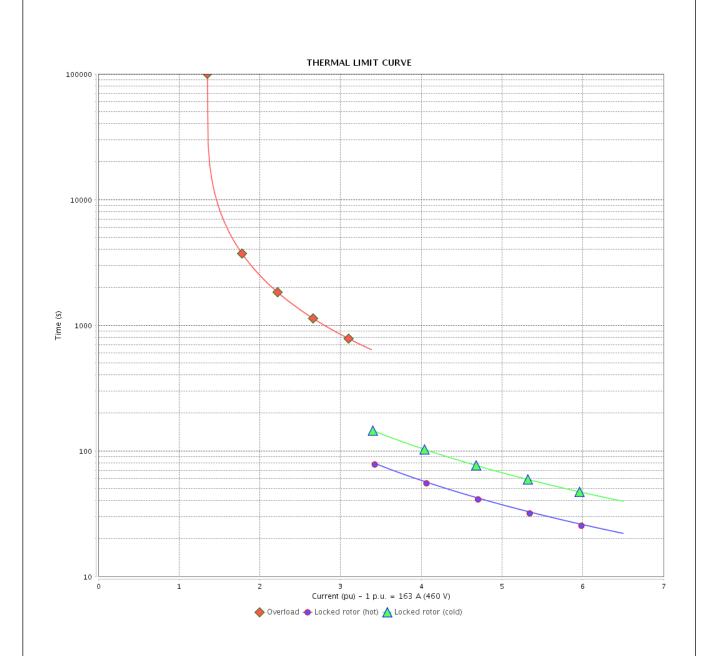


Customer	:					
Product line	: NI Pha	EMA Premium Efficiency ase		Product code :	11165997 15036ET3E44	15TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 326 : 6.5 : 221 : 180 : 240	l ft.lb ) %	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	C	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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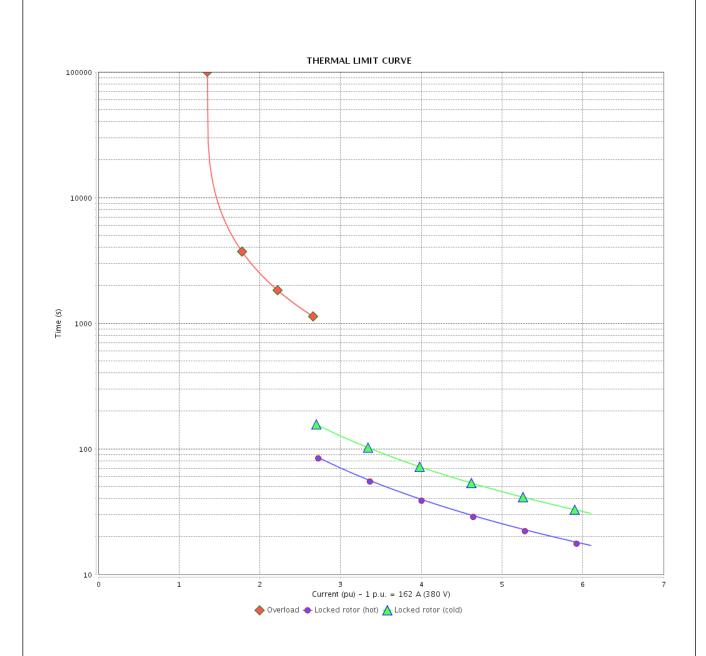


Customer	:					
Product line		NEMA Premium Efficiency ∃ hase	Three-	Product code :	11165997	
			(	Catalog # :	15036ET3E4	45TS-W22
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 6. : 22 e : 17 : 22	62 A 1 21 ft.lb 70 % 29 % 965 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Cooling constant Rev.		Changes Summers	I	Performed	Checked	Date
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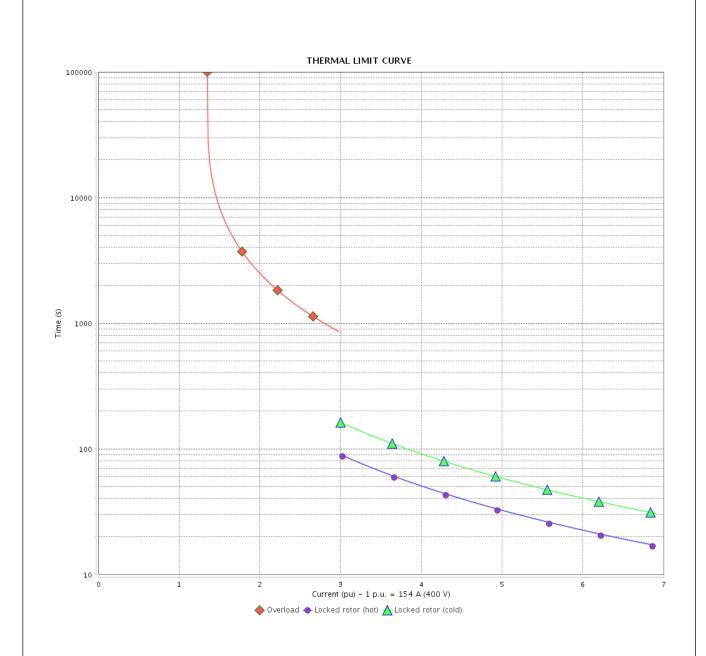


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165997 15036ET3E44	15TS-W22
Performance		: 400 V 50 Hz 2P IE3	Mamanta	of in outin (1)	. 20 4 - 4 16	
Rated current LRC		: 154 A : 6.9	Duty cycle		: 39.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 221 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 80 K	
Rated speed		: 2970 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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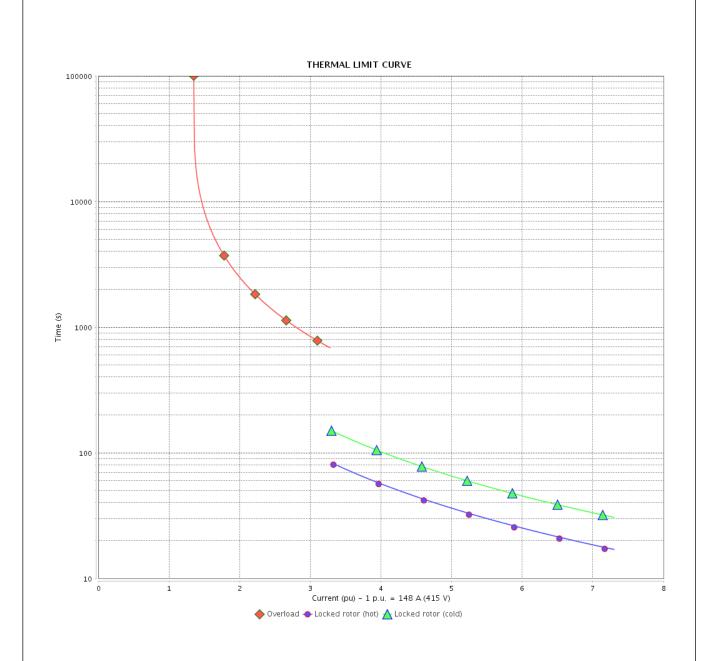


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Product line		: NEMA Premium Efficiency Phase		Product code :	11165997 15036ET3E44	95TS-W22
				Catalog # :	15036ET3E44	STS-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant Cooling constant	que ue t	2415 V 50 Hz 2P IE3 2148 A 27.3 2221 ft.lb 200 % 280 % 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

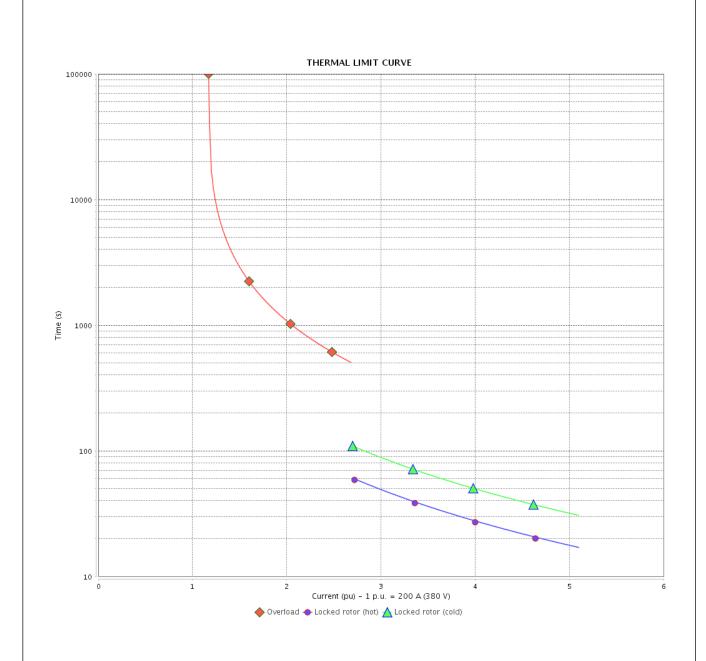


Customer	·				•
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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11165997	
	1 HdSC		Catalog # :	15036ET3E44	15TS-W22
Performance	: 380 V 50 Hz 2P IE1		e+(+	00.1 5.1	
Rated current LRC Rated torque Locked rotor torque	: 200 A : 5.1 : 266 ft.lb : 140 %	Duty cycle Insulation Service fa	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 190 % : 2960 rpm	Temperatu Design	ıre rise	: 105 K : B	
Heating constant					
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

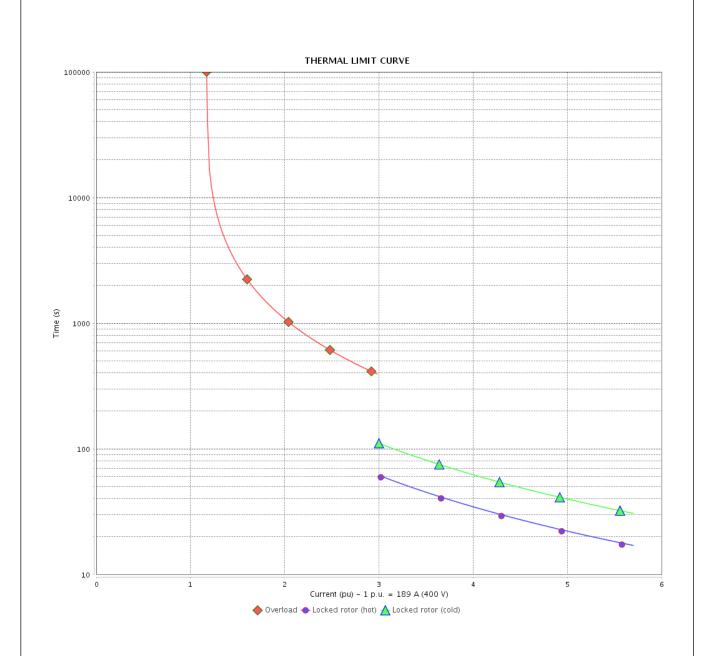


Customer	:					
Product line		NEMA Premium Efficiency nase		Product code :	11165997 15036ET3E44	15TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18 : 5. : 20 : 10 : 2	00 V 50 Hz 2P IE2 39 A 7 66 ft.lb 60 % 10 % 965 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 39.1 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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### Three Phase Induction Motor - Squirrel Cage

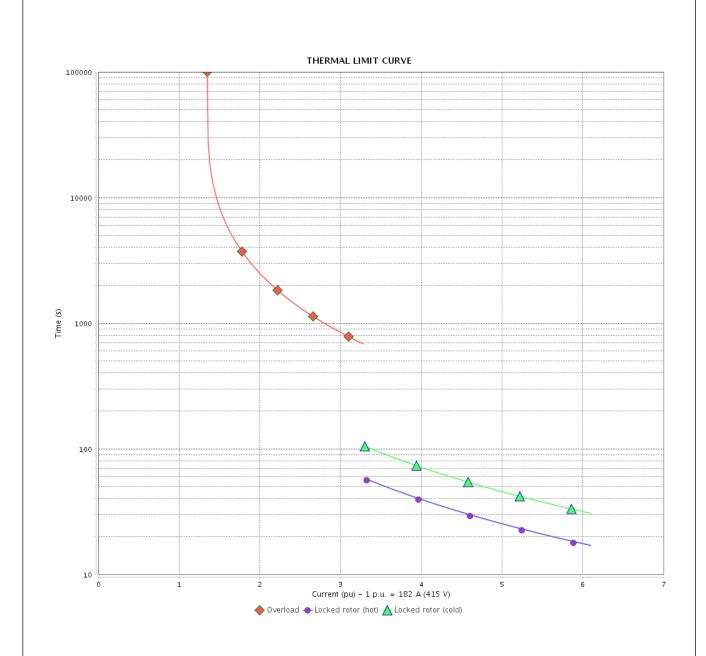


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165997 15036ET3E44	15TS-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 182 A : 6.1	Duty cycle		: 39.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 266 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 80 K	
Rated speed		: 2965 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

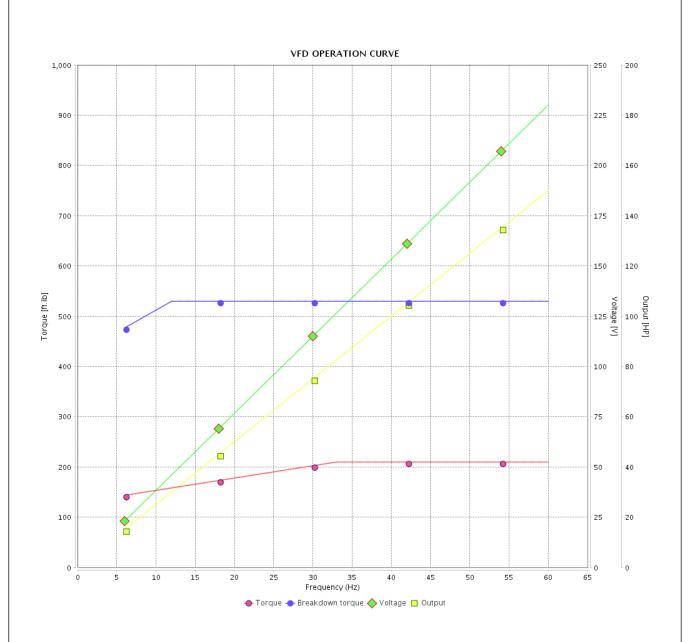
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15036ET3E445TS-W22

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Performance	: 230/460 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 326/163 A : 6.5 : 221 ft.lb : 180 % : 240 % : 3570 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 39.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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#### Three Phase Induction Motor - Squirrel Cage



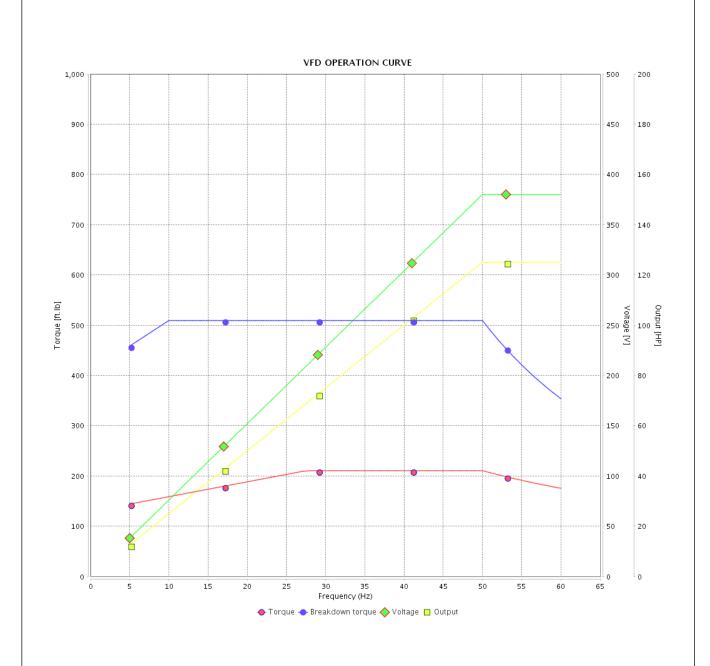
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 162 A : 6.1 : 221 ft.lb : 170 % : 229 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	ev. Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

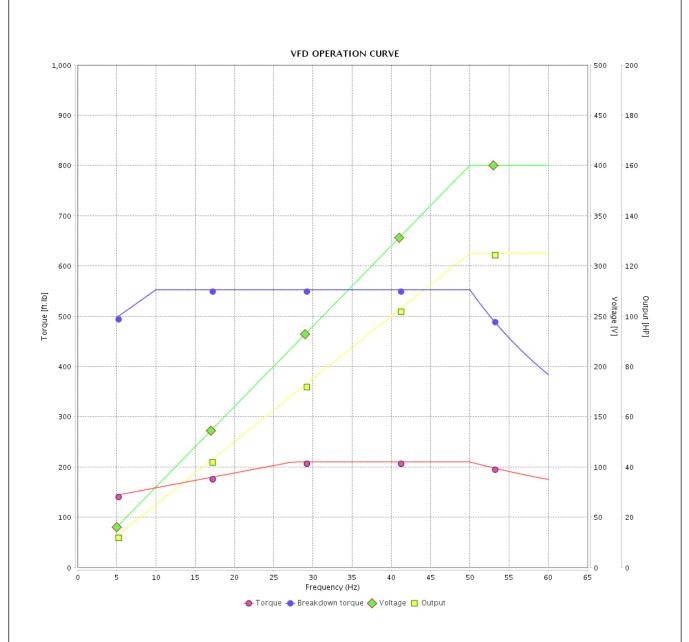
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15036ET3E445TS-W22

11165997

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Performance : 400 V 50 Hz 2P IE3 : 154 A Rated current Moment of inertia (J) : 39.1 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



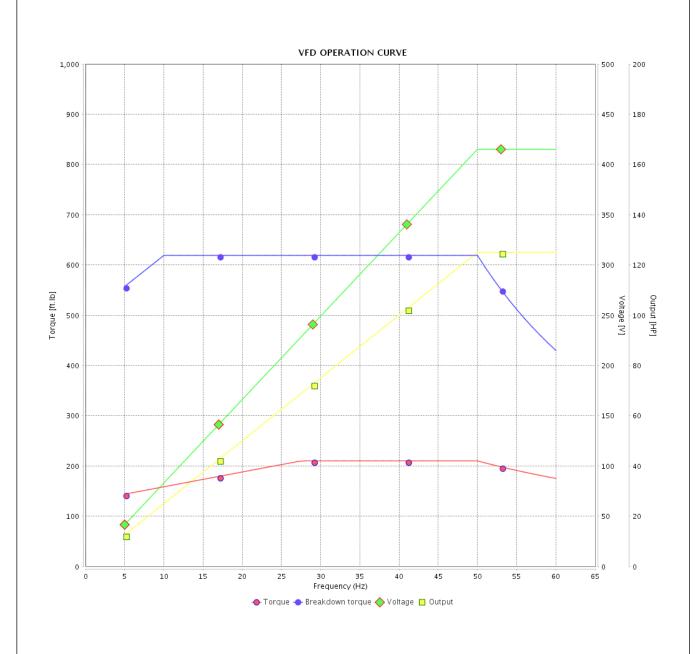
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22

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Performance	: 415 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 148 A : 7.3 : 221 ft.lb : 200 % : 280 % : 2970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by Checked by					Revision		

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

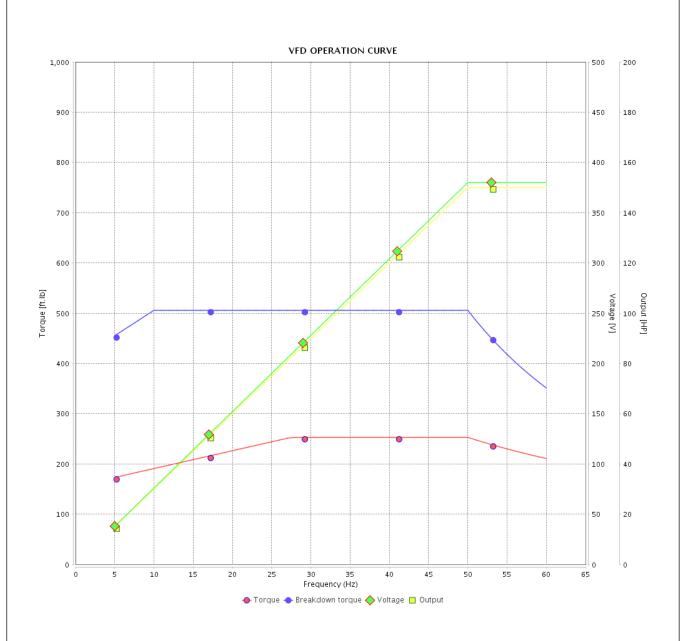
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11165997

Catalog #: 15036ET3E445TS-W22

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Performance	: 380 V 50 Hz 2P IE1				
Rated current	: 200 A	Moment of inertia (J)		: 39.1 sq.ft.lb	
LRC	: 5.1	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.00	
Rated torque	: 266 ft.lb				
Locked rotor torque	: 140 %				
Breakdown torque	: 190 %			: 105 K	
Rated speed	: 2960 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

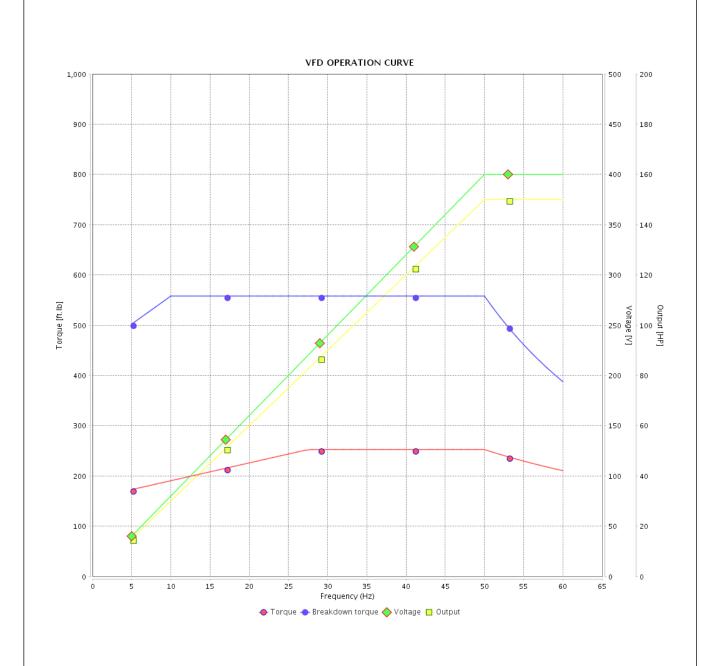


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165997

Phase

Catalog #: 15036ET3E445TS-W22



Performance	: 4	: 400 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 5 : 2 e : 1 : 2	: 210 %		of inertia (J) class ctor ure rise	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K			
Rated speed	: 2	965 rpm	Design	D ( )	: B			
Rev.	Rev. Changes Summary			Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date 13/04/2022				35 / 36				

#### Three Phase Induction Motor - Squirrel Cage



Customer :

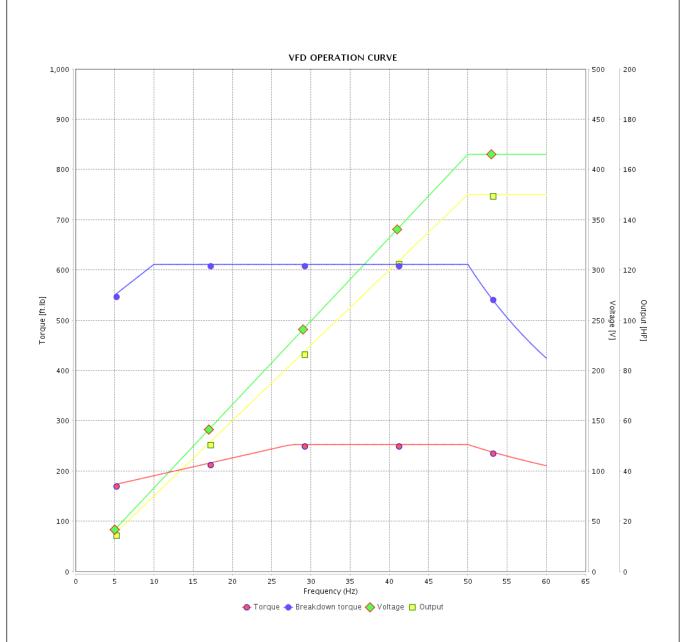
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 15036ET3E445TS-W22

11165997

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D (	445.450.11.00.150							
Performance	: 415 V 50 Hz 2P IE2							
Rated current LRC	: 182 A : 6.1	Moment of inertia (J)  Duty cycle		: 39.1 sq.ft.lb : Cont.(S1)				
Rated torque Locked rotor torque	: 266 ft.lb : 170 %	Insulation class Service factor		: F : 1.00				
Breakdown torque	: 229 %	Temperature rise		: 80 K				
Rated speed	: 2965 rpm	Design		: B				
Rev.	Changes Summary		Performed	Checked	Date			
Performed by								
Checked by				Page	Revision			

13/04/2022

