DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356033

Phase

Catalog #: 12512ET3G445T-W22

Frame : 444/5T 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 : 1797 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 1797 lb
Protection degree : IP55 Moment of inertia (J) : 104 sq.ft.lb

Design : B Output [HP] 125 100 100 100 125 125 125 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 400 380 400 460 380 415 415 Rated current [A] 172 143 143 138 130 165 160 L. R. Amperes [A] 915 877 941 915 980 991 992 LRC [A] 6.4x(Code 6.4x(Code | 7.1x(Code H) | 7.6x(Code J) | 5.1x(Code E) | 5.7x(Code F) | 6.2x(Code G) G) G) No load current [A] 56.0 55.4 59.3 62.3 55.4 59.3 62.3 Rated speed [RPM] 1185 985 985 980 980 985 985 2.00 Slip [%] 1.25 1.50 1.50 1.50 2.00 1.50 Rated torque [ft.lb] 554 533 533 533 670 670 666

Locked rotor torque [%] 210 200 229 250 160 180 200 Breakdown torque [%] 190 240 240 260 290 210 229 Service factor 1.15 1.00 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K 27s (cold) 27s (cold) Locked rotor time 34s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 19s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 69.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 95.2 94.9 94.8 94.8 95.7 95.7 95.7 50% 95.0 94.8 94.7 94.7 95.0 95.0 95.0 Efficiency (%) 75% 95.4 94.9 94.9 95.1 94.5 94.5 95.0 100% 95.0 94.6 94.6 94.8 93.6 93.6 94.1 25% 0.45 0.43 0.40 0.38 0.51 0.47 0.44 50% 0.70 0.68 0.65 0.62 0.76 0.73 0.70 Power Factor

0.77

0.75

0.79

Sealing : WSeal WSeal Max. compression : 4985 lb
Lubrication interval : 13000 h
Lubricant amount : 45 g 34 g

Mobil Polyrex EM

Notes

Lubricant type

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).

75%

0.79

- (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.

0.82

0.81

0.79

0.83

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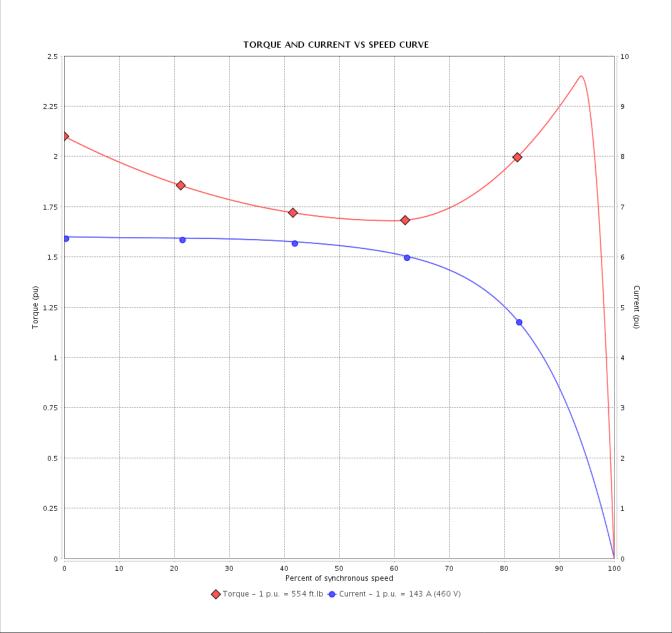
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance : 460 V 60 Hz 6P Rated current : 143 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 554 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11356033 Catalog #: 12512ET3G445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75

1										\	4
0.75											3
0.5											2
0.25											
0	0 1	10 2	0 30			: 50 6 chronous speed		0 8	0 90)	100
			♦ To	rque – 1 p.u. =	= 533 ft.lb 🔷	Current – 1 p.u	ı. = 143 A (380) V)			
Performar	nce	:	380 V 50 H	lz 6P IE3							
Rated cur LRC Rated tord		:	143 A 6.4 533 ft.lb		D	floment of in Outy cycle Insulation cl		: 1 : C : F	04 sq.ft.lb cont.(S1)		

Service factor

Design

Temperature rise

: 1.00

: 80 K : B

Locked rotor torque

Breakdown torque

Rated speed

: 200 %

: 240 %

: 985 rpm

Three Phase Induction Motor - Squirrel Cage



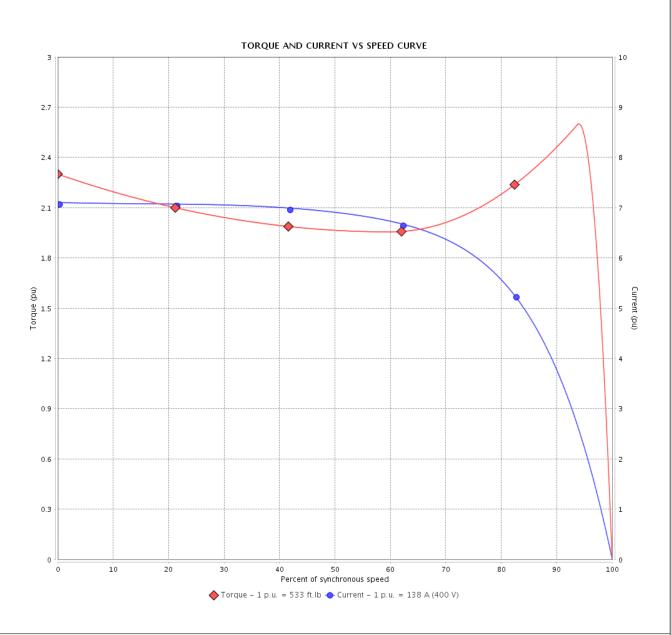
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 7.1 : 533 ft.lb : 229 % : 260 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	

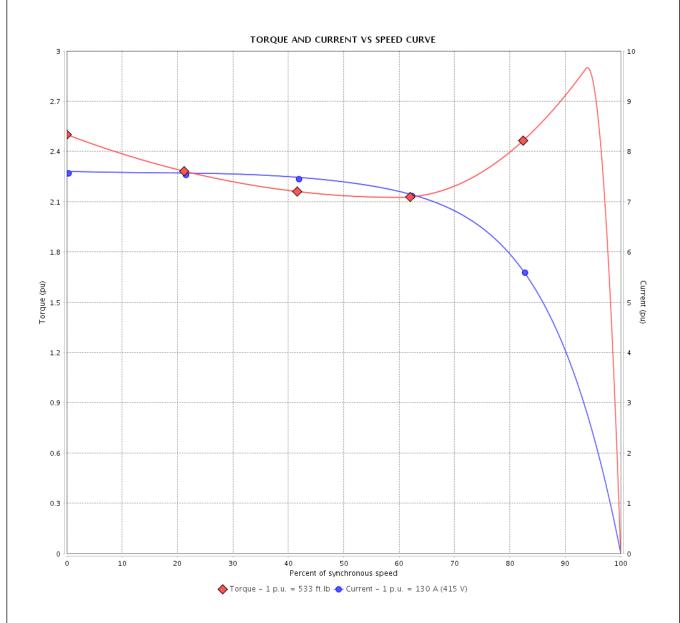
Locked rotor time : 27s (cold) 15s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11356033 Catalog #: 12512ET3G445T-W22



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 130 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class	: 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)			

LOCKCO TOTOL UITI	. 2	73 (cold) 103 (flot)			
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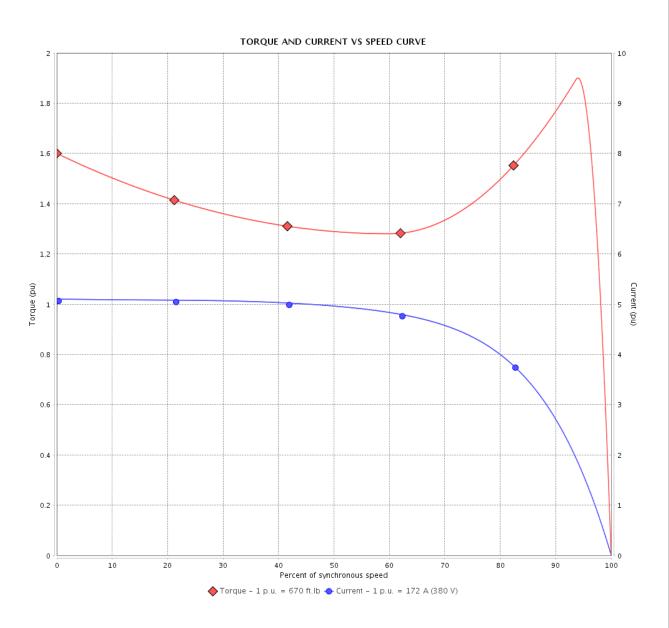
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 172 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 670 ft.lb	Insulation class	:F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 980 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: 11356033 Catalog #: 12512ET3G445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (bd) 1.25 0.5 0.25 40 50 Service of Synchronous speed ◆ Torque - 1 p.u. = 670 ft.lb ◆ Current - 1 p.u. = 165 A (400 V)

Performance	: 400 V 50 Hz 6P IE1		
Rated current	: 165 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 670 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)	I	

LOCKEU TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
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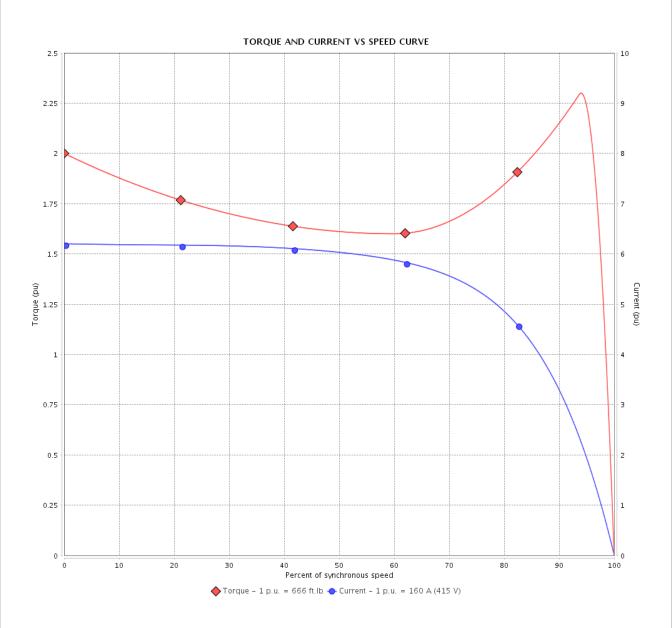
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 160 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 666 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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

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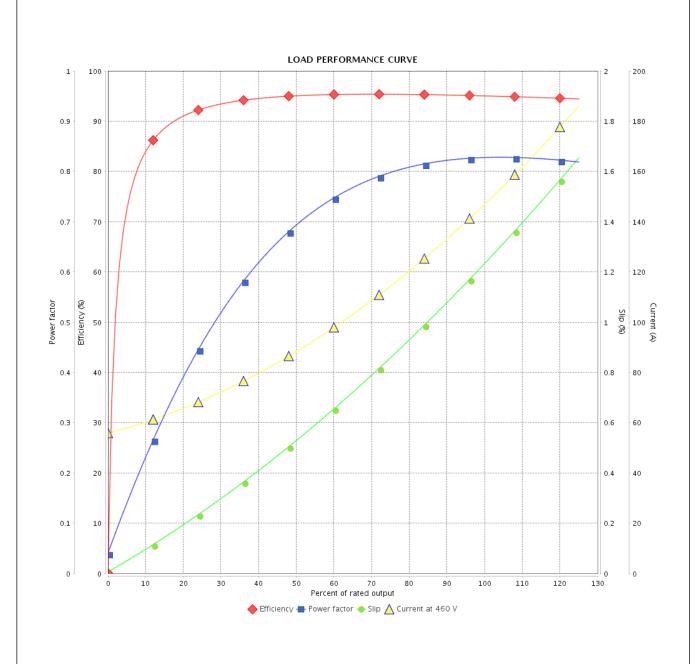
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356033

Phase

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.4 : 554 ft.lb : 210 % : 240 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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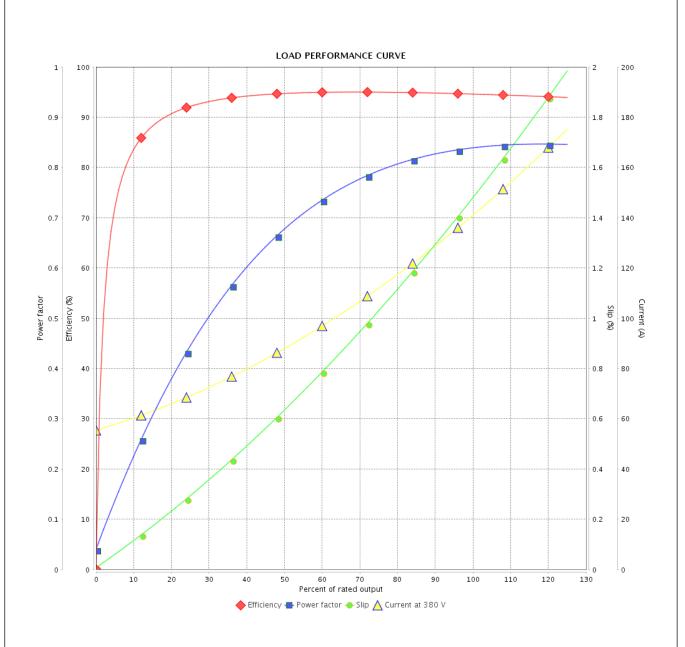
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Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 que : 2 ue : 2	43 A .4 33 ft.lb 00 % 40 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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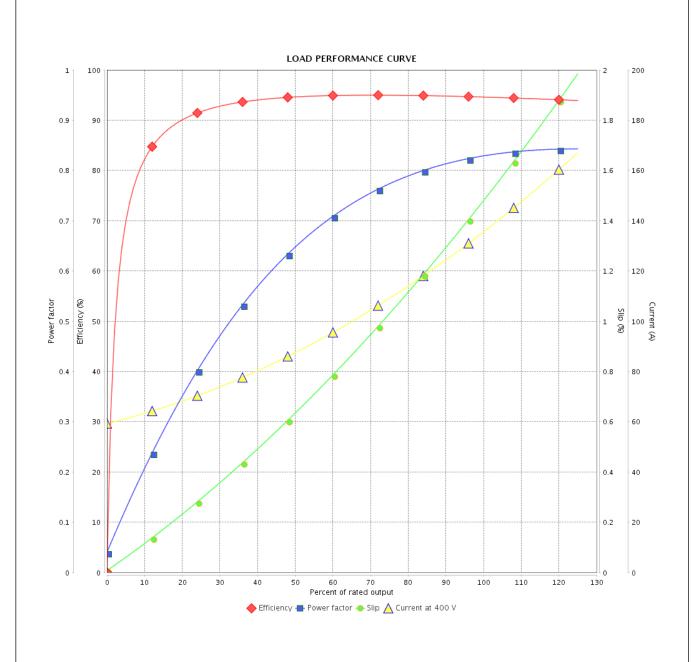
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Performance	: 400 V 50 Hz 6P IE3				
Rated current : 138 A LRC : 7.1		Moment of inertia (J) Duty cycle		: 104 sq.ft.lb : Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class		: F	
Locked rotor torque Breakdown torque	: 229 % : 260 %	Service factor Temperature rise		: 1.00 : 80 K	
Rated speed	: 985 rpm	Design		: B	
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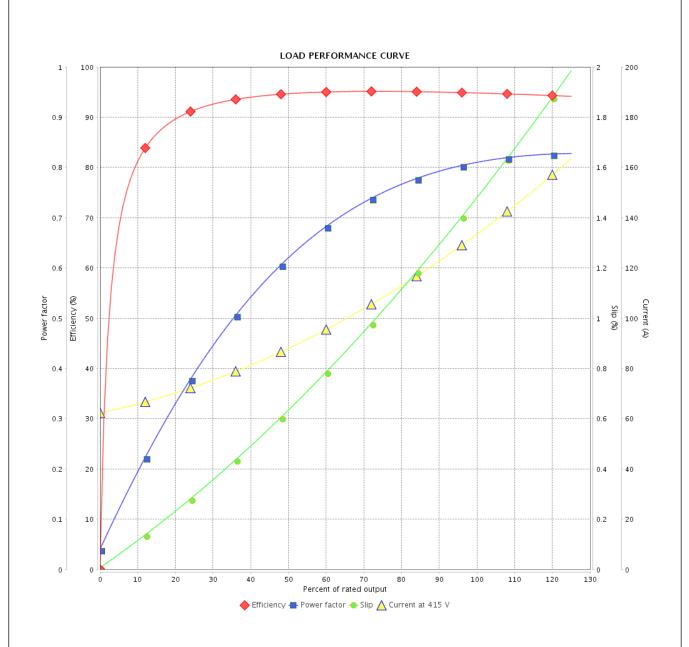
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Performance		: 415 V 50 H	Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 130 A : 7.6 : 533 ft.lb : 250 % : 290 % : 985 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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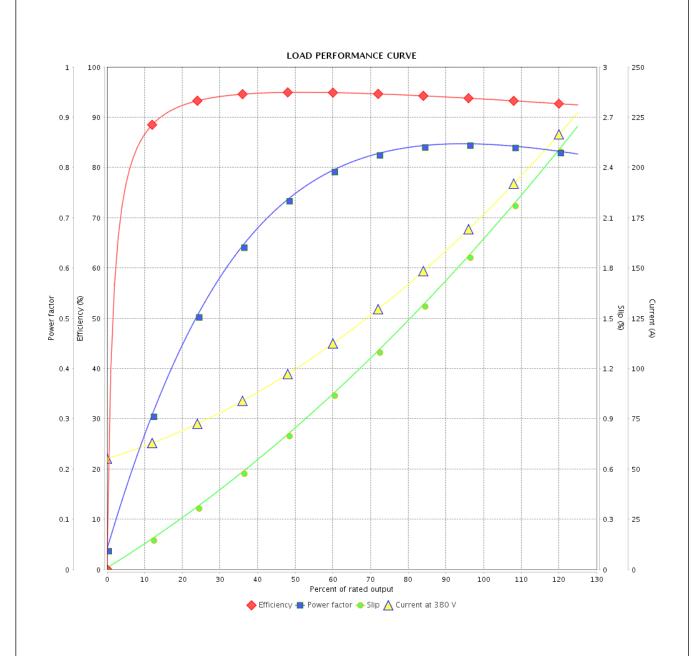
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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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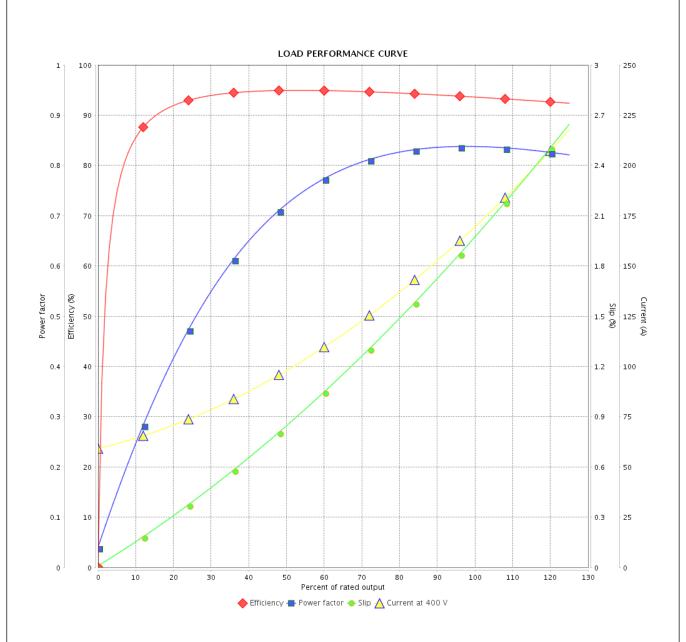
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC	: 165 A : 5.7	Moment of inertia (J) Duty cycle		: 104 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 670 ft.lb : 180 %	Insulation class Service factor Temperature rise Design		: F : 1.00	
Breakdown torque Rated speed	: 210 % : 980 rpm			: 105 K : B	
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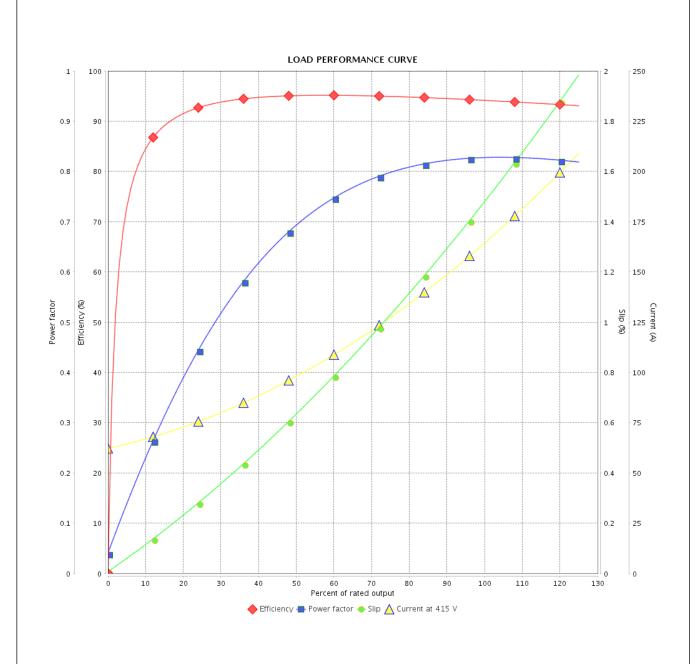
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356033

Phase

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Performance	: 415 V 50 Hz 6P IE2				
Rated current : 160 A Moment of iner LRC : 6.2 Duty cycle Rated torque : 666 ft.lb Insulation class Locked rotor torque : 200 % Service factor Breakdown torque : 229 % Temperature rise Rated speed : 985 rpm Design		lass	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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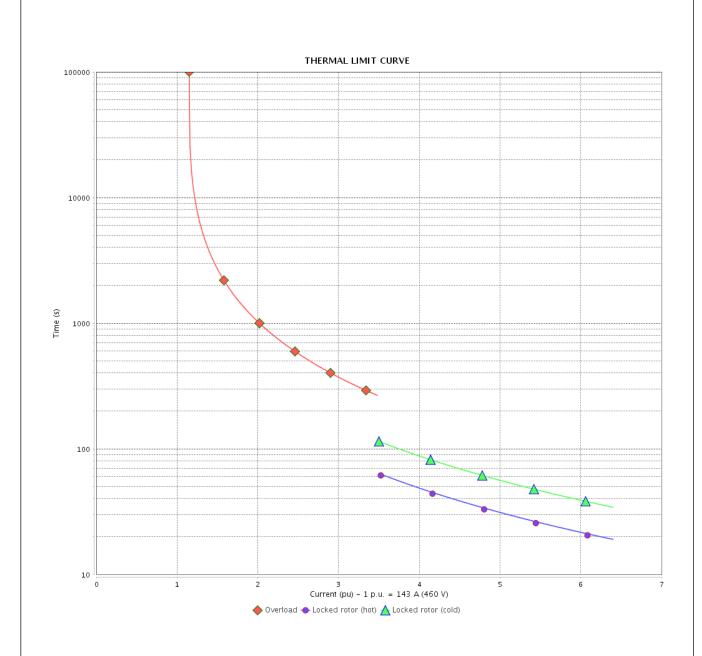


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356033 12512ET3G4	45T-W22
					1201221001	101 1122
Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 143 A : 6.4	Moment of Duty cycle	of inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 554 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 210 % : 240 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1185 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0				
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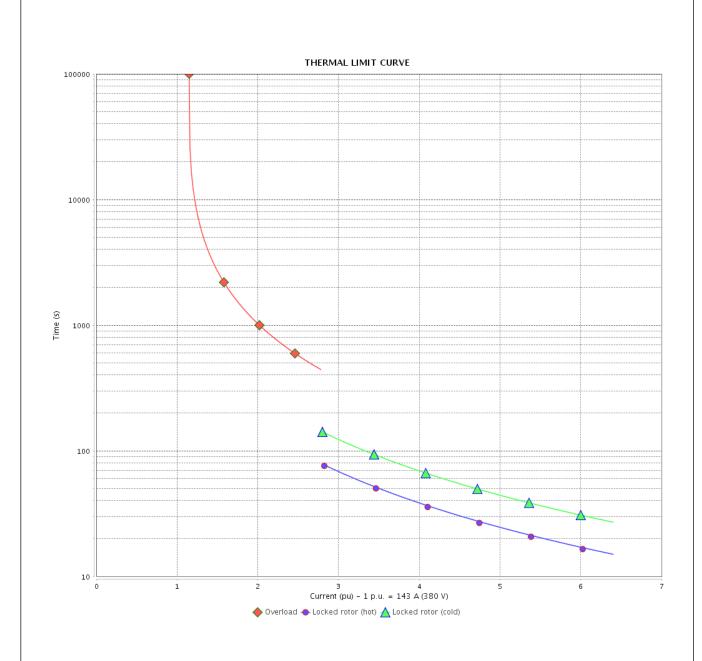


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11356033	
		Priase		Catalog # :	12512ET3G4	45T-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 143 A : 6.4	Moment of Duty cycle	of inertia (J) e	: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 533 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	a. 5 1100	: B	
Heating constan	t					
Cooling constant						
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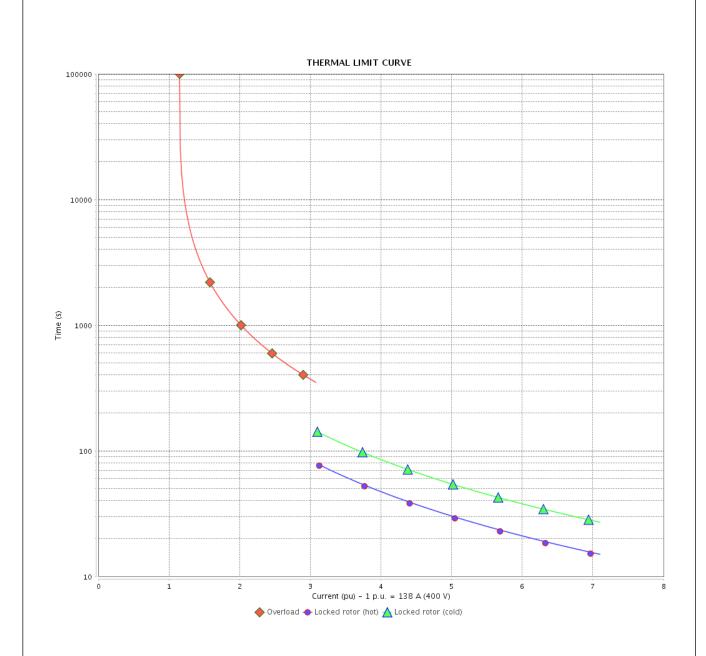


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11356033	
		Phase		Catalog # :	12512ET3G4	45T-W22
Performance		. 400 V 50 H= CD IE2				
Rated current		: 400 V 50 Hz 6P IE3 : 138 A	Moment o	of inertia (J)	: 104 sq.ft.lb	
LRC		: 7.1	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		: 533 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 260 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
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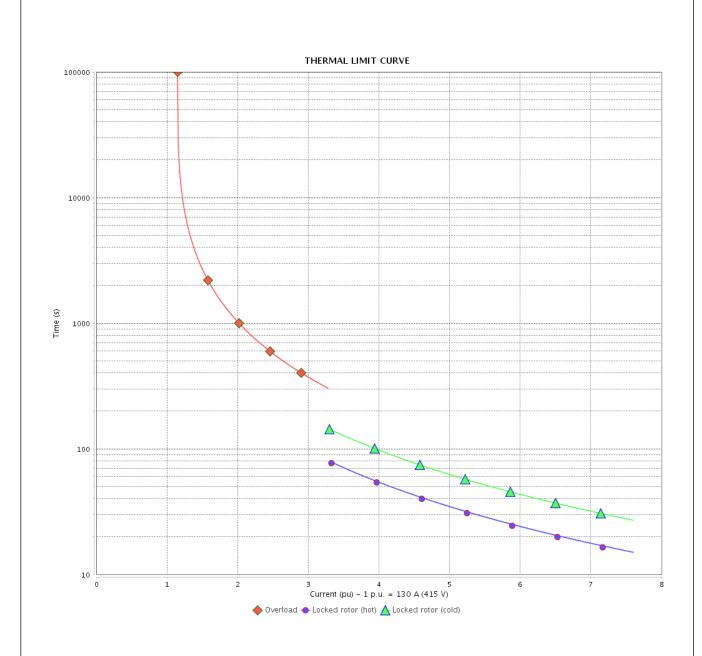


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356033 12512ET3G4	45T-W22
Performance		415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	130 A 7.6 533 ft.lb 250 % 290 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
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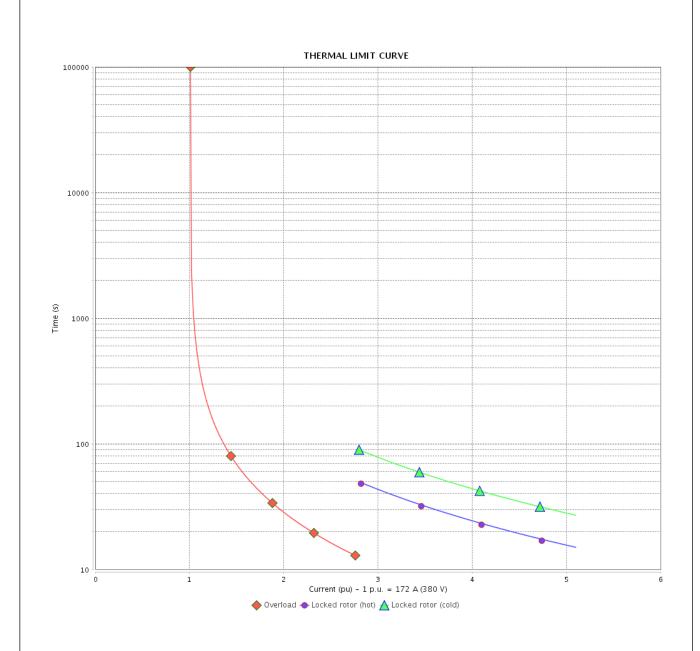


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11356033	
		Phase		Catalog # :	12512ET3G4	45T-W22
Performance		: 380 V 50 Hz 6P IE1 : 172 A	Moment	of inactio (1)	: 104 og ft lb	
Rated current LRC		: 1/2 A : 5.1	Duty cycle	of inertia (J) e	: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 670 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 980 rpm	Design	uie lise	: B	
Heating constan						
Cooling constan						
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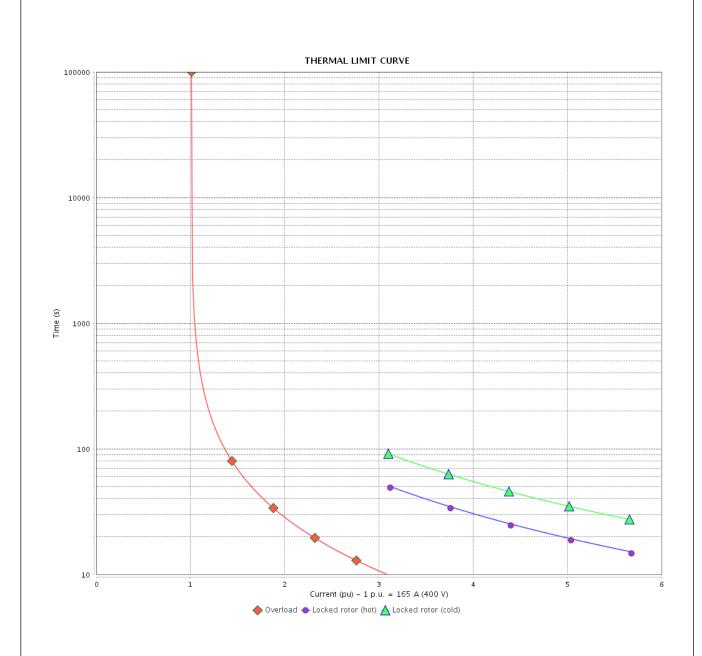


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11356033	
				Catalog # :	12512ET3G4	45T-W22
Performance		: 400 V 50 Hz 6P IE1				
Rated current		: 165 A	Moment of	of inertia (J)	: 104 sq.ft.lb	
LRC		: 5.7	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 670 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 210 %	Temperat		: 105 K	
Rated speed		: 980 rpm	Design		: B	
Heating constan	t					
Cooling constant	t			Ţ	1	
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Three Phase Induction Motor - Squirrel Cage



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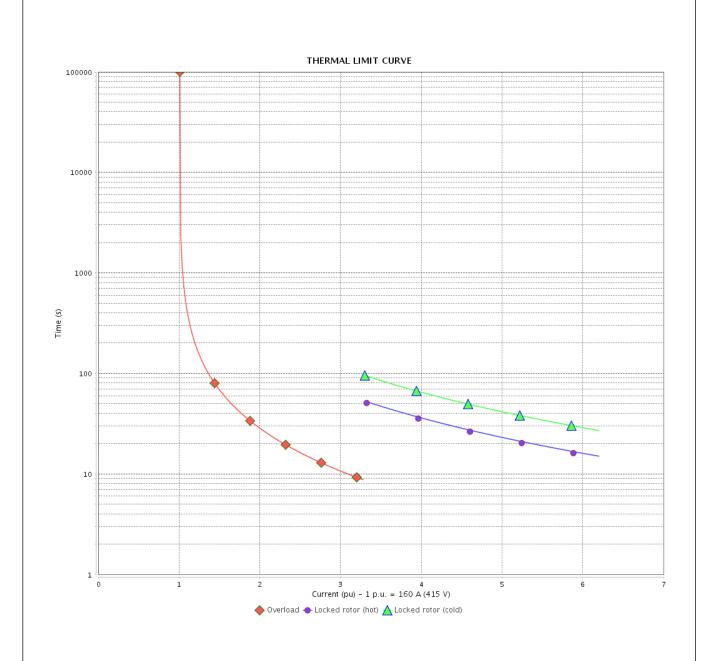


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	11356033	
	1 !	11430		Catalog # :	12512ET3G4	45T-W22
Dorformana		15 V 50 U= 6D IF2				
Performance Rated current		15 V 50 Hz 6P IE2 60 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 6.	2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		66 ft.lb 00 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	: 22	29 % 35 rpm	Temperatu	ıre rise	: 105 K : B	
		50 ipili	Design		. D	
Heating constant Cooling constant						
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Phase

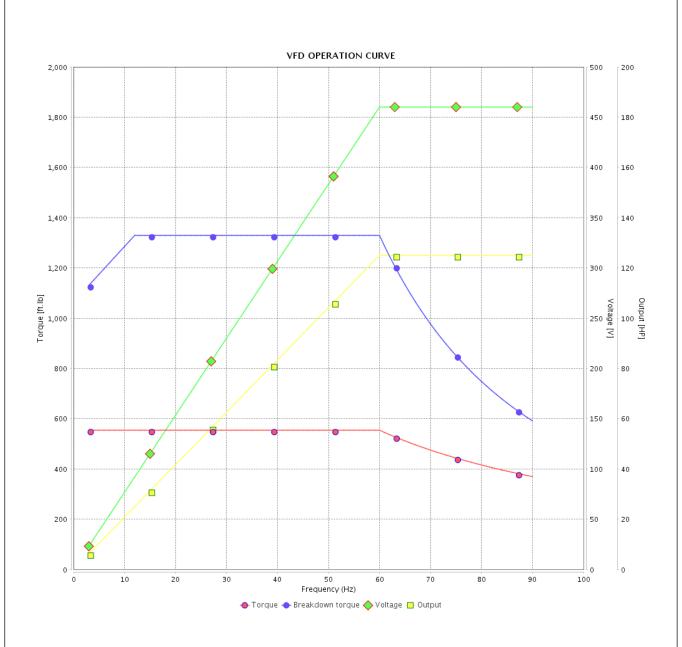
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Catalog #: 12512ET3G445T-W22

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Performance : 460 V 60 Hz 6P : 143 A Rated current Moment of inertia (J) : 104 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 554 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

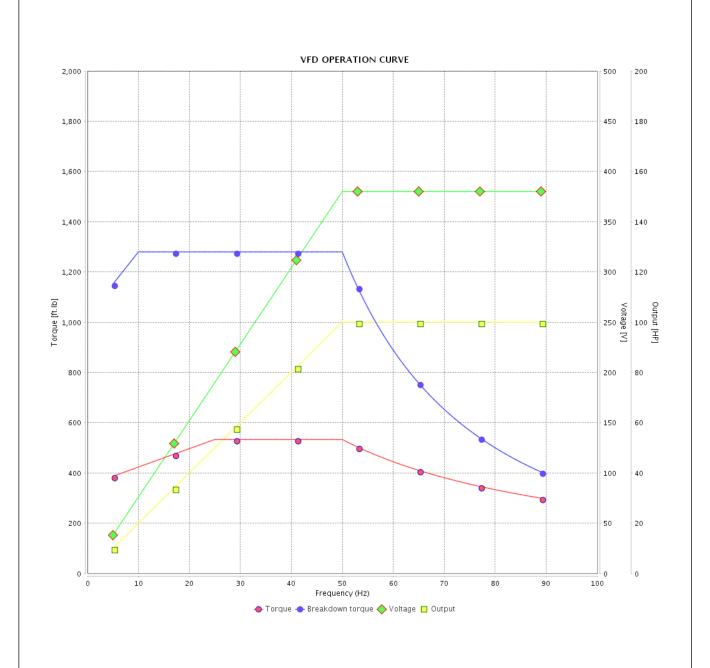


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 12512ET3G445T-W22

11356033



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 1	43 A	3 A Moment of inertia (J)		: 104 sq.ft.lb	
LRC	: 6	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	33 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	ıe : 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



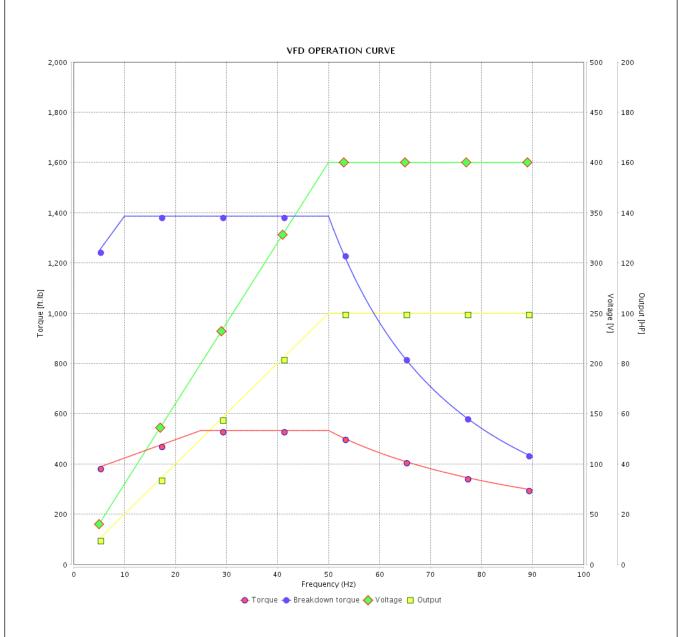
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11356033

Catalog #: 12512ET3G445T-W22



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 7.1 : 533 ft.lb : 229 % : 260 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Performed by Checked by				Page	Revision

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Three Phase Induction Motor - Squirrel Cage



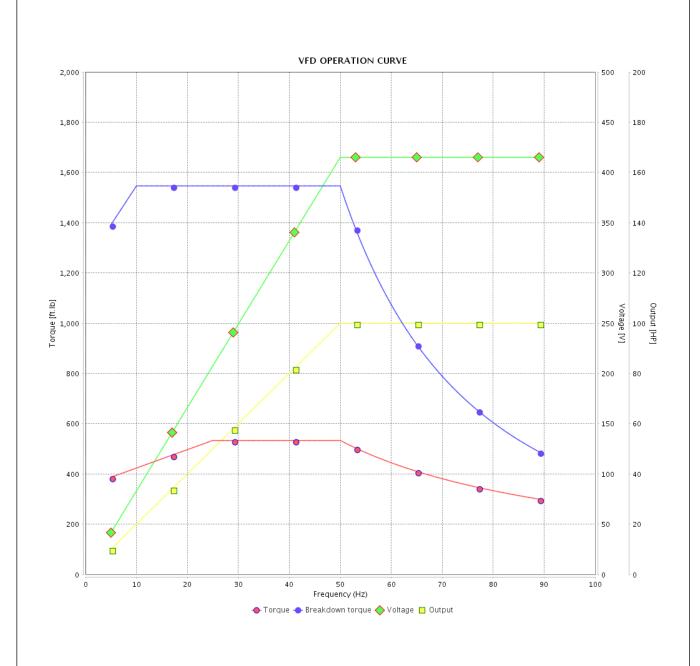
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ET3G445T-W22

11356033



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1:	30 A Moment of in		f inertia (J)	: 104 sq.ft.lb	
LRC	: 7.	.6	Duty cycle	; · ·	: Cont.(S1)	
Rated torque	: 53	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 29	90 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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Performed by						
Checked by		-			Page	Revision
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Three Phase Induction Motor - Squirrel Cage



12512ET3G445T-W22

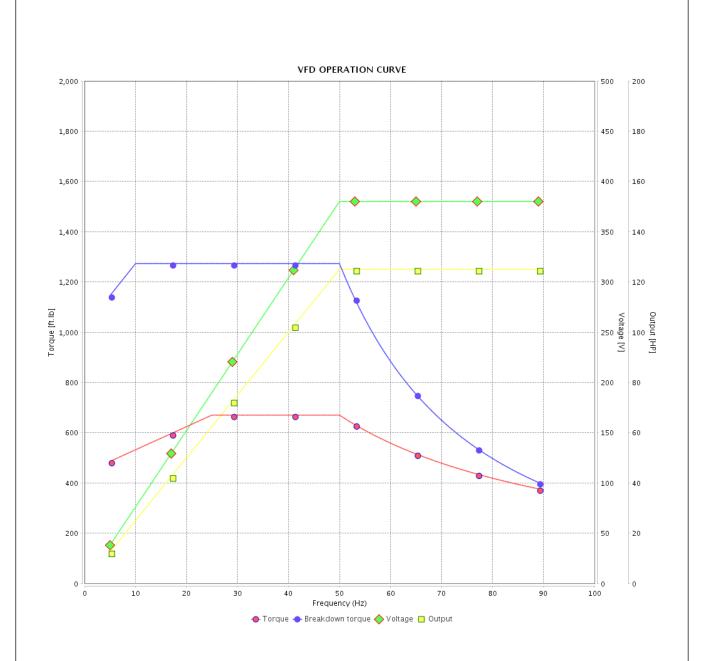
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11356033

Catalog #:



Performance	: 38	30 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 67 que : 16 ue : 19	72 A 1 70 ft.lb 60 % 90 % 80 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Date

Three Phase Induction Motor - Squirrel Cage

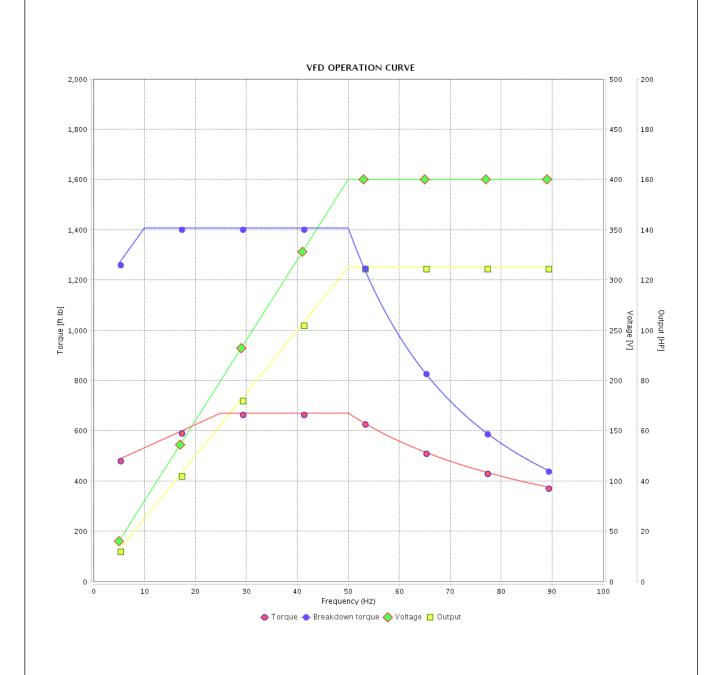


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356033

Phase

Catalog #: 12512ET3G445T-W22



			. <u>.</u>					
Performance		: 400 V 50 Hz 6P IE1						
Rated current		65 A	Moment o	Moment of inertia (J)				
LRC :		7	Duty cycle		: Cont.(S1)			
Rated torque		70 ft.lb Insulation class		: F				
Locked rotor torque		30 %	Service factor		: 1.00			
Breakdown torqu	ie : 2	10 %	Temperature rise		: 105 K			
Rated speed	: 98	: 980 rpm			: B			
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Performed by								
Checked by					Page	Revision		
Date	13/04/2022				35 / 36			

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

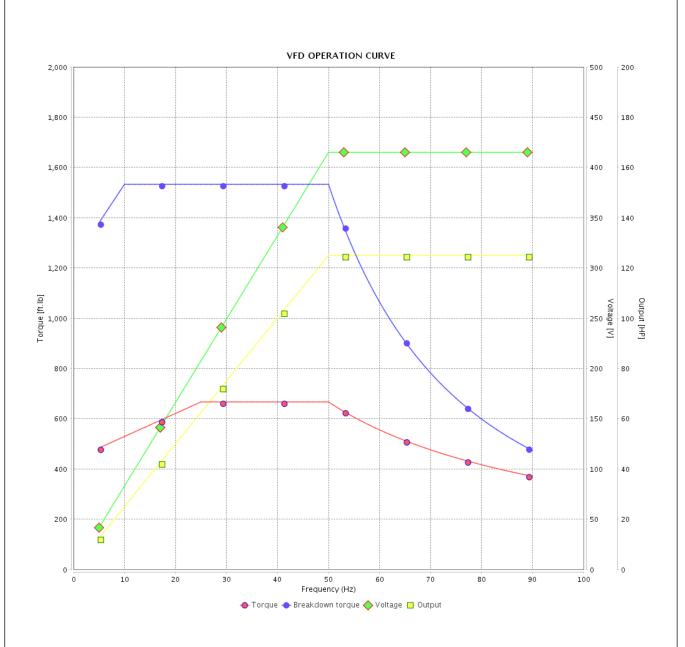
Product code: 11356033

Catalog #: 12512ET3G445T-W22

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Revision



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 160 A : 6.2 : 666 ft.lb : 200 % : 229 % : 985 rpm	: 6.2 Duty cycle : 666 ft.lb Insulation of Service factors 229 % Temperature		e : Cont.(S1) class : F actor : 1.00	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

