DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441852

Phase

2.39/1.20

1160

3.33

Catalog #: 00112ET3E145T-W22

1.18

940

6.00

1.28

950

5.00

1.36

950

5.00

Frame : 143/5T 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 : 54.0 lb
Protection degree : IP55 Moment of inertia (J) : 0.1595 sq.ft.lb

1.18

960

4.00

Design : B

No load current [A]

Rated speed [RPM]

Slip [%]

Output [HP]	1	0.75	0.75	0.75	1	1	1
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	3.46/1.73	1.60	1.62	1.66	1.96	1.94	1.95
L. R. Amperes [A]	21.5/10.7	9.28	9.88	10.5	9.41	10.1	10.7
LRC [A]	6.2x(Code K)	5.8x(Code K)	6.1x(Code L)	6.3x(Code	4.8x(Code	5.2x(Code H)	5.5x(Code
				M)	G)		

1.28

970

3.00

1.36

970

3.00

- P. F 3								
Rated torque [ft.lb]]	4.53	4.10	4.06	4.06	5.59	5.53	5.53
Locked rotor torqu	e [%]	260	280	300	320	200	229	250
Breakdown torque	[%]	300	310	330	340	220	260	280
Service factor	ervice factor		1.00	280 300 320 200 310 330 340 220 1.00 1.00 1.00 1.00 80 K 80 K 80 K 80 K 36s (cold) 36s (cold) 36s (cold) 36s (cold) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 73.6 71.6 68.6 77.6 74.8 73.2 70.7 77.0 78.4 77.5 75.8 80.0 79.3 78.9 77.9 78.5		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		50s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)
		28s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)
Noise level ²		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
	25%	76.0	73.6	71.6	68.6	77.6	76.1	73.4
Efficiency (%)	50%	77.0	74.8	73.2	70.7	77.0	75.5	74.0
Emclericy (70)	75%	82.0	78.4	77.5	75.8	80.0	80.0	78.5
	100%	82.5	79.3	78.9	77.9	78.5	78.5	78.5
	25%	0.25	0.24	0.22	0.21	0.30	0.27	0.25
Power Factor	50%	0.45	0.44	0.41	0.38	0.53	0.49	0.46
FOWEI FACIOI	75%	0.57	0.57	0.53	0.50	0.66	0.62	0.59
	100%	0.66	0.66	0.62	0.59	0.74	0.71	0.68

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

Bearing type : 6205 ZZ 6204 ZZ Max. traction : 108 lb Sealing : V'Ring V'Ring Max. compression : 162 lb Lubrication interval : -

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.82A SF 1.15 SFA 4.39A

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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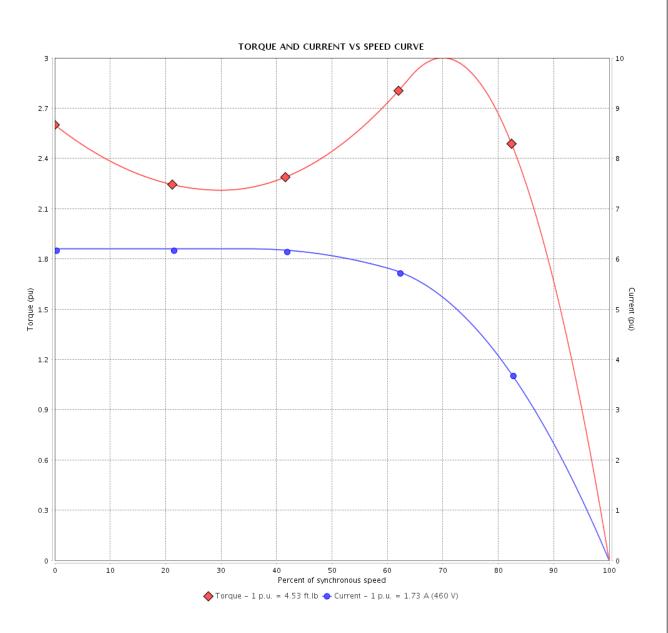
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11441852

Catalog #: 00112ET3E145T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 3.46/1.73 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 4.53 ft.lb : F Service factor Locked rotor torque : 260 % : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1160 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441852 Catalog #: 00112ET3E145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.10 ft.lb ◆ Current - 1 p.u. = 1.60 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 1.60 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 4.10 ft.lb : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary**

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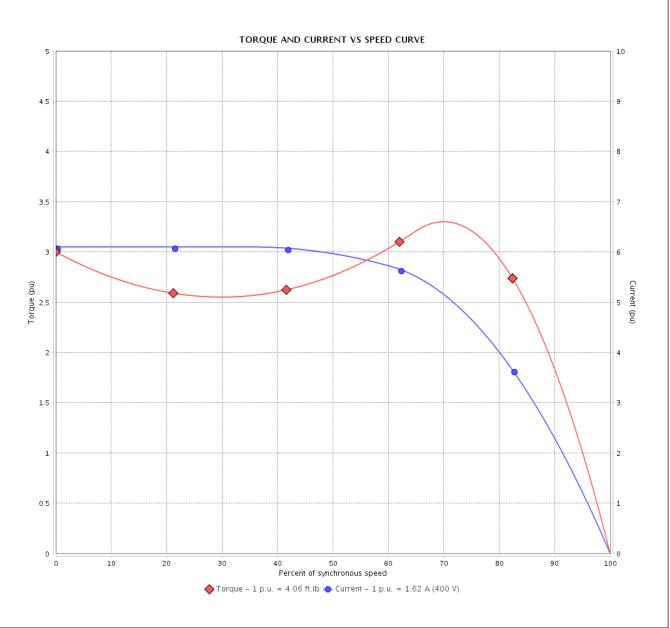


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441852

Phase

Catalog #: 00112ET3E145T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 1.62 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 4.06 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 300 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : B : 970 rpm Design

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441852 Catalog #: 00112ET3E145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.06 ft.lb ◆ Current - 1 p.u. = 1.66 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 1.66 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 4.06 ft.lb Insulation class : F Rated torque : 320 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary**

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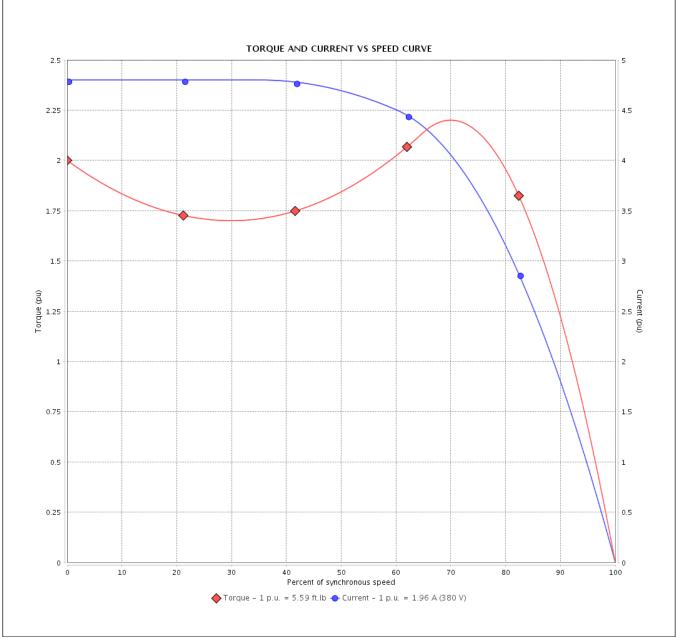
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441852

Catalog #: 00112ET3E145T-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 1.96 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 4.8	Duty cycle	: Cont.(S1)
Rated torque	: 5.59 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 940 rpm	Design	: B
Locked roter time	: 36s (sold) 20s (bot)		

Locked rotor time : 36s (cold) 20s (hot)

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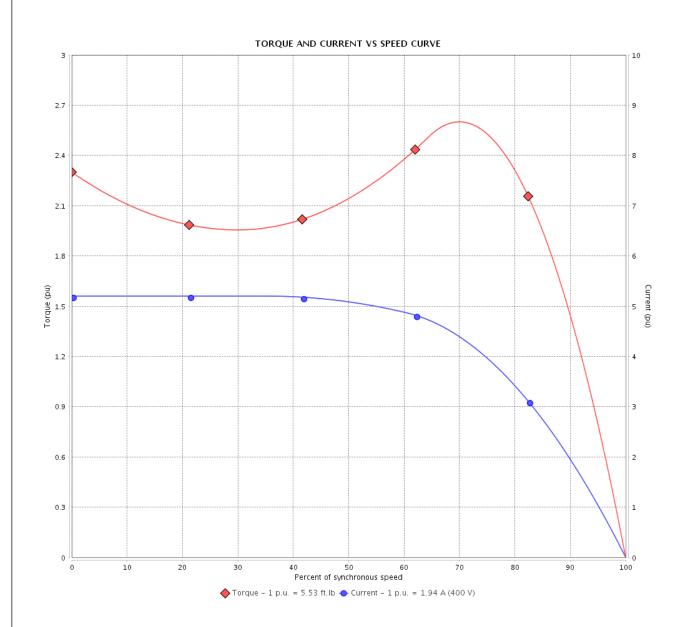


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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441852
Phase

Catalog #:



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 1.94 A	Moment of inertia (J)	: 0.1595 sq.ft.lb	
LRC	: 5.2	Duty cycle	: Cont.(S1)	
Rated torque	: 5.53 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 950 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

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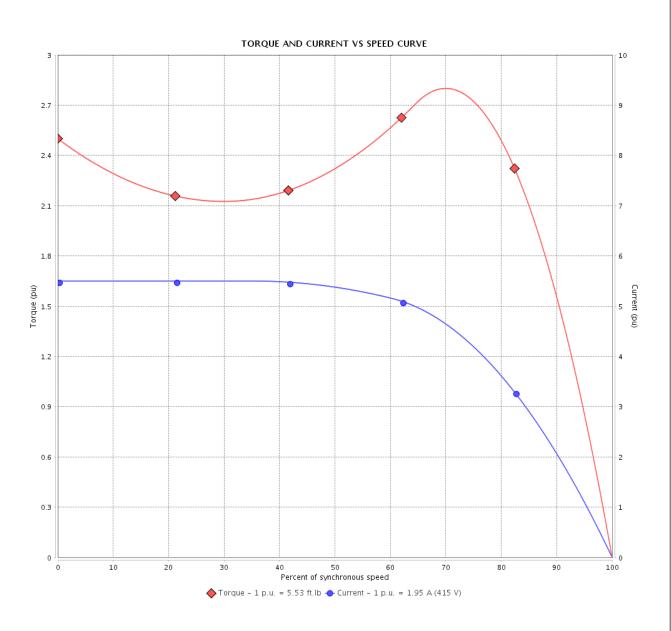
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441852

Catalog #: 00112ET3E145T-W22



Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 1.95 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC Rated torque	: 5.5 : 5.53 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 950 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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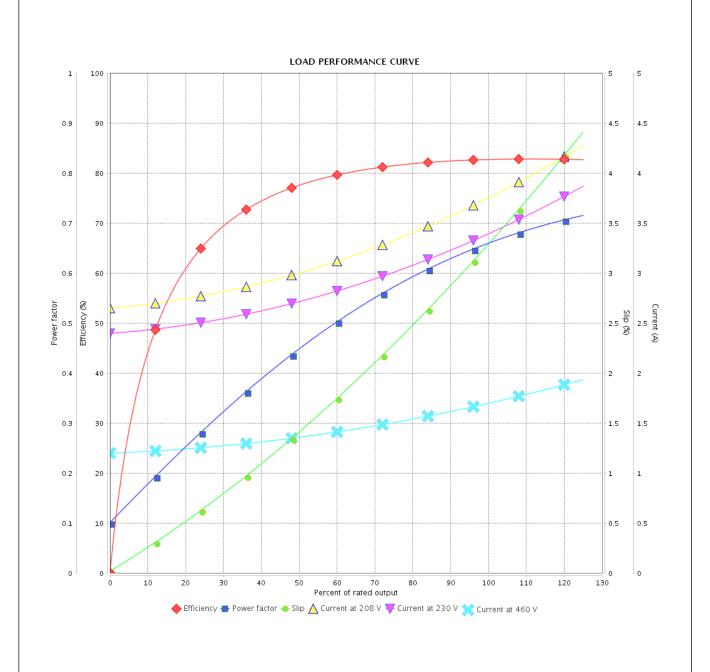


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441852

Phase

Catalog #: 00112ET3E145T-W22



Performance	: 23	30/460 V 60 Hz 6P				
Rated current	: 3.46/1.73 A Moment of inert		f inertia (J)	: 0.1595 sq.ft	.lb	
LRC	: 6.:	2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4.	53 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 26	60 %	Service fa	ctor	: 1.25	
Breakdown torque	: 30	00 %	Temperati	ıre rise	: 80 K	
Rated speed			Design		: B	
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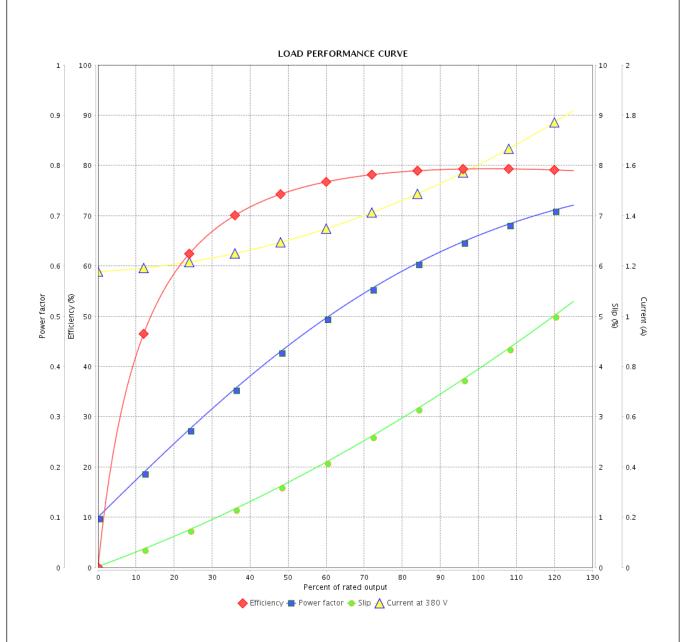
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3E145T-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.60 A : 5.8 : 4.10 ft.lb : 280 % : 310 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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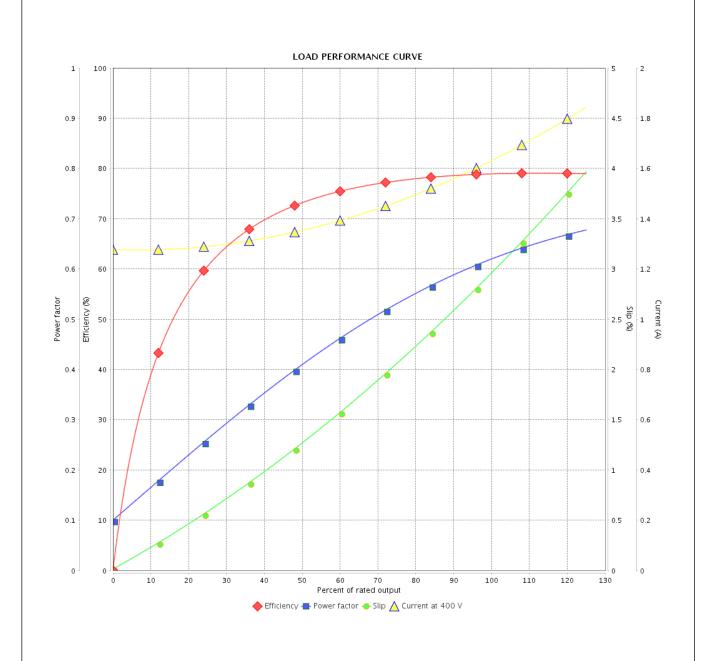


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441852

Phase

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Performance	:	400 V 50 Hz 6P IE3				
Rated current	:	: 1.62 A		f inertia (J)	: 0.1595 sq.ft.lb	
LRC	:	6.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	4.06 ft.lb	Insulation	class	: F	
Locked rotor torg	que :	300 %	Service fa	ctor	: 1.00	
Breakdown torqu		330 %	Temperat	ure rise	: 80 K	
Rated speed	:	970 rpm	Design		: B	
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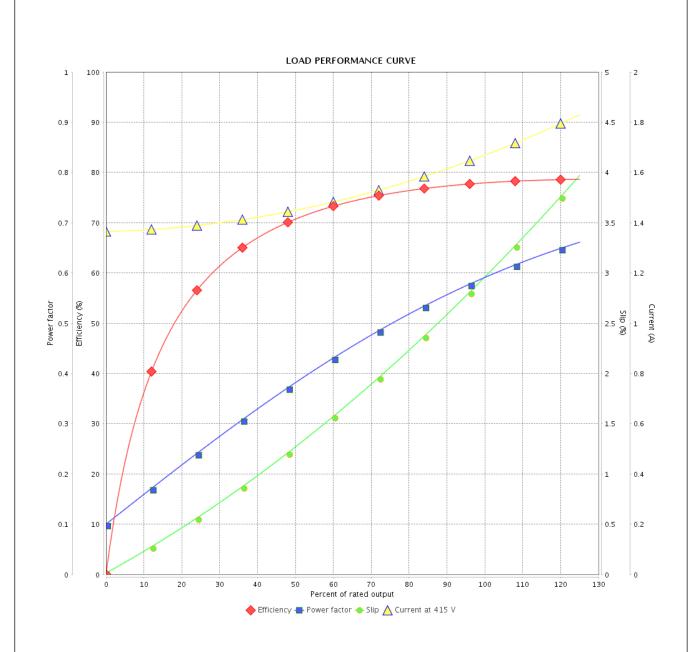
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3E145T-W22

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Performance		: 415 V 50 Hz 6P IE	E 3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 1.66 A : 6.3 : 4.06 ft.lb : 320 % : 340 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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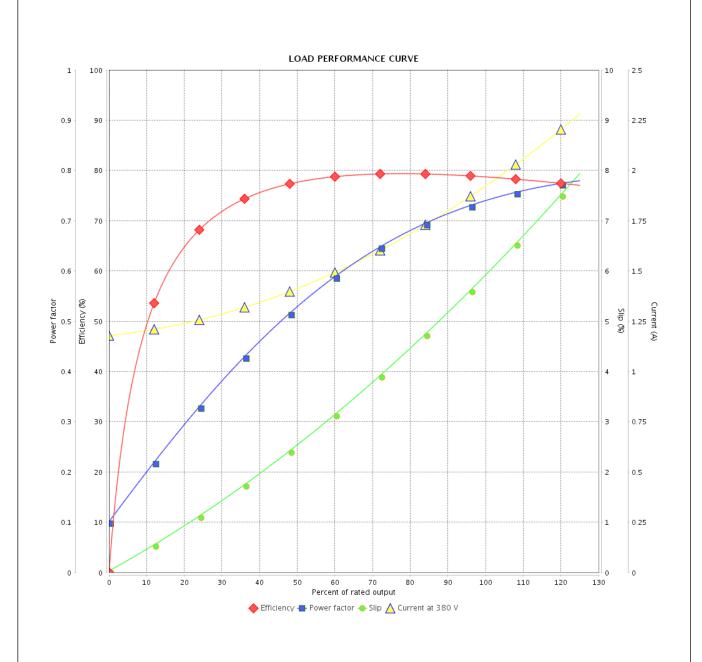
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 %	Moment of i Duty cycle Insulation cl Service fact Temperature	lass or	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K	b
Rated speed	: 940 rpm	Design		: B	
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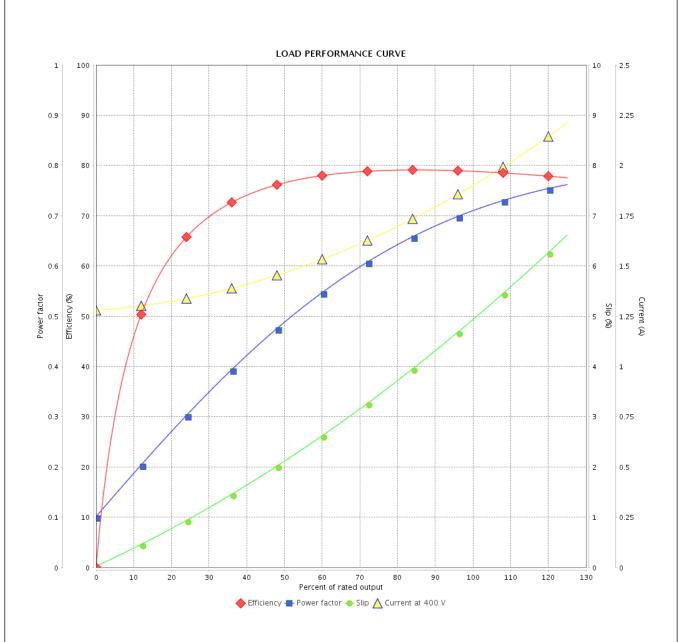
Phase

Product code: 11441852

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.94 A : 5.2 : 5.53 ft.lb : 229 % : 260 % : 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : B	0
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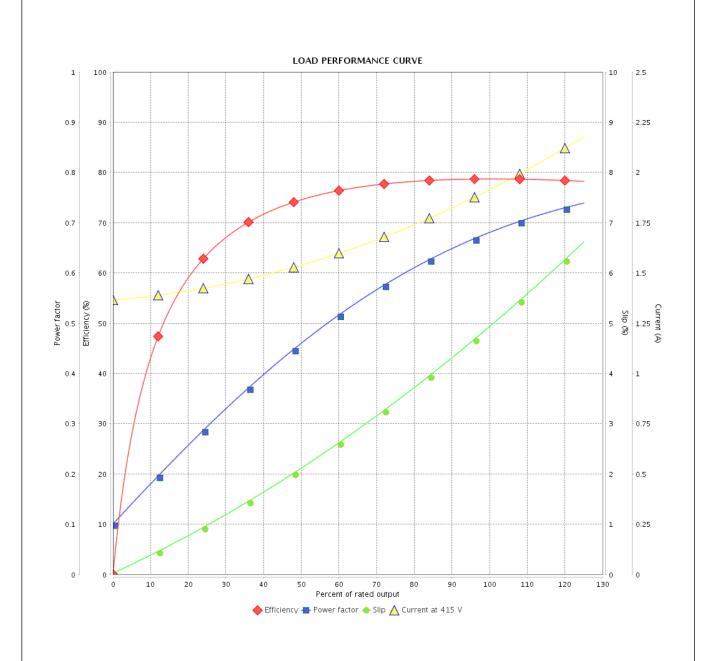
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3E145T-W22

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Performance	: 4	15 V 50 Hz 6P IE2				
Rated current	:1	.95 A	Moment o	f inertia (J)	: 0.1595 sq.ft.	.lb
LRC	: 5	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	.53 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	80 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 9	50 rpm	Design		: B	
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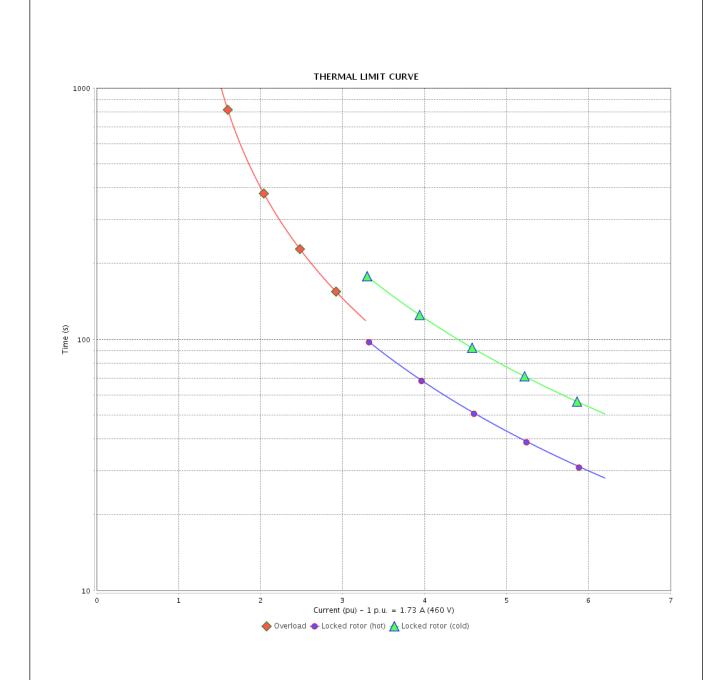


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11441852	
				Catalog # :	00112ET3E1	45T-W22
Performance		: 230/460 V 60 Hz 6P				
Rated current		: 3.46/1.73 A	Moment of	of inertia (J)	: 0.1595 sq.ft.l	b
LRC		: 6.2 : 4.53 ft.lb	Duty cycle Insulation		: Cont.(S1)	
Rated torque Locked rotor tord		: 4.53 π.id : 260 %	Service fa		: F : 1.25	
Breakdown torqu	ue	: 300 %	Temperat		: 80 K	
Rated speed		: 1160 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Comment		Dowfo	Charler d	Dete
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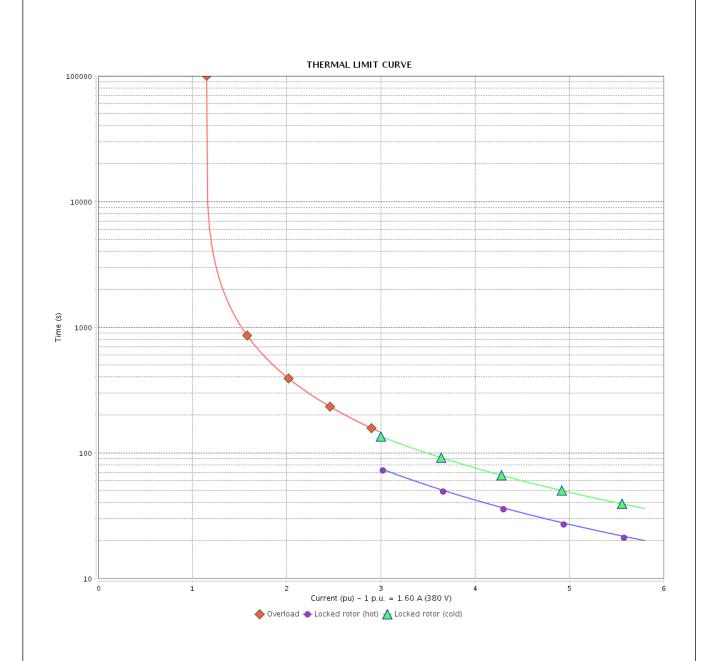


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441852 00112ET3E1	45T-W22
					0011221021	TO1 VVZZ
Performance		: 380 V 50 Hz 6P IE3	I			
Rated current LRC		: 1.60 A : 5.8	Moment of Duty cycle	of inertia (J) e	: 0.1595 sq.ft.ll : Cont.(S1)	b
Rated torque		: 4.10 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 310 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 960 rpm	Design		: B	
Heating constan						
Cooling constant	t					_
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Three Phase Induction Motor - Squirrel Cage



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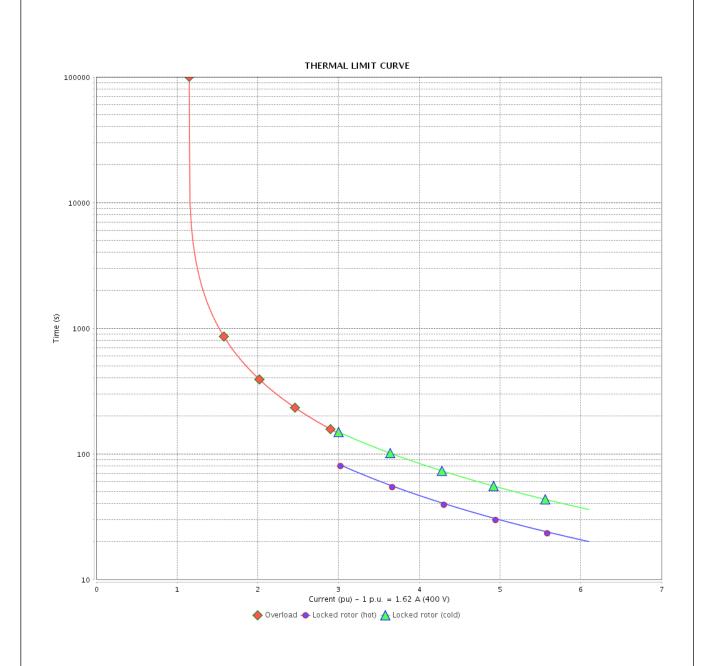


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441852 00112ET3E1	45T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 1.62 A	Moment of	of inertia (J)	: 0.1595 sq.ft.l	b
LRC Rated torque		: 6.1 : 4.06 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 300 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 330 % : 970 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		- r				
Cooling constant						
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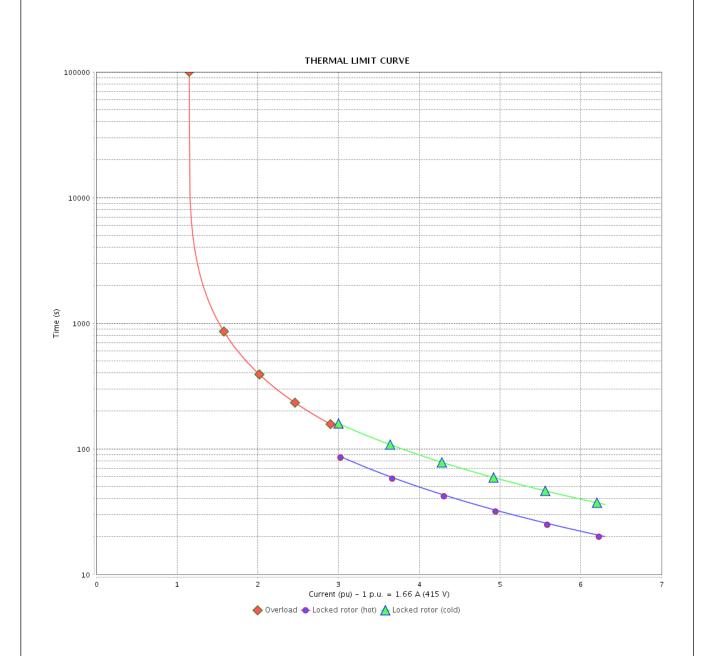


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	11441852 00112ET3E14	5T-W22
				- · · · ·
Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 1.66 A	Moment of inertia (J)	: 0.1595 sq.ft.lb	
LRC Rated torque	: 6.3 : 4.06 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 320 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 340 % : 970 rpm	Temperature rise Design	: 80 K : B	
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Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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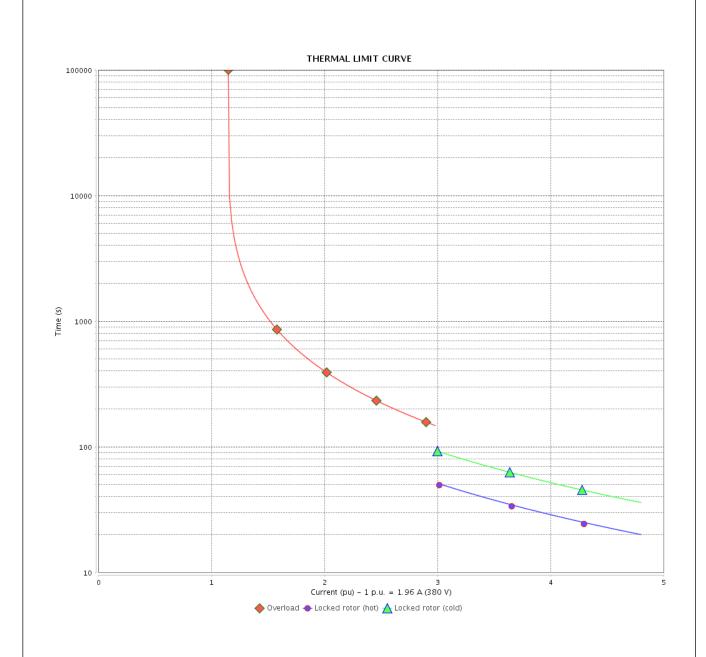


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441852 00112ET3E1	45T-W22
				- Catalog # .	0011221021	101 WZZ
Performance		: 380 V 50 Hz 6P IE2	I			
Rated current LRC		: 1.96 A : 4.8	Moment of Duty cycle	of inertia (J) e	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.59 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 220 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 940 rpm	Design		: B	
Heating constan						
Cooling constant	t					
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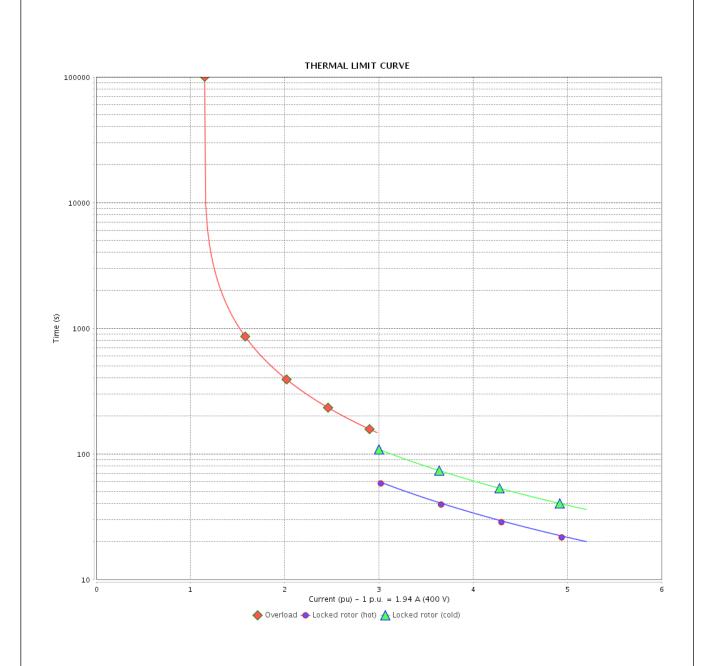


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441852 00112ET3E1	45T-W22
				<u> </u>		
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 1.94 A : 5.2	Duty cycle		: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.53 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	: 260 % : 950 rpm	Temperat Design		: 80 K : B	
Heating constan		. 000 трпт	Design		. J	
Cooling constant						
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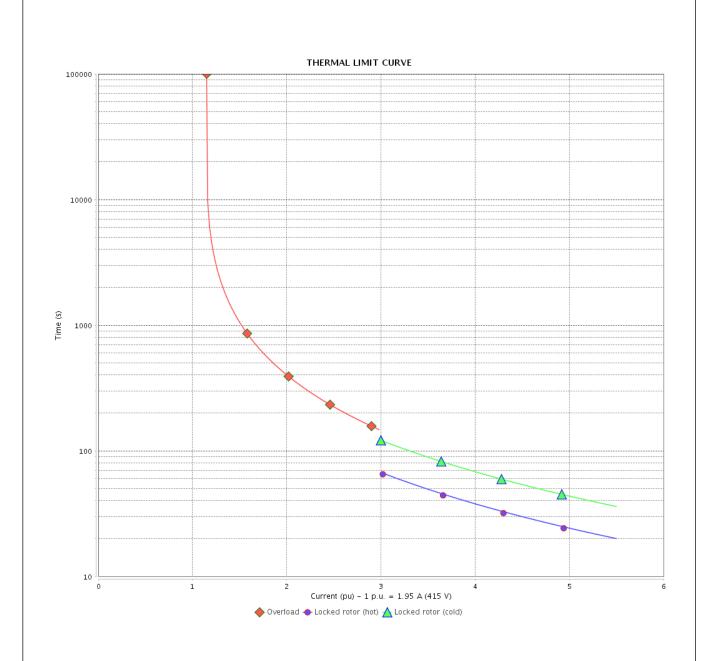


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441852 00112ET3E1	45T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 1.95 A : 5.5	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.53 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 280 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 950 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Commercial		Dorform	Charles d	Data
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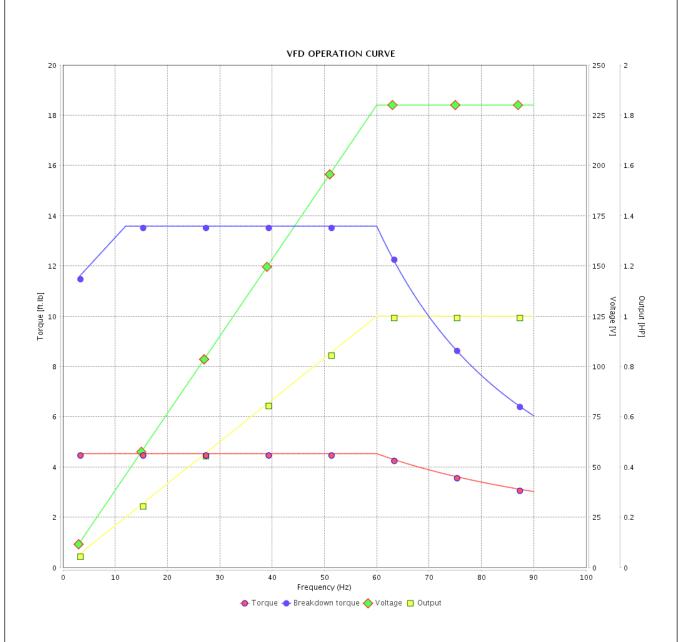
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441852

Catalog #: 00112ET3E145T-W22



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.46/1.73 A : 6.2 : 4.53 ft.lb : 260 % : 300 % : 1160 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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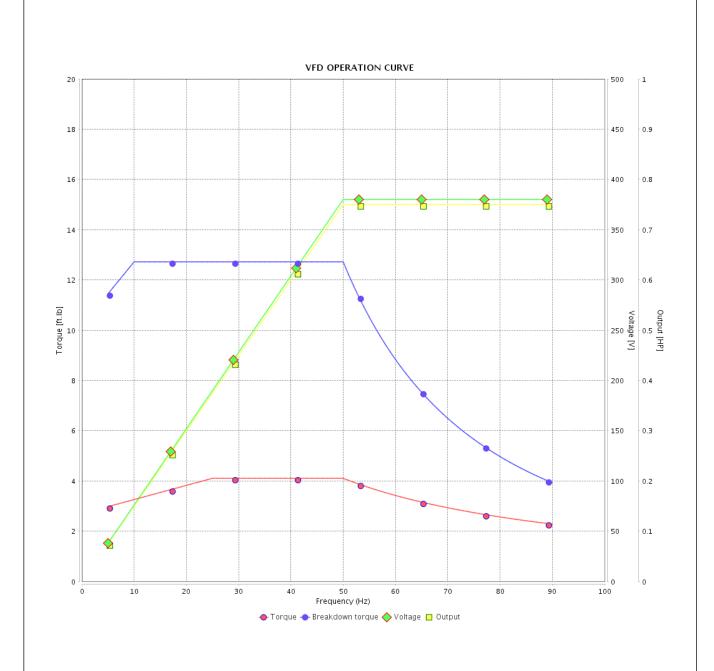
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 6F	PIE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1.60 A : 5.8 : 4.10 ft.lb : 280 % : 310 % : 960 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fac mperatu esign	class ctor	: 0.1595 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	.lb
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Pr

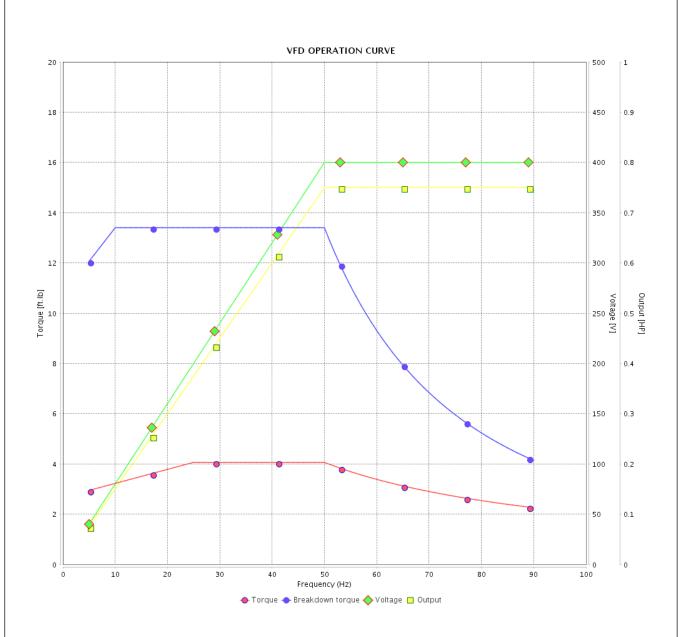
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Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue : :ue	1.62 A 6.1 4.06 ft.lb 300 % 330 % 970 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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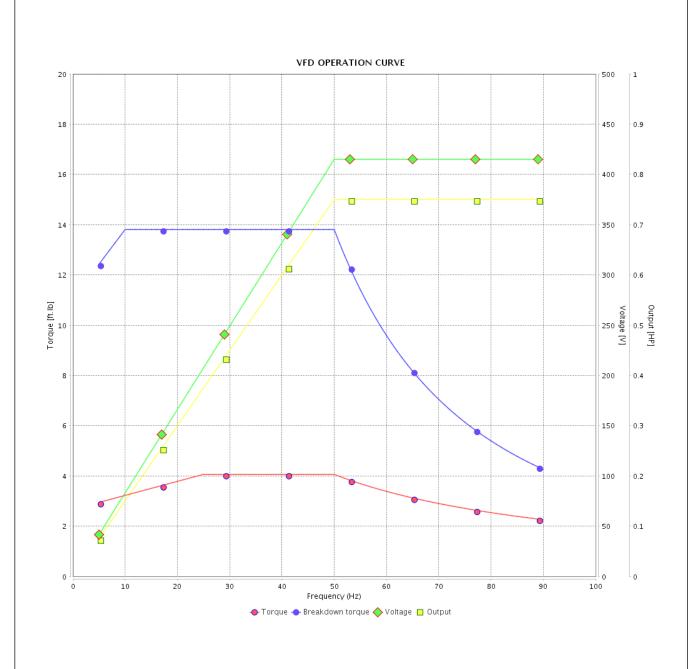
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11441852

Catalog #:



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1.	66 A	Moment o	f inertia (J)	: 0.1595 sq.ft.	lb
LRC	: 6.	3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4.	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 32	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 34	40 %	Temperati	Temperature rise		
Rated speed	: 97	70 rpm	Design		: B	
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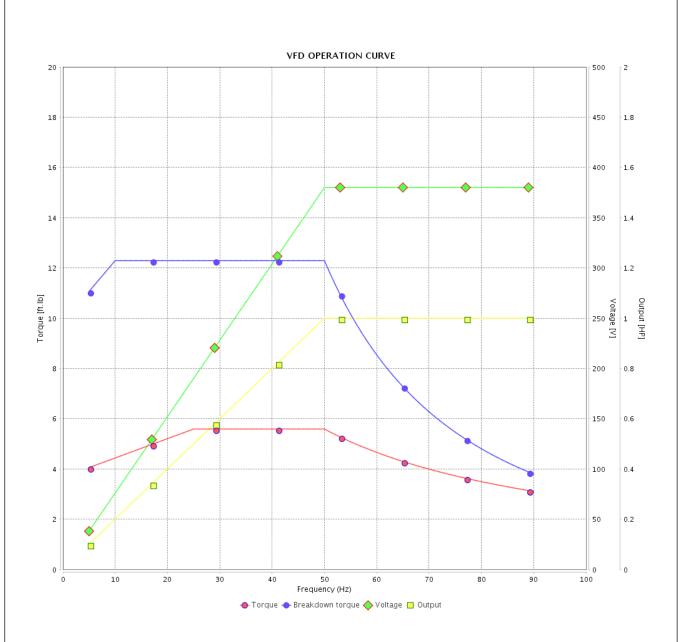
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Performance	: 380 V 50 Hz 6P IE2					
Rated current	: 1.96 A	Moment of inertia (J)		: 0.1595 sq.ft.lb		
LRC	: 4.8	Duty cycle		: Cont.(S1)		
Rated torque	: 5.59 ft.lb	Insulation class		:F		
Locked rotor torque	: 200 %	Service factor		: 1.00		
Breakdown torque	: 220 %	Temperature rise		: 80 K		
Rated speed	: 940 rpm	m Design		: B		
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Product line : NEMA Premium Efficiency Three- Product code :

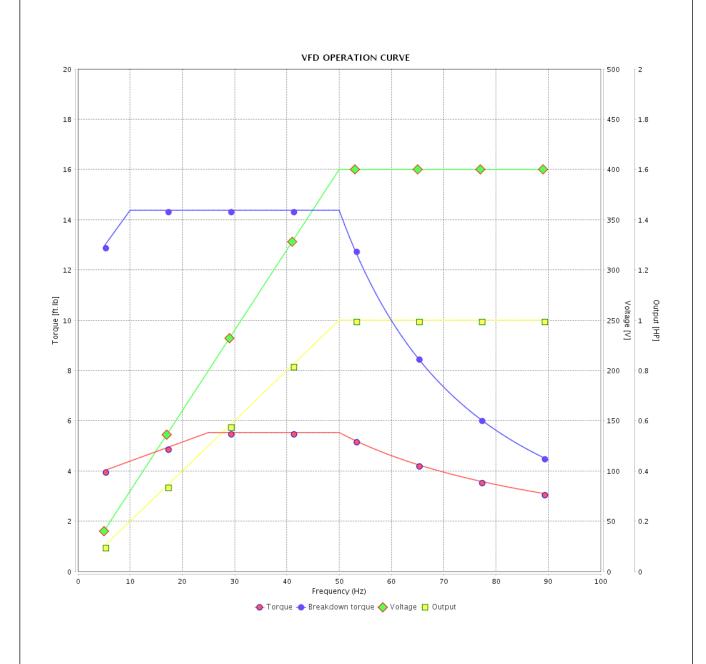
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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.94 A : 5.2 : 5.53 ft.lb : 229 % : 260 % : 950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

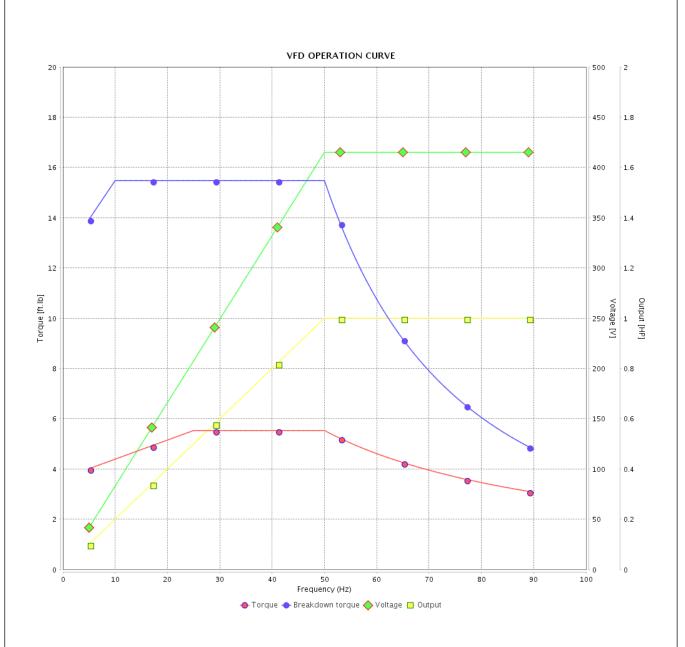
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Performance	: 4	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed			class ctor	: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
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