DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432497

Catalog #: 00112ST3QIE145T-W22

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class 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 : 66.3 lb

, unitado			O.II.	, .pp. 0,			0.0 10	
Protection degre	e	: IP55		Momer	nt of inertia (J)) : C).1595 sq.ft.lb	
Design		: B						
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]		460	380	400	415	380	400	415
Rated current [A]		1.73	1.60	1.62	1.66	1.96	1.94	1.95
L. R. Amperes [A]		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 J)
					M)	G)		
No load current [A	<u>.]</u>	1.20	1.18	1.28	1.36	1.18	1.28	1.36
Rated speed [RPI	M]	1160	960	970	970	940	950	950
Slip [%]		3.33	4.00	3.00	3.00	6.00	5.00	5.00
Rated torque [ft.lb]	4.53	4.10	4.06	4.06	5.59	5.53	5.53
Locked rotor torqu	ıe [%]	260	280	300	320	200	229	250
Breakdown torque	[%]	300	310	330	340	220	260	280
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		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%							
Efficiency (%)	50%	77.0	74.8	73.2	70.7	77.0	75.5	74.0
Efficiency (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%							
50%		0.45	0.44	0.41	0.38	0.53	0.49	0.46
Power Factor	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

Drive end Non drive end Foundation loads 6205 C3 6204 C3

Bearing type Max. traction : 101 lb Inpro/Seal Sealing Inpro/Seal Max. compression : 168 lb 20000 h 20000 h Lubrication interval

4 g Lubricant amount 4 g

Mobil Polyrex EM Lubricant type

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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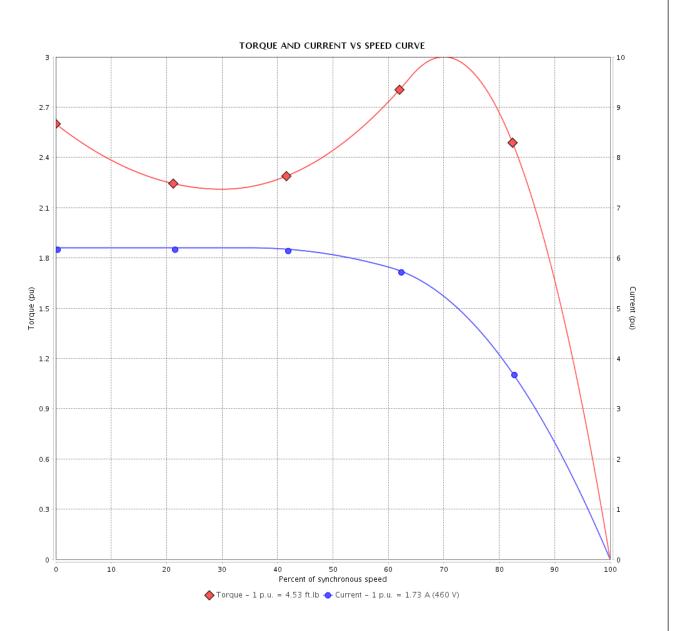


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432497

Phase

Catalog #: 00112ST3QIE145T-W22



Performance	: 460 V 60 Hz 6P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 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
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: 11432497 Catalog #: 00112ST3QIE145T-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) Date Rev. Performed Checked **Changes Summary** Performed by

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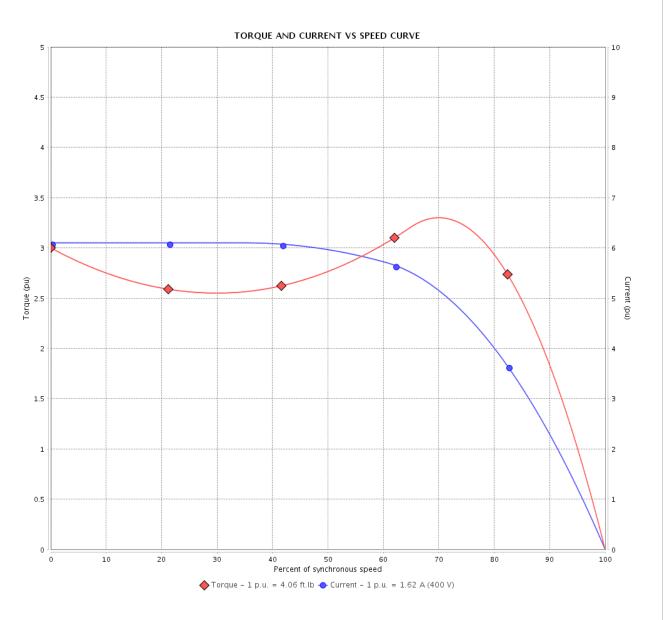


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432497

Phase

Catalog #: 00112ST3QIE145T-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)
Rated torque	: 4.06 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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: 11432497 Catalog #: 00112ST3QIE145T-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) Date Rev. Performed Checked **Changes Summary**

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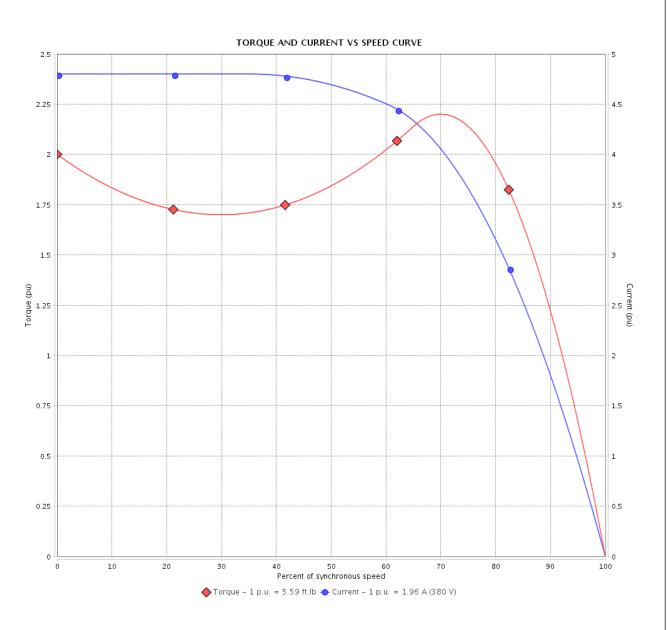


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11432497

Catalog #: 00112ST3QIE145T-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) : F Insulation class Rated torque : 5.59 ft.lb Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 940 rpm Design : B Locked rotor time

: 36s (cold) 20s (hot)

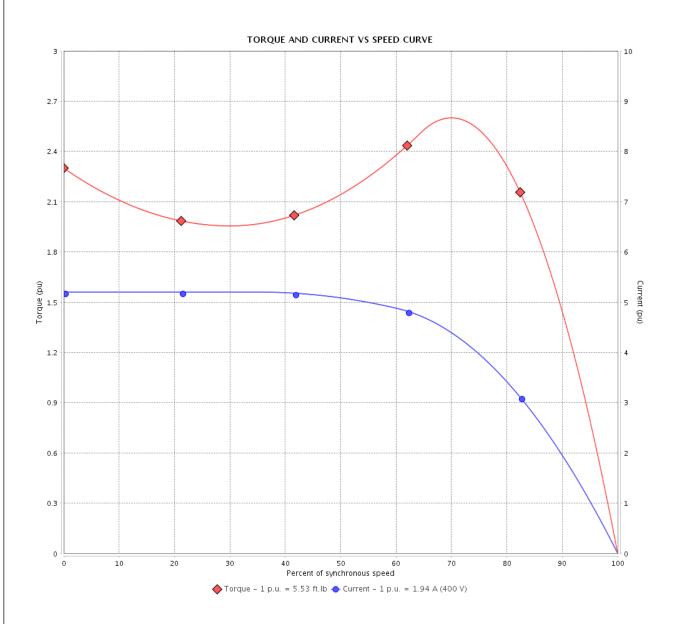
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Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 1.94 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 5.53 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260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

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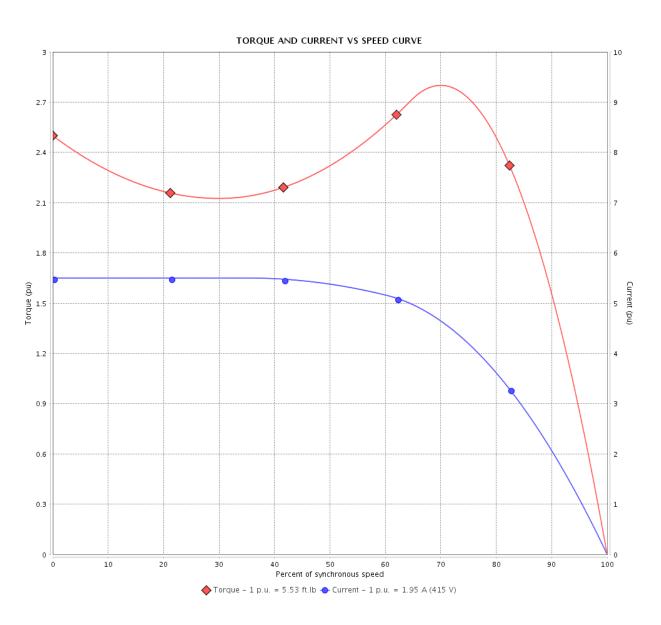
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11432497

Catalog #: 00112ST3QIE145T-W22



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

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

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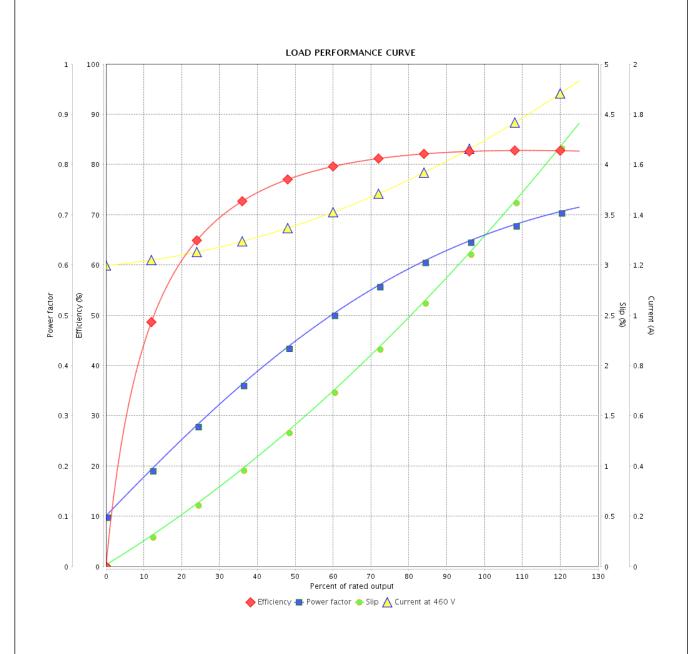
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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.73 A : 6.2 : 4.53 ft.lb : 260 % : 300 % : 1160 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise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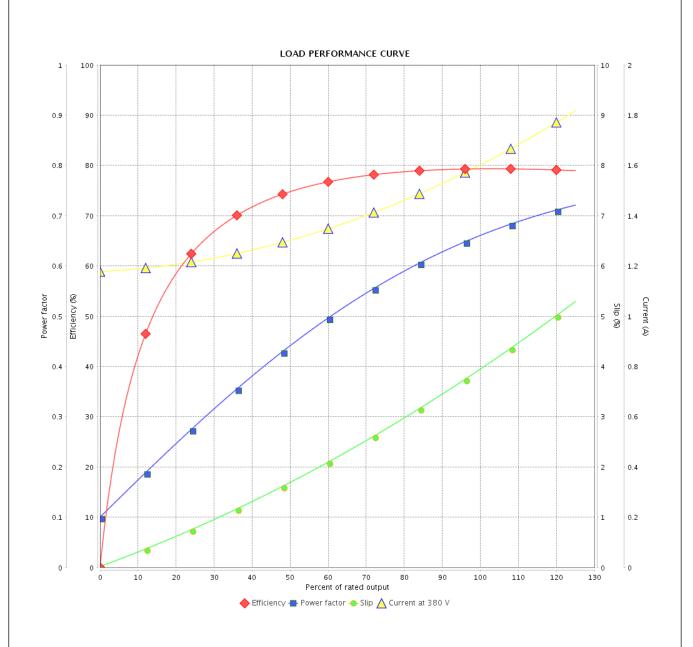
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Phase

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Performance	: 3	80 V 50 Hz 6P IE3	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5 : 4 jue : 2 ie : 3	.60 A .8 .10 ft.lb 80 % 10 % 60 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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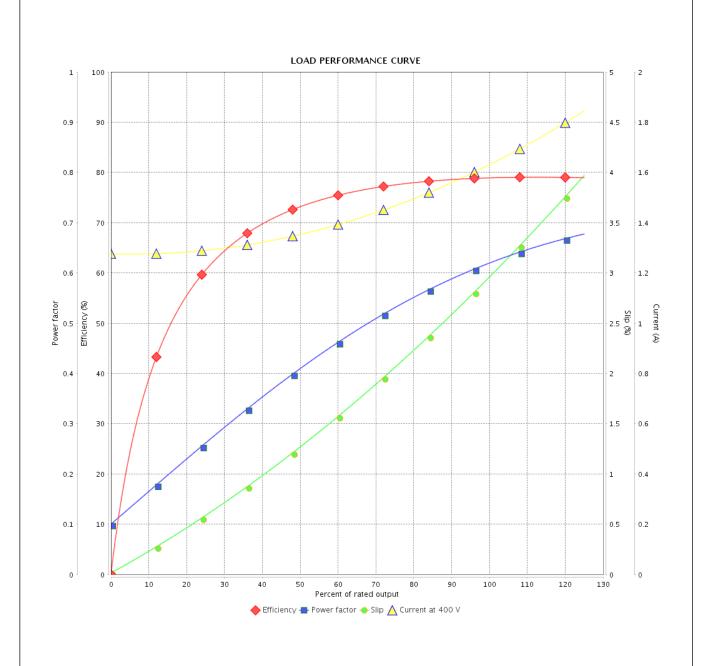
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1.62 A : 6.1 : 4.06 ft.lb : 300 % : 330 %	Moment of inertia Duty cycle Insulation class Service factor Temperature rise	• /	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K	lb
Rated speed	: 970 rpm	Design		: B	
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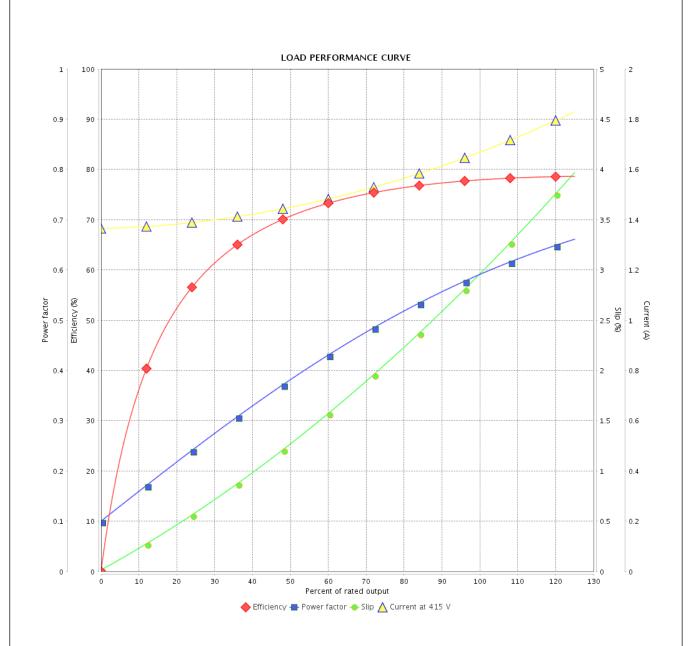
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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 jue : 3	.66 A 5.3 06 ft.lb :20 % :40 % :70 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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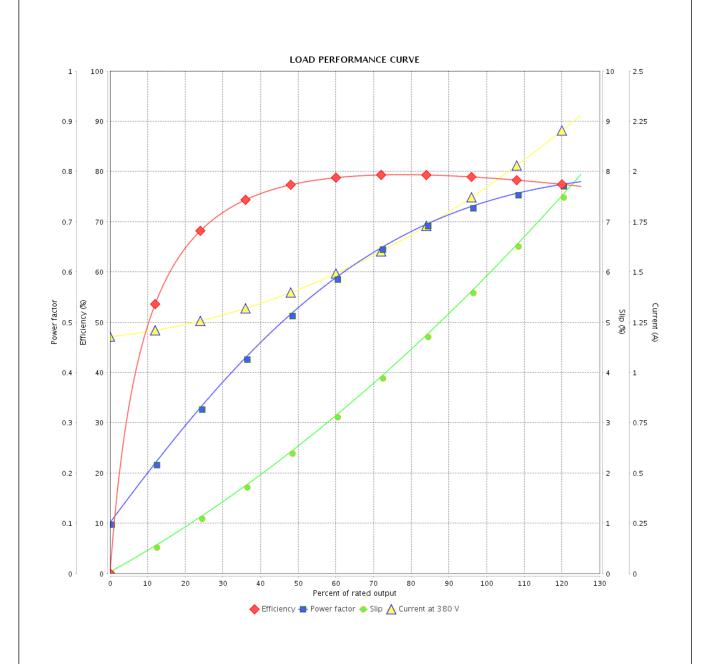
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Product line : NEMA Premium Efficiency Three- Product code : 11432497

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 % : 940 rpm	Moment of in Duty cycle Insulation cl Service factor Temperature Design	ass or	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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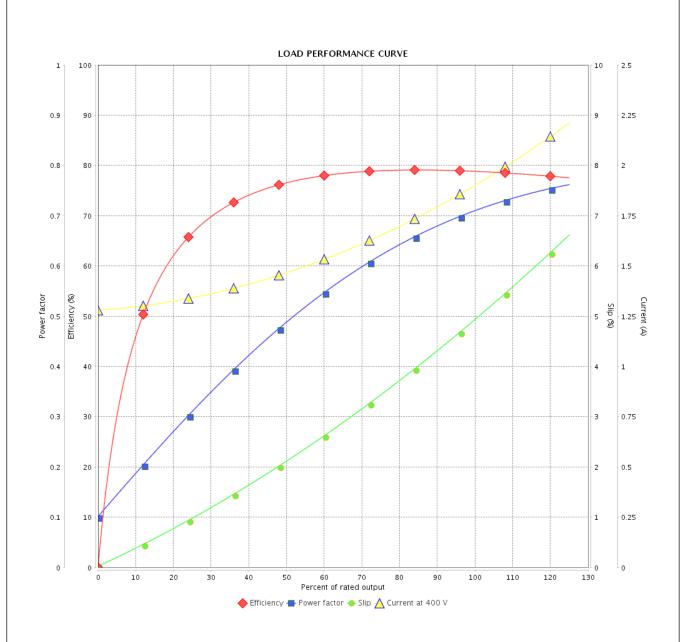
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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.94 A : 5.2 : 5.53 ft.lb : 229 % : 260 % : 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : B	b
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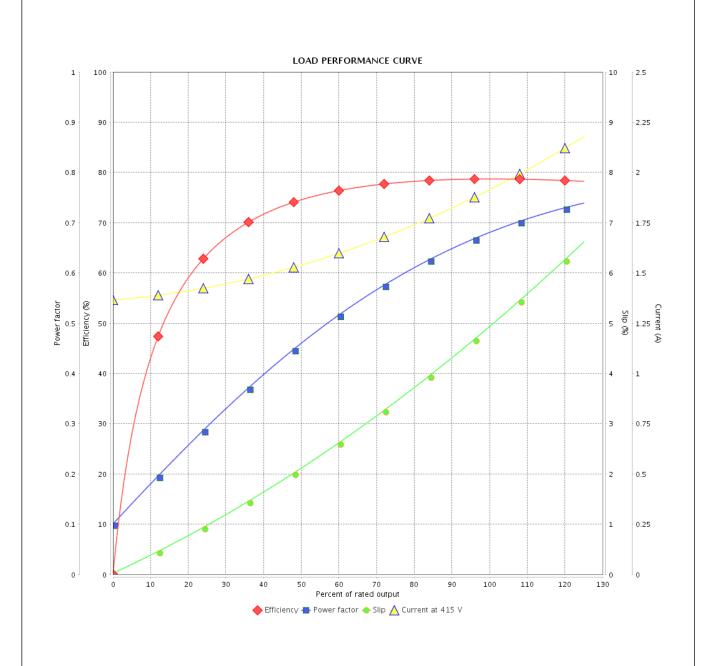


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Product line : NEMA Premium Efficiency Three- Product code : 11432497

Phase

Catalog #: 00112ST3QIE145T-W22



Performance	: 4	115 V 50 Hz 6P IE2				
Rated current	: 1	.95 A	Moment o	f inertia (J)	: 0.1595 sq.ft.	.lb
LRC	: 5	5.5	Duty cycle	!	: Cont.(S1)	
Rated torque	: 5	5.53 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque : 280 %		280 %	Temperature rise		: 80 K	
Rated speed	: 9	950 rpm	Design		: B	
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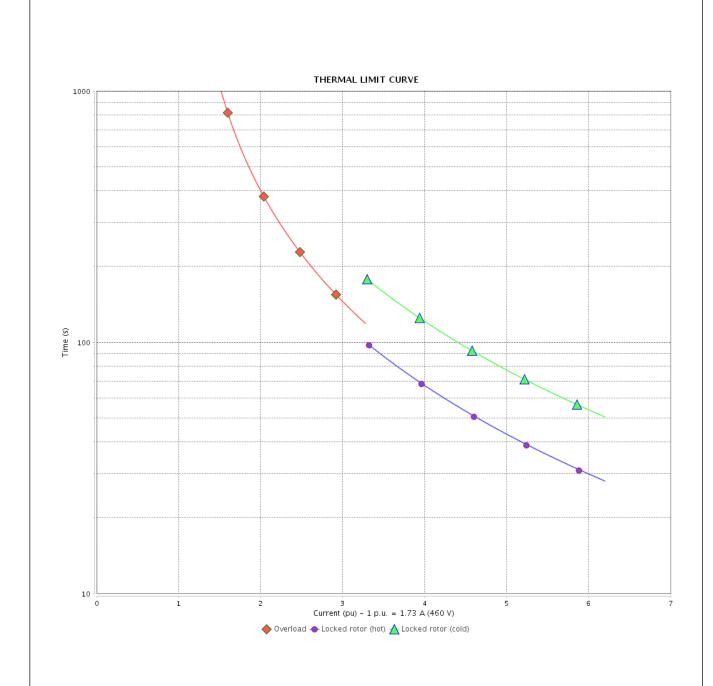


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Product line		NEMA Premium Efficiency	/ Three-	Product code :	11432497	
	P	hase		Catalog # :	00112ST3QI	E145T-W22
Performance		60 V 60 Hz 6P		6 (/ I)	0.4505 (1.1	ı.
Rated current LRC	: 1. : 6.	.73 A .2	Moment o	f inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	D D
Rated torque		.53 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 00 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		160 rpm	Design		: B	
Heating constant						
Cooling constant		0. 0				
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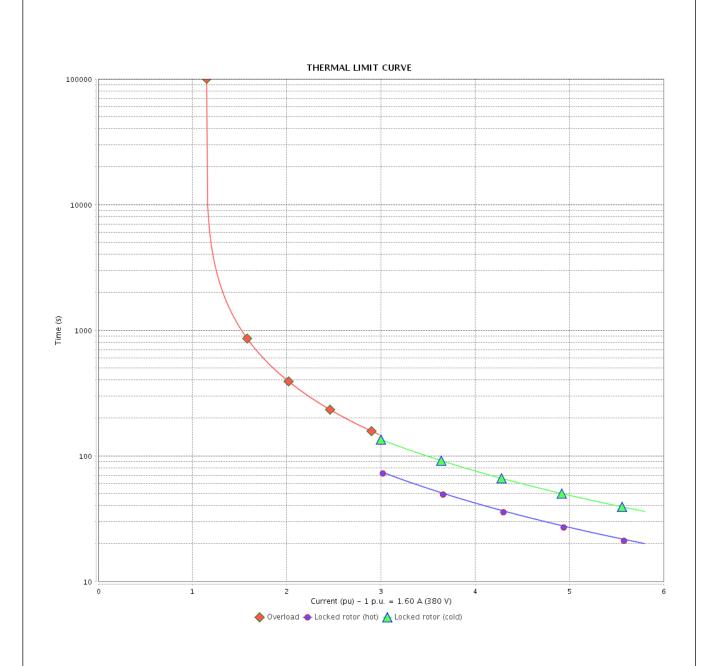


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Product line		NEMA Premium Efficiency	Three-	Product code :	11432497	
	Р	hase		Catalog # :	00112ST3QII	E145T-W22
Performance	: 38	80 V 50 Hz 6P IE3				
Rated current	: 1.	60 A	Moment of	f inertia (J)	: 0.1595 sq.ft.l	b
LRC	: 5.	8	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torq		.10 ft.lb 80 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	e : 3°	10 %	Temperatu		: 80 K	
Rated speed		60 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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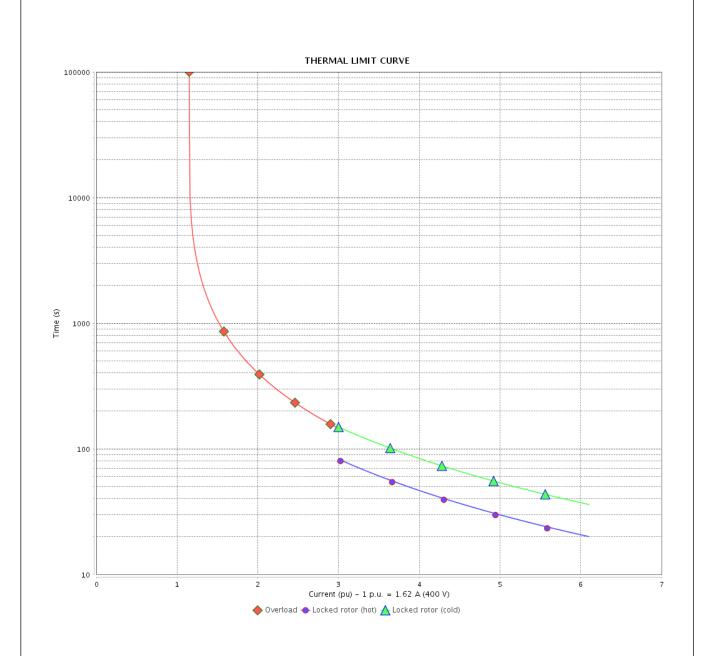


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432497 00112ST3QIE	=145T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 1.62 A	Moment of	of inertia (J)	: 0.1595 sq.ft.li	b
LRC Rated torque		: 6.1 : 4.06 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Locked rotor tord	que	: 300 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed	ue	: 330 % : 970 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		- r	9			
Cooling constant						
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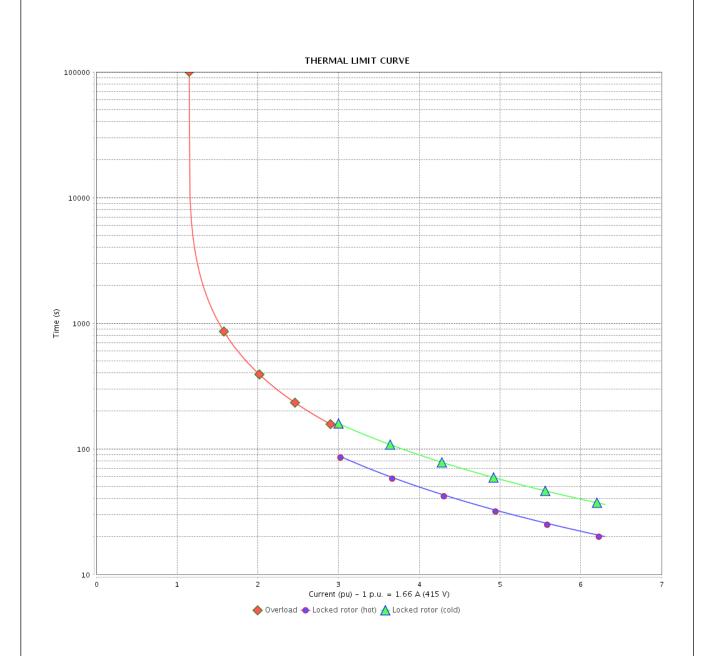


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432497 00112ST3QII	≣145T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 1.66 A : 6.3	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 4.06 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 320 % : 340 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 970 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t	01 0			<u> </u>	
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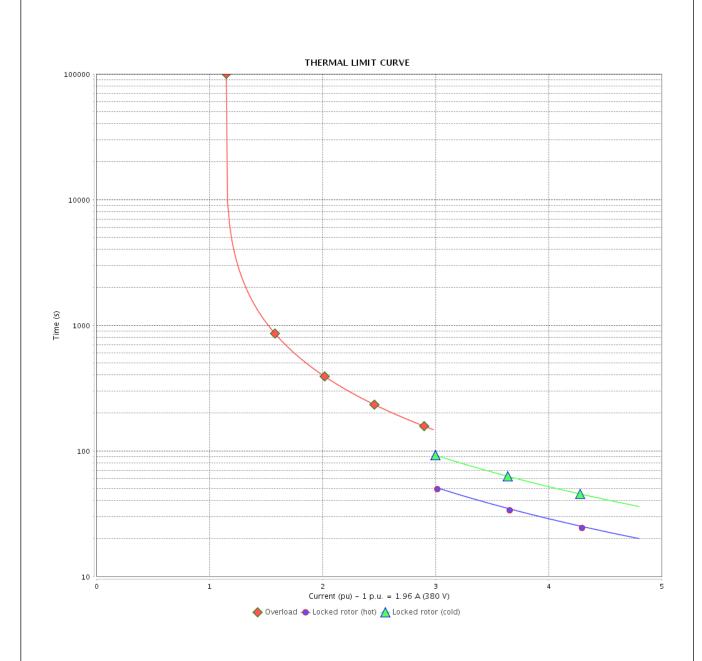


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432497 00112ST3QII	≣145T-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current LRC		: 1.96 A : 4.8	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.59 ft.lb	Insulation	class	: 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	Ţ.	Changes Summary		Performed	Checked	Date
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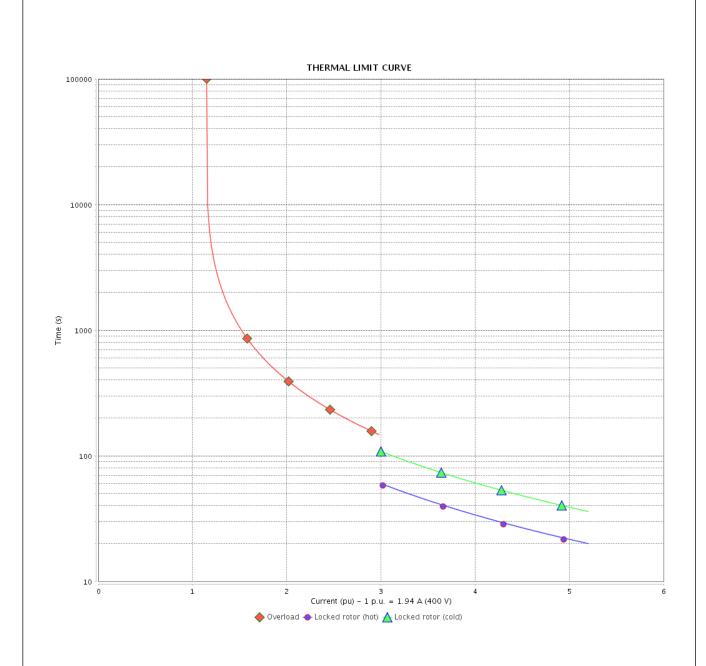


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432497 00112ST3QII	E145T-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 1.94 A : 5.2	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l	b
Rated torque		: 5.53 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 229 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 950 rpm	Design	u. 0 1100	: B	
Heating constan						
Cooling constant	t	Changes Commercial		Douts was!	Charles d	Data
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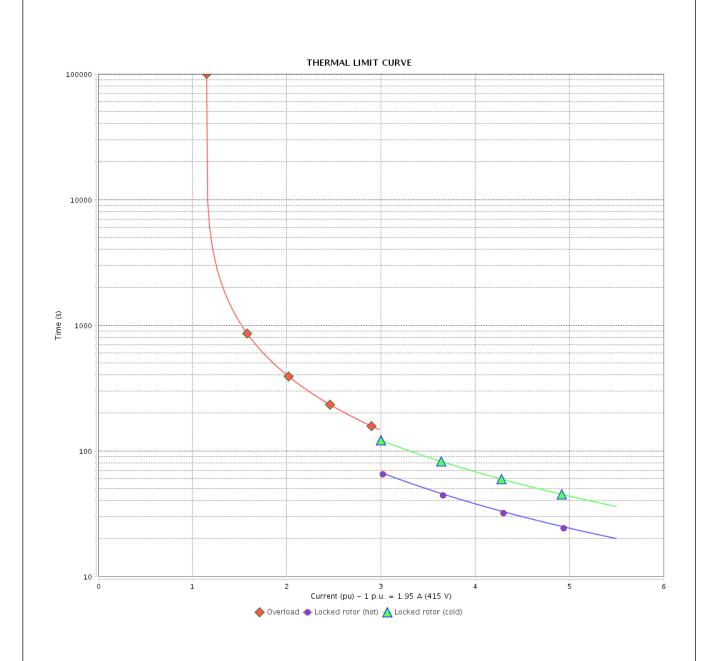


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432497 00112ST3QII	≣145T-W22
Performance		. 445 V 50 H= 0D IF0				
Rated current		: 415 V 50 Hz 6P IE2 : 1.95 A	Moment of	of inertia (J)	: 0.1595 sq.ft.l	b
LRC		: 5.5	Duty cycle	Э	: Cont.(S1)	~
Rated torque		: 5.53 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 250 % : 280 %	Temperat		: 1.00 : 80 K	
Rated speed		: 950 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Cummen		Dorform	Chaolaad	Data
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Three Phase Induction Motor - Squirrel Cage



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

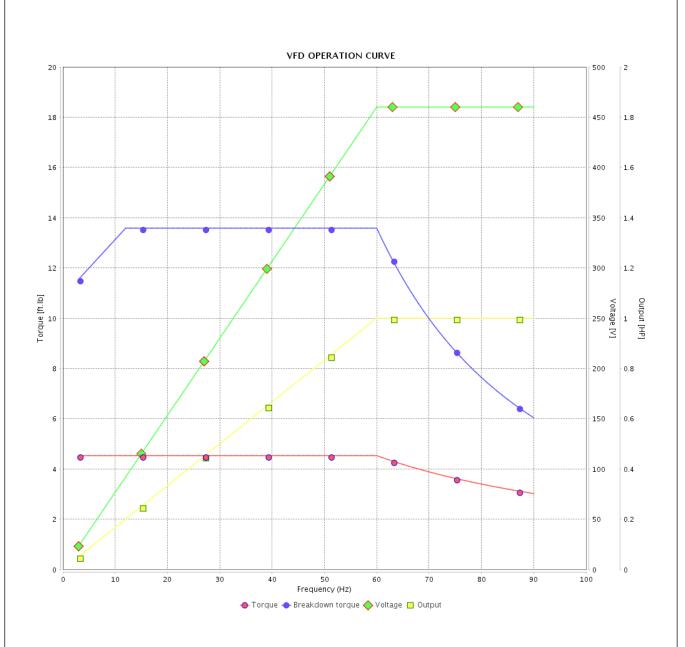
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Performance	: 460 V 60 I	Hz 6P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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Three Phase Induction Motor - Squirrel Cage



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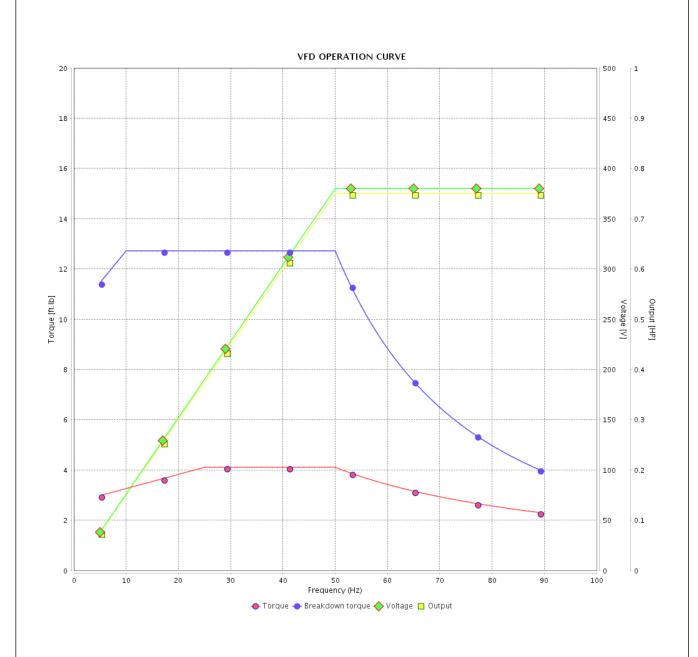
Product line : NEMA Premium Efficiency Three- Product code : 11432497

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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	Duty cycle : Collinsulation class : F Service factor : 1.0		: Cont.(S1) : F : 1.00 : 80 K	: F : 1.00 : 80 K	
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Three Phase Induction Motor - Squirrel Cage



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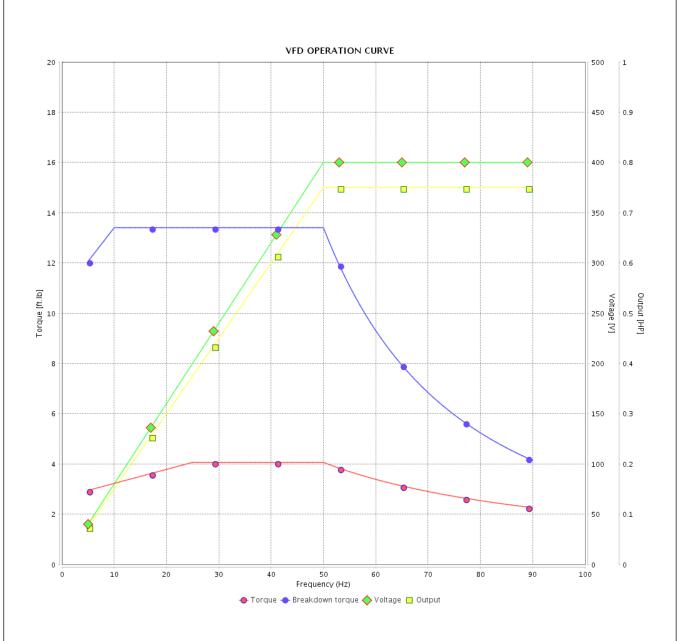
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432497

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	,						
Performance	: 40	: 400 V 50 Hz 6P IE3					
Rated current : 1.62 A		Moment of	Moment of inertia (J)		.lb		
LRC	: 6.	1	Duty cycle	;	: Cont.(S1)		
Rated torque	: 4.	: 4.06 ft.lb Insulation class		: F			
Locked rotor tord	que : 30	00 %	Service fa	ctor	: 1.00		
Breakdown torqu	ie : 33	30 %	Temperat	ıre rise	: 80 K		
Rated speed	: 97	70 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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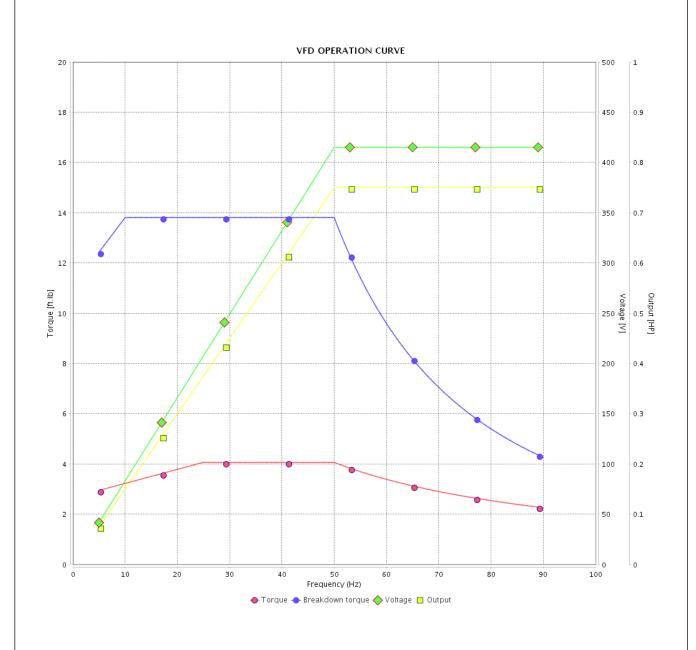
Product line : NEMA Premium Efficiency Three- Product code : 11432497

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Performance	: 415 V 50 Hz 6P IE3	3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		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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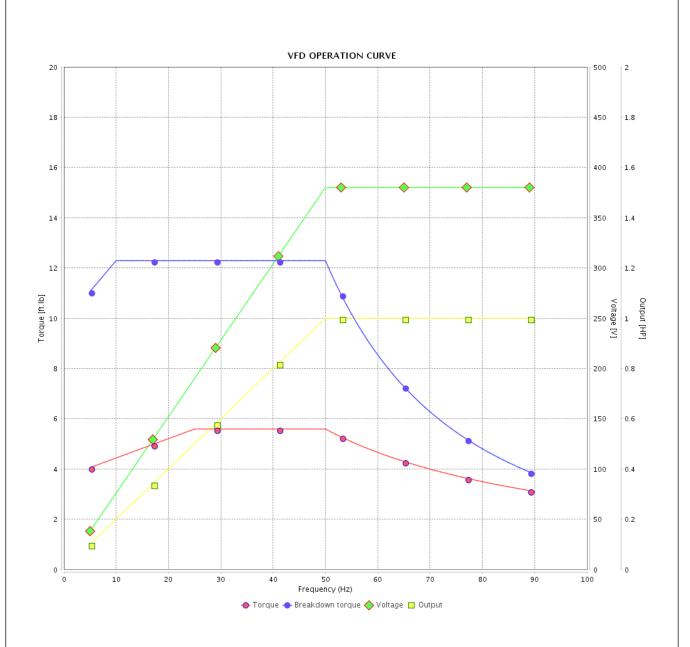
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Performance : 380 V 50 Hz 6P IE2 : 1.96 A Rated current Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 5.59 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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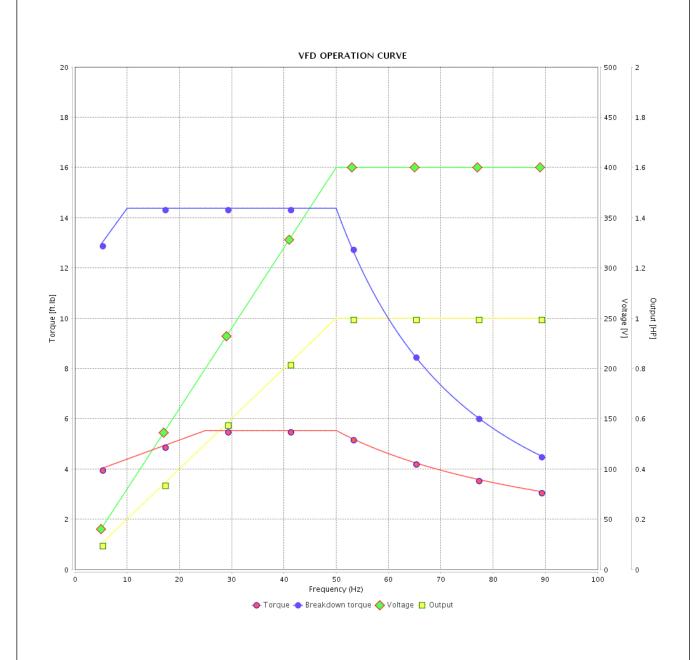
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Performance	: 400 V 50 Hz 6P IE2				
		1	<u> </u>		
Rated current	: 1.94 A	Moment of inertia (J)		: 0.1595 sq.ft.lb	
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.53 ft.lb	Insulation class		: F	
Locked rotor torqu	e : 229 %	Service factor		: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

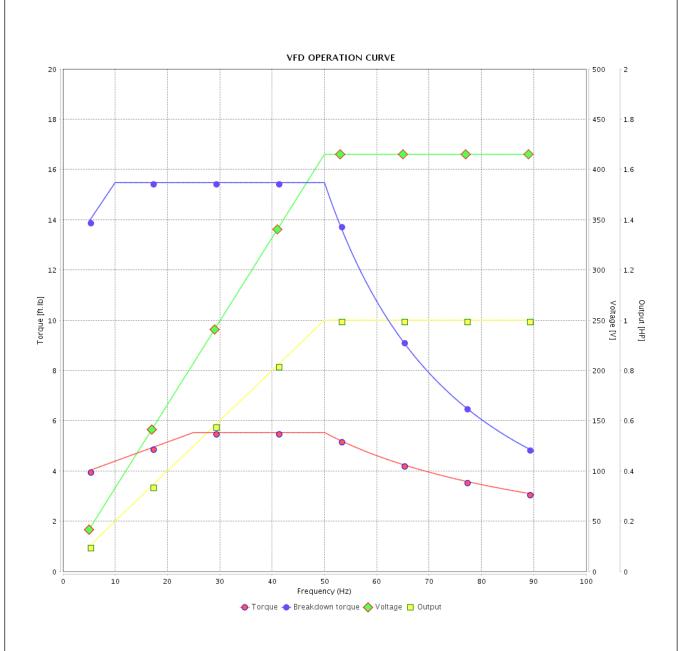
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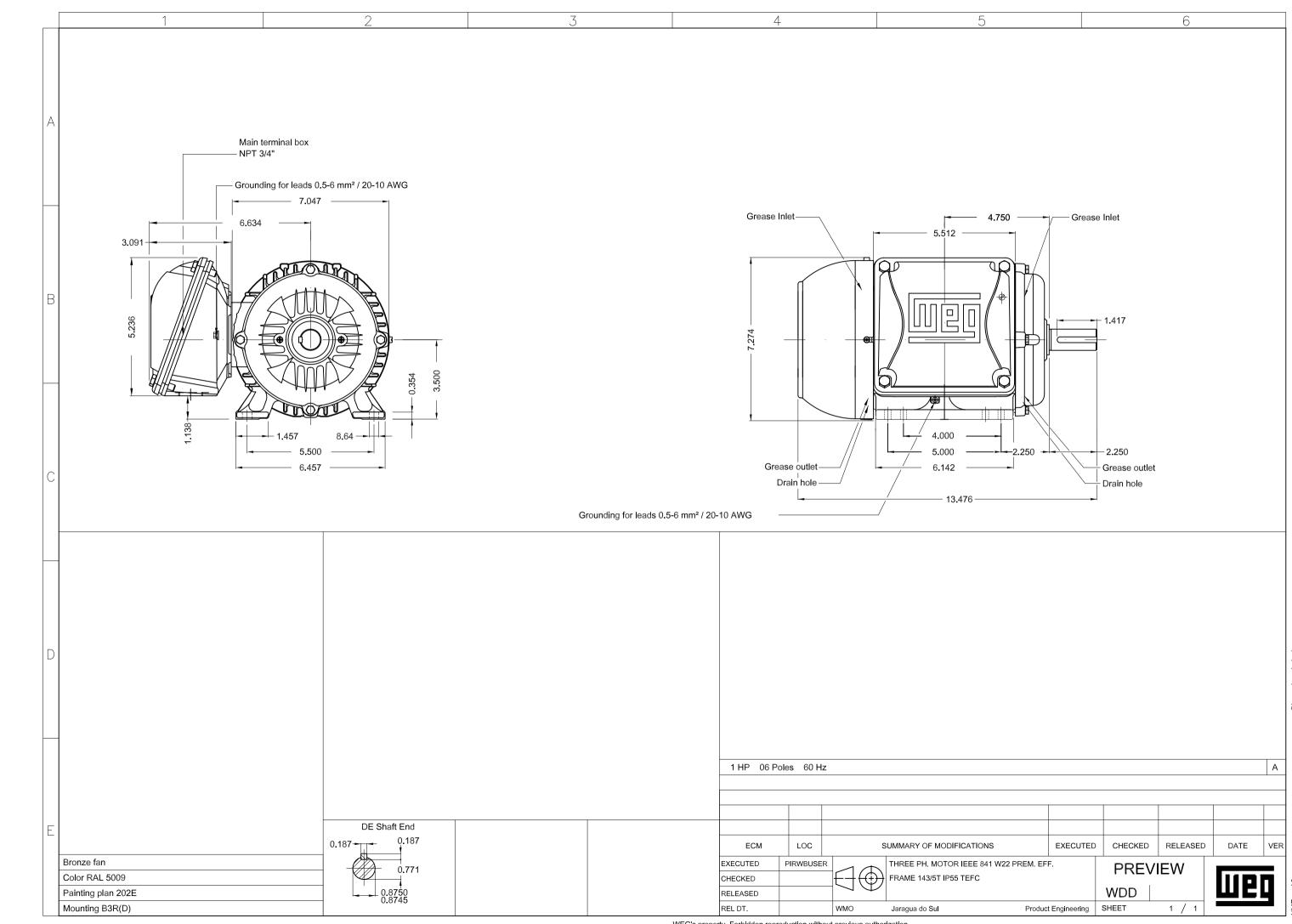
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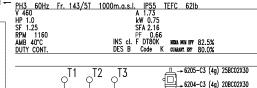
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Performance	: 4	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 5. ue : 28	.95 A .5 .53 ft.lb 50 % 80 % 50 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date	
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MOBIL POLYREX EM (20000h)

L2 460V