DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12821872

Catalog #: 00112ET3ER145TC-W22

Frame : 145TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 52.1 lb

Ailliuue		. 1000 III.a.	S.I.	Approx	weigiit)Z. I ID	
Protection degre	е	: 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]		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 J)
					M)	G)		
No load current [A]	2.39/1.20	1.18	1.28	1.36	1.18	1.28	1.36
Rated speed [RPN	/ []	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	e [%]	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%	76.0	73.6	71.6	68.6	77.6	76.1	73.4
Efficiency (9/)	50%	77.0	74.8	73.2	70.7	77.0	75.5	74.0
Efficiency (%)	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
Dower Foster	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 ZZ Bearing type 6204 ZZ Max. traction : 108 lb Sealing V'Ring V'Ring Max. compression : 161 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

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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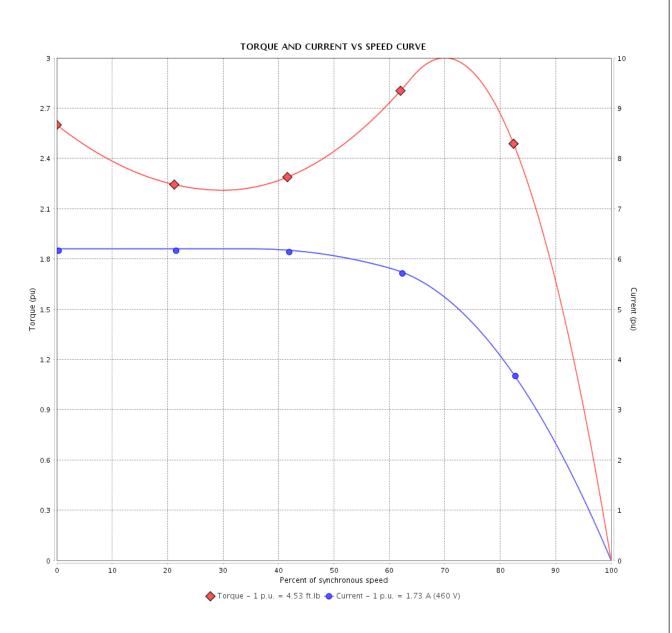
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821872

Catalog #: 00112ET3ER145TC-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 Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1160 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821872 Catalog #: 00112ET3ER145TC-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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Three Phase Induction Motor - Squirrel Cage



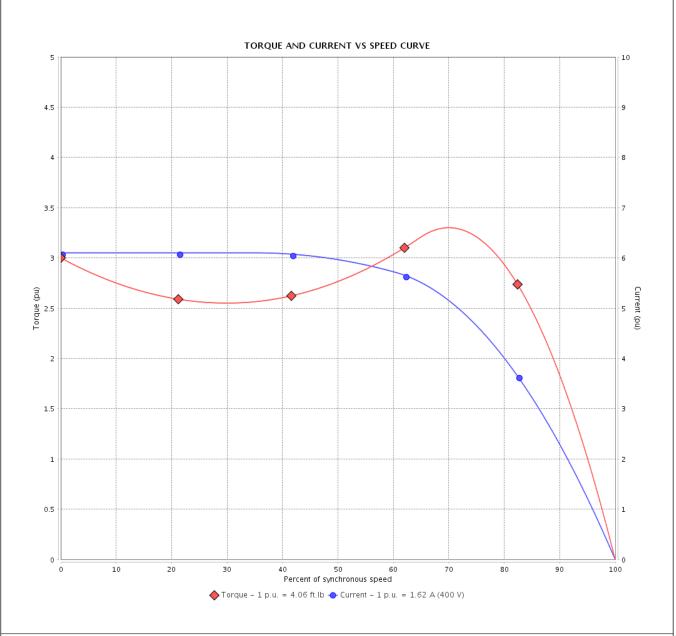
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12821872

Catalog #: 00112ET3ER145TC-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC	: 1.62 A : 6.1	Moment of inertia (J) Duty cycle	: 0.1595 sq.ft.lb : Cont.(S1)
Rated torque	: 4.06 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 300 % : 330 %	Service factor Temperature rise	: 1.00 : 80 K
Rated speed	: 970 rpm	Design	: B
Looked retentions	. 20a (aald) 20a (bat)	1	

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821872 Catalog #: 00112ET3ER145TC-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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Three Phase Induction Motor - Squirrel Cage

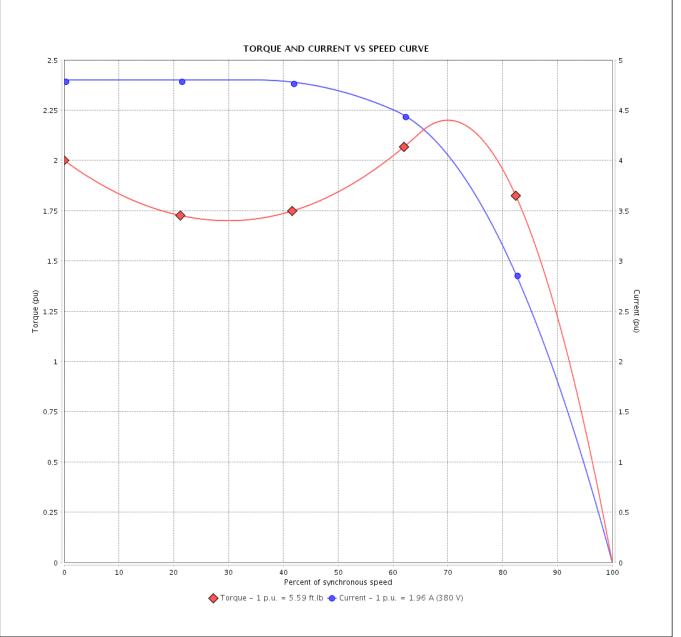


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821872

Phase

Catalog #: 00112ET3ER145TC-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)		

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821872 Catalog #: 00112ET3ER145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

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) Insulation class : F Rated torque : 5.53 ft.lb : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 950 rpm Design

Percent of synchronous speed ◆ Torque – 1 p.u. = 5.53 ft.lb ◆ Current – 1 p.u. = 1.94 A (400 V)

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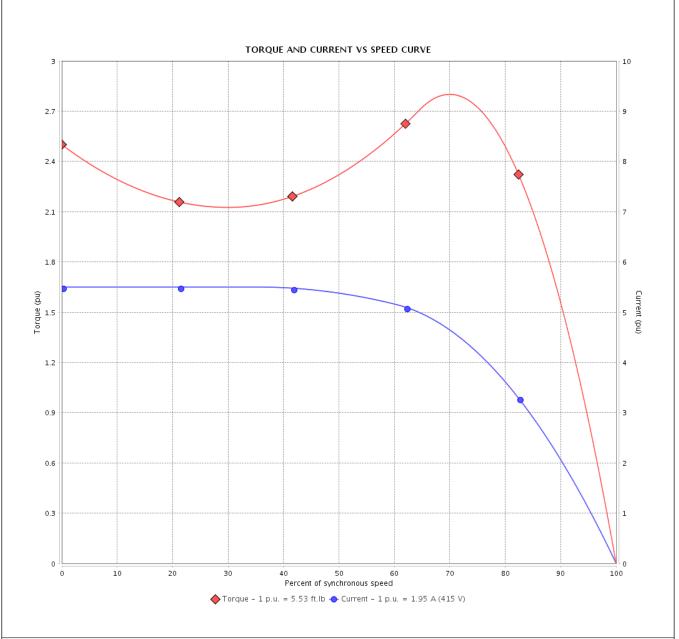
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821872

Catalog #: 00112ET3ER145TC-W22



Performance	: 415 V 50 Hz 6P IE2		
Rated current LRC	: 1.95 A : 5.5	Moment of inertia (J) Duty cycle	: 0.1595 sq.ft.lb : Cont.(S1)
Rated torque	: 5.53 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque Rated speed	: 280 % : 950 rpm	Temperature rise Design	: 80 K : B
Nateu speeu	. 900 Ipili	Design	. Б
Looked reter time	: 26c (cold) 20c (bot)		

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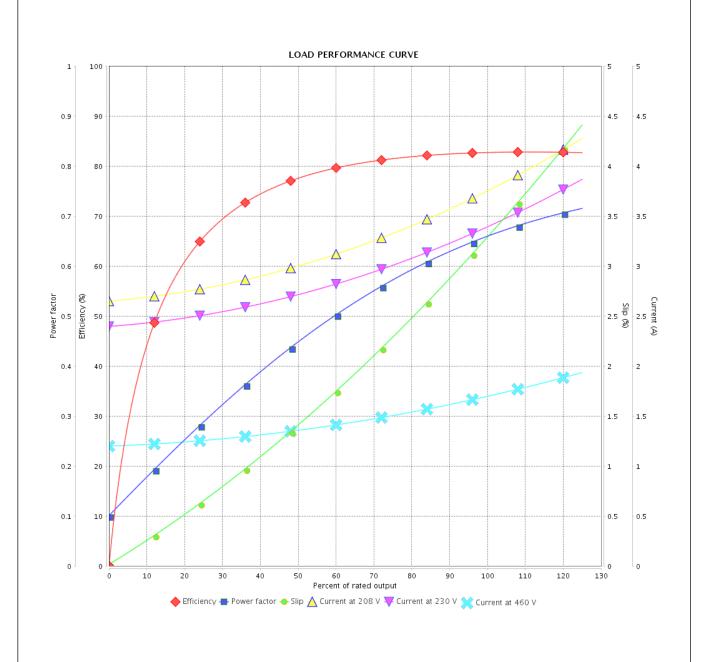


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821872

Phase

Catalog #: 00112ET3ER145TC-W22



Performance	:	: 230/460 V 60 Hz 6P				
Rated current	ed current : 3.46/1.73 A		Moment o	f inertia (J)	: 0.1595 sq.ft.l	b
LRC	:	6.2	Duty cycle	:	: Cont.(S1)	
Rated torque	:	4.53 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service fa	ctor	: 1.25	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed : 1160 rpm		1160 rpm	Design		: B	
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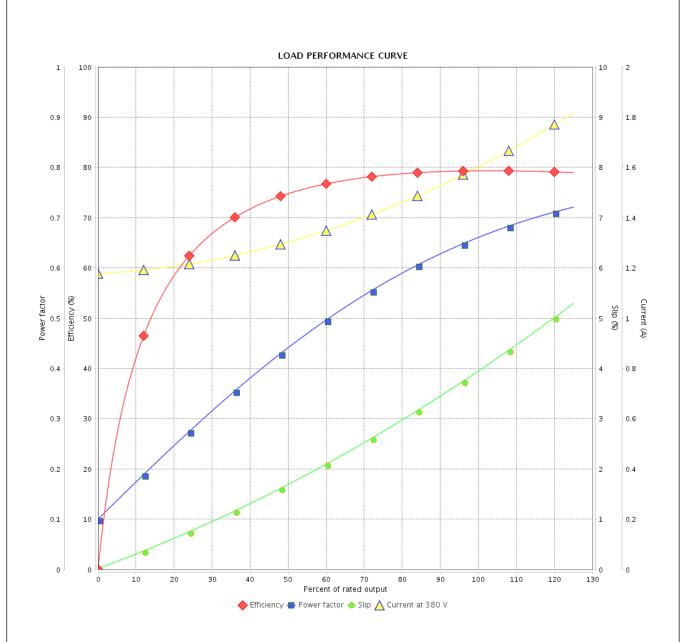
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Performance		: 380 V 50 Hz 6	6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.60 A : 5.8 : 4.10 ft.lb : 280 % : 310 % : 960 rpm		Moment of inertia (J) : 0.1595 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		lb	
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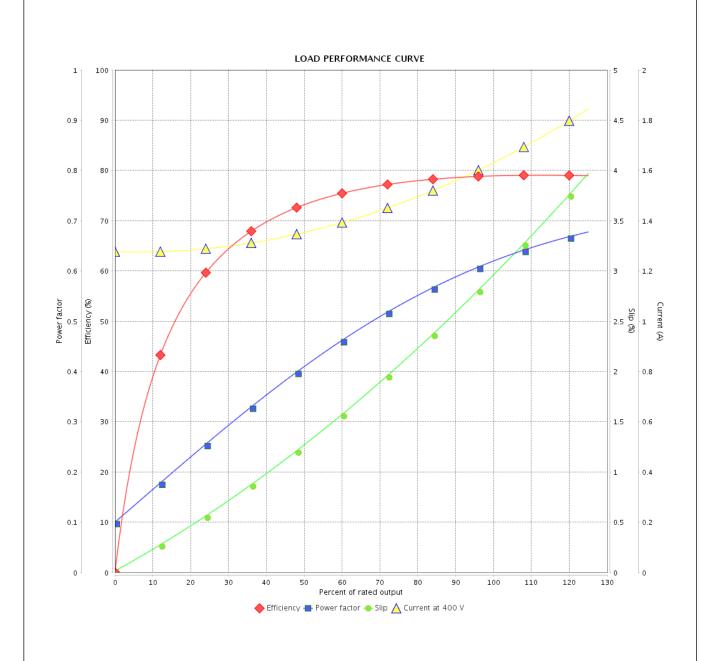
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3ER145TC-W22

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Performance	:	400 V 50 Hz 6P IE3				
Rated current	Rated current : 1.62 A Mon		Moment o	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 torque	e :	300 %	Service factor		: 1.00	
Breakdown torque	:	330 % Temperature ris		re rise : 80 K		
Rated speed	:	970 rpm	Design		: B	
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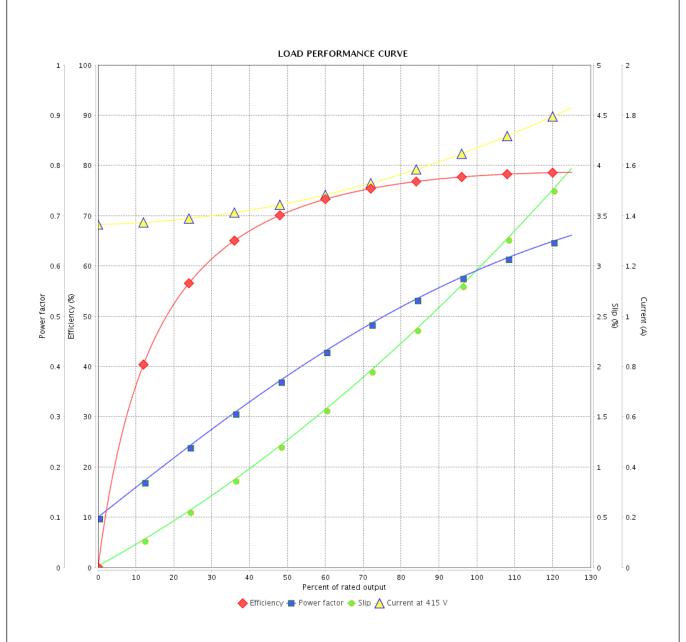
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12821872

Catalog #: 00112ET3ER145TC-W22

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Performance	: 415 V 50 Hz 6P IE3						
Rated current	: 1.66 A	Moment of inertia (J)		Moment of inertia (J) : 0.1595 sq.		: 0.1595 sq.ft.	lb
LRC	: 6.3	Duty cycle		: Cont.(S1)			
Rated torque	: 4.06 ft.lb	Insulation class		: F			
Locked rotor torque	: 320 %			: 1.00			
Breakdown torque	: 340 %			: 80 K			
Rated speed	: 970 rpm	Design		: B			
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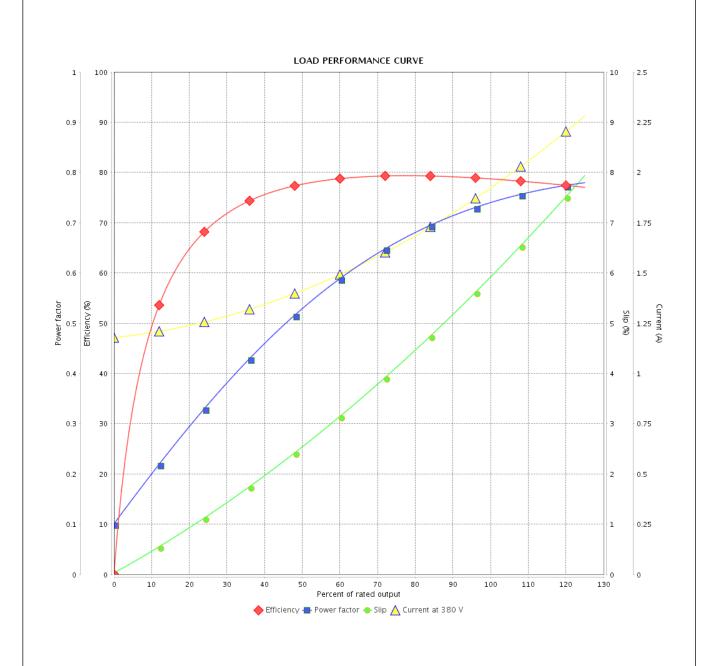
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821872

Phase

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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 cla Service facto Temperature Design	iss r	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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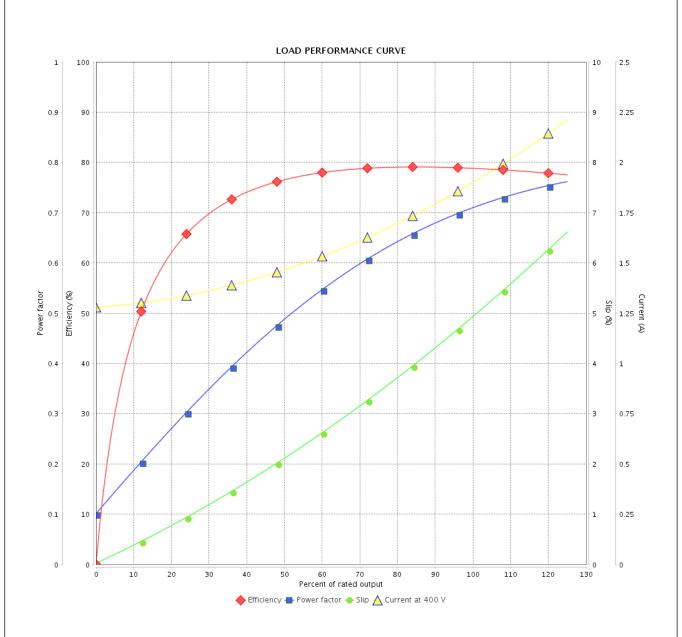
Product line : NEMA Premium Efficiency Three- Product

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Product code: 12821872

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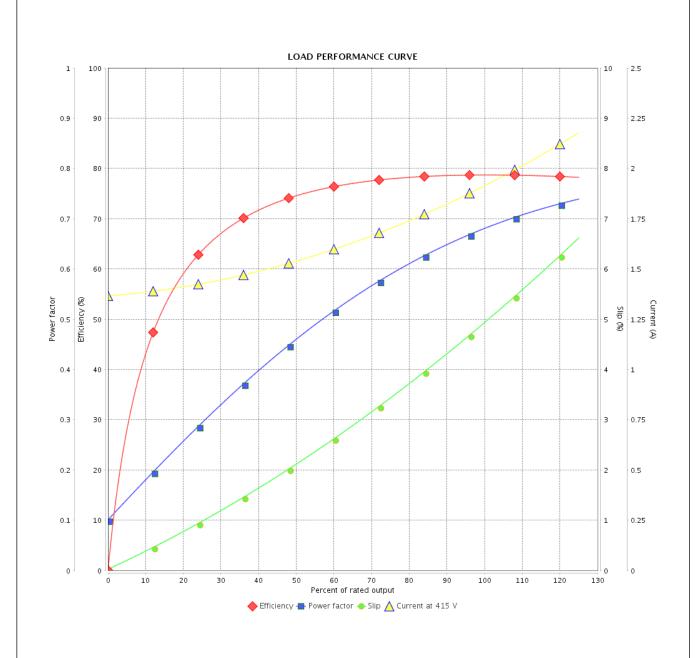
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Performance	: 415 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.95 A : 5.5 : 5.53 ft.lb : 250 % : 280 % : 950 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise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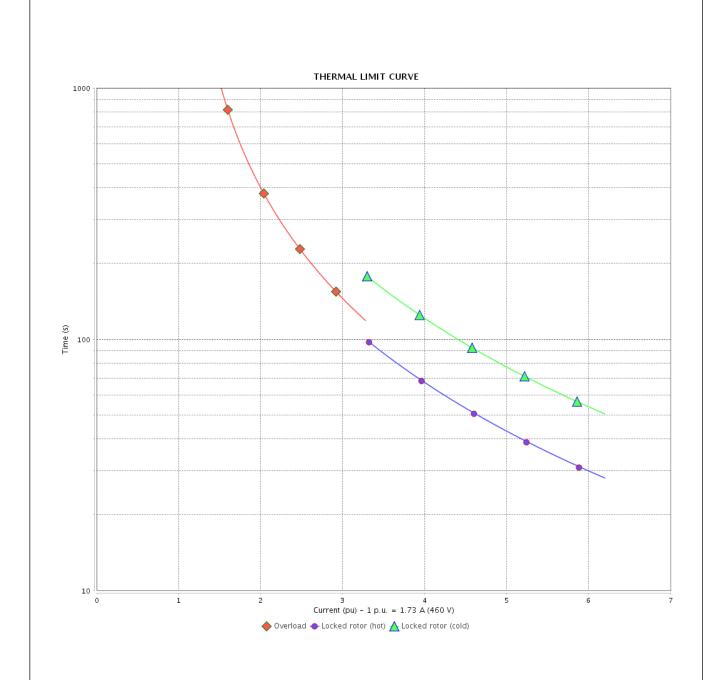


Customer	:				
Product line	: NEMA Premium Effic	ciency Three-	Product code :	12821872	
	Phase		Catalog # :	00112ET3EF	R145TC-W22
Performance	: 230/460 V 60 Hz 6P				
Rated current	: 3.46/1.73 A	Moment o	of inertia (J)	: 0.1595 sq.ft.l	b
LRC Rated torque	: 6.2 : 4.53 ft.lb	Duty cycle Insulation	e ı class	: Cont.(S1) : F	
Locked rotor torque	: 260 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 300 % : 1160 rpm	Temperat Design	ure rise	: 80 K : B	
		= -0.3		<u>-</u>	
Heating constant Cooling constant					
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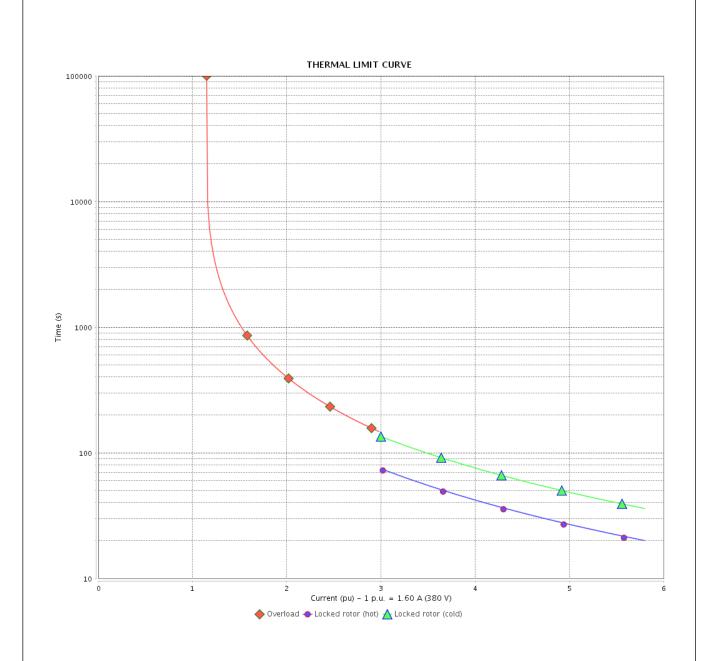


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12821872	04.45TO W00
			Catalog # :	00112ET3EF	(1451C-VV22
	: 380 V 50 Hz 6P IE3				
	: 1.60 A : 5.8	Moment of	f inertia (J)	: 0.1595 sq.ft.l	b
	: 4.10 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
	: 280 %	Service fa		: 1.00	
Breakdown torque	: 310 %	Temperatu		: 80 K	
	: 960 rpm	Design		: B	
Heating constant					
Cooling constant					
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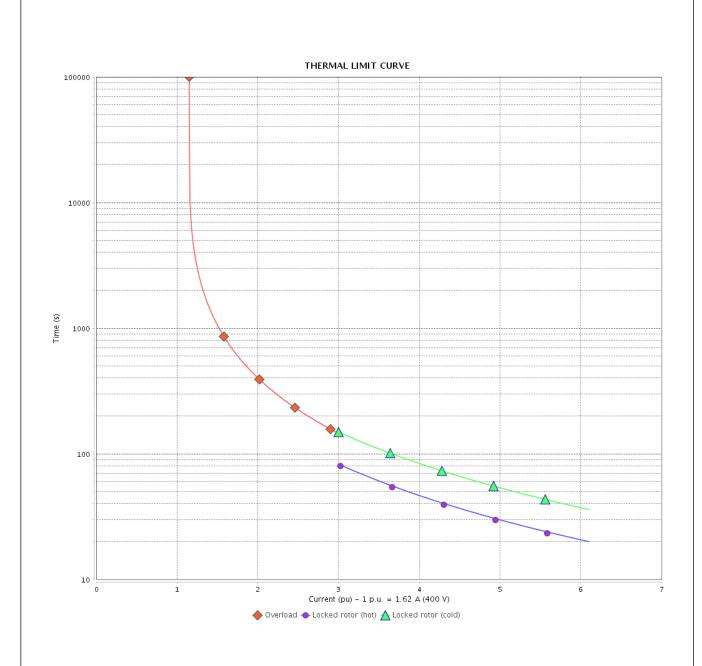


Customer	:				
	·				
Product line	: NEMA Premium Efficienc	cy Three-	Product code :	12821872	
	Phase				R145TC-W22
			Catalog # :	00112E13EF	R1451C-VV22
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC	: 1.62 A : 6.1	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft. : Cont.(S1)	b
Rated torque	: 4.06 ft.lb	Insulation	class	: F	
Locked rotor torque	: 300 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 330 % : 970 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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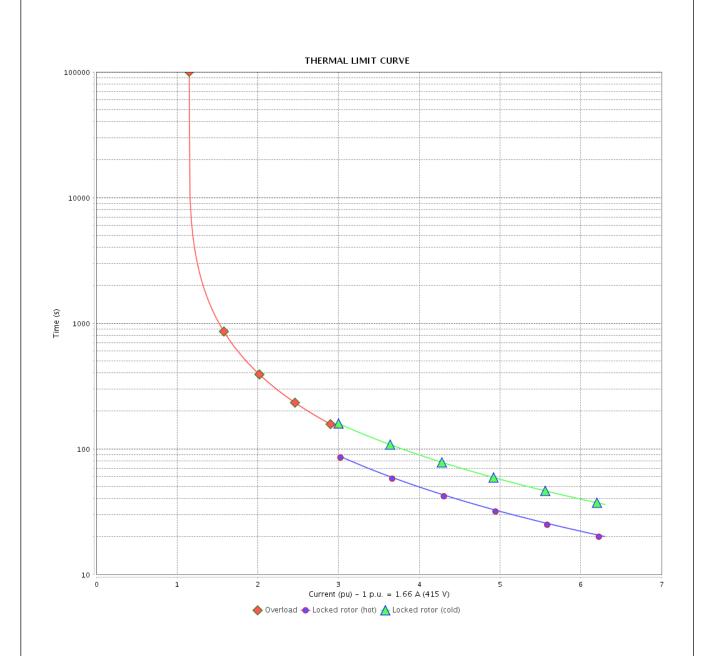


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821872 00112ET3ER	145TC-W22
					0011221021	114010 WZZ
Performance	:	: 415 V 50 Hz 6P IE3				
Rated current LRC		: 1.66 A : 6.3	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque	:	: 4.06 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 320 % : 340 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 970 rpm	Design	u. 5 1100	: B	
Heating constan						
Cooling constant	t					
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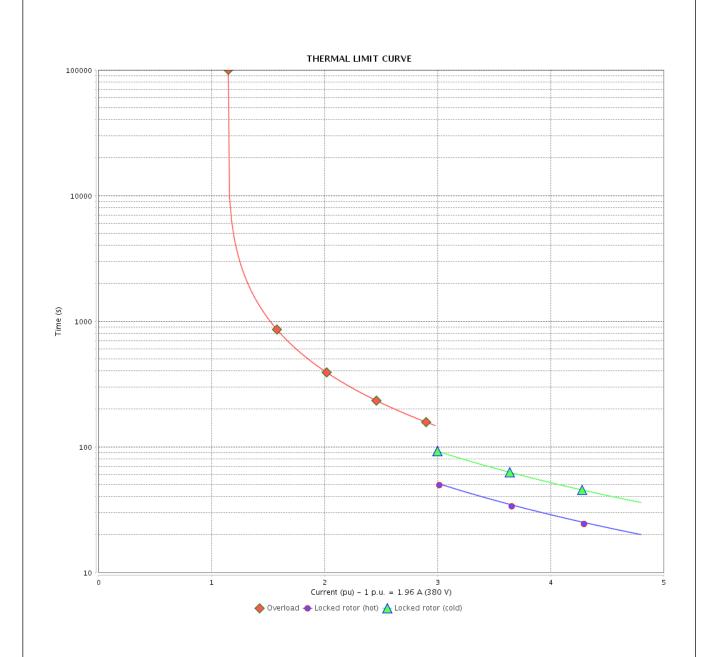


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821872 00112ET3EF	R145TC-W22
Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC	: 1.96 A : 4.8	Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torque	: 5.59 ft.lb : 200 %	Insulation Service fa	ctor	: F : 1.00	
Breakdown torque Rated speed	: 220 % : 940 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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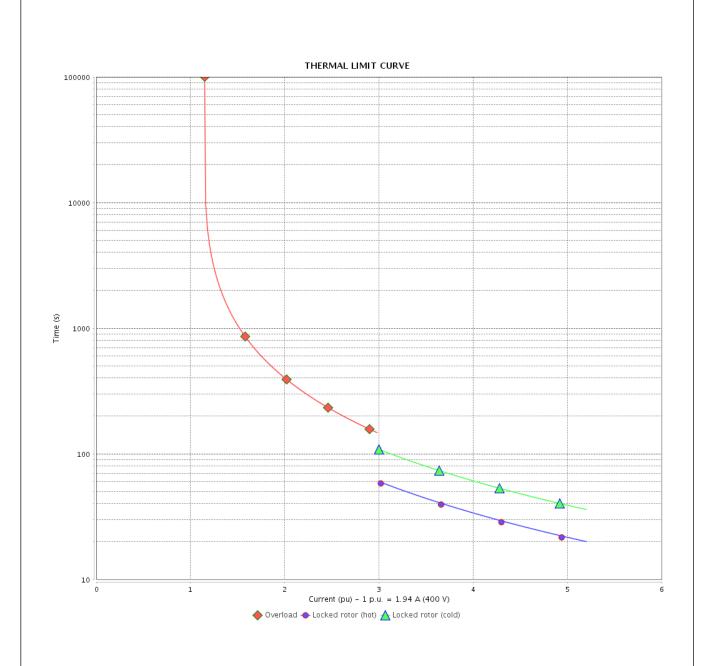


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821872 00112ET3ER	145TC-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	1.94 A 5.2 5.53 ft.lb 229 % 260 % 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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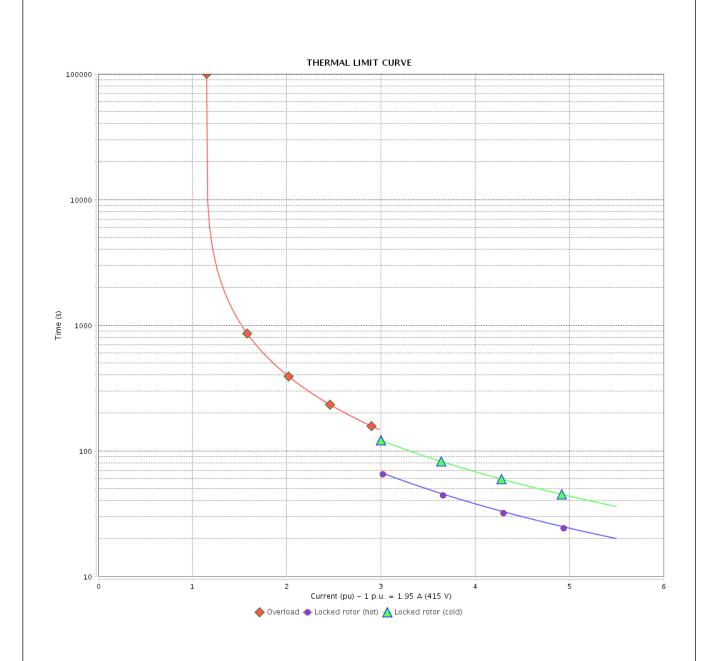


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821872 00112ET3ER	145TC-W22
				- Catalog # .	0011221021	111010 1122
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 1.95 A : 5.5	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated 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	uro 1100	: B	
Heating constan						
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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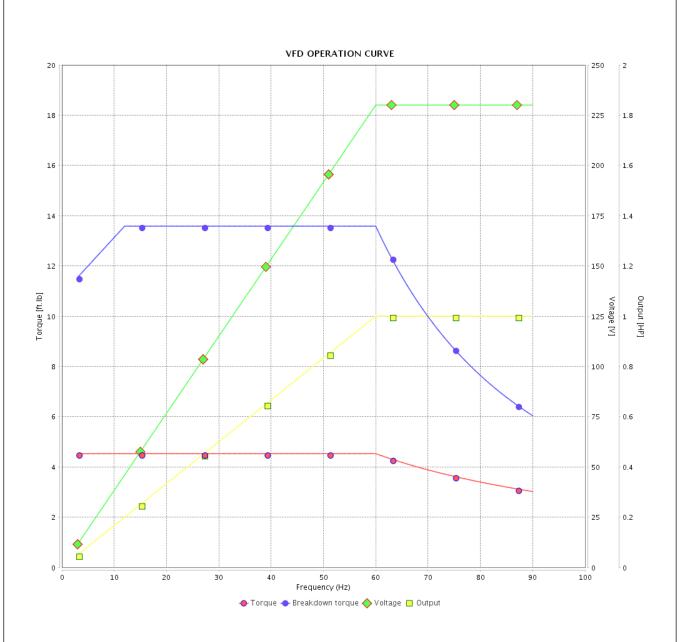
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821872

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Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	RC : 6.2 Duty cycle Insulation class socked rotor torque : 260 % Service factor reakdown torque : 300 % Temperature rise		e class actor	: 0.1595 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb	
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Product line : NEMA Premium Efficiency Three- Product code : 12821872

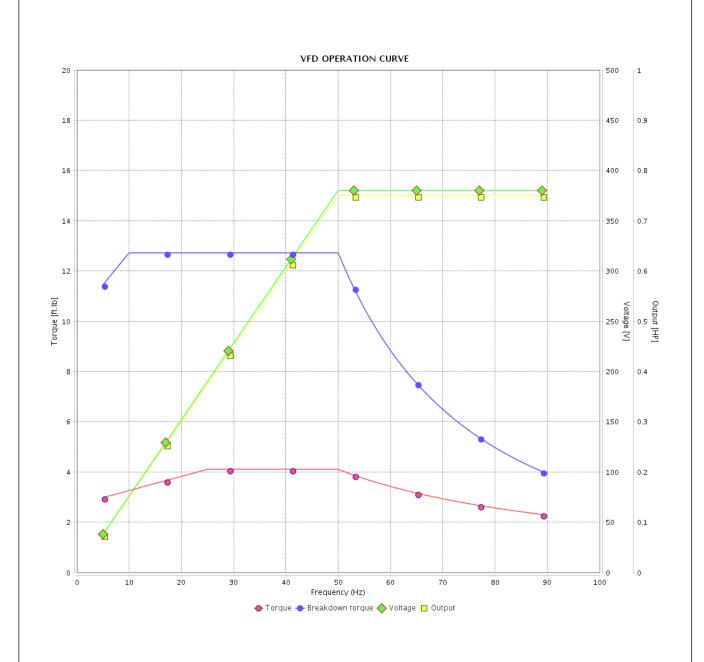
Phase

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Performance	: 380 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle ft.lb Insulation 6 Service fa 6 Temperat		: 0.1595 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : B	.lb	
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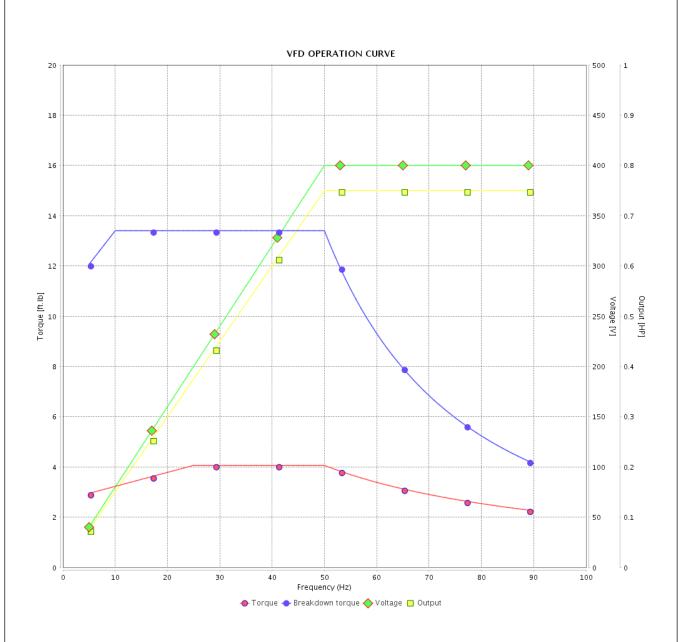
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code : 12821872

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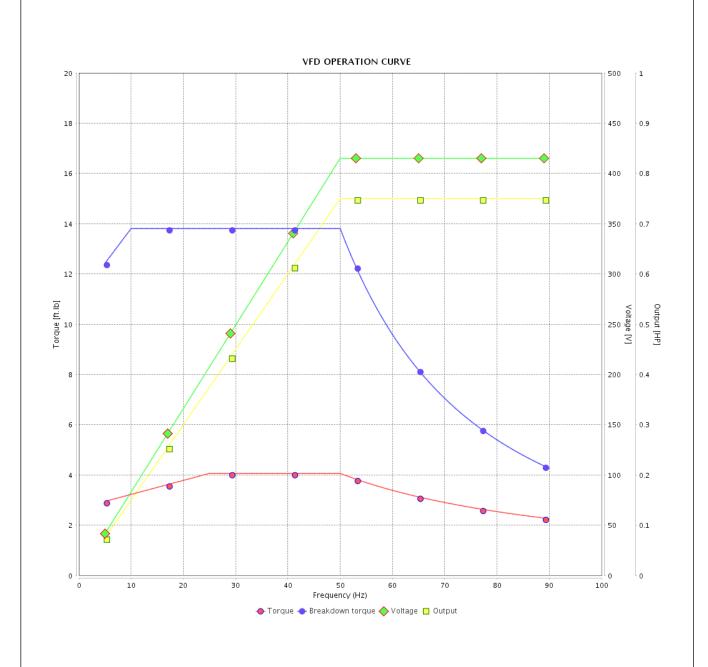


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Phase

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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)	: Cont.(S1)	
Rated torque	: 4.	.06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 32	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 34	40 %	Temperati	ure rise	: 80 K	
Rated speed	: 97	70 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- F

Phase

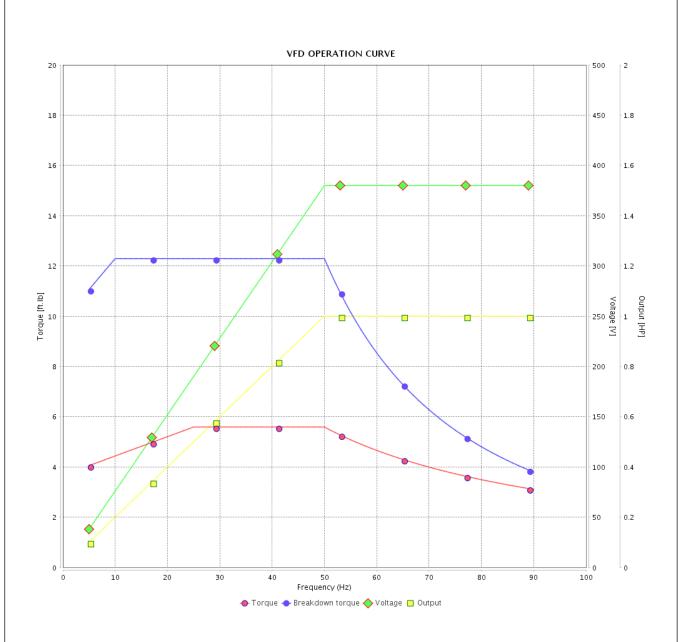
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Performance	: 3	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 5 que : 2 ue : 2	.96 A .8 .59 ft.lb 00 % 20 % 40 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	b
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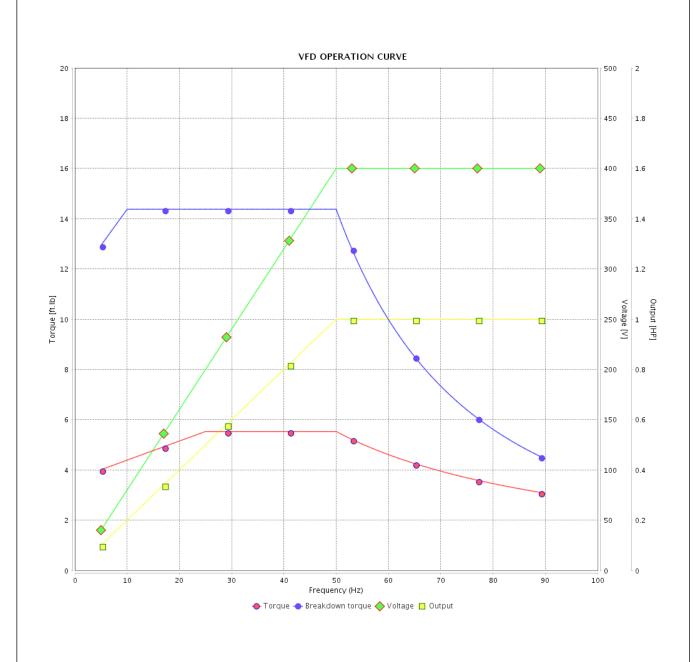
Product line : NEMA Premium Efficiency Three- Product coo

Phase

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Performance	: 400 V 50 Hz 6P IE2	: 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				
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Product line : NEMA Premium Efficiency Three-

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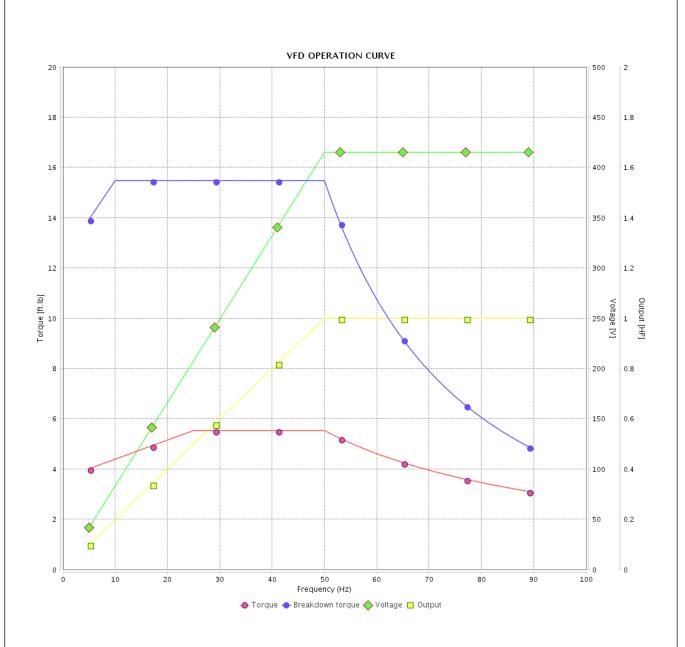
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Performance		: 415 V 50 Hz 6	SP IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.95 A : 5.5 : 5.53 ft.lb : 250 % : 280 % : 950 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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