DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11460238

Catalog #: 05018ET3E326TS-W22

Frame : 324/6TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 592 lb

: IP55 Protection degree Moment of inertia (J) : 9.16 sq.ft.lb

Design

Design		: B						
Output [HP]		50	40	40	40	50	50	50
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		118/59.2	58.7	57.1	56.4	71.6	68.4	66.3
L. R. Amperes [A]		734/367	376	400	417	372	397	411
LRC [A]		6.2x(Code G)	6.4x(Code G)	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)
No load current [A]	47.0/23.5	23.0	24.0	25.0	23.0	24.0	25.0
Rated speed [RPI	/ 1]	1775	1470	1475	1478	1460	1465	1470
Slip [%]		1.39	2.00	1.67	1.47	2.67	2.33	2.00
Rated torque [ft.lb]	Rated torque [ft.lb]		143	142	142	180	179	179
Locked rotor torqu	e [%]	229	229	250	260	180	200	210
Breakdown torque	[%]	270	260	300	330	210	240	260
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	105 K	105 K	105 K
Locked rotor time		27s (cold) 15s (hot)	19s (cold) 11s (hot)					
Noise level ²		66.0 dB(A)	63.0 dB(A)					
	25%	92.5	91.9	90.6	90.8	93.3	92.2	91.8
Efficiency (%)	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4
Elliciency (70)	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	92.4	93.0	93.5
	25%	0.42	0.41	0.38	0.35	0.48	0.45	0.42
Power Factor	50%	0.66	0.64	0.60	0.57	0.72	0.68	0.65
I OWEI Facior	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83

Non drive end Foundation loads Drive end

Bearing type 6312 C3 6212 C3 Max. traction : 1486 lb V'Ring Sealing V'Ring : 2078 lb Max. compression

Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 131A SF 1.15 SFA 151A

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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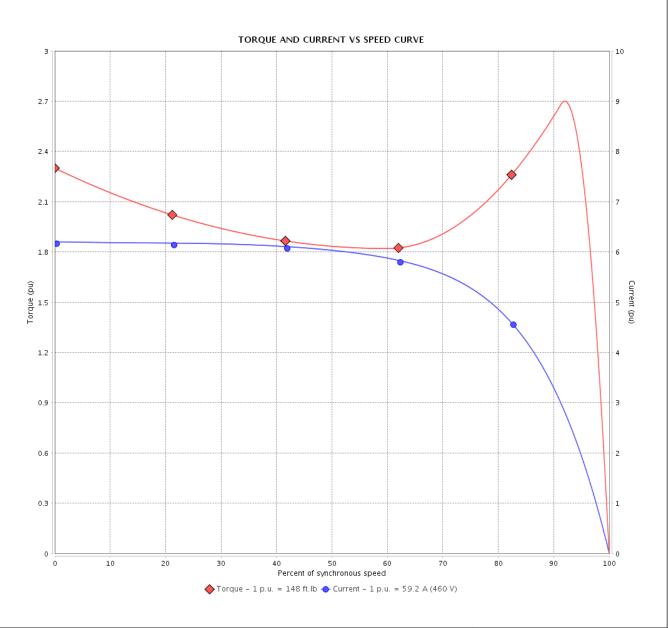
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11460238

Catalog #: 05018ET3E326TS-W22



Performance : 230/460 V 60 Hz 4P Rated current : 118/59.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11460238 Catalog #: 05018ET3E326TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 143 ft.lb ◆ Current - 1 p.u. = 58.7 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Performed Checked Date Rev. **Changes Summary**

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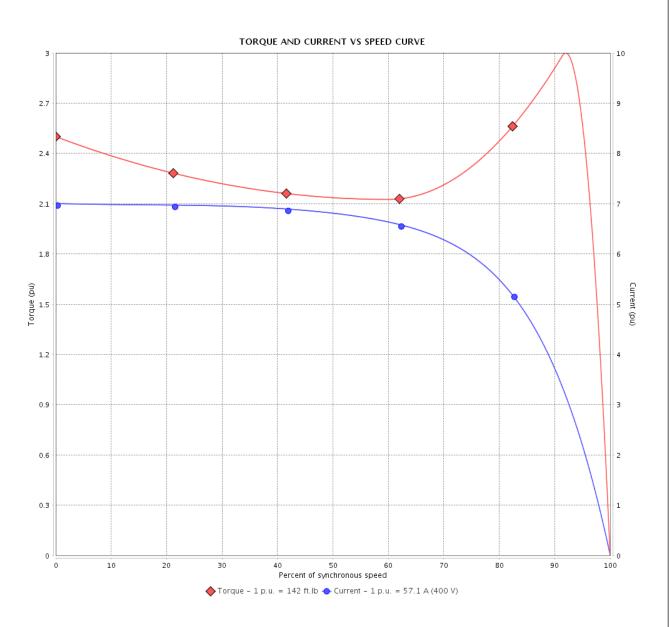
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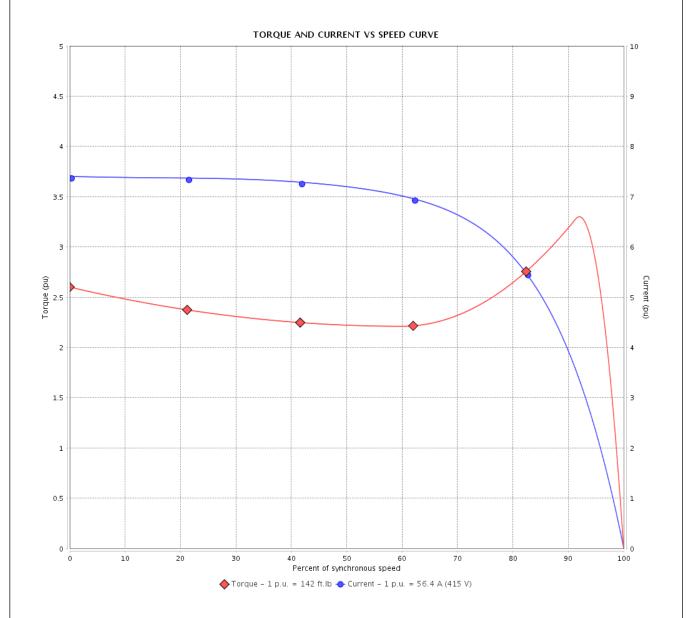
Performance : 400 V 50 Hz 4P IE3 Rated current : 57.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11460238 Catalog #: 05018ET3E326TS-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 56.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 142 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K : B Rated speed : 1478 rpm Design Locked rotor time : 19s (cold) 11s (hot)

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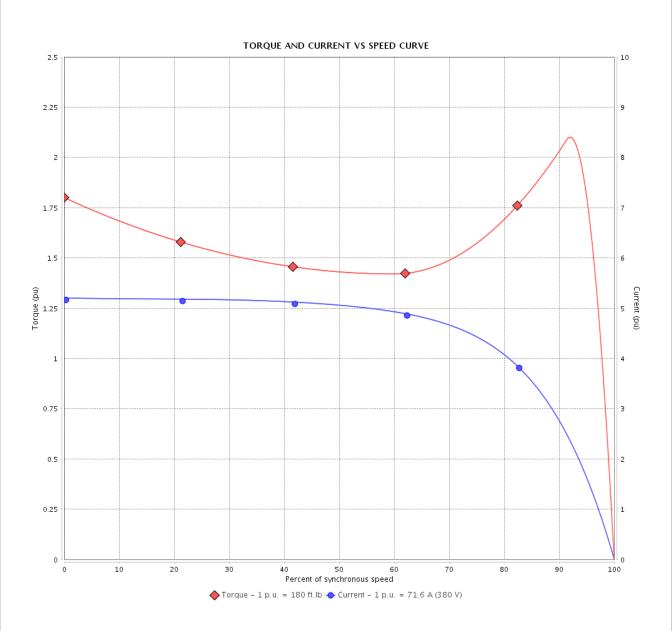
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11460238

Catalog #: 05018ET3E326TS-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 71.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 180 ft.lb : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

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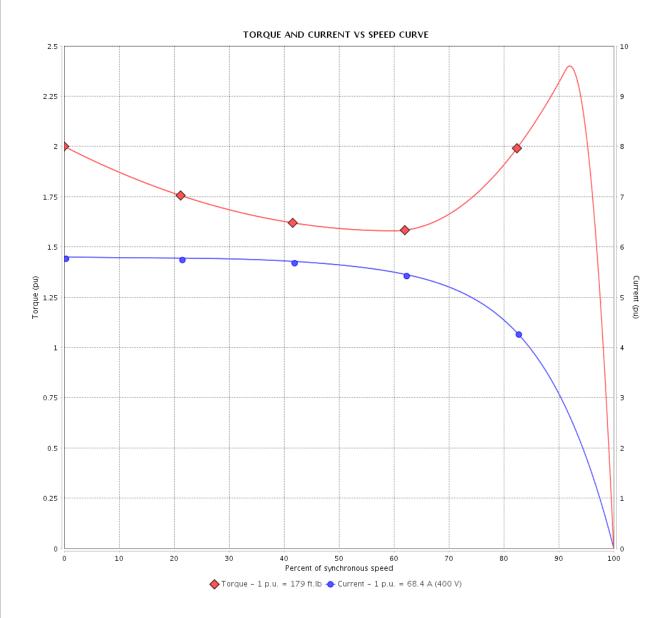


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Product line : NEMA Premium Efficiency Three- Product code : 11460238

Phase

Catalog #: 05018ET3E326TS-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 68.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 179 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1465 rpm	Design	: B	

LOCKCO TOTOL UITK	. 1.	33 (cold) 113 (flot)			
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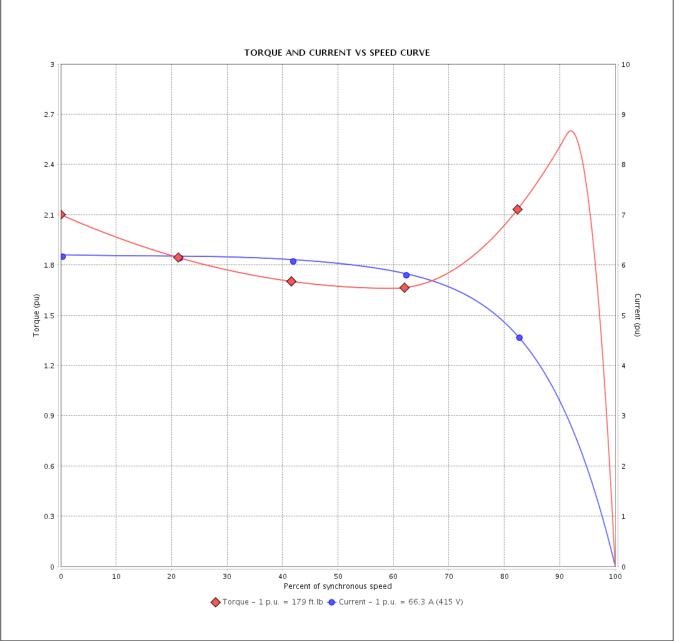
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11460238



Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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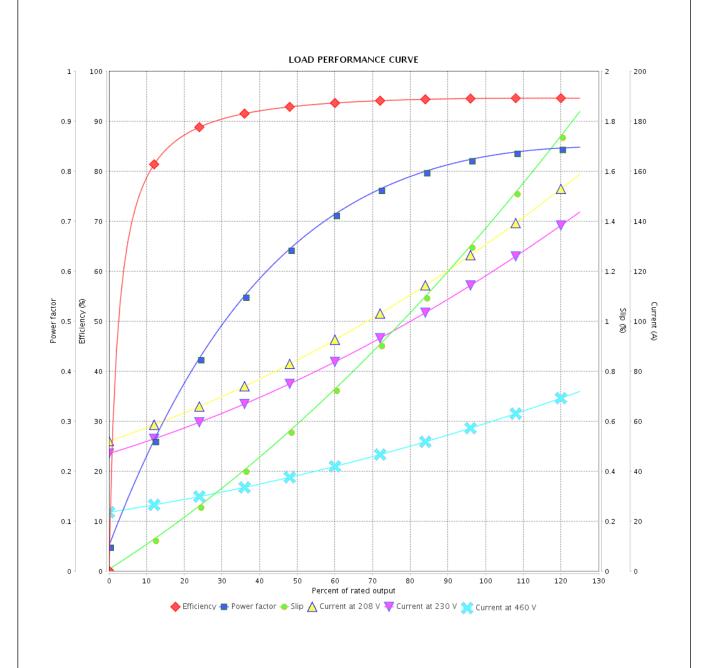
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11460238

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Performance	: 23	30/460 V 60 Hz 4P				
Rated current : 118/59.2 A LRC : 6.2			Moment of inertia (J) Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	ated torque : 148 ft.lb Insulation class		1			
Breakdown torque		70 % 775 rpm		Temperature rise		
Rated speed Rev.	. 1.	Changes Summar		Performed	: B Checked	Date
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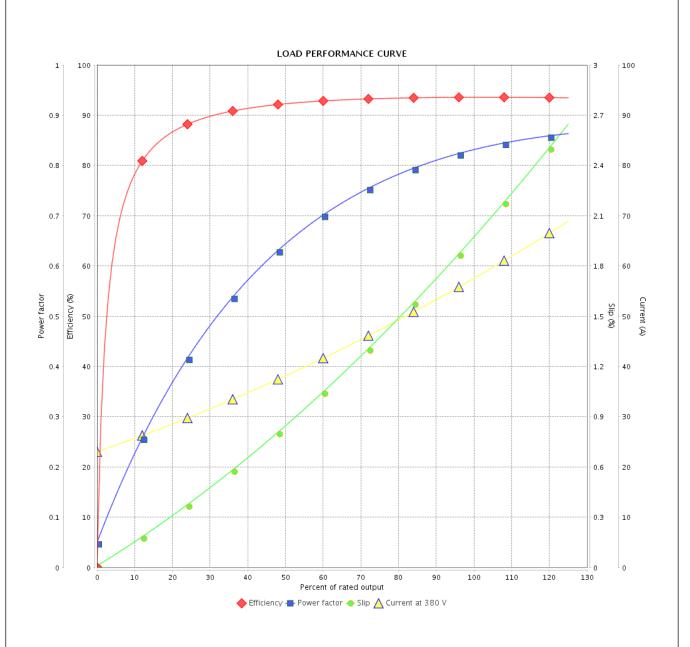
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Phase

Product code: 11460238

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 143 ft.lb : 229 % : 260 % : 1470 rpm	Moment of inertia (J) : 9.7 Duty cycle : Co Insulation class : F Service factor : 1.0 Temperature rise : 80 Design : B		
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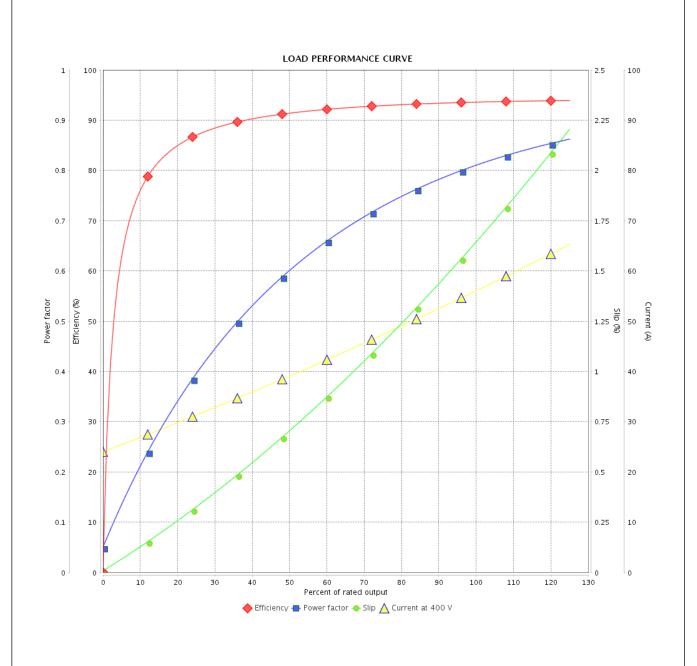


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Product line : NEMA Premium Efficiency Three- Product code : 11460238

Phase

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Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	ated current : 57.1 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	300 %	Temperature rise		: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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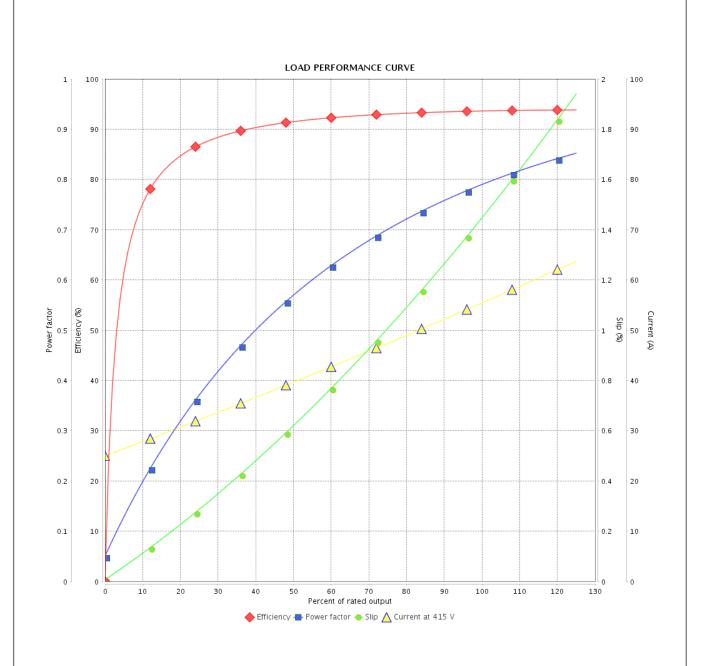
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Phase

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11460238

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 7.4 : 142 ft.lb : 260 % : 330 % : 1478 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass tor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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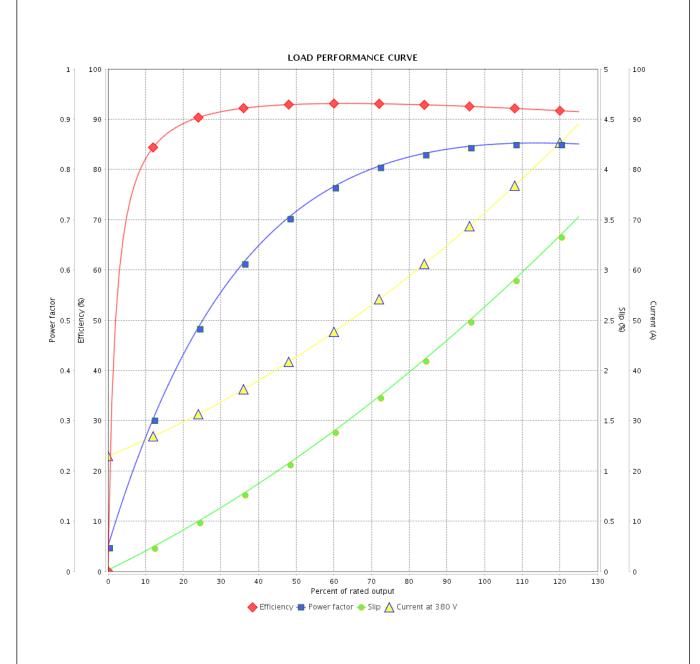


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Performance	: 3	380 V 50 Hz 4P IE1					
Rated current	: 7	71.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 5	5.2	Duty cycle		: Cont.(S1)		
Rated torque	:1	180 ft.lb	Insulation	class	: F		
Locked rotor torque	e :1	180 %	Service fa	ctor	: 1.00		
Breakdown torque		210 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 1	1460 rpm	Design		: B		
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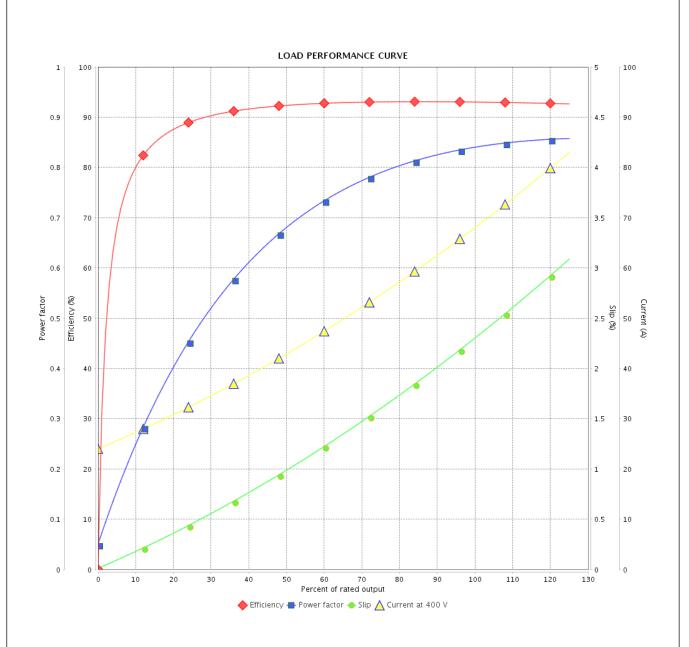
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Performance	: 400 V 50 Hz 4P IE2				
		Moment of inertia (J)		: 9.16 sq.ft.lb	
Rated torque : 179 ft.lb				: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 240 %			: 105 K	
Rated speed	: 1465 rpm	Design		: B	
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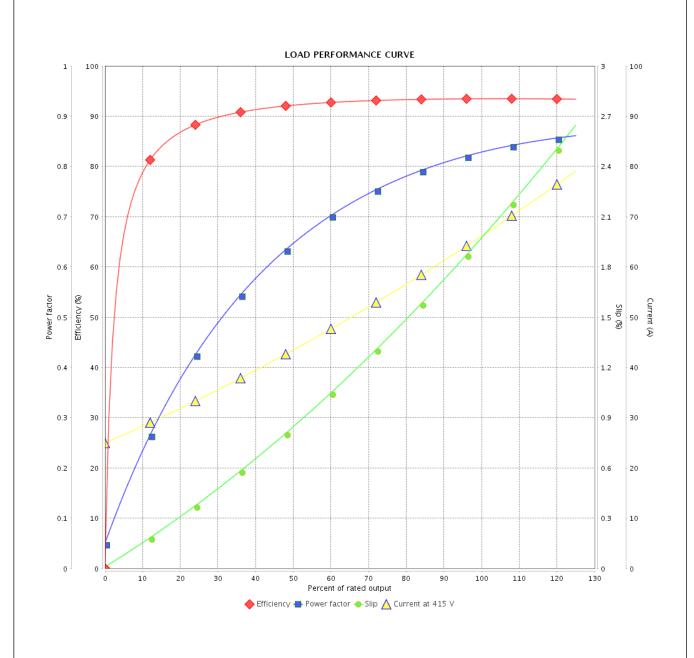


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460238

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Performance	erformance : 415 V 50 Hz 4P IE2					
Rated current	ated current : 66.3 A		Moment o	Moment of inertia (J)		
LRC	: 6	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	79 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperati	Temperature rise		
Rated speed	: 1	470 rpm	Design		: B	
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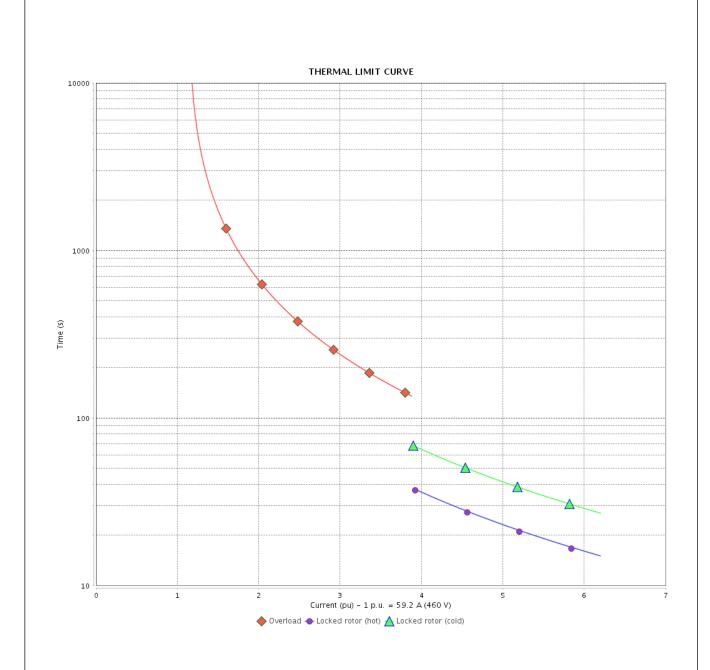


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11460238 05018ET3E32	26TS-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC	: 11 : 6.	18/59.2 A 2	Moment of Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 14	48 ft.lb	Insulation	class	: F	
Locked rotor torqu		29 % 70 %	Service fa		: 1.25	
Breakdown torque Rated speed		70 % 775 rpm	Temperatu Design	ITE FISE	: 80 K : B	
Heating constant Cooling constant						
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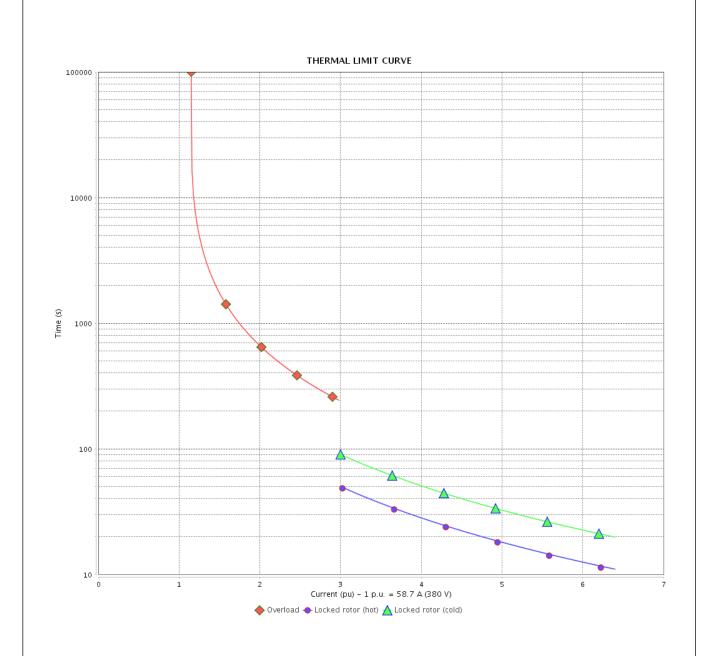


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11460238 05018ET3E32	26TS-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 58.7 A : 6.4	Moment of	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 143 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1470 rpm	Design	are rise	: B	
Heating constan						
Cooling constant	τ	Changes Summers		Dorformed	Chaokad	Doto
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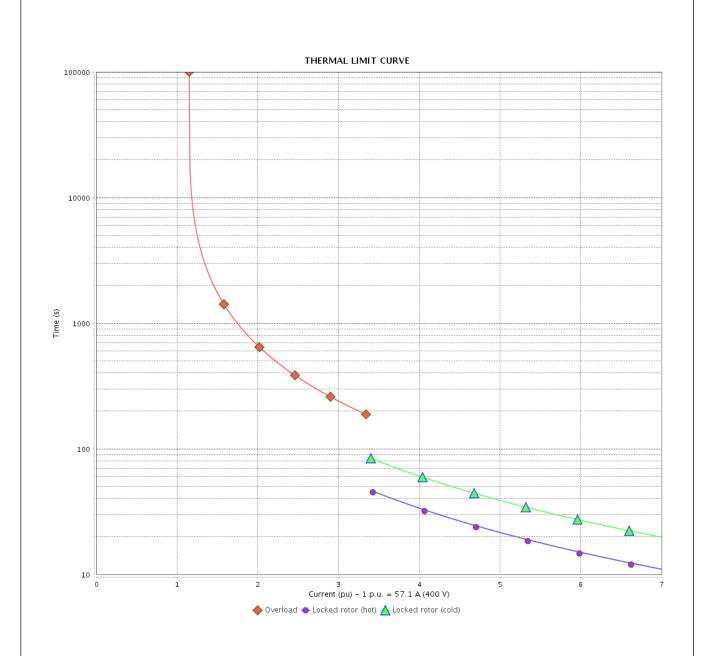


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11460238 05018ET3E32	26TS-W22
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC		7.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 14	42 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 00 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		30 % 475 rpm	Design	are rise	: B	
Heating constant Cooling constant						
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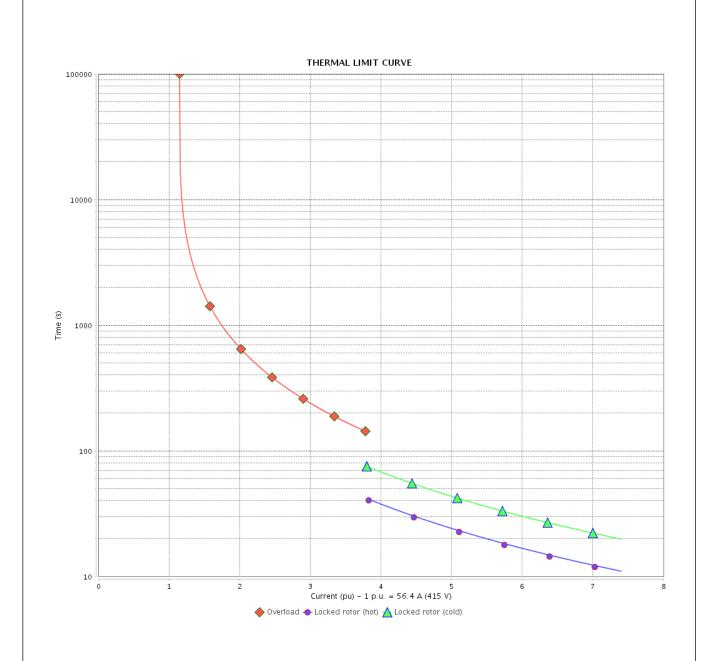


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11460238	222 1400
			Catalog # :	05018ET3E3	26TS-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 7.4 : 142 ft.lb : 260 % : 330 % : 1478 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant					
Cooling constant	Changes Summani		Performed	Checked	Doto
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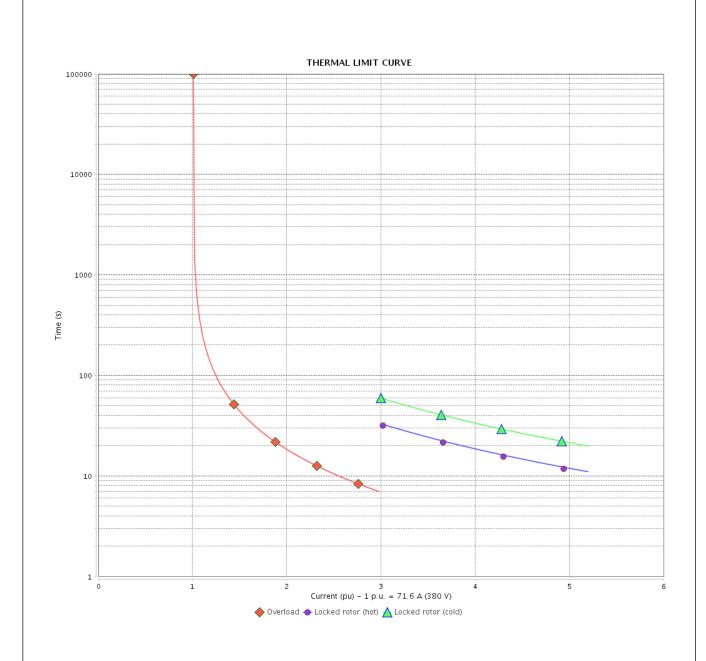


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Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11460238	
		Tildoc		Catalog # :	05018ET3E3	326TS-W22
Performance		380 V 50 Hz 4P IE1				
Rated current		71.6 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC	:	5.2	Duty cycle	e	: Cont.(S1)	
Rated torque		180 ft.lb	Insulation		: F : 1.00	
Locked rotor tord Breakdown torqu		180 % 210 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		1460 rpm	Design	uic lisc	: B	
		r				
Heating constan						
Cooling constan	Ţ.	Oh sa sa O		David 1	Ob. 1	
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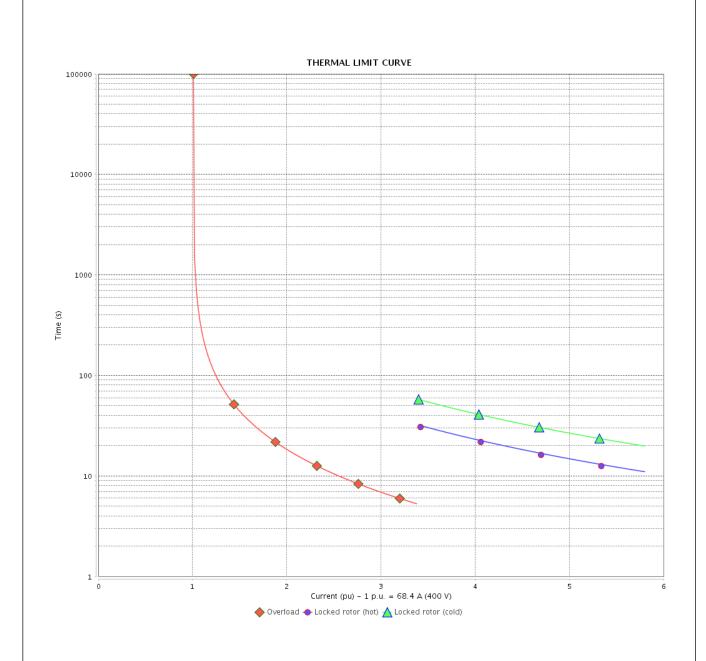


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11460238 05018ET3E32	26TS-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque		: 68.4 A : 5.8 : 179 ft.lb	Moment of Duty cycle Insulation		: 9.16 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 200 % : 240 %	Service fa Temperat	actor	: 1.00 : 105 K	
Rated speed		: 1465 rpm	Design	ui C 113C	: B	
Heating constant						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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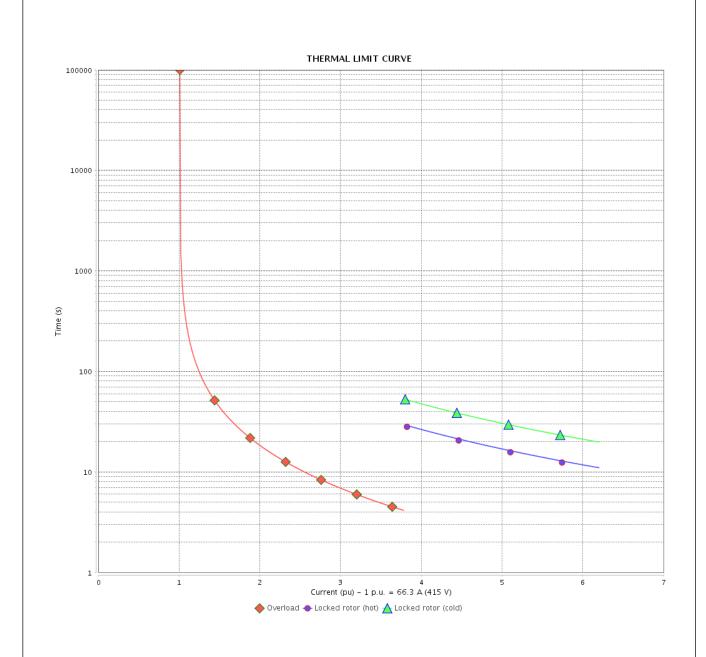


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11460238 05018ET3E32	26TS-W22
Performance Rated current		: 415 V 50 Hz 4P IE2 : 66.3 A	Momont	of inertia (J)	: 0.16 ag ft lb	
LRC		: 6.2	Duty cycle	е	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 179 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 260 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1470 rpm	Design	· 	: B	
Heating constan						
Cooling constant	t	Observe O		D- ()	Ob. 1	
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

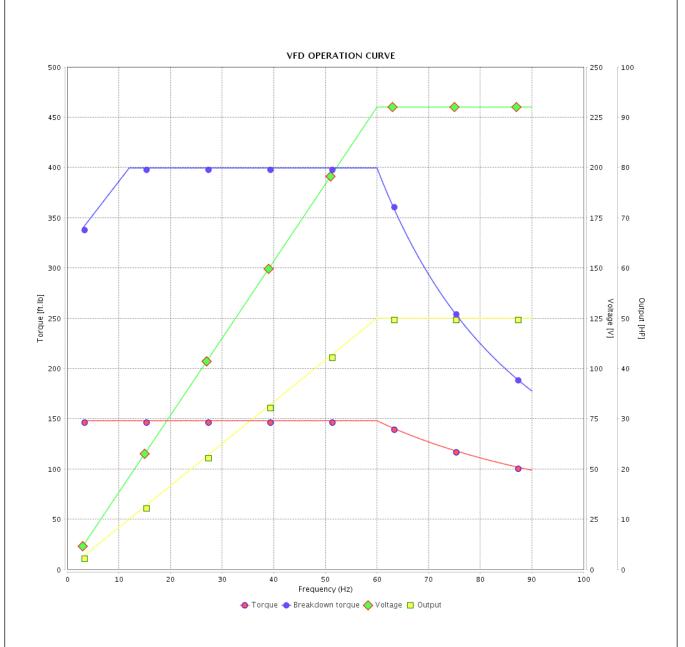
Product code: 11460238

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Performance		: 230/460 V 6	60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 118/59.2 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes	Summary		Performed	Checked	Date
Performed by							

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

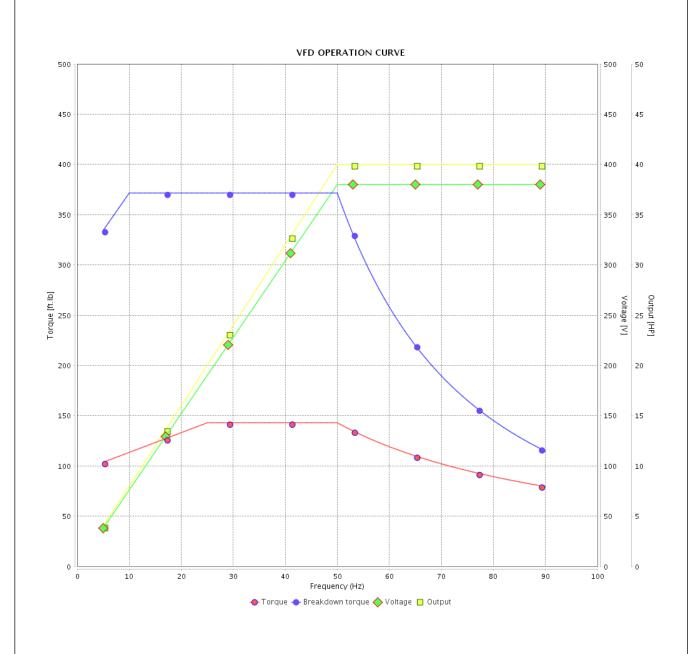
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Revision



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summar	ry	Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



Customer :

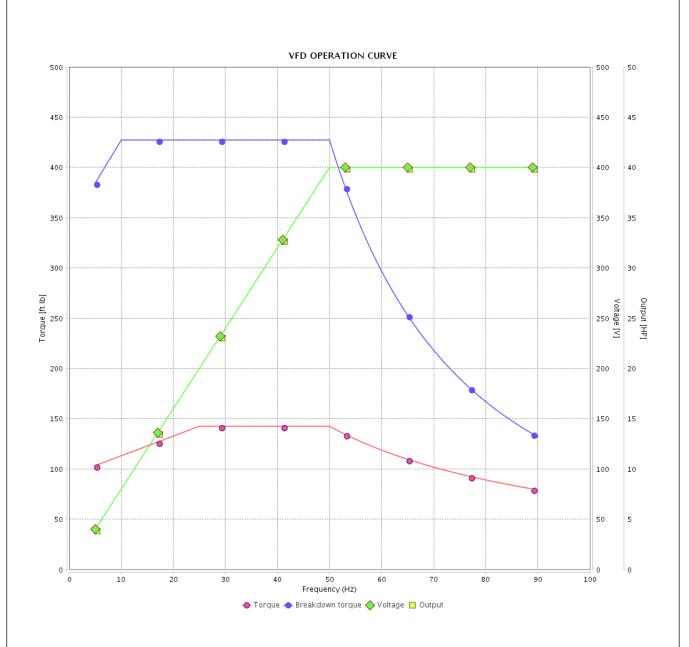
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 4	100 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 3	57.1 A 7.0 42 ft.lb 250 % 600 % 475 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ary	Performed	Checked	Date
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12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

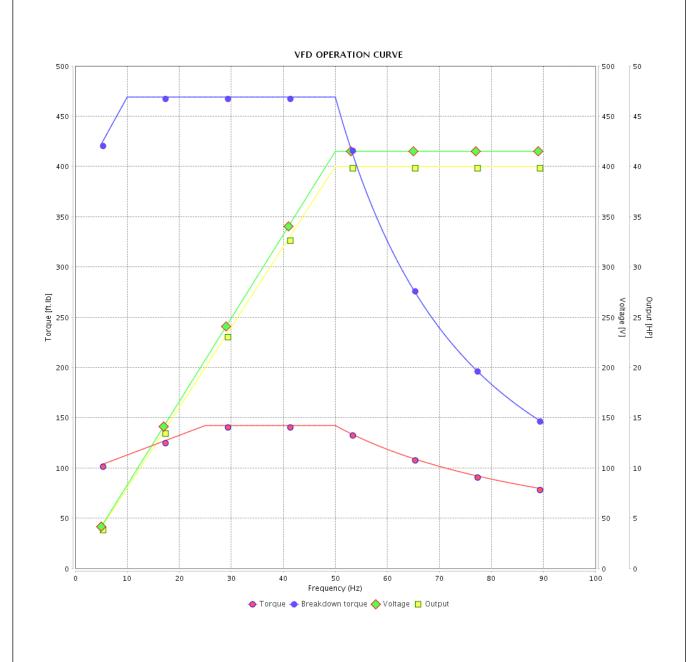


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460238

Phase

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Performance	: 4	115 V 50 Hz 4P IE3						
Rated current	: 5	56.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb			
LRC	: 7	7.4	Duty cycle)	: Cont.(S1)			
Rated torque	: 1	42 ft.lb	Insulation	Insulation class : F				
Locked rotor torque	e : 2	260 %	Service fa	Service factor : 1.00				
Breakdown torque	: 3	330 %	Temperati	Temperature rise : 80 K				
Rated speed	: 1	478 rpm	Design		: B			
Rev.	Rev. Changes Summary			Performed	Checked	Date		
Performed by								
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Phase

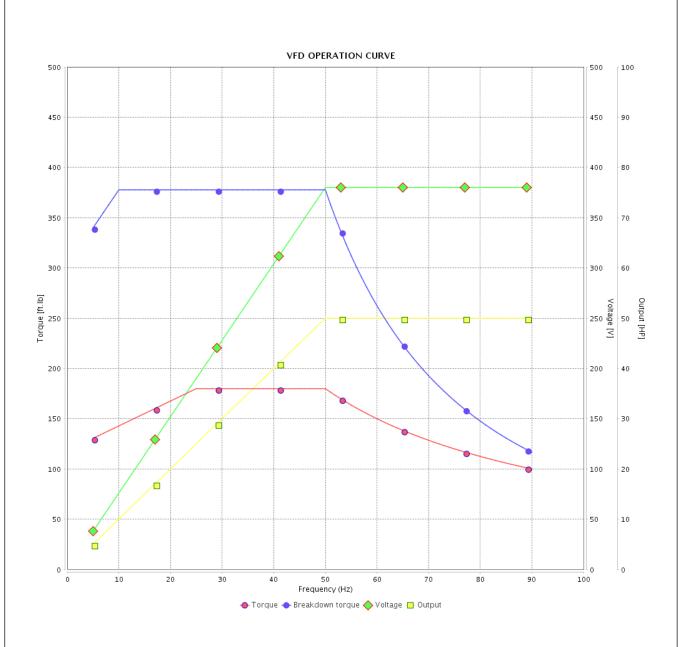
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Performance		: 380 V 50 Hz 4P IE	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 71.6 A : 5.2 : 180 ft.lb : 180 % : 210 % : 1460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

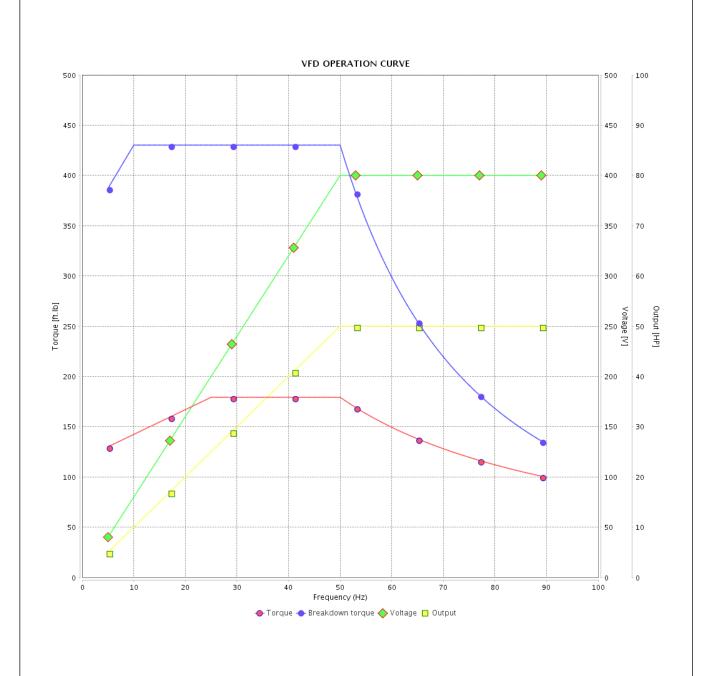


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11460238

Phase

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Performance	:	400 V 50 Hz 4P IE2					
Rated current :		68.4 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb		
LRC	:	5.8	Duty cycle	Duty cycle : Cont.(S1)			
Rated torque		179 ft.lb	Insulation	Insulation class : F			
Locked rotor torque		200 %	Service fa	ctor	: 1.00		
Breakdown torque		240 %	Temperati				
Rated speed	:	1465 rpm	Design		: B		
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Phase

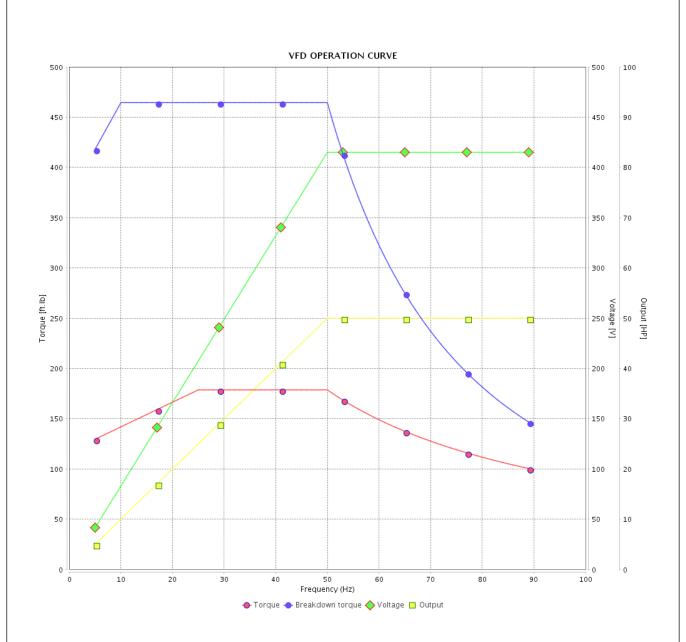
Product code: 11460238

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Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 179 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

