DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13469733

Catalog #: 00336ET3E145JP-W22

Frame : 143/5JP 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 : 57.3 lb

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Protection degre	е	: IP55		Momer	nt of inertia (J)	: (0.0605 sq.ft.lb		
Design		: B							
Output [HP]		3	2	2	2	3	3	3	
Poles		2	2	2	2	2	2	2	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		230/460	380	400	415	380	400	415	
Rated current [A]		7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13	
L. R. Amperes [A]		60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3	
LRC [A]		8.1x(Code J)	8.6x(Code L)	9.2x(Code	9.5x(Code	6.1x(Code	6.7x(Code H)	7.1x(Code H	
				M)	M)	G)			
No load current [A	.]	2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55	
Rated speed [RPI	Л]	3460	2890	2905	2910	2820	2840	2850	
Slip [%]		3.89	3.67	3.17	3.00	6.00	5.33	5.00	
Rated torque [ft.lb]		4.55	3.63	3.62	3.61	5.59	5.55	5.53	
Locked rotor torqu	ie [%]	330	400	459	490	260	300	320	
Breakdown torque	: [%]	360	400	459	509	260	300	330	
Service factor		1.25	1.25	1.00	1.00	1.25	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time		25s (cold)	25s (cold)	23s (cold)	23s (cold)	25s (cold)	23s (cold)	23s (cold)	
		14s (hot)	14s (hot)	13s (hot)	13s (hot)	14s (hot)	13s (hot)	13s (hot)	
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
	25%	85.2	80.8	80.9	80.9	83.9	84.0	84.4	
Efficiency (%)	50%	85.5	81.9	82.0	82.2	84.0	84.5	85.0	
75%		86.5	84.0	84.4	84.8	85.0	85.5	86.0	
	100%	86.5	84.8	85.3	85.9	84.6	85.6	86.2	
	25%	0.47	0.41	0.37	0.34	0.54	0.49	0.45	
Power Factor	50%	0.70	0.63	0.58	0.55	0.76	0.72	0.69	
FOWEI FACIOI	75%	0.81	0.76	0.72	0.69	0.85	0.82	0.80	
	100%	0.86	0.83	0.80	0.77	0.89	0.87	0.86	

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6204 ZZ Max. traction : 130 lb Sealing V'Ring V'Ring Max. compression : 187 lb

Lubrication interval Lubricant amount

Mobil Polyrex EM

Notes

Lubricant type

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

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (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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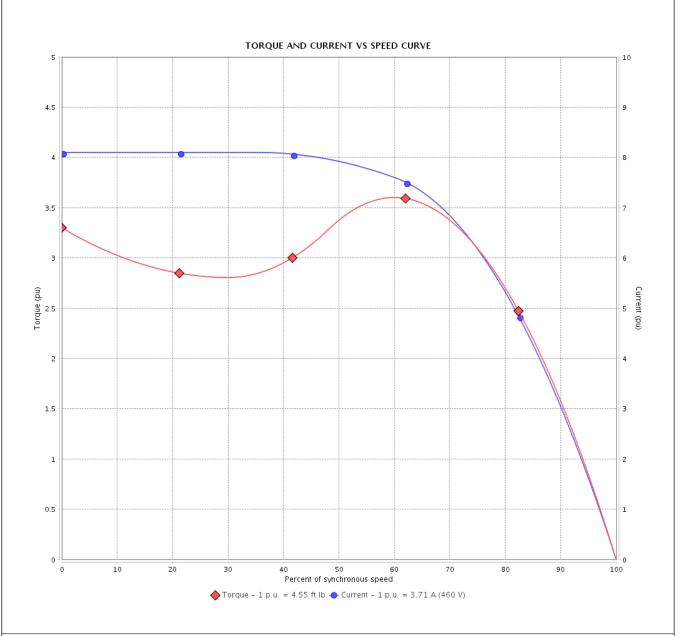


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13469733

Phase

Catalog #: 00336ET3E145JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 7.42/3.71 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 4.55 ft.lb Service factor Locked rotor torque : 330 % : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 3460 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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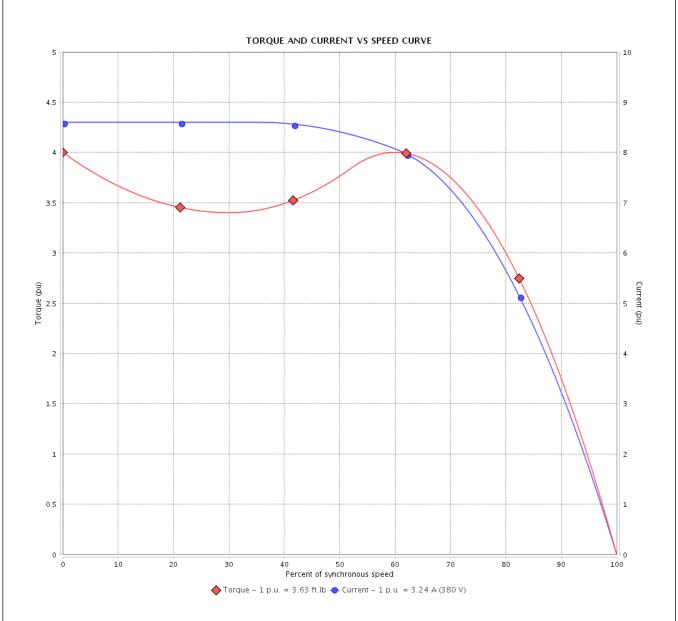
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13469733

Phase

Catalog #:



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 3.24 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.63 ft.lb	Insulation class	:F
Locked rotor torque	: 400 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B
Locked rotor time	: 25s (cold) 14s (hot)		

		(00.0) 1.0 (1.01)			
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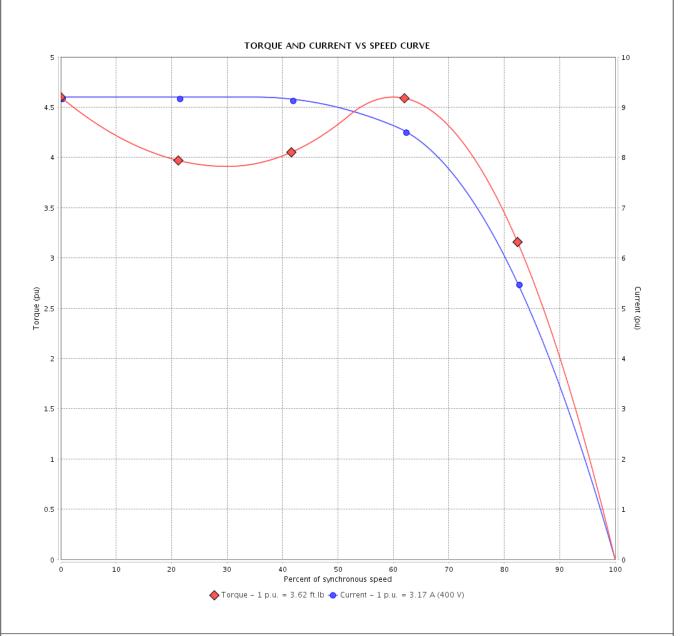
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 13469733

Catalog #: 00336ET3E145JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.17 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.62 ft.lb Service factor Locked rotor torque : 459 % : 1.00 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13469733 Catalog #: 00336ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE Torque (pu) 40 50 60 Percent of synchronous speed ♦ Torque – 1 p.u. = 3.61 ft.lb ♦ Current – 1 p.u. = 3.15 A (415 V) Performance · 415 V 50 Hz 2P IE3

Performance	: 41	15 V 50 Hz 2P IE3	3			
Rated current	: 3.	15 A	Moment of	inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 9.	5	Duty cycle		: Cont.(S1)	
Rated torque	: 3.	61 ft.lb	Insulation of	class	: F	
Locked rotor tord	que : 49	90 %	Service fac	tor	: 1.00	
Breakdown torqu	ie : 50	9 %	Temperatu	re rise	: 80 K	
Rated speed	: 29	910 rpm	Design		: B	
Locked rotor time	e : 2	3s (cold) 13s (hot	t)			
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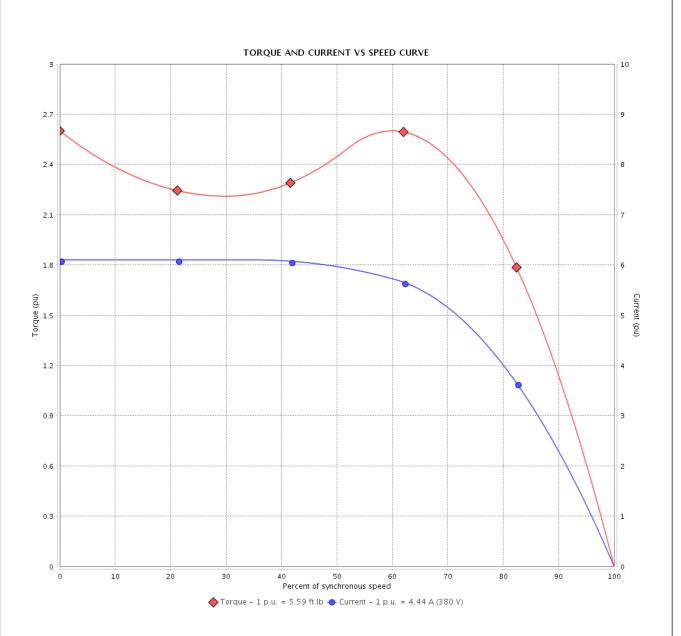


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00336ET3E145JP-W22

13469733



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.44 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.59 ft.lb : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2820 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13469733 Catalog #: 00336ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.55 ft.lb ◆ Current - 1 p.u. = 4.26 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 4.26 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.55 ft.lb Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2840 rpm Design : B Locked rotor time : 23s (cold) 13s (hot) Rev. Performed Checked Date **Changes Summary**

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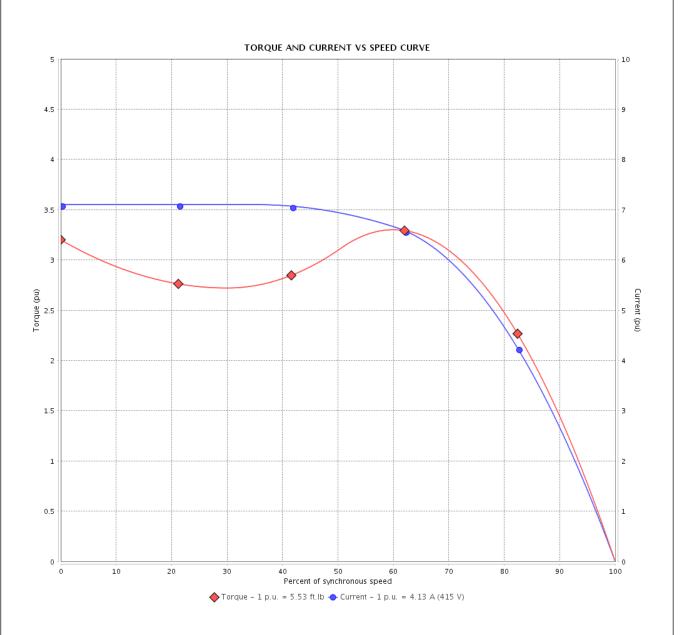
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13469733

Catalog #: 00336ET3E145JP-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 4.13 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.53 ft.lb Service factor Locked rotor torque : 320 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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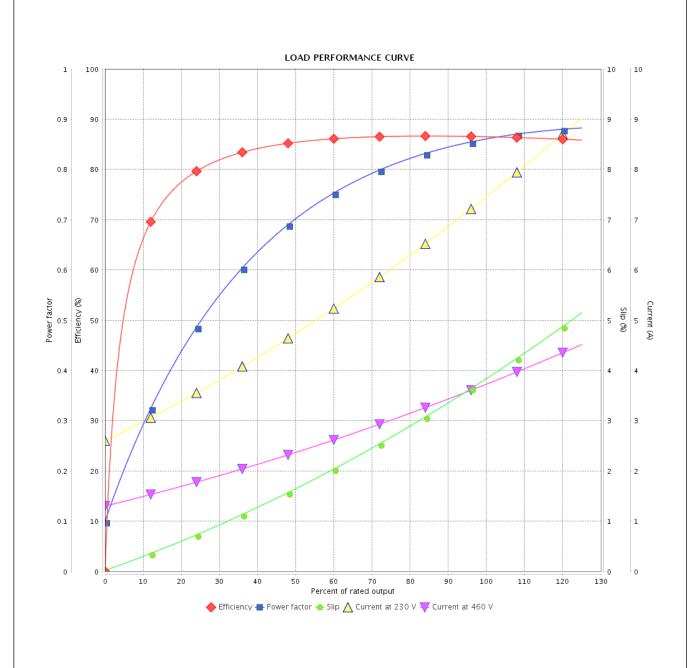


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469733

Phase

Catalog #: 00336ET3E145JP-W22



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 7	: 7.42/3.71 A		Moment of inertia (J)		.lb
LRC	: 8	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	.55 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 3	30 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 3	60 %	Temperature rise		: 80 K	
Rated speed	: 3	460 rpm	Design		: B	
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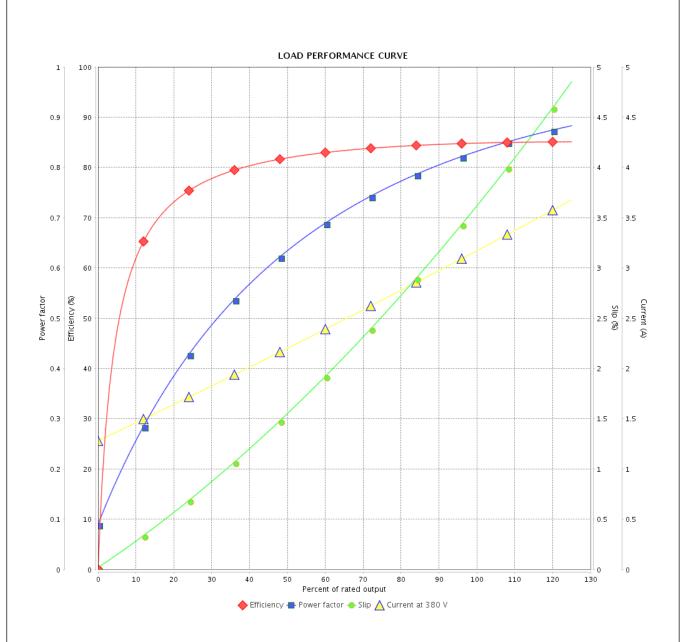
Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current : 3.24 A		Moment of	f inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 8.6	Duty cycle	•	: Cont.(S1)	
Rated torque			class	: F	
Locked rotor torque : 400 %		Service factor		: 1.25	
Breakdown torque	: 400 %	Temperature rise		: 80 K	
Rated speed	: 2890 rpm	Design		: B	
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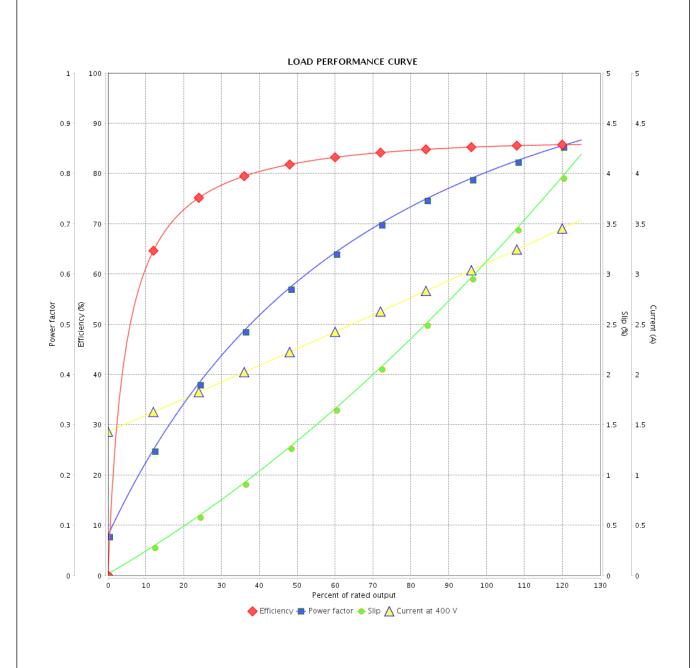


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Phase

Catalog #: 00336ET3E145JP-W22



Performance	: 4	100 V 50 Hz 2P IE3				
Rated current	: 3	: 3.17 A Mo		Moment of inertia (J)		.lb
LRC	: 9	9.2	Duty cycle	:	: Cont.(S1)	
Rated torque	: 3	3.62 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :4	l59 %	Service fa	ctor	: 1.00	
Breakdown torque	: 4	l59 %	Temperature rise		: 80 K	
Rated speed	: 2	2905 rpm	Design		: B	
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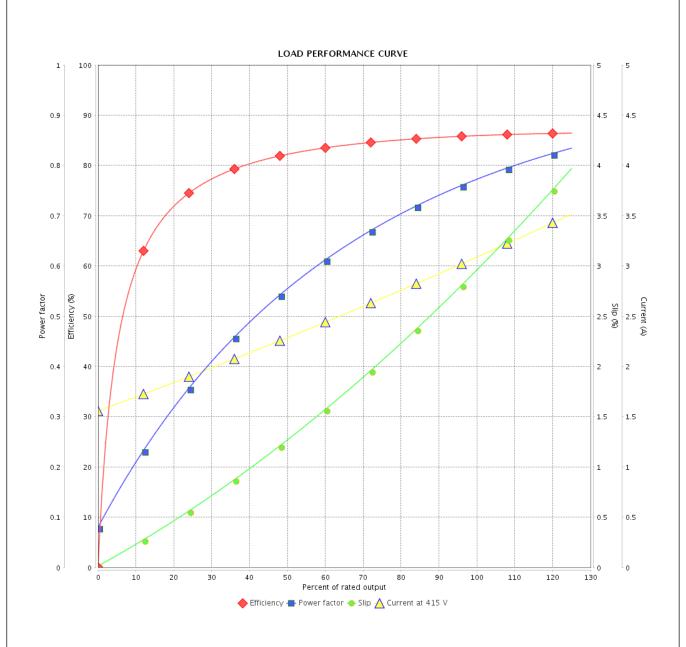
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Destaura	445.7/50.11.00.150				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 3.15 A : 9.5 : 3.61 ft.lb : 490 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	eakdown torque : 509 % Temperature rise			: 80 K : B	
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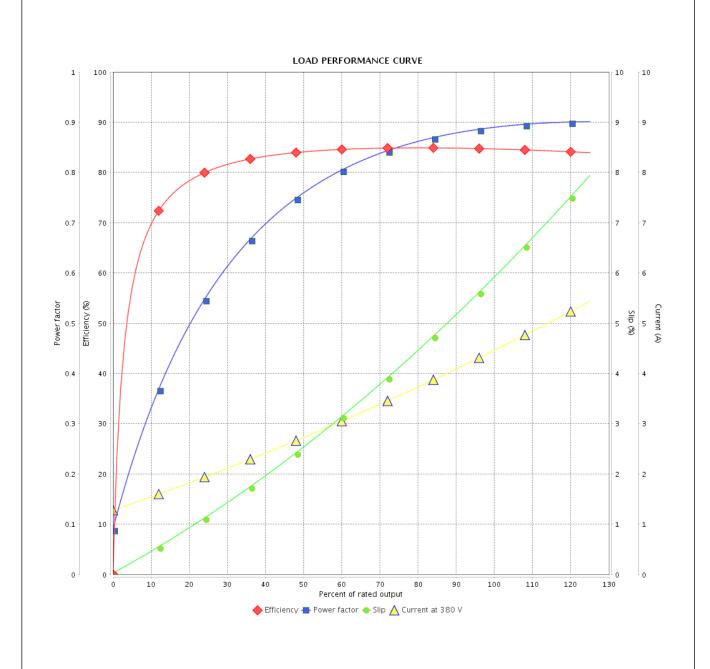
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13469733

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Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	Rated current : 4.44 A Mome		Moment o	f inertia (J)	: 0.0605 sq.ft	.lb
LRC	: 6	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	.59 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	60 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	60 %	Temperati	Temperature rise		
Rated speed	: 2	820 rpm	Design		: B	
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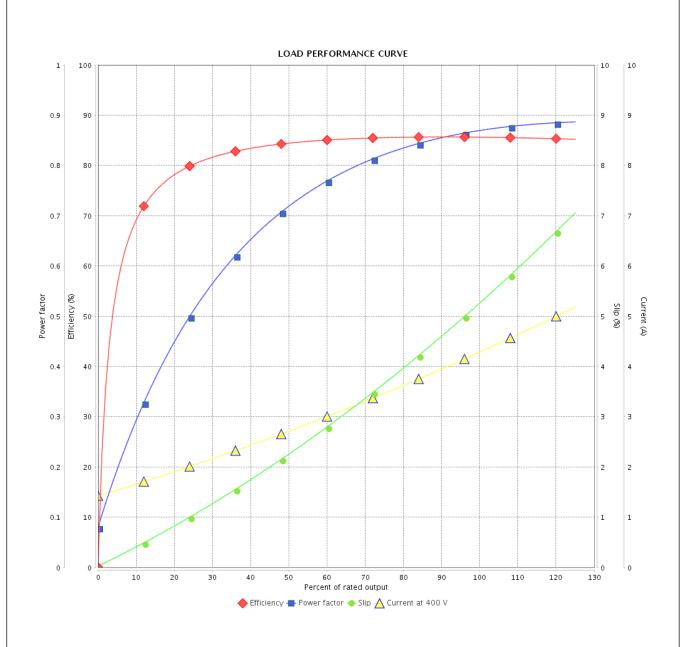
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13469733

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		,	 ,			
Performance		: 400 V 50 Hz 2P IE2	2			
LRC : Rated torque : Locked rotor torque : Breakdown torque :		: 4.26 A : 6.7 : 5.55 ft.lb : 300 % : 300 % : 2840 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor) : 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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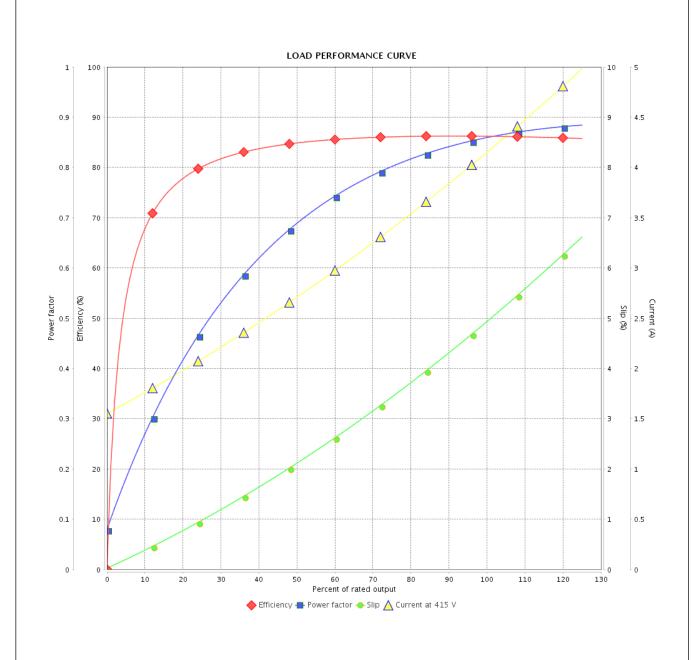
Customer

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	·				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.13 A : 7.1 : 5.53 ft.lb : 320 % : 330 % : 2850 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 0.0605 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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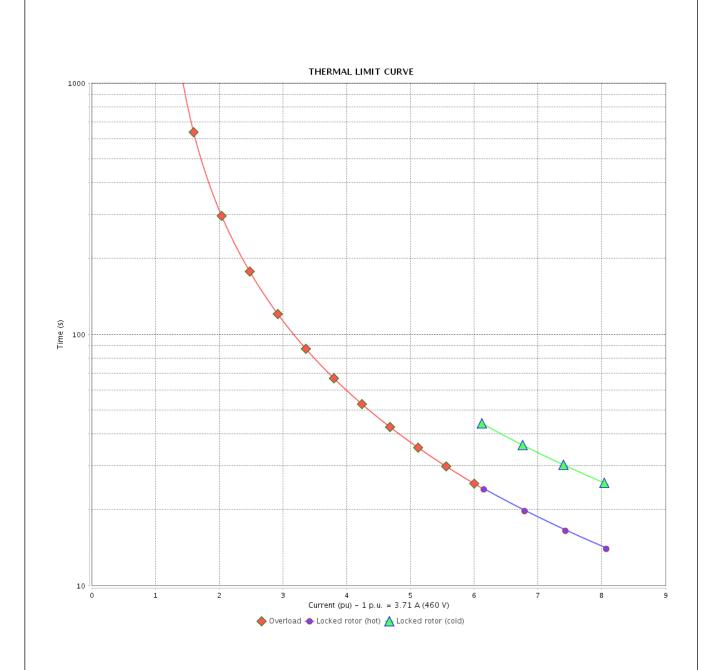


Customer	:				
Product line	: NEMA Premium Efficien Phase	cy Three-	Product code : Catalog # :	13469733 00336ET3E ²	145JP-W22
Performance Rated current	: 230/460 V 60 Hz 2P : 7.42/3.71 A	Moment (of inertia (J)	: 0.0605 sq.ft.	lh.
LRC	: 8.1	Duty cycl	e	: Cont.(S1)	·~
Rated torque Locked rotor torque	: 4.55 ft.lb : 330 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 360 %	Temperat		: 80 K	
Rated speed	: 3460 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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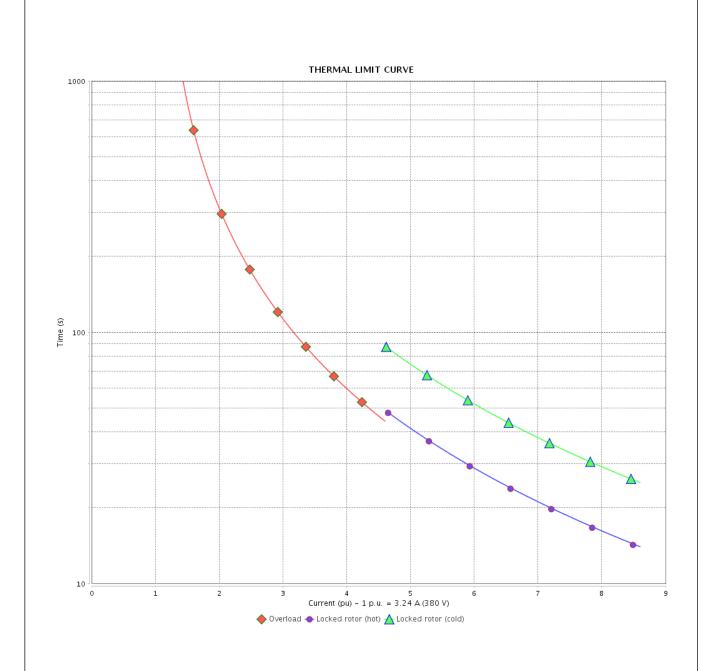


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469733 00336ET3E1	45JP-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 3.24 A : 8.6 : 3.63 ft.lb : 400 %	Moment of Duty cycle Insulation Service fa	class	: 0.0605 sq.ft.ll : Cont.(S1) : F : 1.25	0
Breakdown torque Rated speed	: 400 % : 2890 rpm	Temperatu Design		: 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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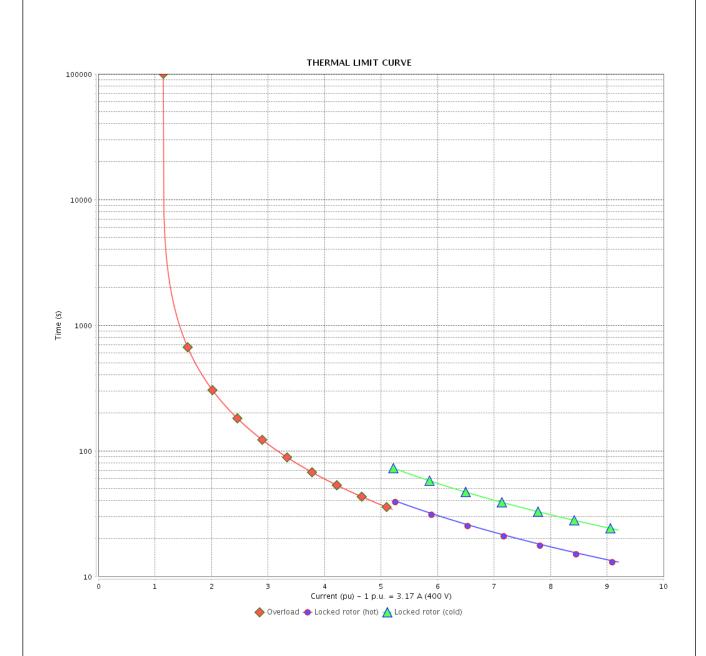


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Product line	: Î	NEMA Premium Efficiency Thase	Γhree- I	Product code :	13469733	
		nasc	(Catalog # :	00336ET3E14	5JP-W22
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 9. : 3. jue : 48 ie : 48	62 ft.lb 59 % 59 %	Moment of Duty cycle Insulation Service fac Temperatu	class ctor	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 29	905 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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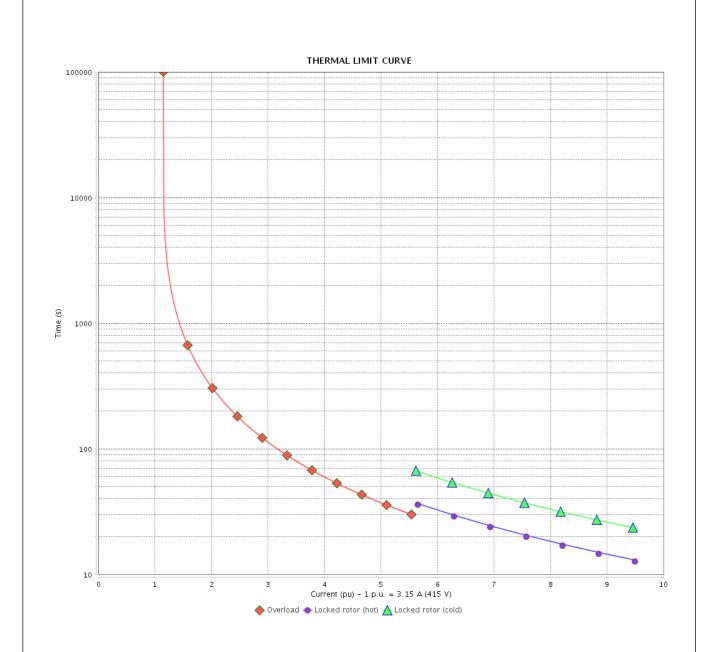


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Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	13469733 00336ET3E1	45JP-W22
Performance	· 4·	15 V 50 Hz 2P IE3				
Rated current	: 3.	.15 A	Moment o	f inertia (J)	: 0.0605 sq.ft.l	b
LRC Rated torque		.61 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		90 %	Service fa		: 1.00	
Breakdown torque Rated speed		09 % 910 rpm	Temperati Design	11 C 115 C	: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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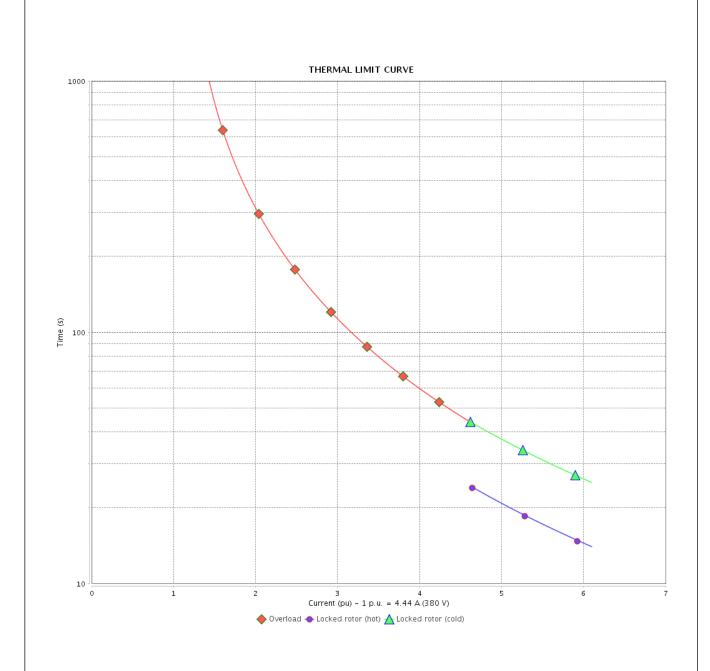


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469733 00336ET3E1	45JP-W22
Performance		: 380 V 50 Hz 2P IE2			0.0005 61	
Rated current LRC		: 4.44 A : 6.1	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	D
Rated torque Locked rotor tord		: 5.59 ft.lb : 260 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 260 % : 260 %	Temperat		: 80 K	
Rated speed		: 2820 rpm	Design	· 	: B	
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Cooling constant	l .	Changes Summan		Performed	Checked	Data
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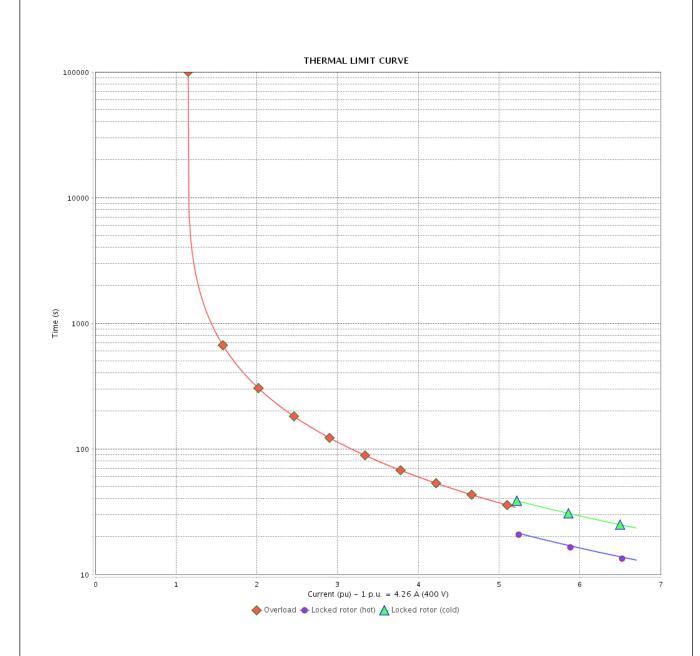


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469733 00336ET3E1	45JP-W22
				<u> </u>		
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 4.26 A : 6.7	Moment of	of inertia (J)	: 0.0605 sq.ft.ll : Cont.(S1)	b
Rated torque		: 5.55 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 300 % : 300 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2840 rpm	Design	are rise	: B	
Heating constan						
Cooling constant	τ	Changes Summany		Dorformed	Chaokad	Data
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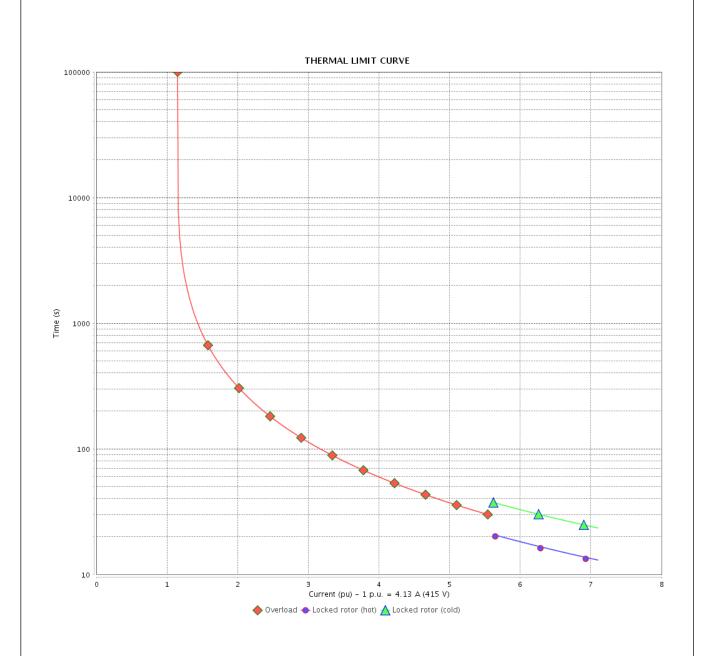


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Product line	: N	NEMA Premium Efficiency T	Γhree- I	Product code :	13469733	
		1430	(Catalog # :	00336ET3E14	15JP-W22
Performance		15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 5. ie : 32 : : 33	13 A 1 53 ft.lb 20 % 30 % 350 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		r				
Heating constant Cooling constant						
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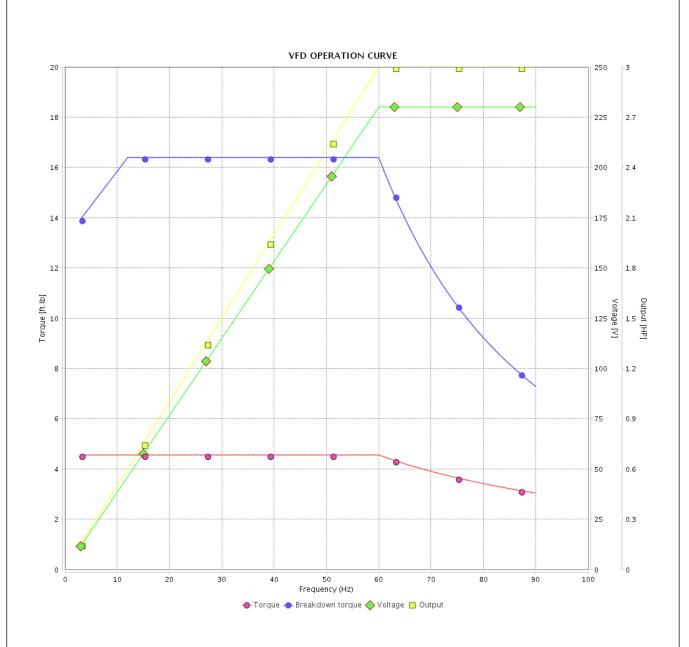
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Performance	: 230/460 V	/ 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7.42/3.71 : 8.1 : 4.55 ft.lb : 330 % : 360 % : 3460 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	dl
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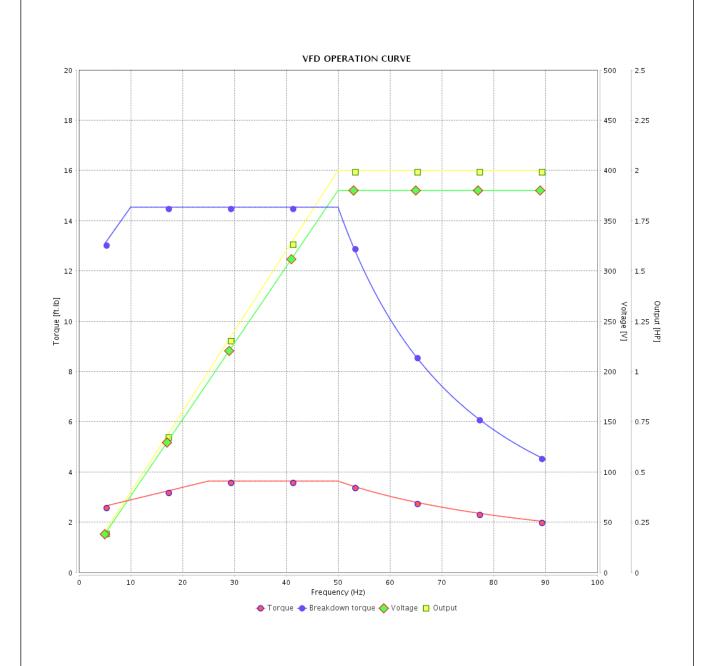


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Performance	: 38	30 V 50 Hz 2P IE3					
Rated current	ated current : 3.24 A Mon		Moment of	of inertia (J)	: 0.0605 sq.ft.	.lb	
LRC	: 8.	6	Duty cycle		: Cont.(S1)		
Rated torque	: 3.	63 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 40	00 %	Service fa	octor	: 1.25		
Breakdown torque :		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 28	390 rpm	Design		: B		
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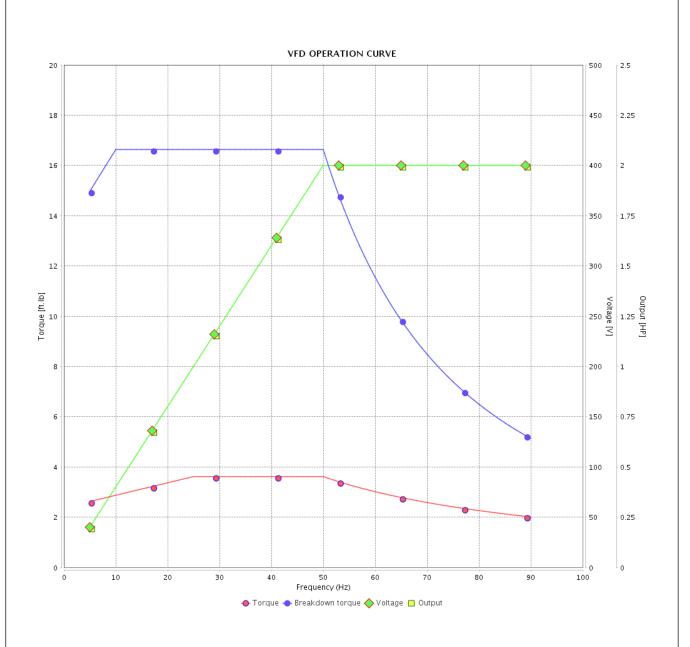
Product line : NEMA Premium Efficiency Three- Prod

Phase

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Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9. : 3. que : 45 ue : 45	17 A 2 62 ft.lb 59 % 59 % 905 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0605 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	.lb
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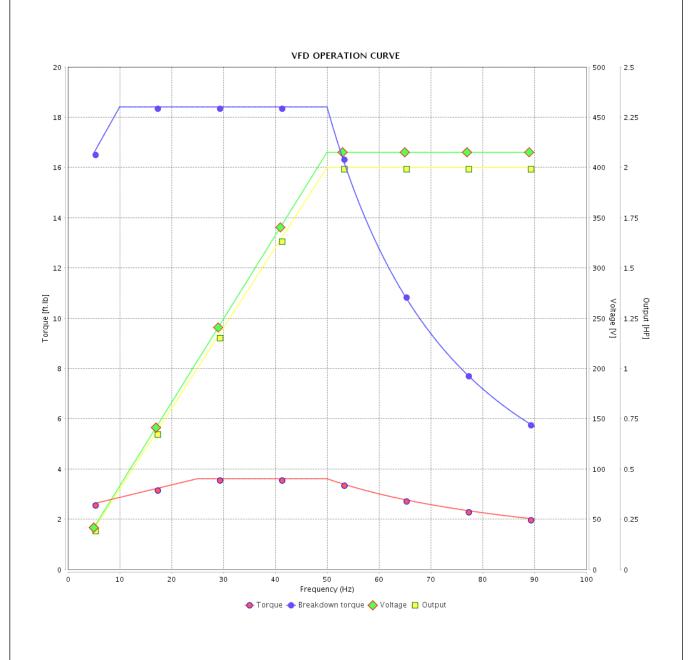
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Performance	: 415 V 50 Hz 2P IE3					
Rated current	: 3.15 A	Moment of inertia (J)		: 0.0605 sq.ft.l	b	
LRC	: 9.5	Duty cycle		: Cont.(S1)		
Rated torque	: 3.61 ft.lb	Insulation cl	ass	: F		
Locked rotor torque	: 490 %	Service fact	or	: 1.00		
Breakdown torque	: 509 %	Temperature rise		: 80 K		
Rated speed	: 2910 rpm	Design		: B		
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Product line : NEMA Premium Efficiency Three- Product code : 13469733

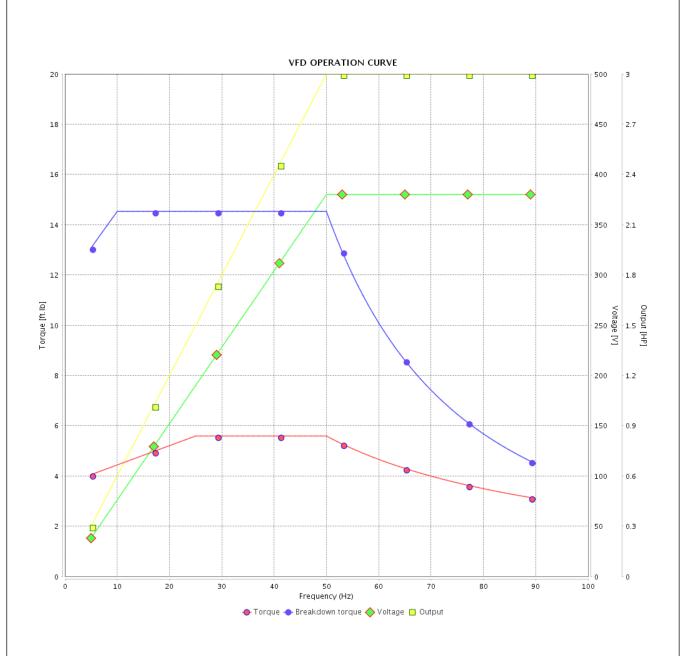
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Performance : 380 V 50 Hz 2P IE2 Rated current : 4.44 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 5.59 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2820 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



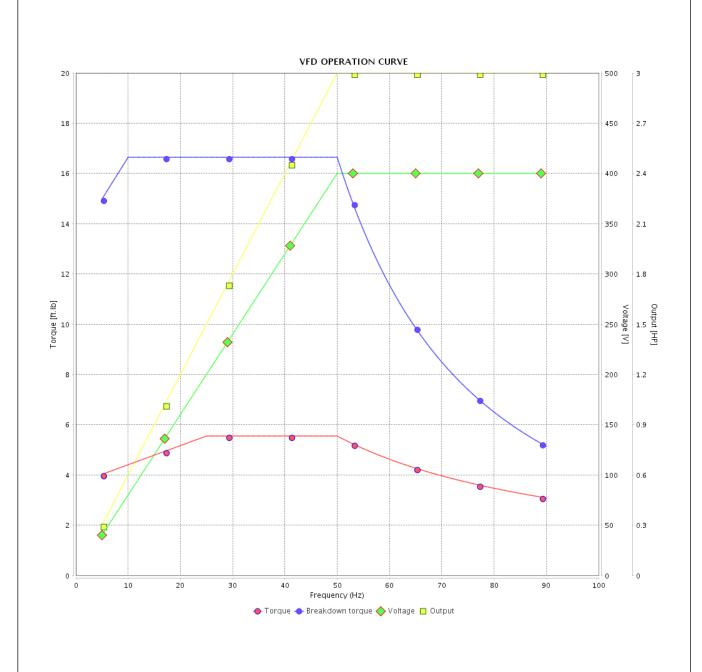
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Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	ed current : 4.26 A Moment		Moment o	f inertia (J)	inertia (J) : 0.0605 sq.ft.lb	
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	.55 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 3	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	840 rpm	Design		: B	
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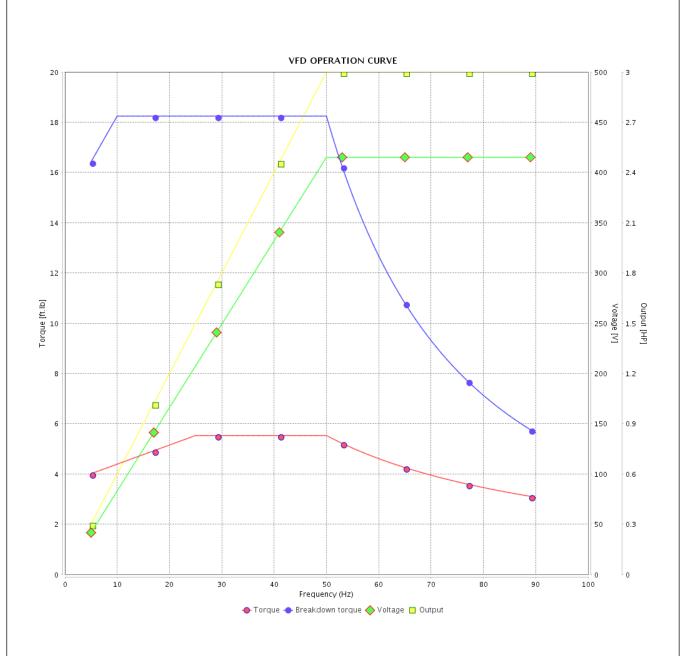
Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC	: 4.13 A : 7.1	Moment of inertia (J) : 0.0605 sq.ft Duty cycle : Cont.(S1)		.lb	
Rated torque Locked rotor torque Breakdown torque Rated speed	ted torque : 5.53 ft.lb Insulation class Service factor Seakdown torque : 330 % Temperature rise		class actor	: F : 1.00 : 80 K : B	
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