DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447063

220

Catalog #: 02009ET3E324T-W22

190

210

Frame : 324/6T 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 : 510 lb

Protection degree : IP55 Moment of inertia (J) : 9.37 sq.ft.lb Design : B

Output [HP] 20 15 15 15 20 20 20 Poles 8 8 8 8 8 8 8 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 415 380 400 415 380 Rated current [A] 56.6/28.3 26.4 33.4 26.5 27.1 32.6 32.7 L. R. Amperes [A] 283/142 142 134 133 152 143 150

LRC [A] 5.0x(Code 5.0x(Code | 5.4x(Code H) | 5.6x(Code J) | 4.0x(Code D) | 4.4x(Code E) | 4.6x(Code F) G) G) No load current [A] 32.0/16.0 15.7 17.6 19.3 15.7 17.6 19.3 Rated speed [RPM] 880 730 730 735 725 725 730 3.33 3.33 Slip [%] 2.22 2.67 2.67 2.00 2.67 Rated torque [ft.lb] 119 108 108 107 145 145 144 Locked rotor torque [%] 140 190 190 210 240 160 180 Breakdown torque [%] 170

Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 80 K Locked rotor time 48s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 27s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 56.0 dB(A) 25% 50% 89.5 88.5 87.4 86.3 89.5 88.5 87.5

260

280

Efficiency (%) 75% 91.0 89.6 89.0 88.5 89.5 89.5 89.5 100% 91.0 89.5 88.5 88.5 89.3 89.0 88.5 25% 0.51 0.46 0.61 0.52 50% 0.54 0.42 0.56 Power Factor 75% 0.66 0.64 0.60 0.56 0.72 0.68 0.65 0.72 100% 0.73 0.69 0.65 0.77 0.75 0.72

Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 Max. traction : 904 lb

229

V'Ring V'Ring : 1414 lb Sealing Max. compression Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 g

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 62.6A SF 1.15 SFA 72.0A

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

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

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

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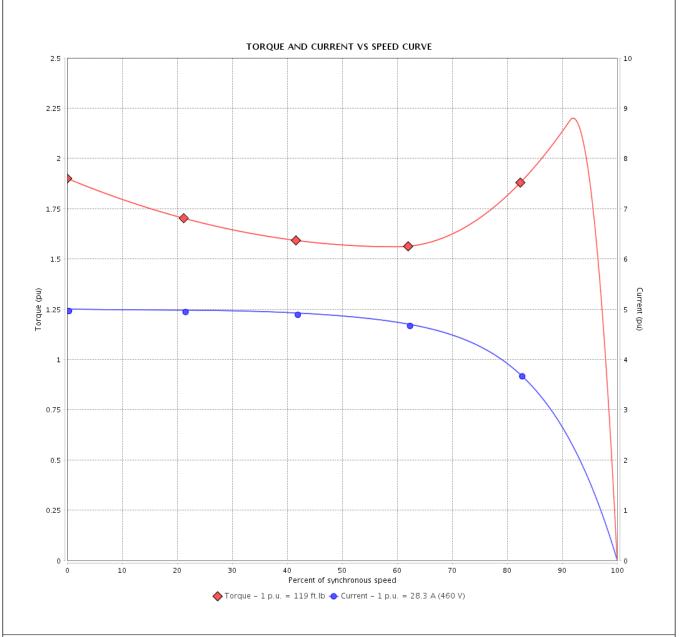
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12447063

Catalog #: 02009ET3E324T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 56.6/28.3 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 119 ft.lb : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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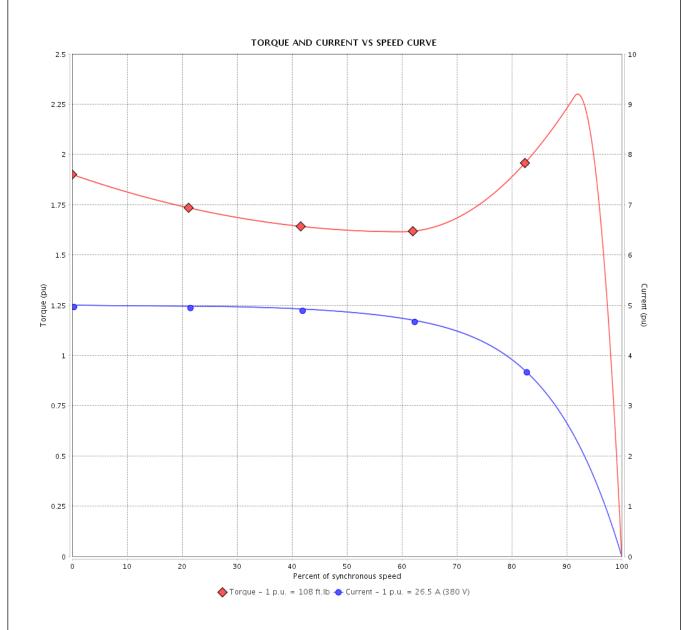


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02009ET3E324T-W22

12447063



Performance	: 380 V 50 Hz 8P IE3			
Rated current	: 26.5 A	Moment of inertia (J)	: 9.37 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 730 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)	I		

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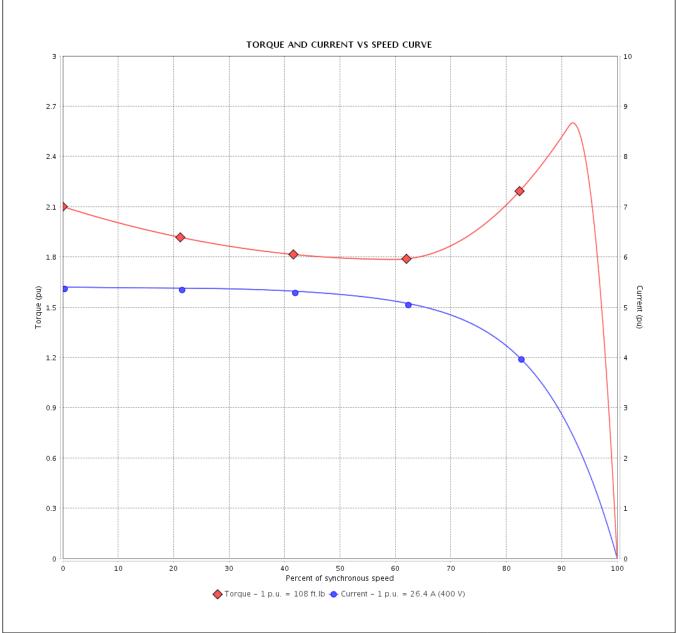
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447063

Catalog #: 02009ET3E324T-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 26.4 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 108 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 730 rpm Design : B

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

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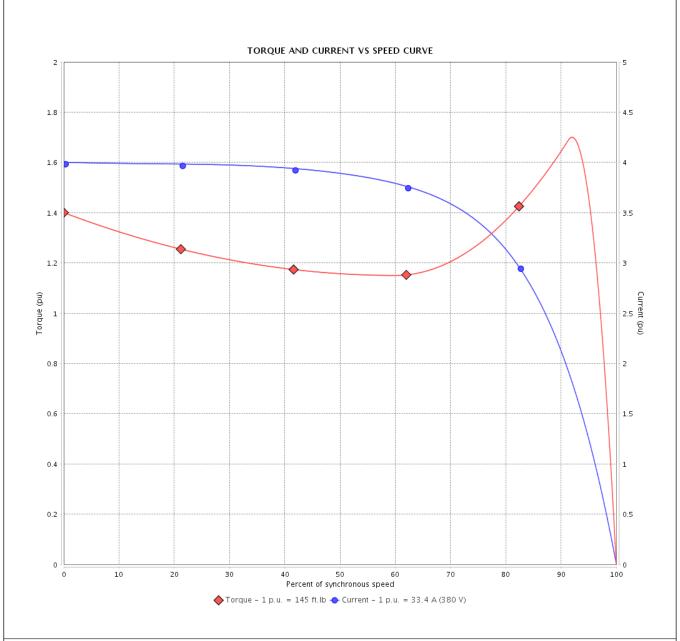
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447063

Catalog #: 02009ET3E324T-W22



Performance	: 380 V 50 Hz 8P IE2			
Rated current	: 33.4 A	Moment of inertia (J)	: 9.37 sq.ft.lb	
LRC	: 4.0	Duty cycle	: Cont.(S1)	
Rated torque	: 145 ft.lb	Insulation class	:F	
Locked rotor torque	: 140 %	Service factor	: 1.00	
Breakdown torque	: 170 %	Temperature rise	: 105 K	
Rated speed	: 725 rpm	Design	: B	
Looked notes times	. 20a (aald) 20a (bat)	I		

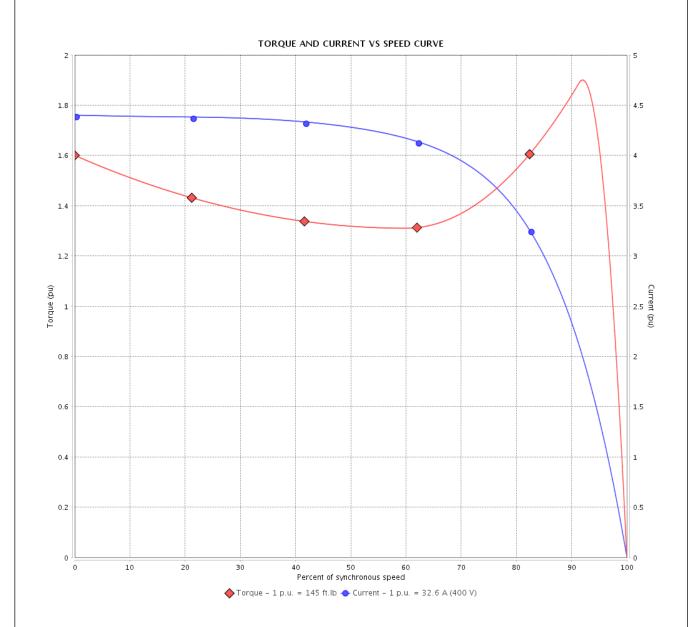
Locked rotor time : 36s (cold) 20s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 12447063 Catalog #: 02009ET3E324T-W22



Performance : 400 V 50 Hz 8P IE2 Rated current : 32.6 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 4.4 Duty cycle : Cont.(S1) : 145 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 725 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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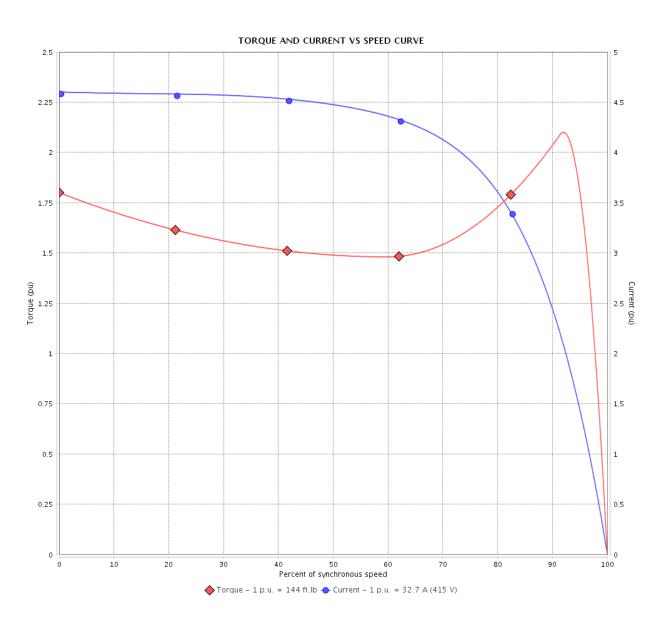


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447063

Phase

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Performance	: 415 V 50 Hz 8P IE2		
Rated current	: 32.7 A	Moment of inertia (J)	: 9.37 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 144 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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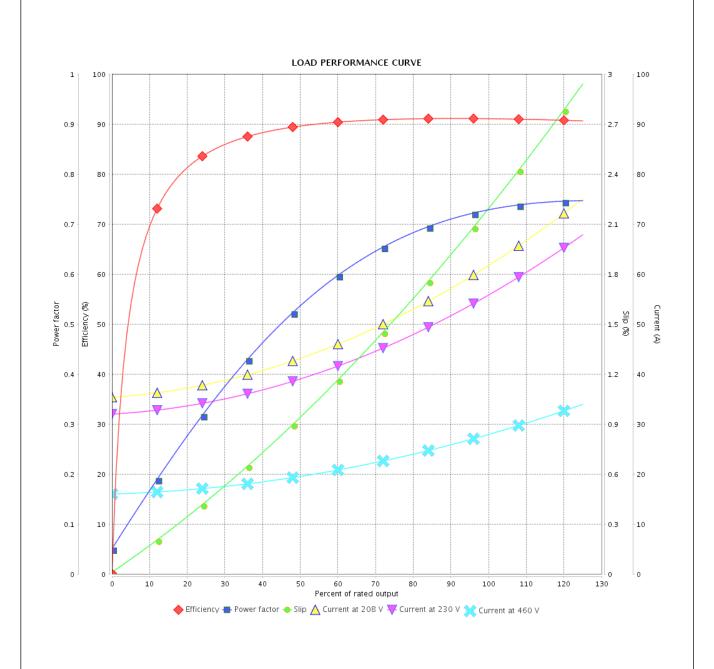


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Product line : NEMA Premium Efficiency Three- Product code : 12447063

Phase

Catalog #: 02009ET3E324T-W22



Performance	:	230/460 V 60 Hz 8P				
Rated current	:	56.6/28.3 A	Moment o	f inertia (J)	: 9.37 sq.ft.lb	
LRC	:	5.0	Duty cycle	}	: Cont.(S1)	
Rated torque	:	119 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.25	
Breakdown torque	:	220 %	Temperature rise		: 80 K	
Rated speed	:	880 rpm	Design		: B	
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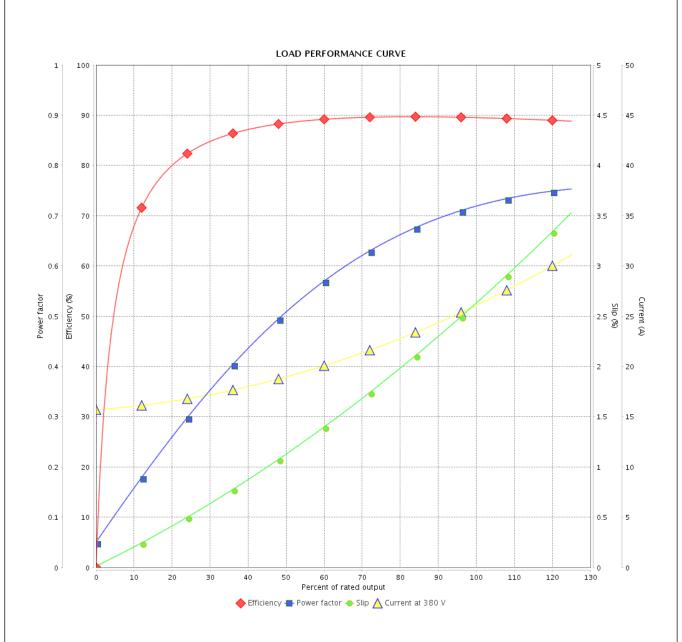
Phase

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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.5 A : 5.0 : 108 ft.lb : 190 % : 229 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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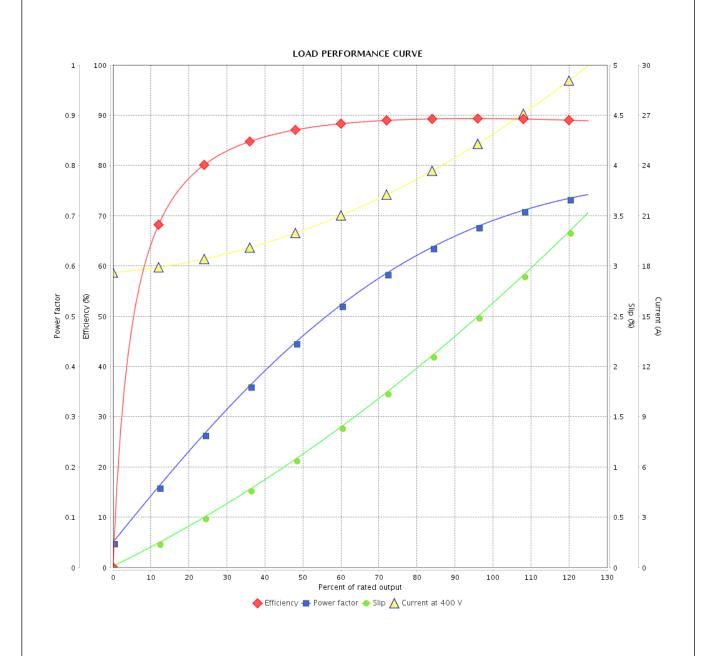
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12447063

Catalog #: 02009ET3E324T-W22



Performance	: 40	100 V 50 Hz 8P IE3				
Rated current	: 20	26.4 A Moment of inertia (J		f inertia (J)	: 9.37 sq.ft.lb	
LRC	: 5	.4	Duty cycle		: Cont.(S1)	
Rated torque	: 10	08 ft.lb	Insulation class		: F	
Locked rotor torque	e : 2	10 %	Service factor		: 1.15	
Breakdown torque : 2		60 %	Temperati	Temperature rise		
Rated speed : 730 rpm		Design	Design			
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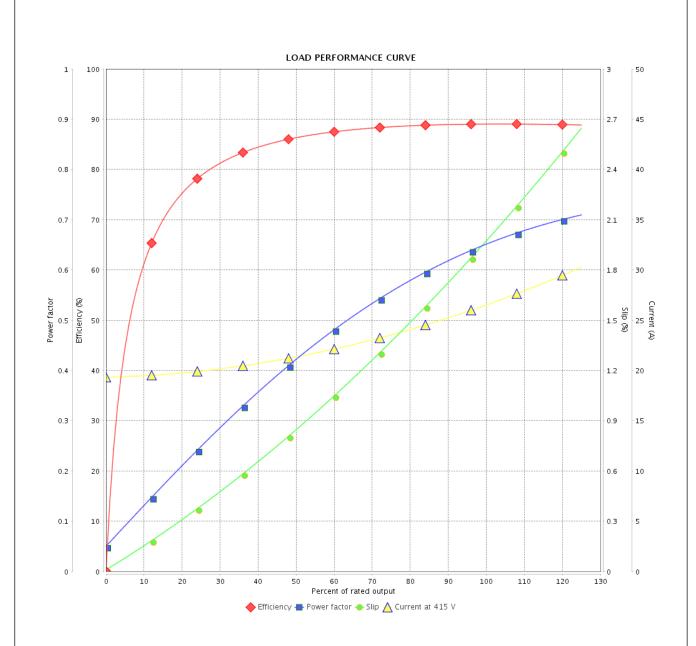
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Performance		: 415 V 50 Hz 8I	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 27.1 A : 5.6 : 107 ft.lb : 240 % : 280 % : 735 rpm	Dut Insu Ser Ten	ment of ty cycle ulation vice fac nperatu sign	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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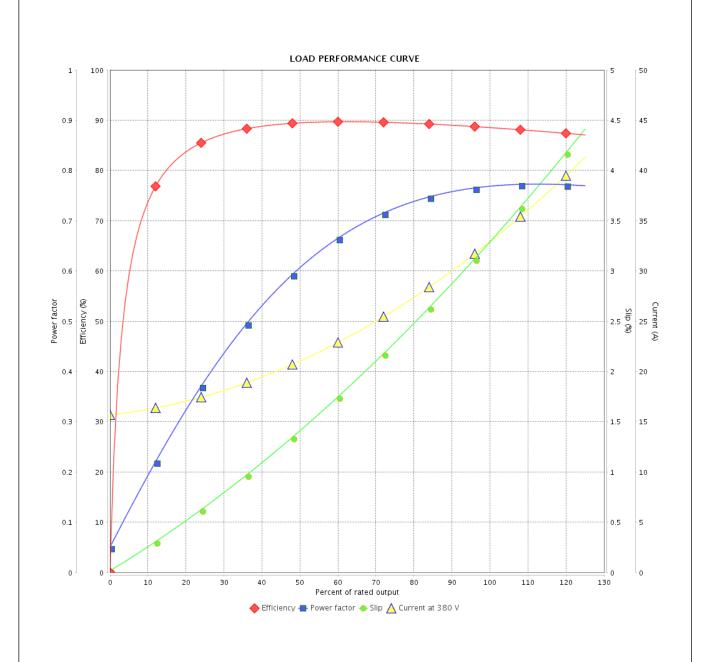
Product line : NEMA Premium Efficiency Three- Product code : 12447063

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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.4 A : 4.0 : 145 ft.lb : 140 % : 170 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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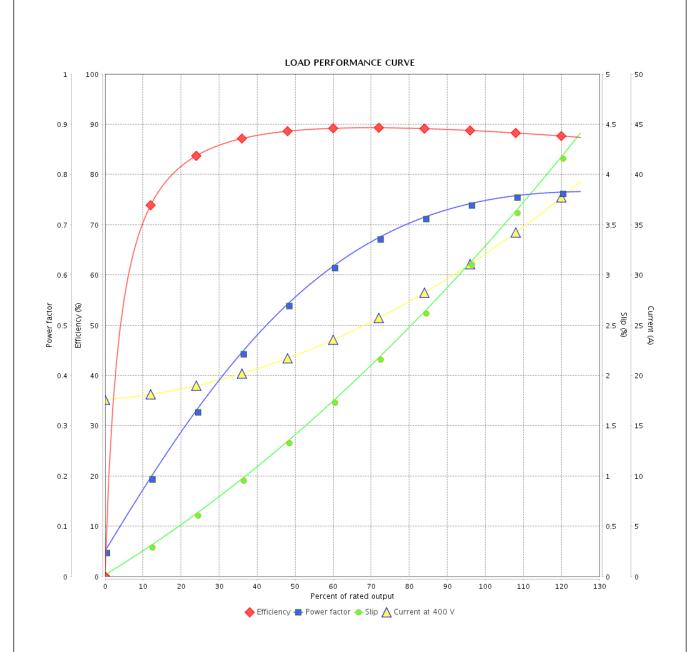
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Performance		: 400 V 50 Hz 8P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 32.6 A : 4.4 : 145 ft.lb : 160 % : 190 % : 725 rpm	Dut Insu Ser Ten	ment of ty cycle ulation vice fac nperatu sign	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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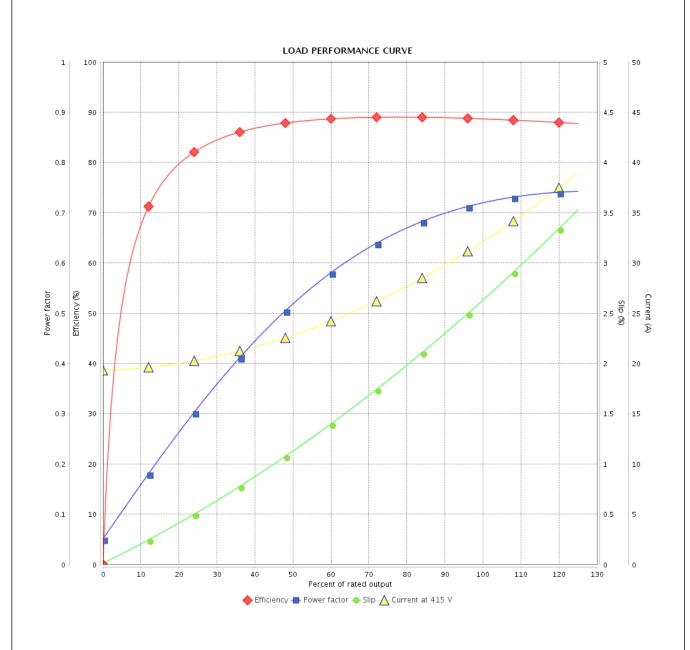
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Product line : NEMA Premium Efficiency Three- Product code : 12447063

Phase

Catalog #: 02009ET3E324T-W22



Performance	: 415	V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	ft.lb % %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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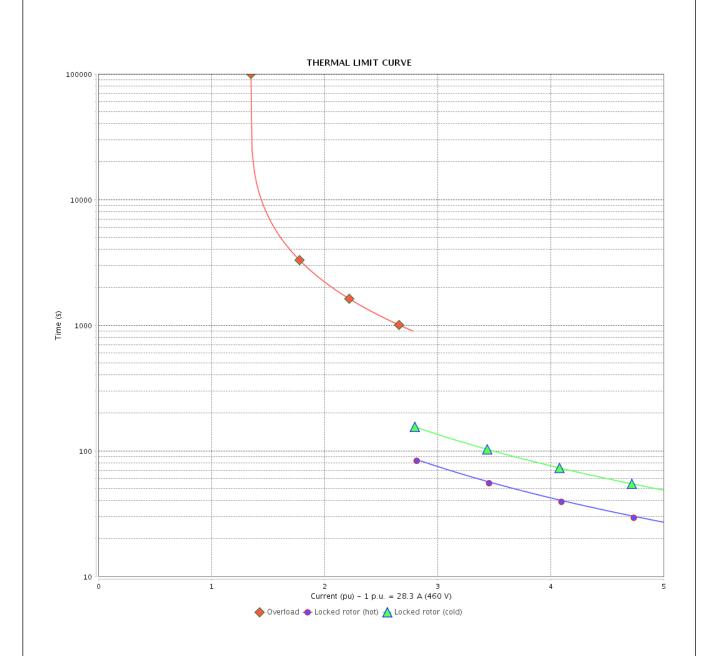


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447063 02009ET3E3	24T-W22
Performance Rated current	: 230/460 V 60 Hz 8P : 56.6/28.3 A	Momento	f inortia (I)	: 0.37 sq.ft.lb	
LRC	: 5.0	Duty cycle	of inertia (J)	: 9.37 sq.ft.lb : Cont.(S1)	
Rated torque	: 119 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 190 % : 220 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed	: 880 rpm	Design	u. 5 1100	: B	
Heating constant					
Cooling constant					
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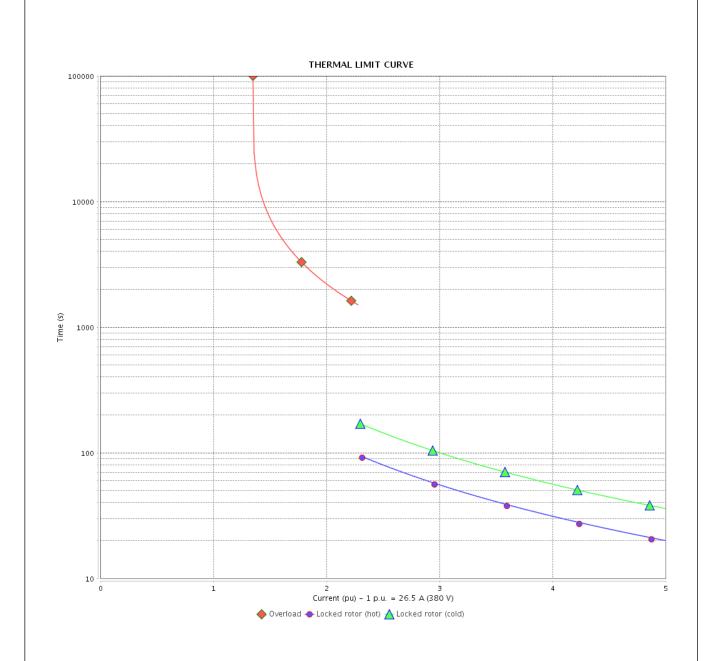


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447063 02009ET3E32	24T-W22
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Performance		: 380 V 50 Hz 8P IE3				
Rated current		: 26.5 A : 5.0	Moment o	of inertia (J)	: 9.37 sq.ft.lb	
LRC Rated torque		: 108 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 190 % : 229 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 730 rpm	Design	a. 5 1100	: B	
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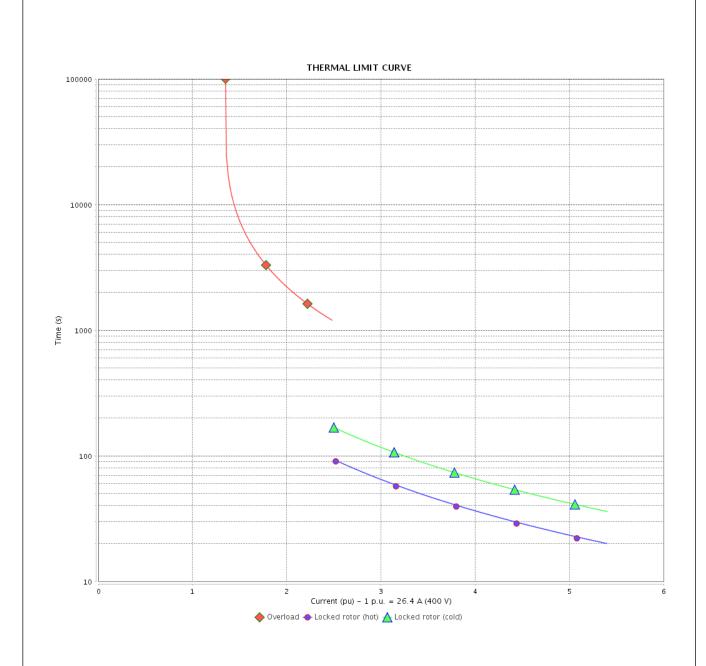


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code :	12447063	
			Catalog # :	02009ET3E3	24T-W22
Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque	: 26.4 A : 5.4 : 108 ft.lb	Duty cycle Insulation	class	: 9.37 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 210 % : 260 % : 730 rpm	Service fa Temperati Design		: 1.15 : 80 K : B	
Heating constant					
Cooling constant					
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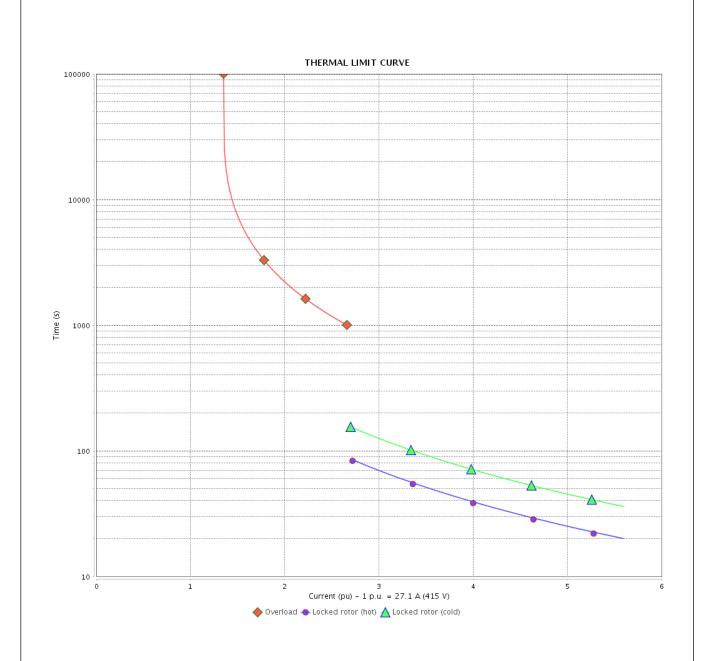


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447063 02009ET3E32	24T-W22
Performance		: 415 V 50 Hz 8P IE3		.		
Rated current LRC		: 27.1 A : 5.6	Duty cycle		: 9.37 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 107 ft.lb : 240 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu		: 240 % : 280 %	Temperat		: 1.15 : 80 K	
Rated speed		: 735 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0				
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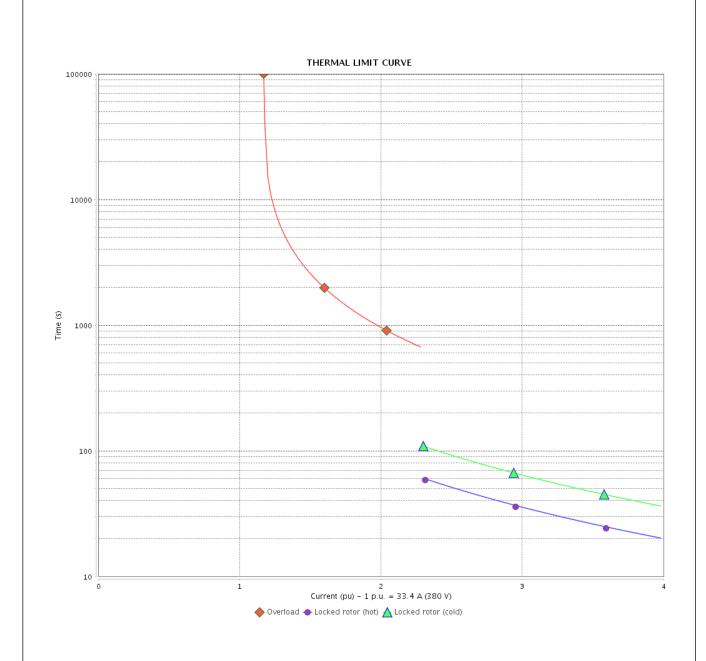


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447063 02009ET3E32	0AT 1W22
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Performance		: 380 V 50 Hz 8P IE2				
Rated current LRC		: 33.4 A : 4.0	Moment of Duty cycle	of inertia (J)	: 9.37 sq.ft.lb : Cont.(S1)	
Rated torque		: 145 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 140 % : 170 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 725 rpm	Design		: B	
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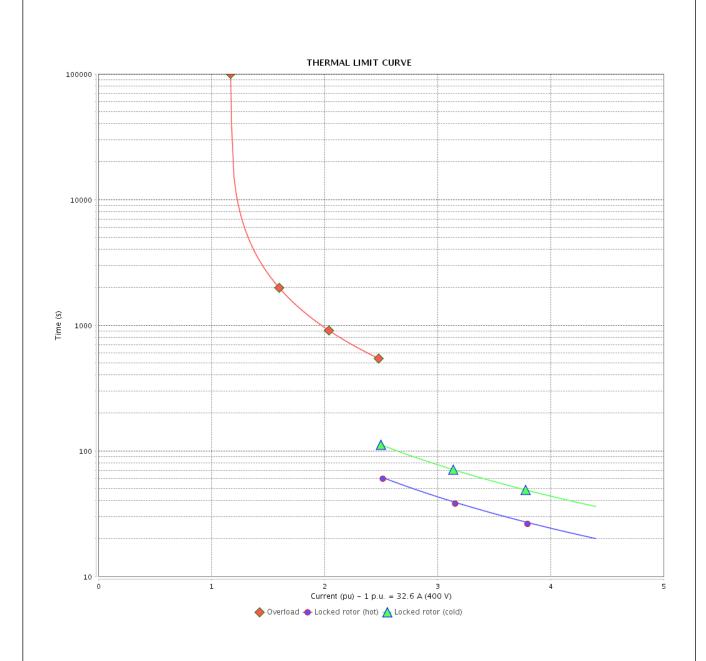


Customer	:				·	
Product line		NEMA Premium Efficiency	Γhree- I	Product code :	12447063	
	Ph	hase	(Catalog # :	02009ET3E32	24T-W22
Performance	: 40	00 V 50 Hz 8P IE2				
Rated current		2.6 A	Moment of	f inertia (J)	: 9.37 sq.ft.lb	
LRC	: 4.	4	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torc		45 ft.lb 60 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 19	90 %	Temperatu		: 105 K	
Rated speed		25 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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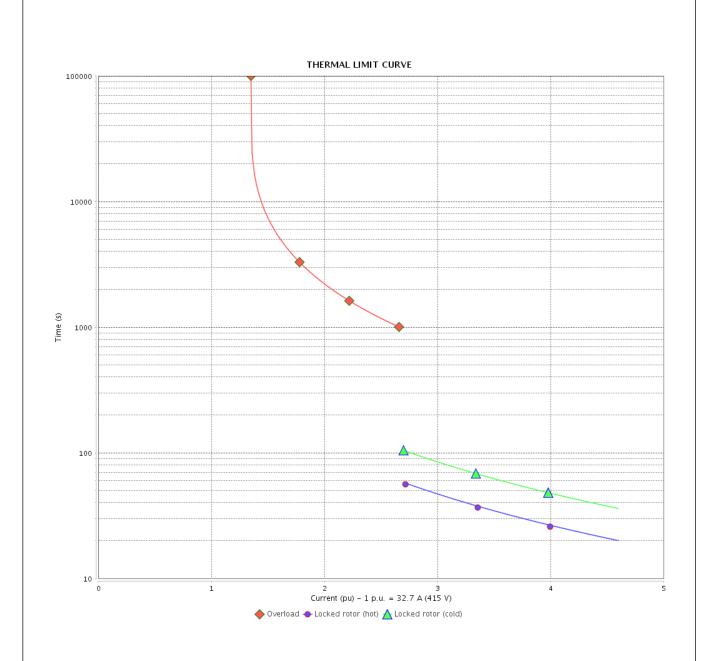


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12447063	
			Catalog # :	02009ET3E3	24T-W22
Performance	: 415 V 50 Hz 8P IE2	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 32.7 A : 4.6 : 144 ft.lb : 180 % : 210 % : 730 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Product line : NEMA Premium Efficiency Three-

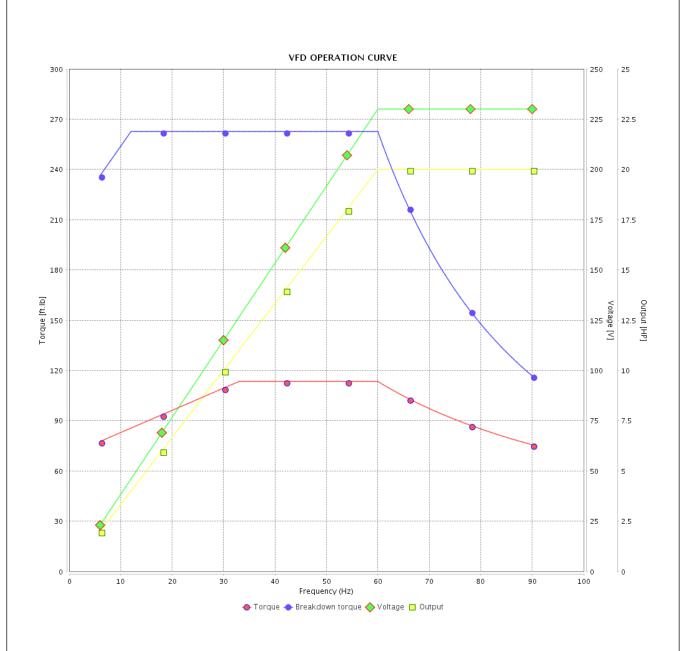
Phase

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Performance : 230/460 V 60 Hz 8P		8P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		: 56.6/28.3 A : 5.0 : 119 ft.lb : 190 % : 220 % : 880 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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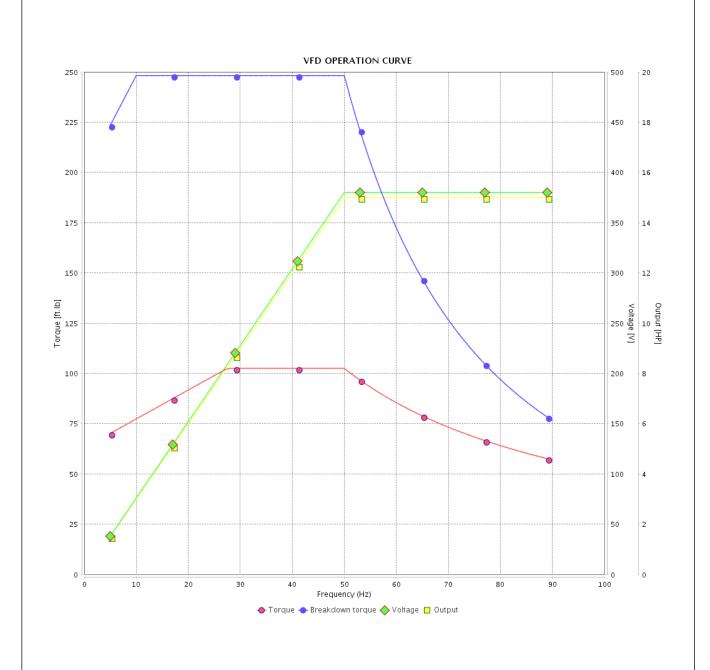
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Performance	: 380 V 50 Hz 8P IE3	: 380 V 50 Hz 8P IE3			
Rated current	: 26.5 A	Moment of inertia (J)		: 9.37 sq.ft.lb	
LRC	: 5.0	Duty cycle		: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 730 rpm	Design		: B	
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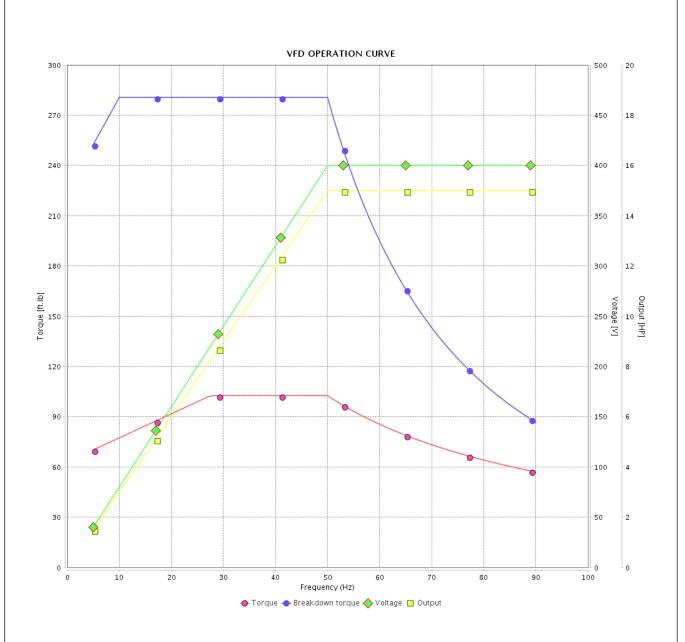
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Performance	: 4	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 1 que : 2 ue : 2	6.4 A .4 08 ft.lb 10 % 60 % 30 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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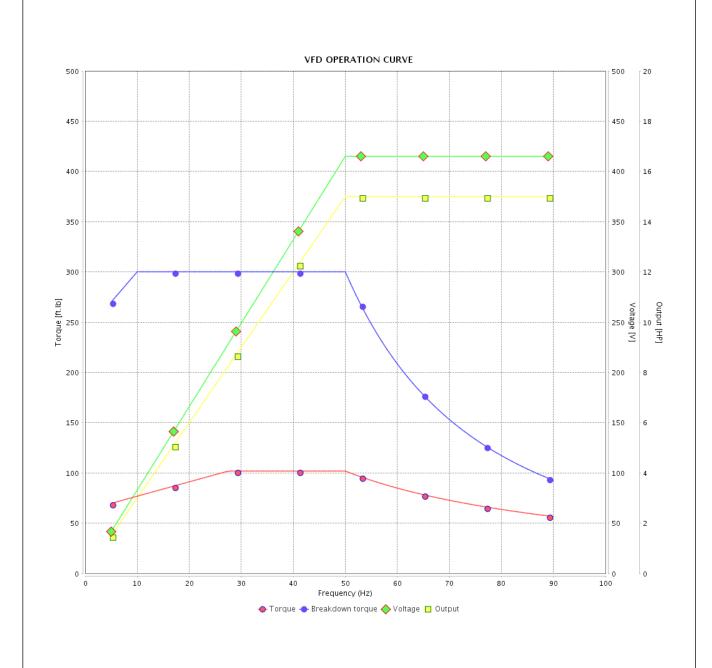
Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 12447063

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Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 2	: 27.1 A Moment of iner		of inertia (J)	: 9.37 sq.ft.lb	
LRC : 5.6		.6	Duty cycle	Duty cycle		
Rated torque	: 1	07 ft.lb	Insulation class		: F	
Locked rotor toro	μe : 2	40 %	Service factor		: 1.15	
Breakdown torque : 280		80 %	Temperat	Temperature rise		
Rated speed	: 7	35 rpm Design		: B		
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Product line : NEMA Premium Efficiency Three- Product

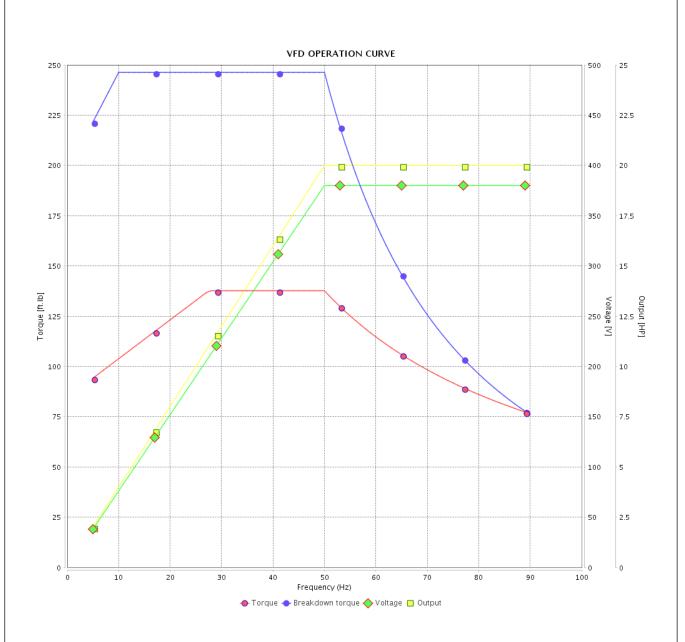
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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



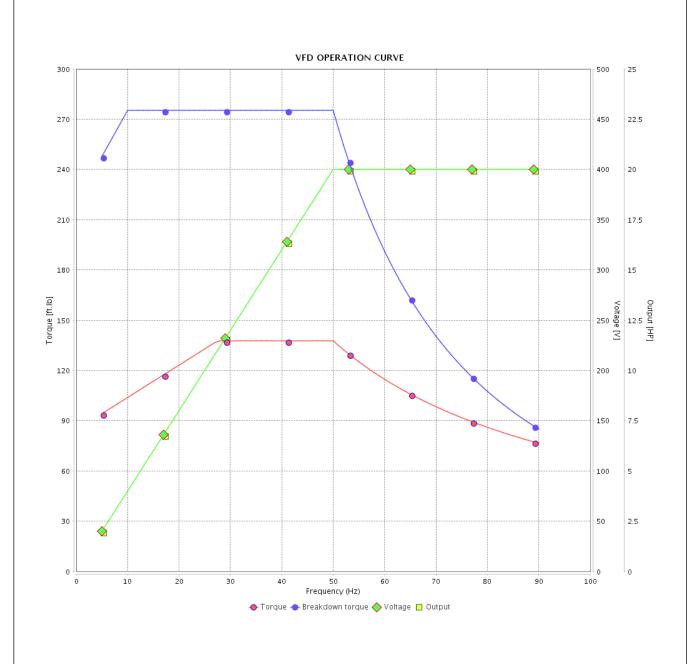
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Performance		00 V 50 Hz 8P IE2				
Rated current		2.6 A	A Moment of inertia (J)		: 9.37 sq.ft.lb	
LRC		.4	Duty cycle		: Cont.(S1)	
Rated torque	: 1	145 ft.lb Insulation		class	: F	
Locked rotor torqu	ue : 1	60 %	Service factor		: 1.15	
Breakdown torque	e : 1:	90 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 7	25 rpm	Design		: B	
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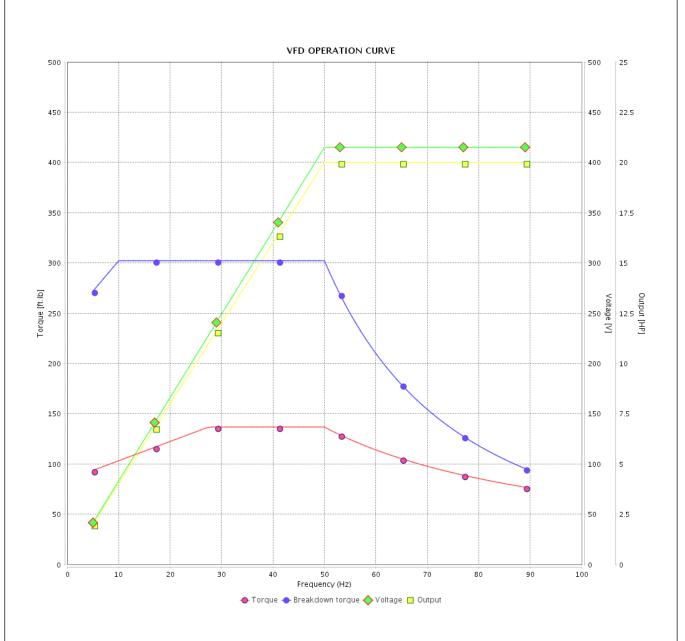
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

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Product code: 12447063

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Performance	: 415 V 50 Hz 8P IE2					
Rated current	: 32.7 A	Moment of	of inertia (J)	: 9.37 sq.ft.lb		
LRC	: 4.6	Duty cycle		: Cont.(S1)		
Rated torque	: 144 ft.lb	: 180 % Service factor Temperature rise		: F		
Locked rotor torque	: 180 %			: 1.15		
Breakdown torque	: 210 %			: 80 K		
Rated speed	: 730 rpm			: B		
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