DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22

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

Insulation class : F 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 : 544 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 1	1.5 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
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]		61.6/30.8	30.3	29.4	28.6	36.8	35.1	34.2
L. R. Amperes [A]		382/191	182	191	200	180	190	198
LRC [A]		6.2x(Code	6.0x(Code	6.5x(Code H)	7.0x(Code J)	4.9x(Code E)	5.4x(Code F)	5.8x(Code
		G)	G)					G)
No load current [A]	28.0/14.0	13.2	14.2	14.9	13.2	14.2	14.9
Rated speed [RPN	/ 1]	1180	980	985	985	975	980	980
Slip [%]	Slip [%]		2.00	1.50	1.50	2.50	2.00	2.00
Rated torque [ft.lb]		111	107	107	107	135	134	134
Locked rotor torqu	Locked rotor torque [%]		200	229	250	160	180	200
Breakdown torque	[%]	260	250	290	310	200	229	250
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		46s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		26s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%							
Efficiency (%)	50%	92.4	91.1	91.1	91.1	91.7	91.7	91.7
Efficiency (70)	75%	93.0	91.8	92.2	92.2	92.4	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7	91.7
	25%							
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
Fower Factor	75%	0.77	0.76	0.74	0.71	0.81	0.79	0.77
	6 6 6 6 6 6 6 6 6 6	0.82	0.80	0.79	0.84	0.83	0.82	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1013 lb Sealing : V'Ring V'Ring Max. compression : 1557 lb

Lubrication interval:20000 h20000 hLubricant amount:21 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 67.2A SF 1.15 SFA 77.3A

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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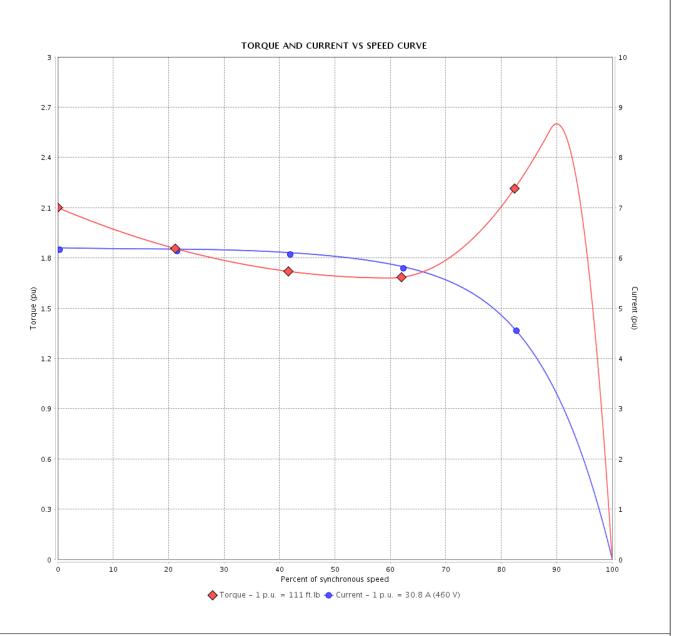
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447065

Catalog #: 02512ET3E324T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Service factor Locked rotor torque : 210 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447065 Catalog #: 02512ET3E324T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 30.3 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 30.3 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



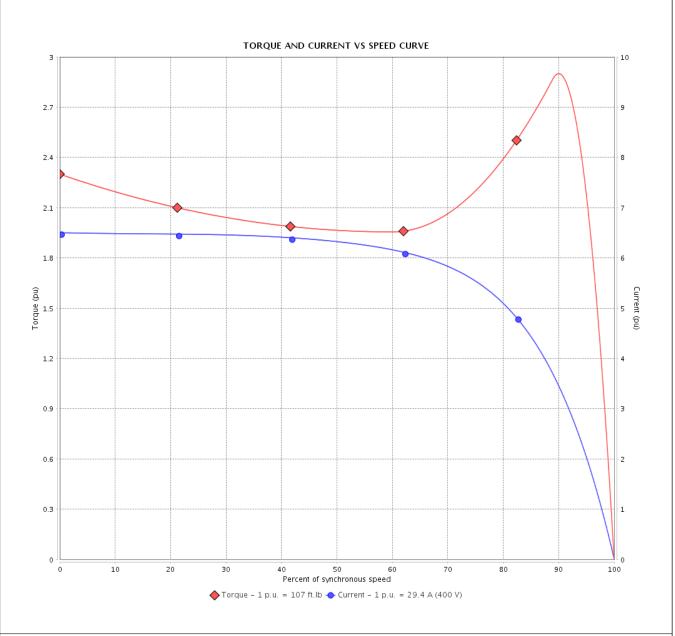
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447065

Catalog #: 02512ET3E324T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 29.4 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447065 Catalog #: 02512ET3E324T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 28.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 28.6 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary**

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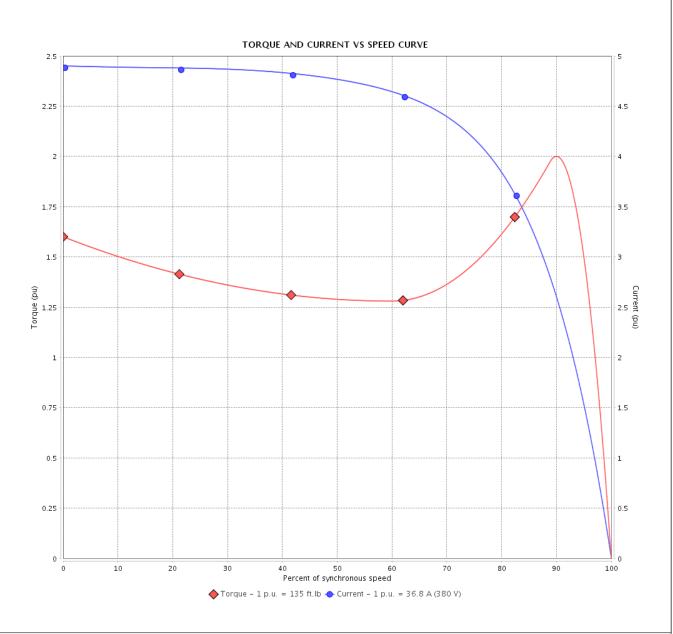


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8 A : 4.9 : 135 ft.lb : 160 % : 200 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

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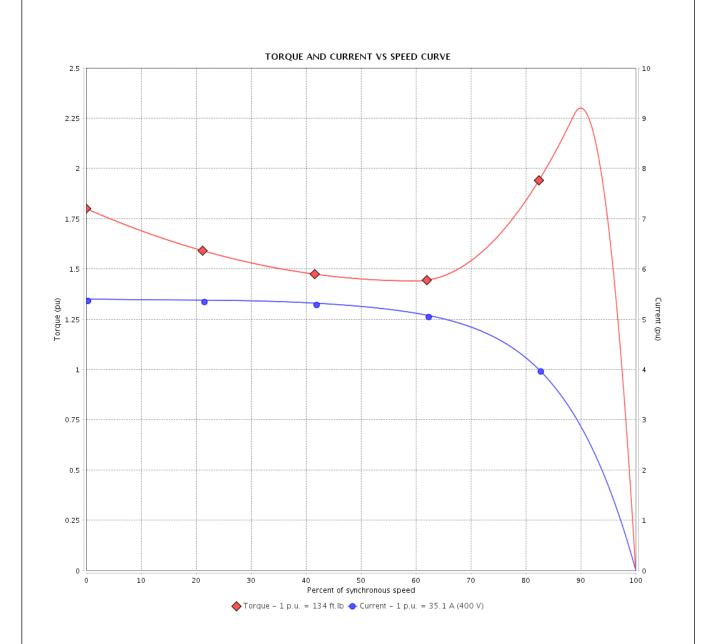
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #:



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 35.1 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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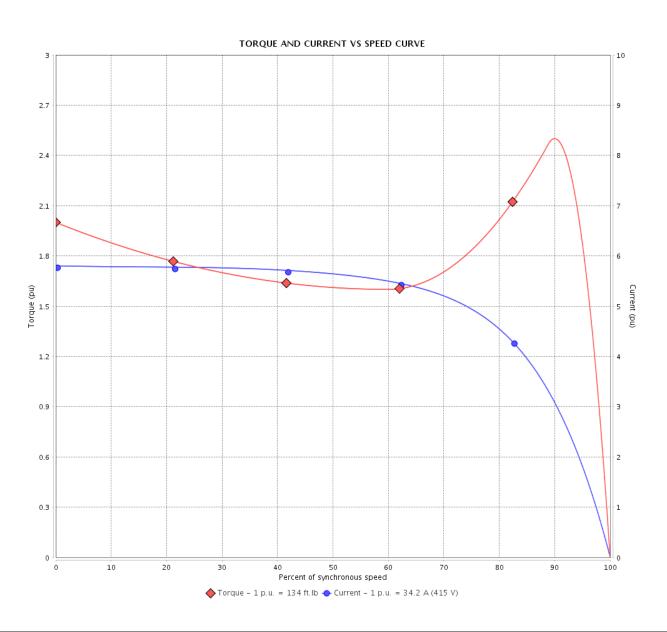
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12447065

Catalog #: 02512ET3E324T-W22



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 34.2 A	Moment of inertia (J)	: 11.5 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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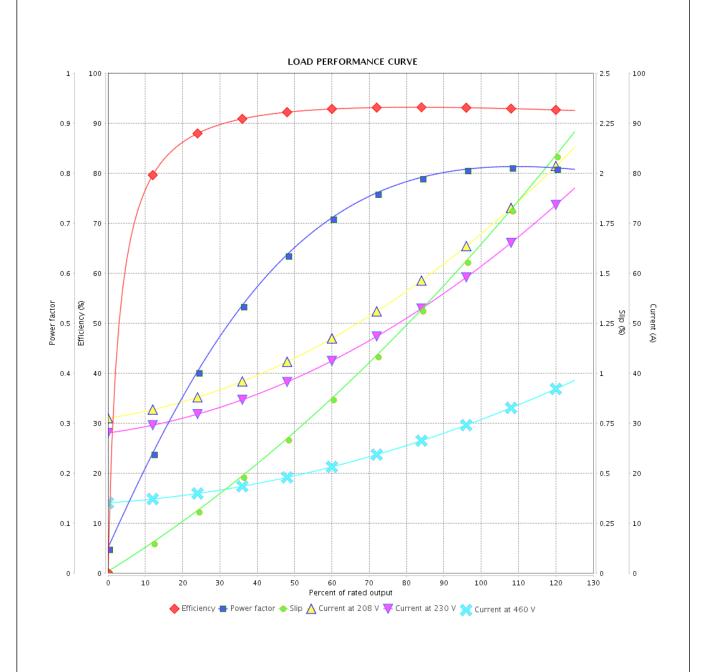


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	eurrent : 61.6/30.8 A Mo		Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	11 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	10 %	Service fa	ctor	: 1.25	
Breakdown torque		60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	180 rpm	Design		: B	
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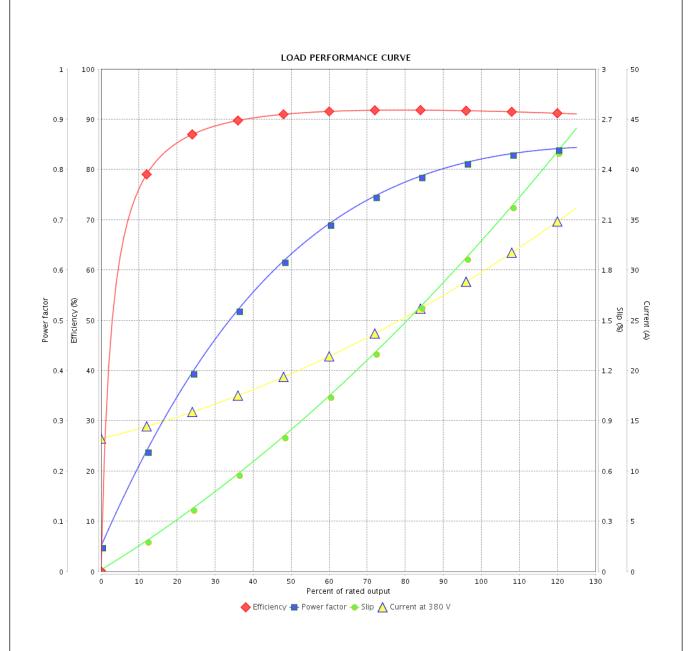
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512ET3E324T-W22

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Performance	: 380 V 50 Hz 6P IE3				
1 enormance					
Rated current	: 30.3 A	Moment of inertia	(J)	: 11.5 sq.ft.lb	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 980 rpm	Design		: B	
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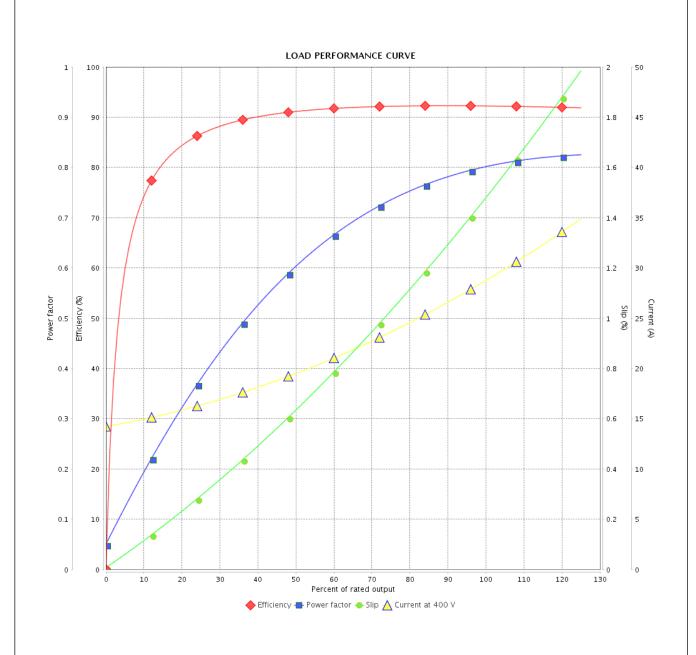
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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 29.4 A		f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 290 %	Temperati	ure rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
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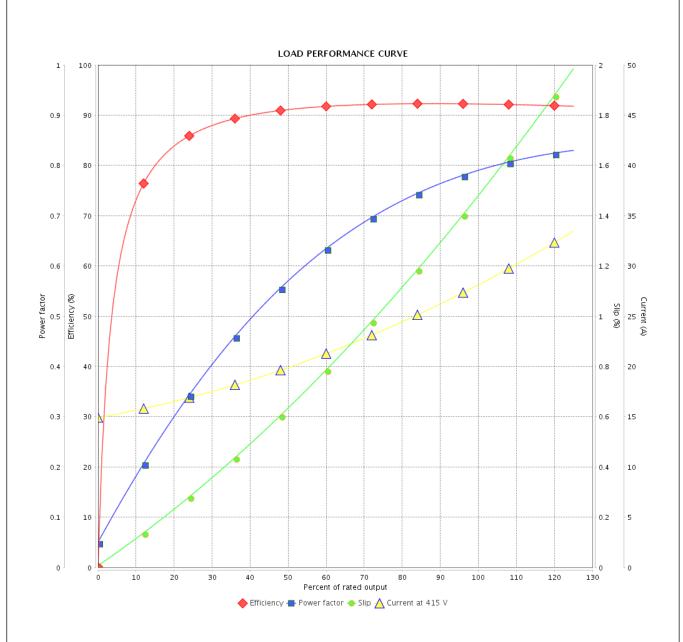
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.6 A : 7.0 : 107 ft.lb : 250 % : 310 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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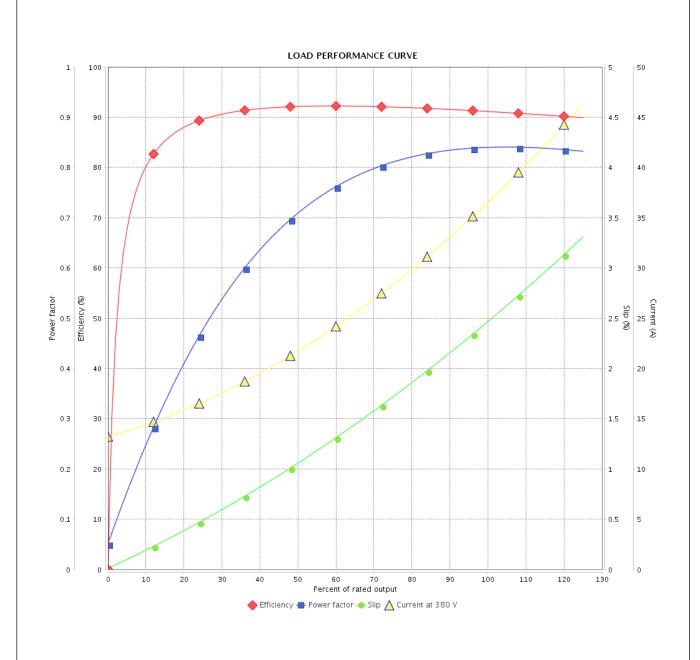
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Product line : NEMA Premium Efficiency Three- Product code : 12447065

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		1			
Performance	erformance : 380 V 50 Hz 6P IE2				
Rated current : 36.8 A		Moment of	` '	: 11.5 sq.ft.lb	
LRC	: 4.9	Duty cycle		: Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation		: F	
Locked rotor torque	: 160 %	Service factor Temperature rise Design		: 1.00	
Breakdown torque	: 200 %			: 80 K	
Rated speed	: 975 rpm			: B	
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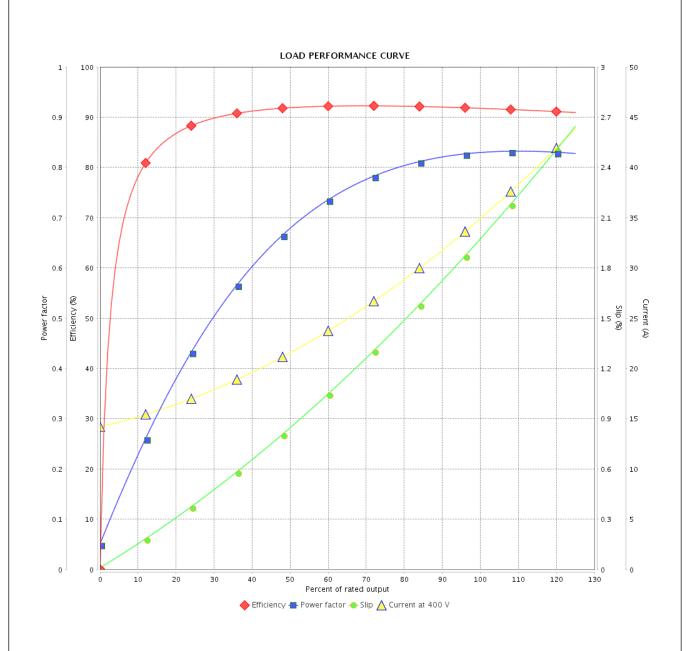


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 35.1 A : 5.4 : 134 ft.lb : 180 % : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	: 980 rpm	Design	: B	
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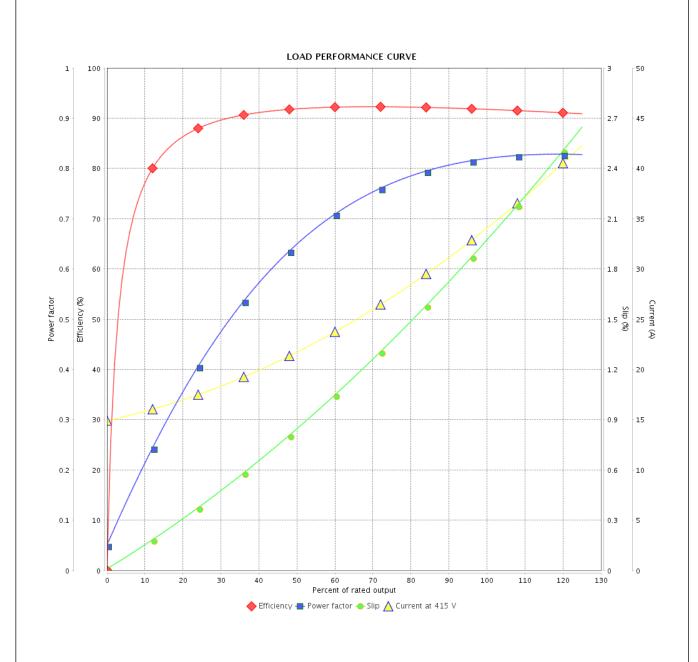
Customer

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.2 A : 5.8 : 134 ft.lb : 200 % : 250 % : 980 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ass or	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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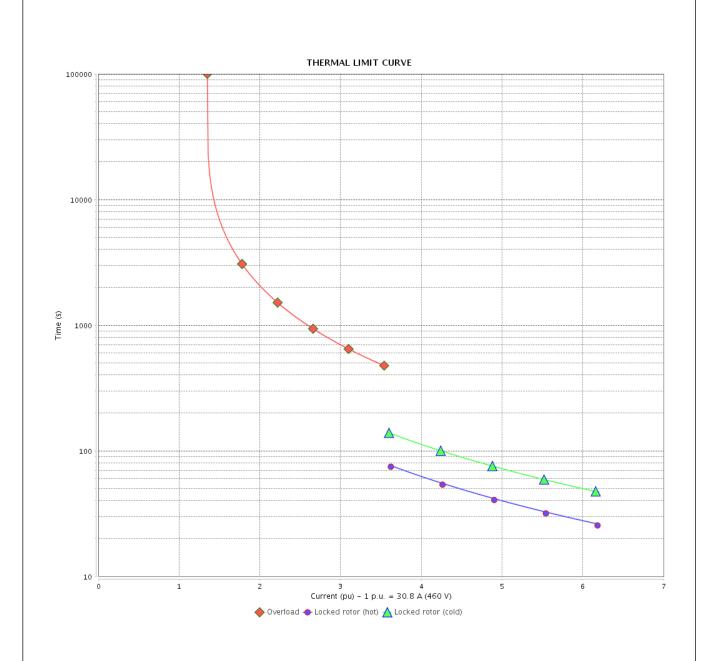


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12447065	
	P	hase		Catalog # :	02512ET3E32	24T-W22
Performance		30/460 V 60 Hz 6P		***********	44.5 6.0	
Rated current LRC	: 6′ : 6.	1.6/30.8 A 2	Moment of Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 11	11 ft.lb 10 %	Insulation Service fa	class	: F : 1.25	
Locked rotor torq Breakdown torqu		10 % 30 %	Temperatu		: 1.25 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant		Channa O.		Dorf !	Ohl !	Dete
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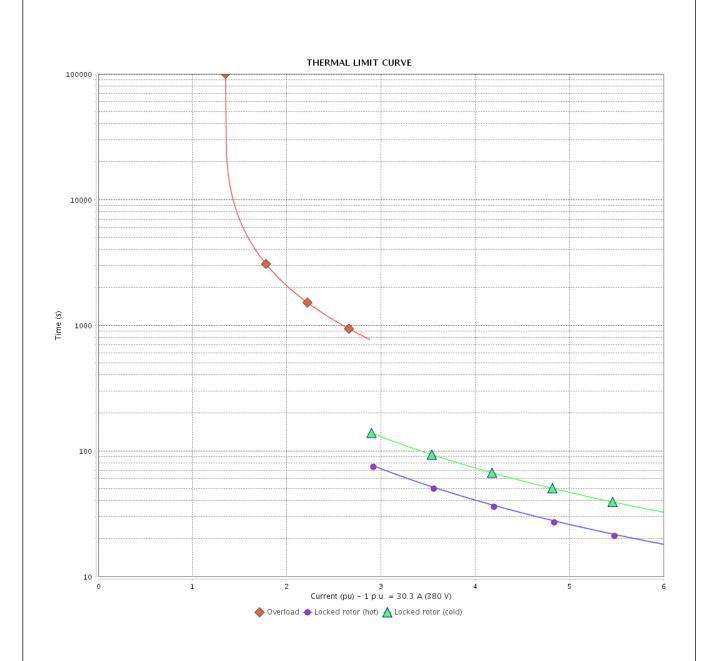


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447065 02512ET3E32	04T W22
				Taking # .	02012110102	
Performance		: 380 V 50 Hz 6P IE3				
Rated current		: 30.3 A	Moment of	of inertia (J)	: 11.5 sq.ft.lb	
LRC Rated torque		: 6.0 : 107 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed	ue	: 250 % : 980 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		r				
Cooling constant						
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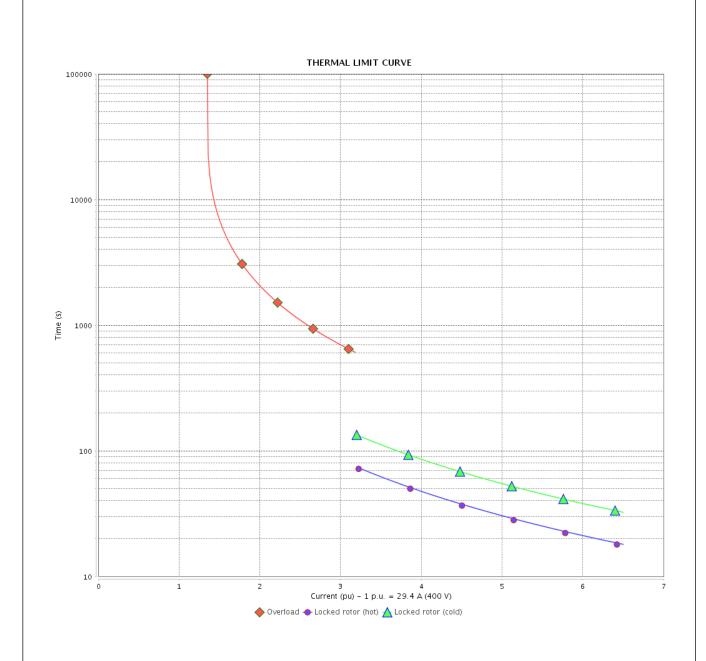


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447065 02512ET3E32	24T-W22
				- Catalog // .	02012210202	
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 29.4 A : 6.5	Moment of Duty cycle	of inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 107 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 290 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 985 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant	t			,		
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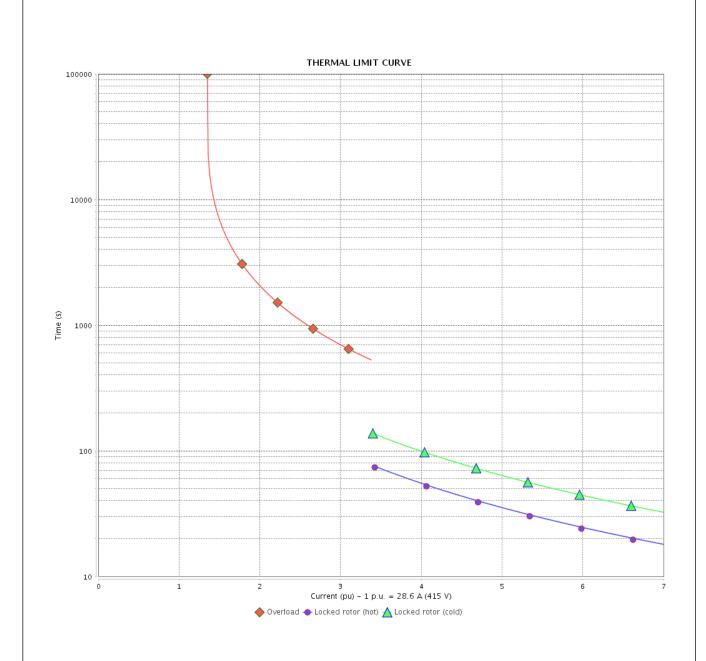


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447065 02512ET3E32	24T-W22
					02012210202	
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 28.6 A : 7.0	Duty cycle		: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 107 ft.lb : 250 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 310 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Cummer:		Dorform	Charles	Doto
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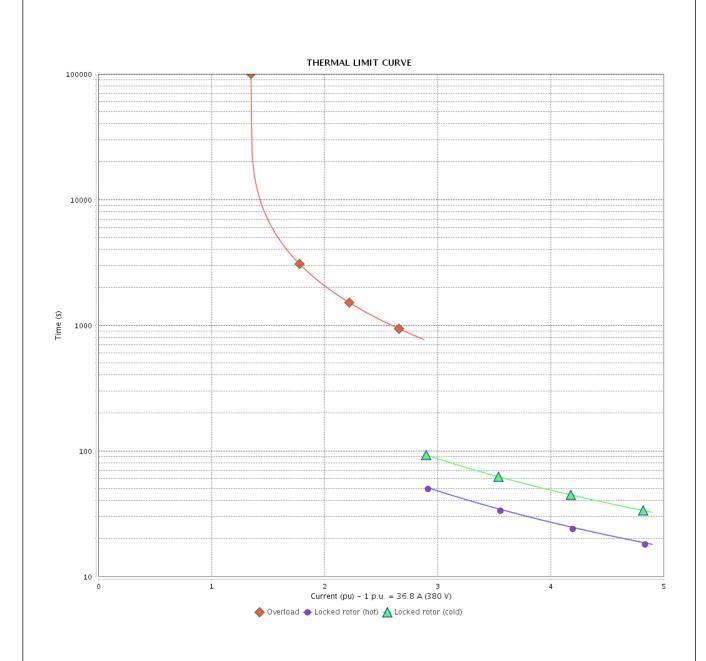


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Product line		: NEMA Premium Efficiency Phase		Product code :	12447065	04T M/00
				Catalog # :	02512ET3E32	241-VVZZ
Performance		: 380 V 50 Hz 6P IE2	Т			
Rated current LRC		: 36.8 A : 4.9	Moment of Duty cycle	of inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 135 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 200 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 975 rpm	Design	J. J 1100	: B	
Heating constan	t					
Cooling constant	t			,		
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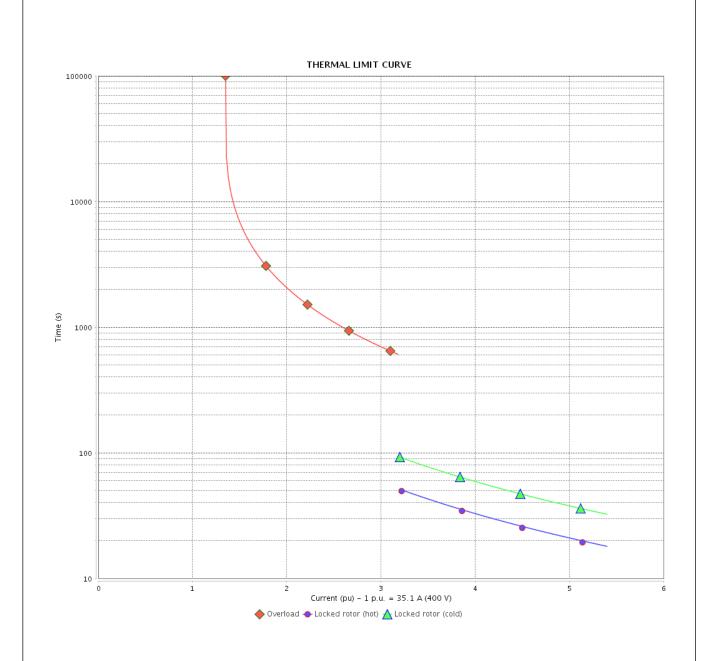


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12447065	
	P	hase		Catalog # :	02512ET3E32	24T-W22
Performance		00 V 50 Hz 6P IE3	Т			
Rated current LRC	: 35 : 5.	5.1 A 4	Moment of Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 13	34 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 29 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		30 rpm	Design	J 	: B	
Heating constant						
Cooling constant		01 2				
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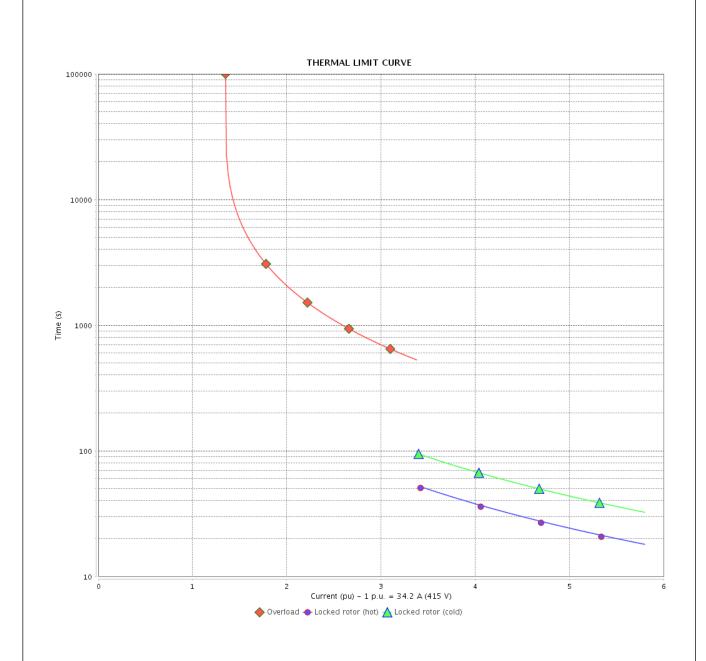


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12447065	
	P	hase		Catalog # :	02512ET3E32	24T-W22
Performance		15 V 50 Hz 6P IE3		5 : (: ()	44.5. 6.11	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque		34 ft.Ib 00 %	Insulation Service fa	class	: F : 1.15	
Locked rotor torque Breakdown torque		50 %	Temperatu		: 1.15 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Produ

Phase

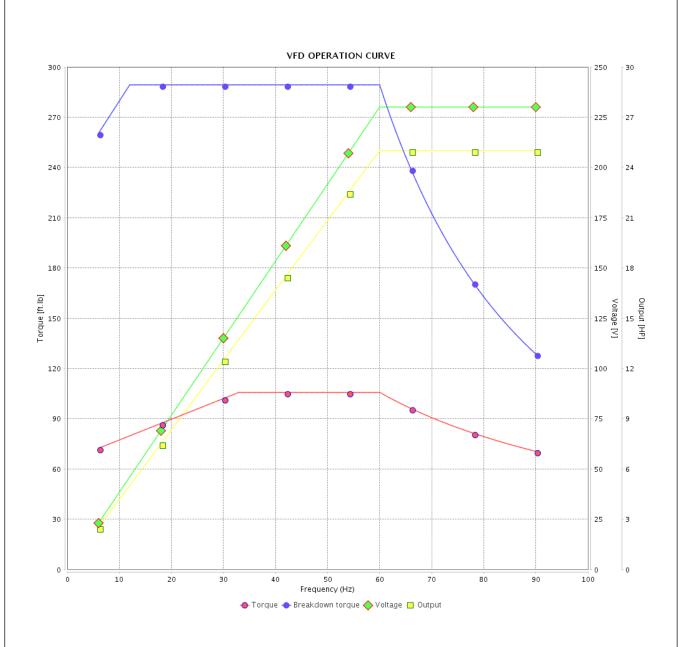
Product code: 12447065

Catalog #: 02512ET3E324T-W22

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Performance		: 230/460 V 60 Hz 6	P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 61.6/30.8 A : 6.2 : 111 ft.lb : 210 % : 260 % : 1180 rpm	Duty control of the c	on class e factor rature rise	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



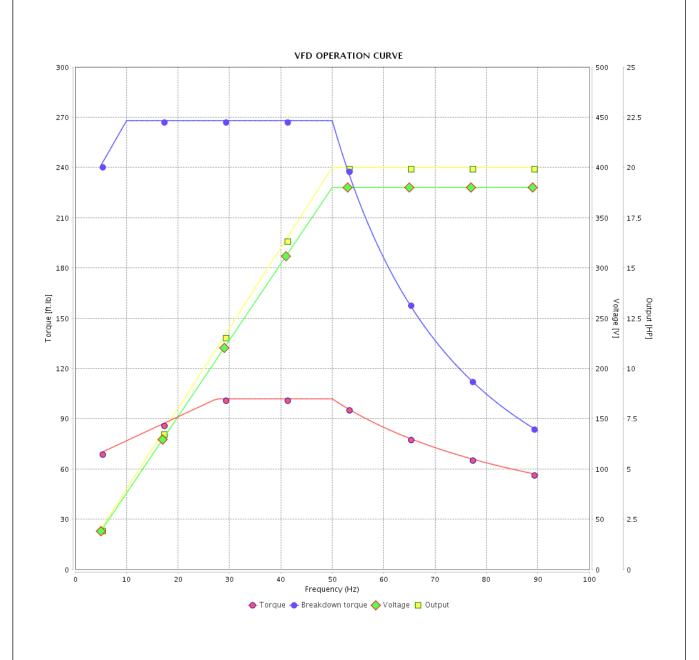
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 30.3 A	Moment of inertia (J)		: 11.5 sq.ft.lb	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	torque : 107 ft.lb Insulation class		: F		
Locked rotor torque	: 200 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 250 %				
Rated speed	: 980 rpm	Design		: B	
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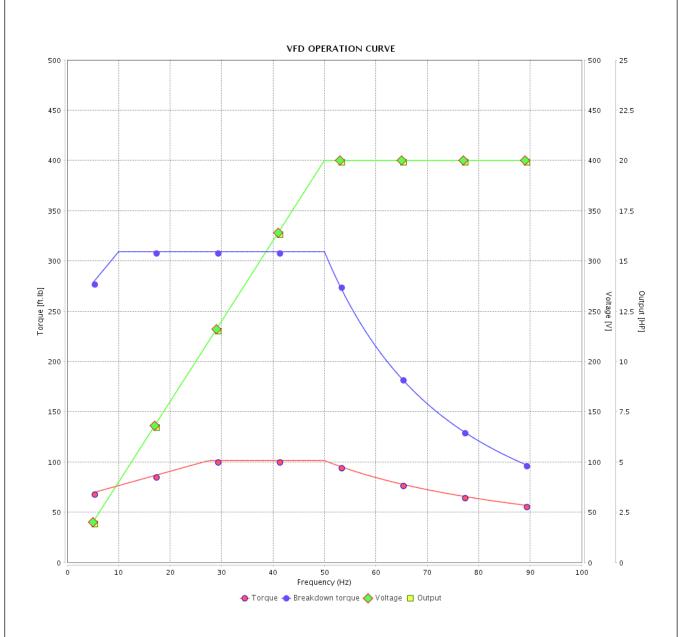
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447065

Catalog #: 02512ET3E324T-W22



		-0			
Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 29.4 A	Moment of inertia (J)		: 11.5 sq.ft.lb	
LRC Rated torque			Duty cycle : Cont.(S1) Insulation class : F		
Locked rotor torque	: 229 %	Service factor Temperature rise		: 1.15	
Breakdown torque	: 290 %			: 80 K	
Rated speed	: 985 rpm	Design		: B	
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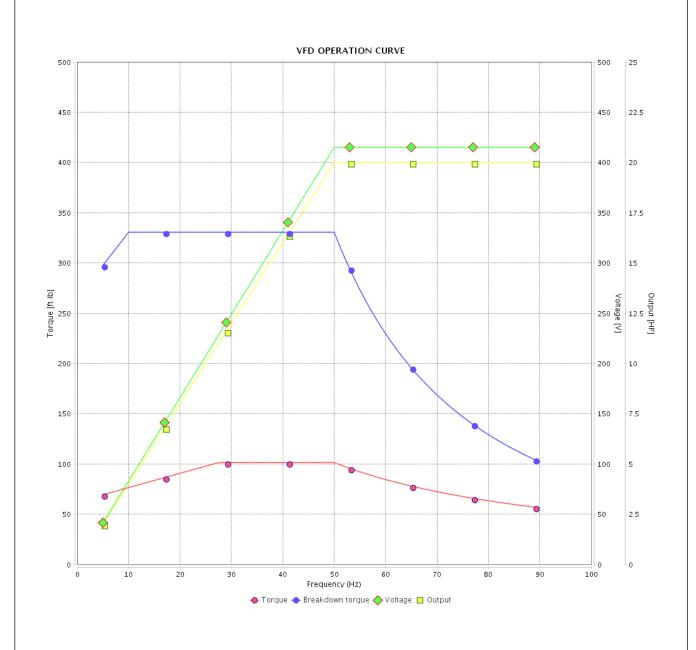
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Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22



Performance		: 415 V 50 Hz 6P	IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 28.6 A : 7.0 : 107 ft.lb : 250 % : 310 % : 985 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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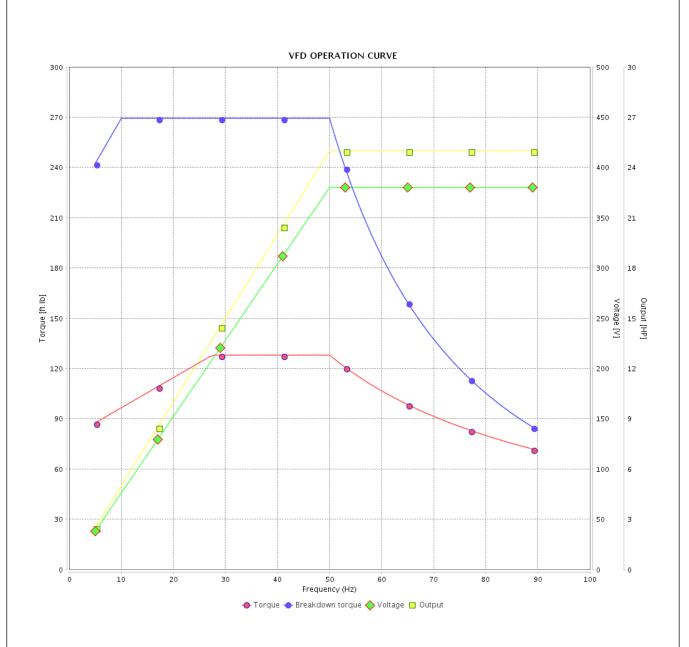
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Performance		: 380 V 50 Hz 6P I	E2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 36.8 A : 4.9 : 135 ft.lb : 160 % : 200 % : 975 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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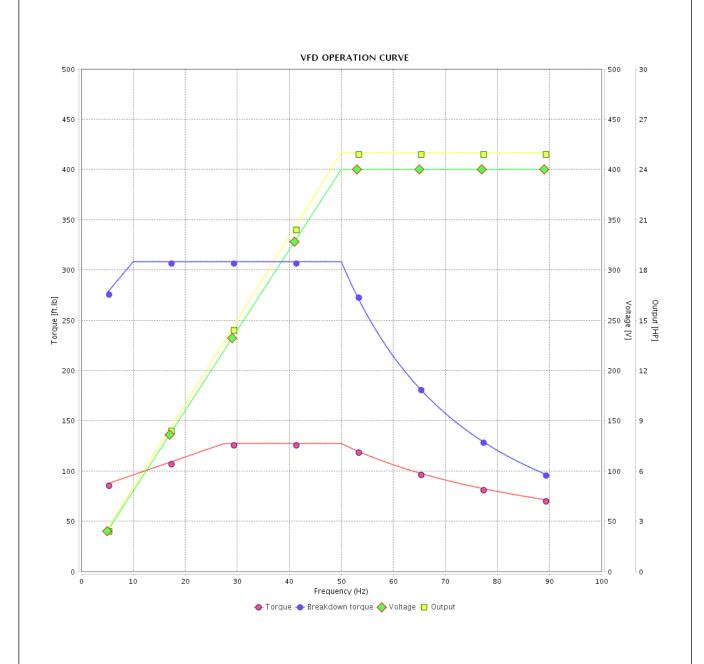


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Product line : NEMA Premium Efficiency Three- Product code : 12447065

Phase

Catalog #: 02512ET3E324T-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 3	5.1 A	Moment of inertia (J)		: 11.5 sq.ft.lb	
LRC	: 5	.4	Duty cycle	Duty cycle		
Rated torque	: 13	34 ft.lb	Insulation class		: F	
Locked rotor torque	e : 1	80 %	Service fa	Service factor		
Breakdown torque	: 2:	229 % Temperature ris	ıre rise	: 80 K		
Rated speed	: 9	980 rpm Design		: B		
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Product line : NEMA Premium Efficiency Three- Product

Phase

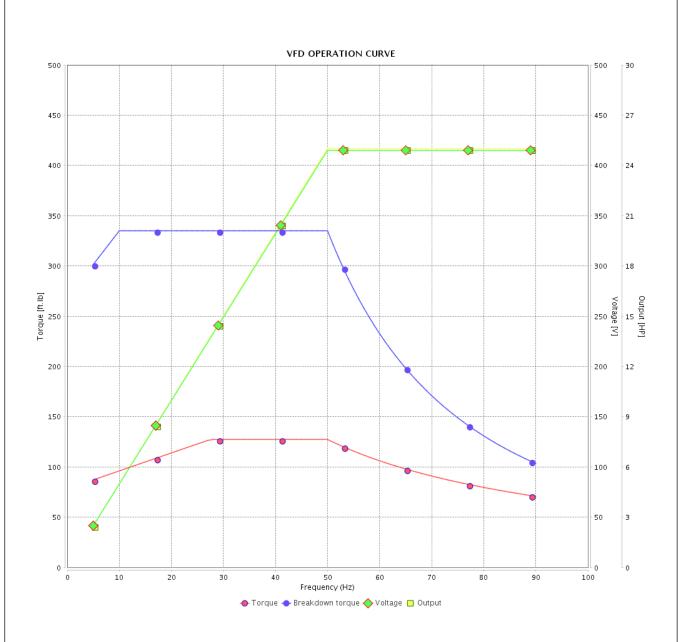
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Performance	: 415 V 50 Hz 6P IE3	: 415 V 50 Hz 6P IE3				
Rated current LRC	: 34.2 A : 5.8	Moment of inertia (J)		: 11.5 sq.ft.lb		
Rated torque	: 134 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F		
Locked rotor torque	: 200 %	Service factor		: 1.15		
Breakdown torque	: 250 %	Temperature rise		: 80 K		
Rated speed	: 980 rpm	Design		: B		
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