DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22

Frame : 284/6T 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 : 412 lb

/ iiiitaac		. 1000 111.0.0.1.		, (ppi 0)	Approx. Worgin			11210		
Protection degre	е	: IP55		Momer	nt of inertia (J)) : 7	7.85 sq.ft.lb			
Design		: B								
Output [HP]		15	10	10	10	15	15	15		
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]		35.8/17.9	15.5	15.1	14.9	22.0	20.9	20.2		
L. R. Amperes [A]		229/115	112	119	124	103	111	115		
LRC [A]		6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code F)		
No load current [A]	14.0/7.00	7.00	7.40	7.70	7.00	7.40	7.70		
Rated speed [RPN	/ []	1175	985	985	985	965	970	975		
Slip [%]		2.08	1.50	1.50	1.50	3.50	3.00	2.50		
Rated torque [ft.lb]]	67.0	53.3	53.3	53.3	81.6	81.2	80.8		
Locked rotor torqu	e [%]	229	270	300	330	170	200	220		
Breakdown torque	[%]	260	300	340	360	210	229	250		
Service factor		1.25	1.25	1.25	1.25	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		36s (cold)	61s (cold)	54s (cold)	52s (cold)	27s (cold)	27s (cold)	27s (cold)		
		20s (hot)	34s (hot)	30s (hot)	29s (hot)	15s (hot)	15s (hot)	15s (hot)		
Noise level ²		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)		
	25%									
Efficiency (%)	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2		
Efficiency (%)	75%	91.7	89.4	89.5	89.5	90.2	90.2	91.0		
	100%	91.7	89.4	89.5	89.5	88.5	89.5	90.2		
		1	1	1	1		1	1		

0.61

0.73

0.58

0.71

 100%
 0.84
 0.82
 0.80
 0.78

 Drive end
 Non drive end
 Foundation loads

0.69

0.80

Bearing type : 6311 C3 6211 C3 Max. traction : 675 lb Sealing : V'Ring V'Ring Max. compression : 1087 lb

0.64

0.76

Lubrication interval : 20000 h 20000 h Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 39.6A SF 1.15 SFA 45.5A

25%

50%

75%

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.

0.75

0.84

0.86

0.72

0.82

0.85

0.70

0.81

0.84

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Three Phase Induction Motor - Squirrel Cage



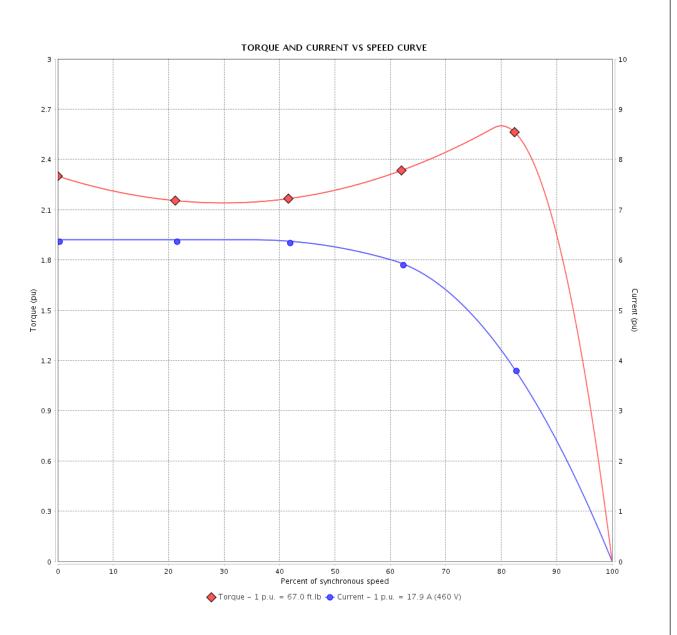
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12446942

Catalog #: 01512ET3E284T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 35.8/17.9 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 67.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12446942 Catalog #: 01512ET3E284T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ◆Torque - 1 p.u. = 53.3 ft.lb ◆ Current - 1 p.u. = 15.5 A (380 V) : 380 V 50 Hz 6P IE3 Performance : 7.85 sq.ft.lb Rated current : 15.5 A Moment of inertia (J) : Cont.(S1) LRC : 7.2 Duty cycle Rated torque : 53.3 ft.lb Insulation class : F

akdown torque : 270 % akdown torque : 300 % ed speed : 985 rpm Service factor Temperature rise Design		ie : 300 % Temperature rise			: 1.25 : 80 K : B	
e : 6	1s (cold) 34s (hot)				
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1	e : 30 : 98 e : 6	e : 300 % : 985 rpm e : 61s (cold) 34s (hot) Changes Summa	e : 300 % Temperatur Design e : 61s (cold) 34s (hot) Changes Summary	e : 300 % Temperature rise Design e : 61s (cold) 34s (hot) Changes Summary Performed	Temperature rise : 80 K : 985 rpm Design : B Example : 61s (cold) 34s (hot) Changes Summary Performed Checked	

Three Phase Induction Motor - Squirrel Cage

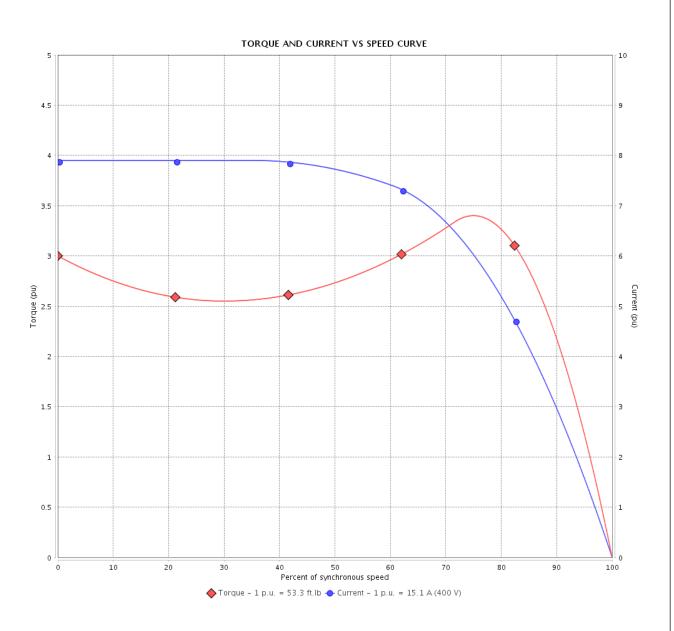


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 15.1 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque Locked rotor torque	: 53.3 ft.lb : 300 %	Insulation class Service factor	: F : 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

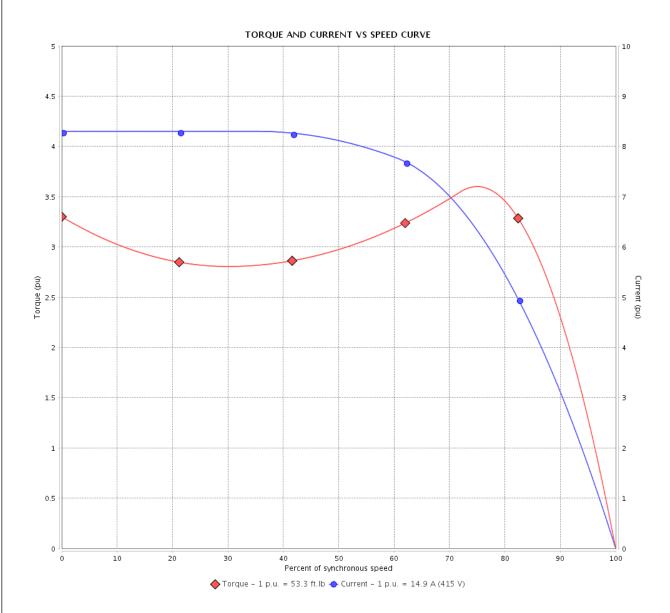
Locked rotor time : 54s (cold) 30s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 12446942 Catalog #: 01512ET3E284T-W22



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 14.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 53.3 ft.lb	Insulation class	:F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	: 52s (cold) 29s (hot)	L	

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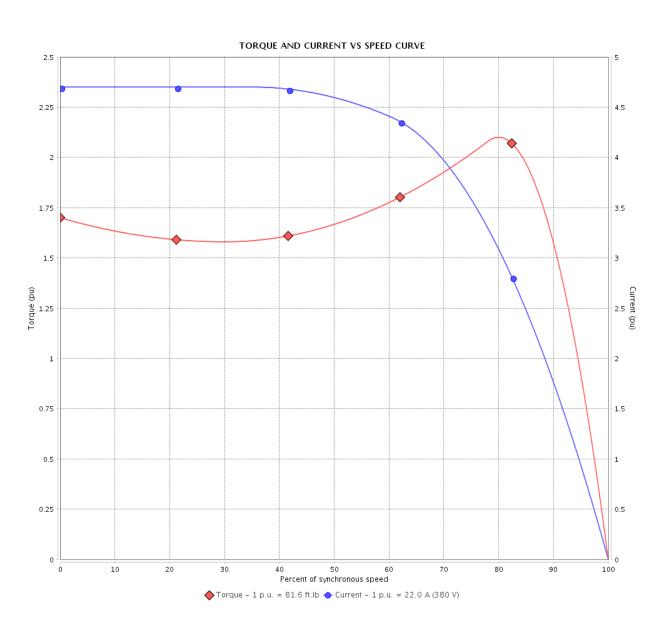
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12446942

Catalog #: 01512ET3E284T-W22



Performance : 380 V 50 Hz 6P IE1 Rated current : 22.0 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 81.6 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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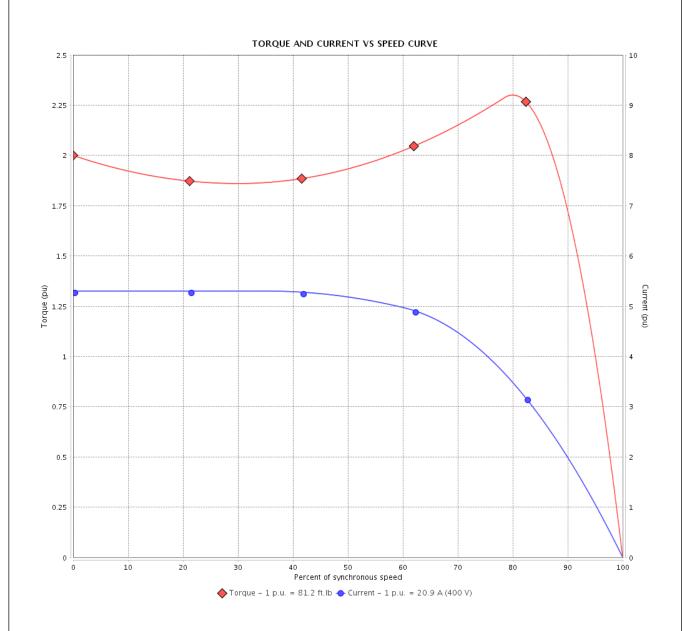


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 20.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 5.3	Duty cycle	: Cont.(S1)	
Rated torque	: 81.2 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

Locked rotor time : 27s (cold) 15s (hot)

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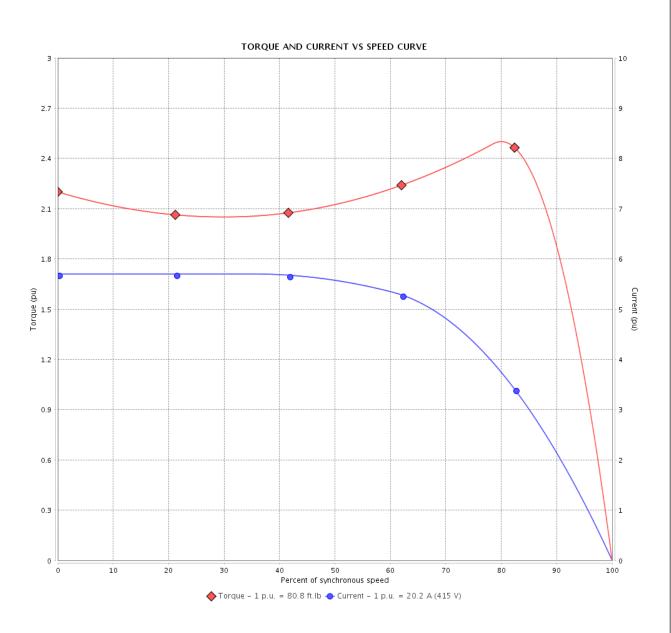
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12446942

Catalog #: 01512ET3E284T-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 20.2 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 80.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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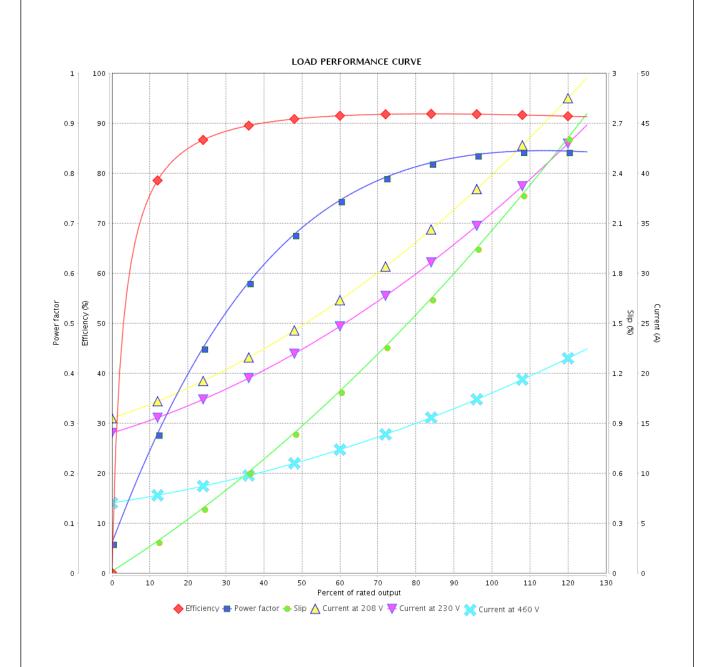
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446942

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Performance	: 230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.8/17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.4 Duty cycle : Cont.(S1 : 67.0 ft.lb Insulation class : F : 229 % Service factor : 1.25 : 260 % Temperature rise : 80 K		: 1.25 : 80 K	
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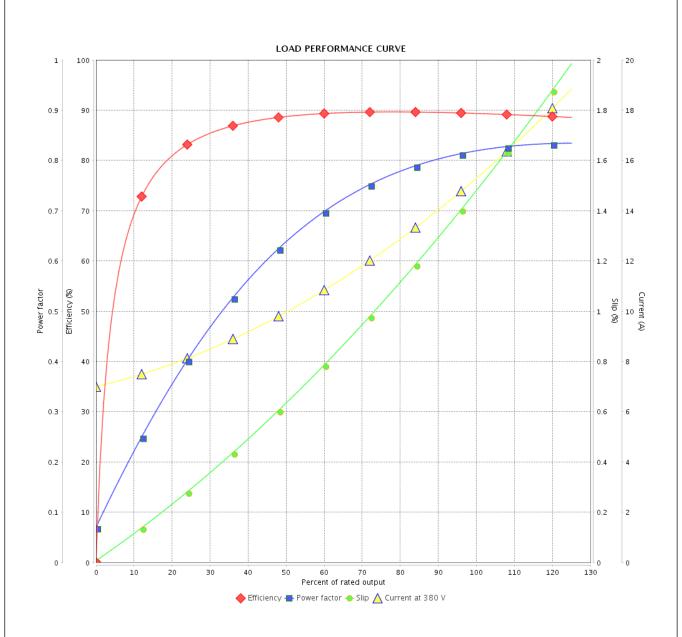
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12446942

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					·	
Performance : 380 V 50 Hz 6P IE3			3			
Rated current : 15.5 A		5.5 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC	: 7	' .2	Duty cycle	;	: Cont.(S1)	
Rated torque : 5		3.3 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 2	270 %	Service fa	Service factor		
Breakdown torqu	ie : 3	800 %	Temperati	Temperature rise		
Rated speed	: 9	985 rpm	5 rpm Design		: B	
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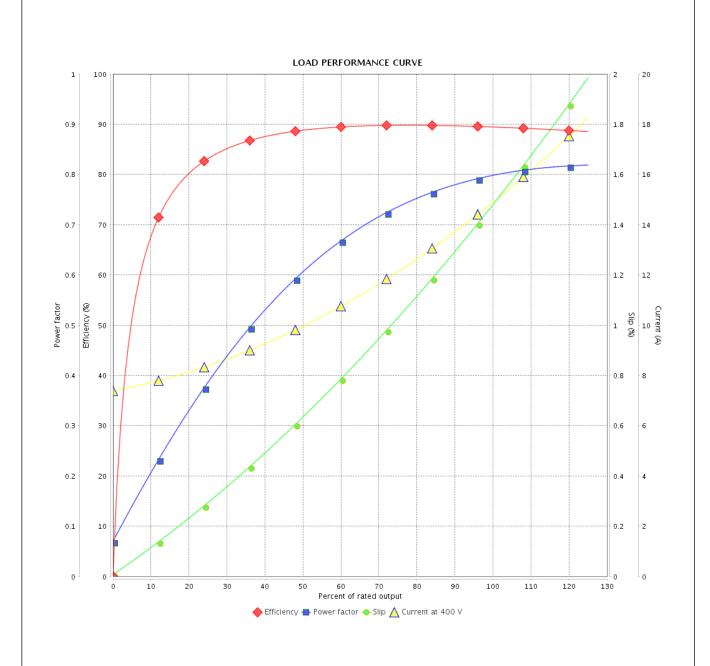
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Product line : NEMA Premium Efficiency Three- Product code : 12446942

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.1 A : 7.9 : 53.3 ft.lb : 300 % : 340 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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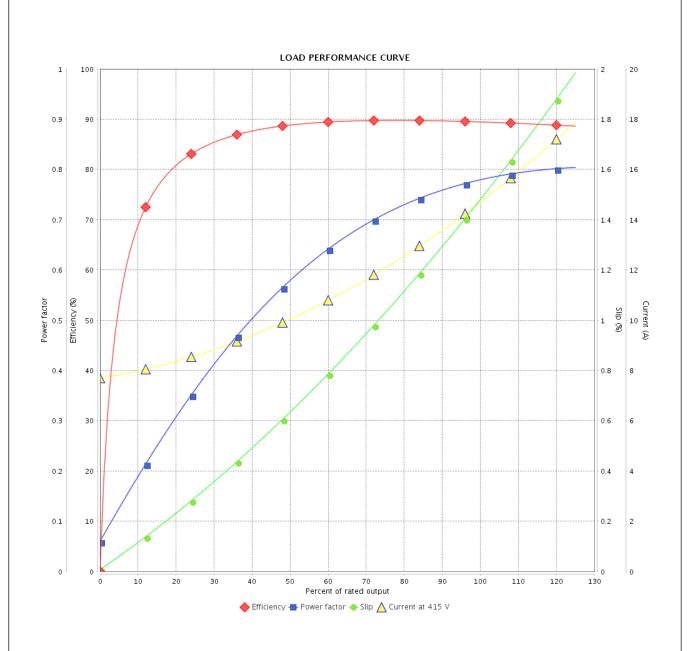


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22



Performance : 415 V 50 Hz 6P IE					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.9 A : 8.3 : 53.3 ft.lb : 330 % : 360 % : 985 rpm	Moment of inertia (J) : 7.85 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		: Cont.(S1) : F : 1.25 : 80 K	
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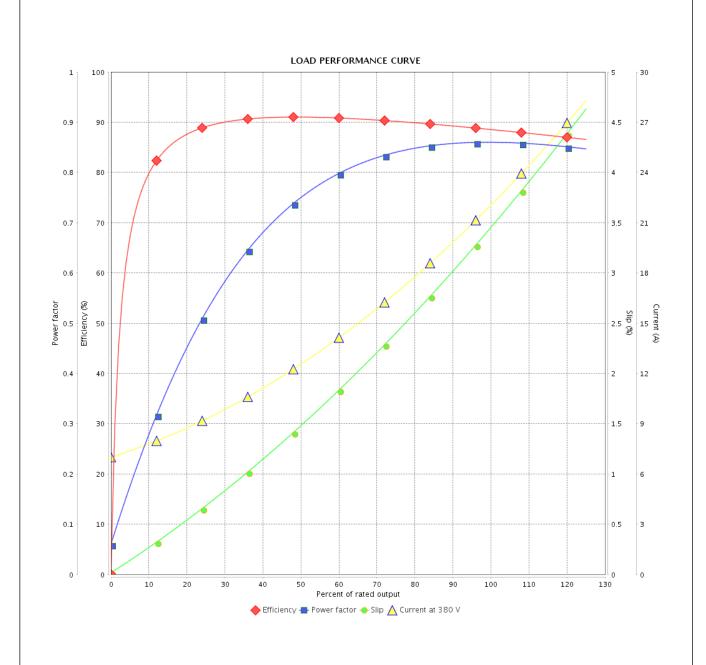
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Performance	: 380 V 50 Hz 6P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 4.7 : 81.6 ft.lb : 170 % : 210 % : 965 rpm	Duty cycle : 0 Insulation class : F Service factor : 6 Temperature rise : 8		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	: Cont.(\$1) : F : 1.00 : 80 K	
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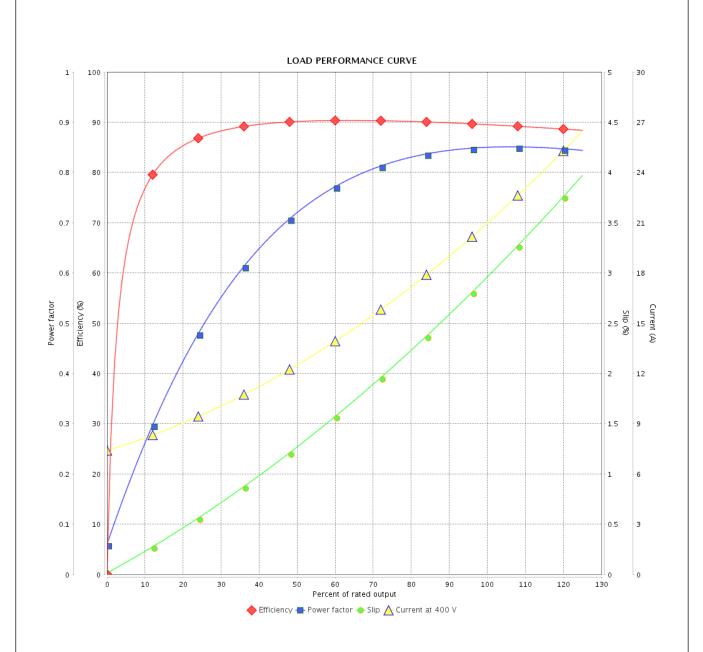
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Performance : 400 V 50 Hz 6P IE2 : 20.9 A Rated current Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 81.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



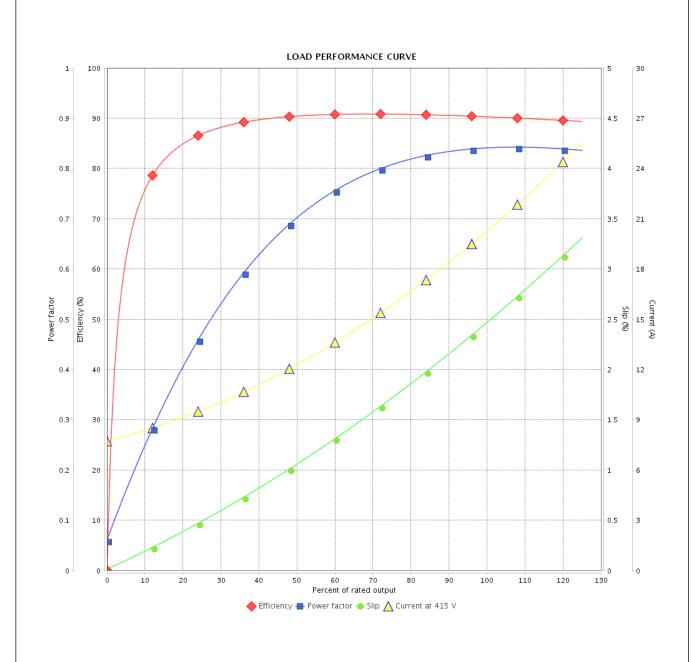
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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.2 A Moment of inertia (J) : 7.85 sq.ft : 5.7 Duty cycle : Cont.(S1) : 80.8 ft.lb Insulation class : F : 220 % Service factor : 1.15 : 250 % Temperature rise : 80 K : 975 rpm Design : B		Duty cycle Insulation class Service factor Temperature rise		
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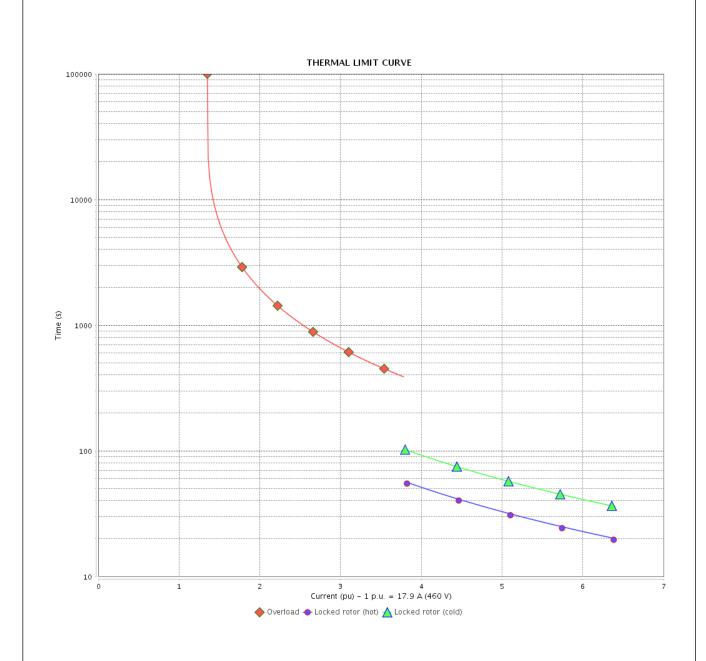


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			(Catalog # :	01512ET3E2	84T-W22
D. (00/400 \/ 00 0D				
Performance Rated current		30/460 V 60 Hz 6P 5.8/17.9 A	Moment of	f inertia (I)	: 7.85 sq.ft.lb	
LRC	: 6.	.4	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		7.0 ft.lb 29 %	Insulation Service fac		: F : 1.25	
Breakdown torqu	ie : 20	60 %	Temperatu		: 80 K	
Rated speed	: 1	175 rpm	Design		: B	
Heating constan						
Cooling constan	t 	Changes Summers	Τ	Performed	Checked	Date
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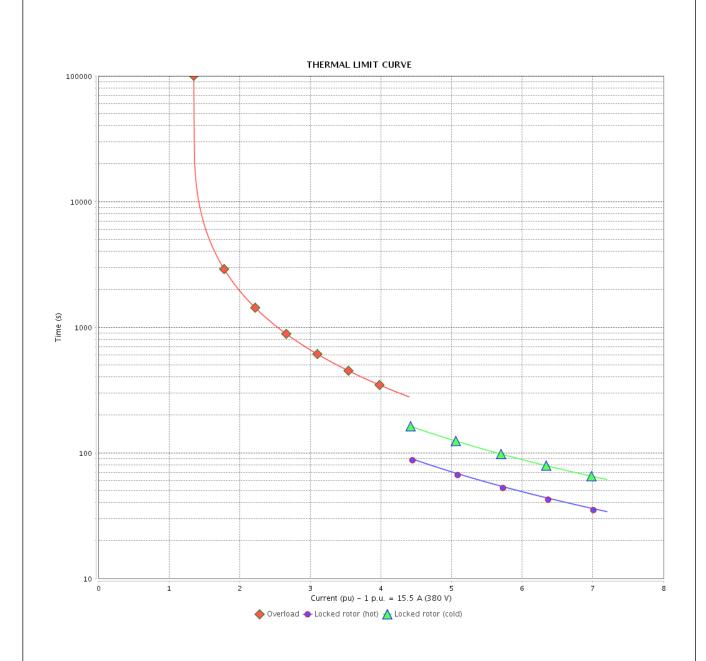


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Product line	: NEMA Premium Efficiency Phase		12446942	
		Catalog #:	01512ET3E2	84T-W22
Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC	: 15.5 A : 7.2	Moment of inertia (J)	: 7.85 sq.ft.lb	
Rated torque	: 7.2 : 53.3 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 270 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 300 % : 985 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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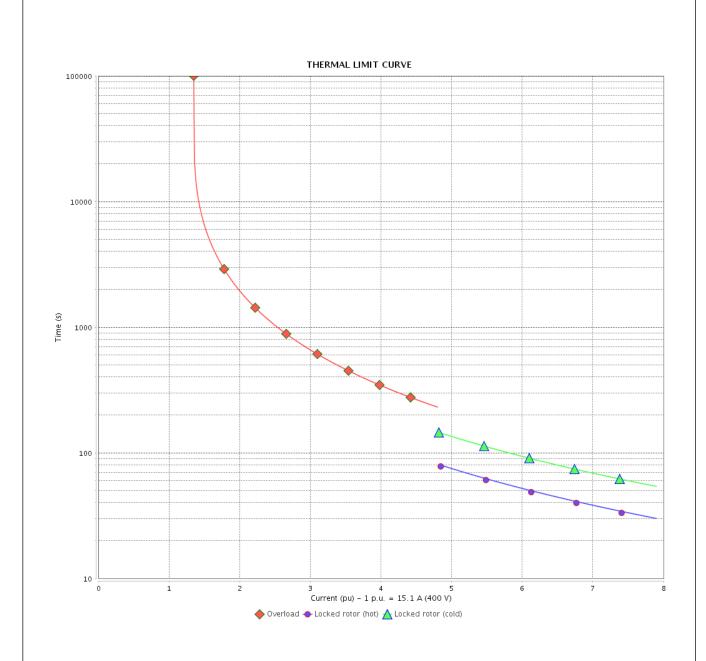


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Product line		NEMA Premium Efficiency hase		Product code :	12446942 01512ET3E28	34T-W22
				-		
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC	: 15 : 7.	5.1 A 9	Moment of Duty cycle	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	class	: F	
Locked rotor torq		00 %	Service fa		: 1.25	
Breakdown torqu Rated speed		40 % 85 rpm	Temperatu Design	ITE FISE	: 80 K : B	
Heating constant Cooling constant						
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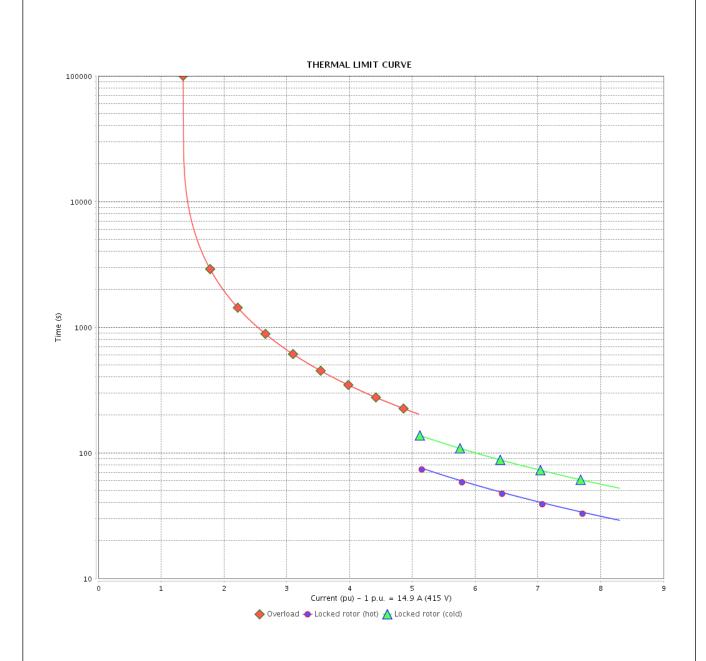


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12446942 01512ET3E28	34T-W22
				Catalog #:	01512E13E26	341-WZZ
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14 : 8. : 53 : 36	15 V 50 Hz 6P IE3 4.9 A 3 3.3 ft.lb 30 % 60 % 35 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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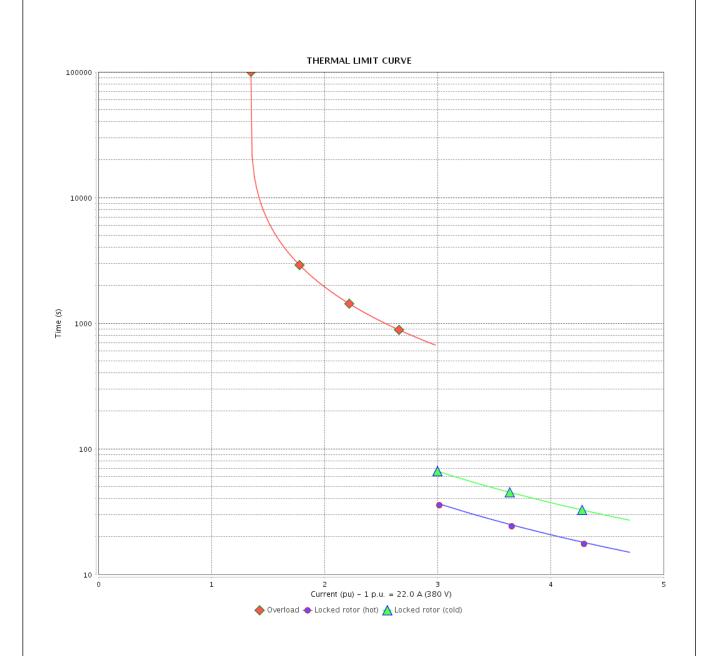


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12446942	
		Phase		Catalog # :	01512ET3E28	RAT_\N/22
Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 22.0 A	Moment of	of inertia (J)	: 7.85 sq.ft.lb	
LRC		: 4.7 : 81.6 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor tord		: 81.6 m.id : 170 %	Service fa		: F : 1.00	
Breakdown torqu	ue	: 210 %	Temperat		: 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constan						
Cooling constant	t			T =		
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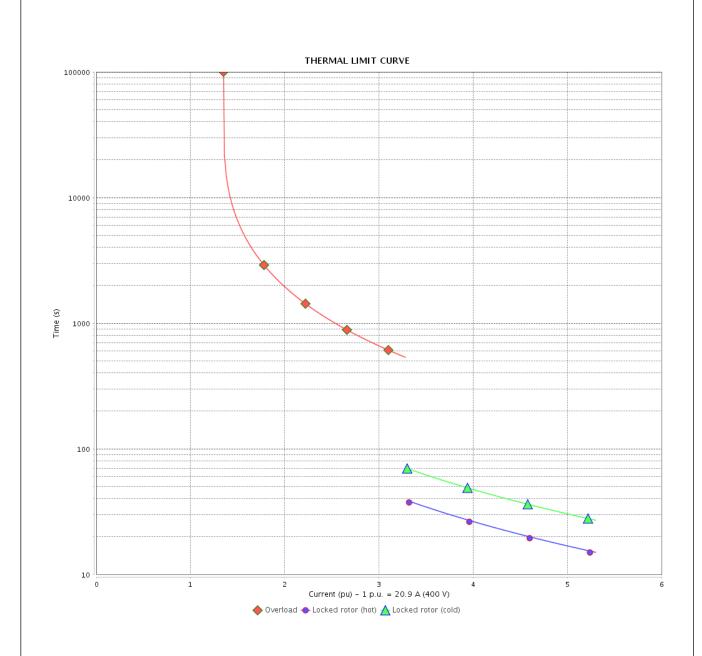


Customer	:				_	
Product line		NEMA Premium Efficiency hase		Product code :	12446942 01512ET3E28	34T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20 : 5. : 8' e : 20 : 22	00 V 50 Hz 6P IE2 0.9 A 3 1.2 ft.lb 00 % 29 % 70 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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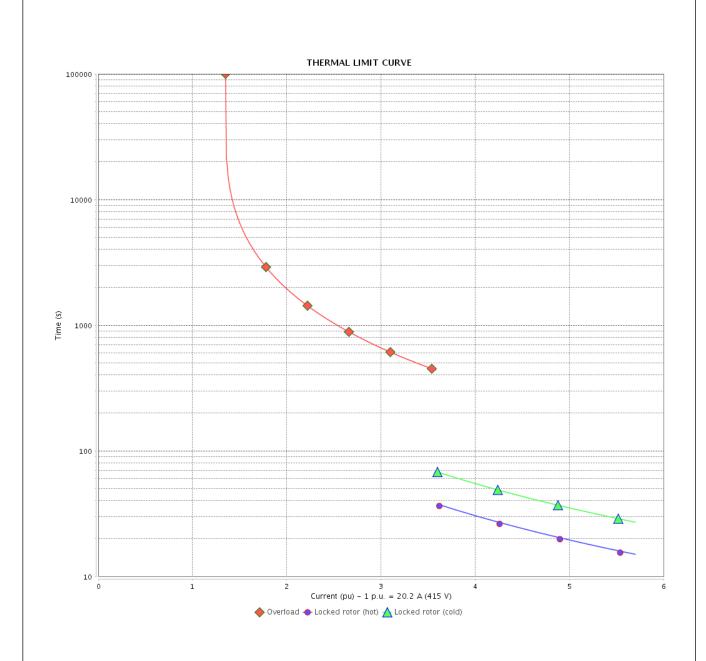


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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12446942	
	1 Hase		Catalog # :	01512ET3E28	34T-W22
Performance	: 415 V 50 Hz 6P IE2	Moment -	finartia (I)	· 7 05 00 # 1h	
Rated current LRC	: 20.2 A : 5.7	Moment o	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 80.8 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 % : 250 %	Service fa		: 1.15 : 80 K	
Breakdown torque Rated speed	: 250 % : 975 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant					
Cooling constant					
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Phase

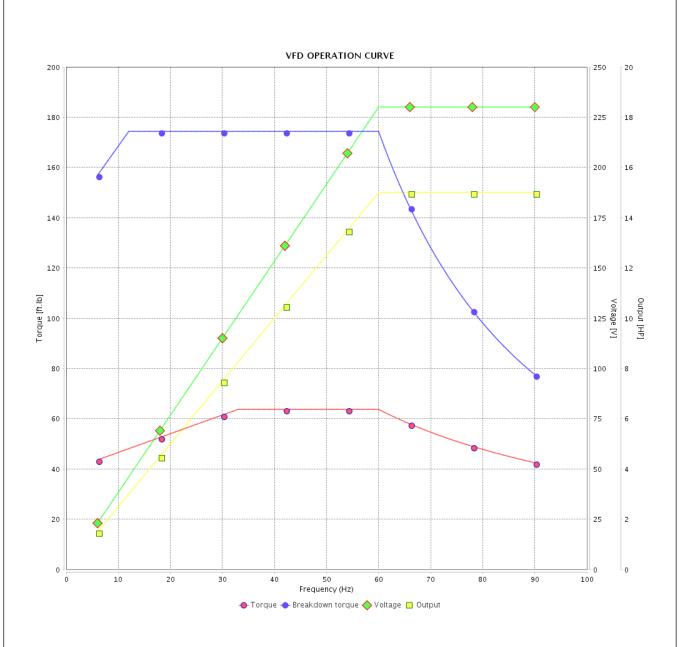
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Performance		: 230/460 V 60 Hz 6	6P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 35.8/17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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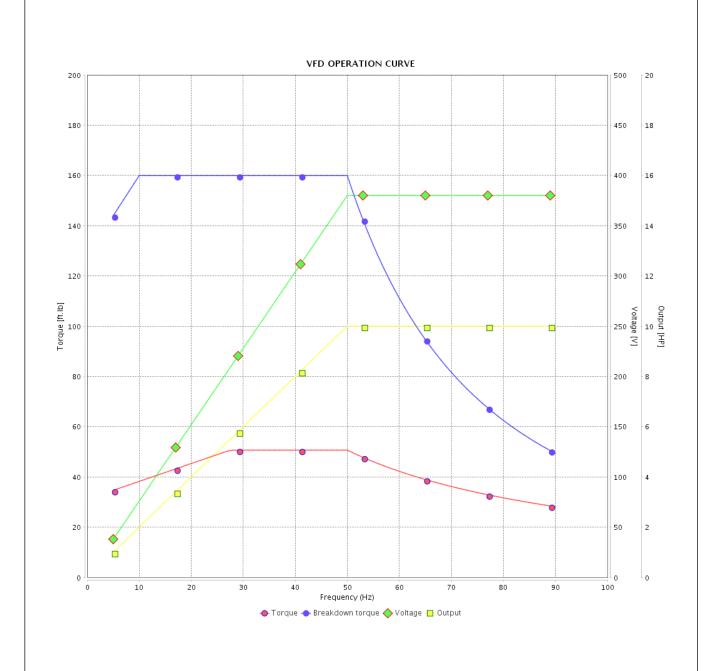


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Product line : NEMA Premium Efficiency Three-Product code:

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12446942



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 1	5.5 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.3 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	70 %	Service fa	ctor	: 1.25	
Breakdown torqu	ıe : 3	00 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product of

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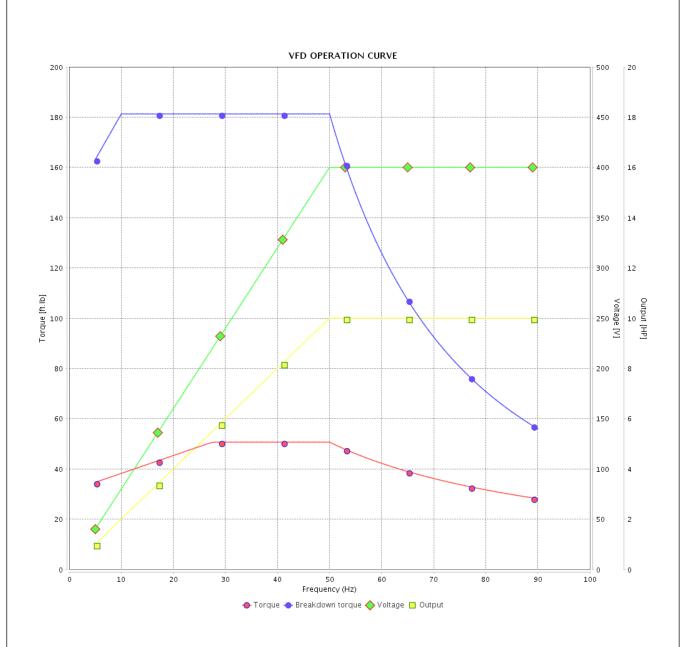
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Performance	: 4	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 5 jue : 3 ie : 3	15.1 A 7.9 53.3 ft.lb 300 % 340 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

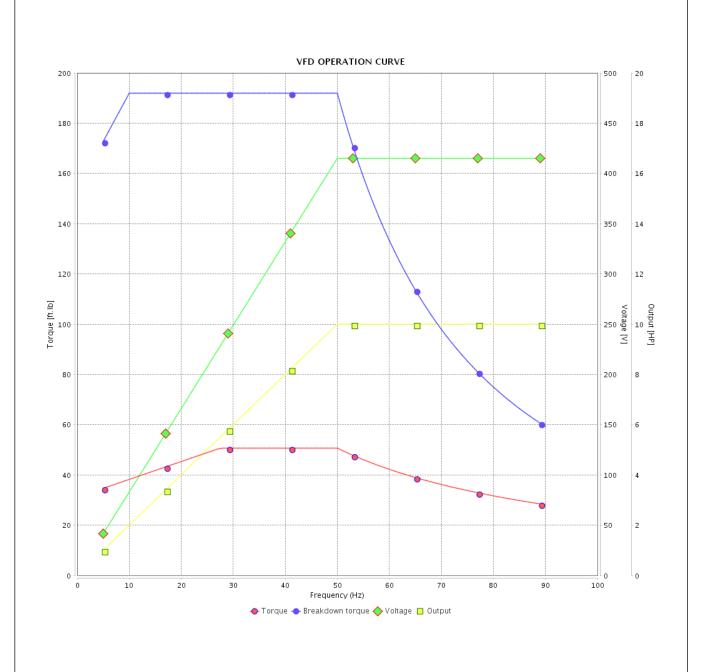


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Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 14	4.9 A Moment of inertia (J)		f inertia (J)	: 7.85 sq.ft.lb	
LRC	: 8.	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 33	30 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 30	60 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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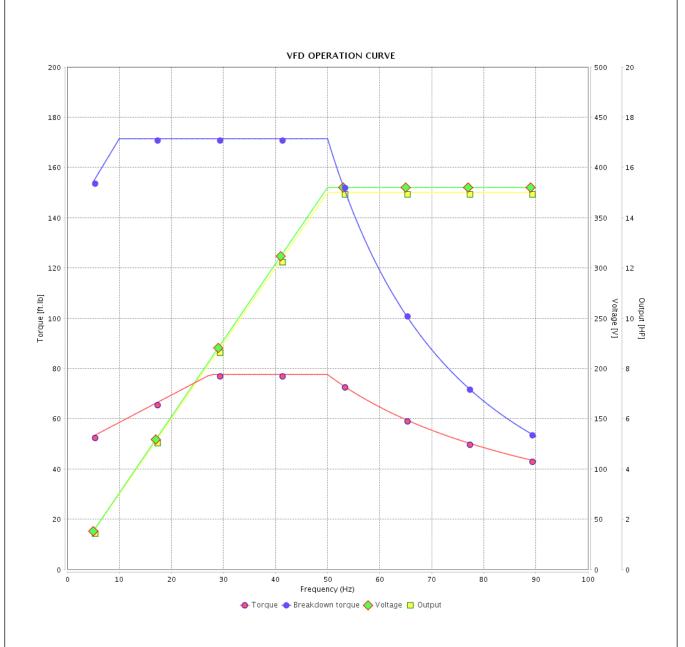
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Performance	:	380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	22.0 A 4.7 81.6 ft.lb 170 % 210 % 965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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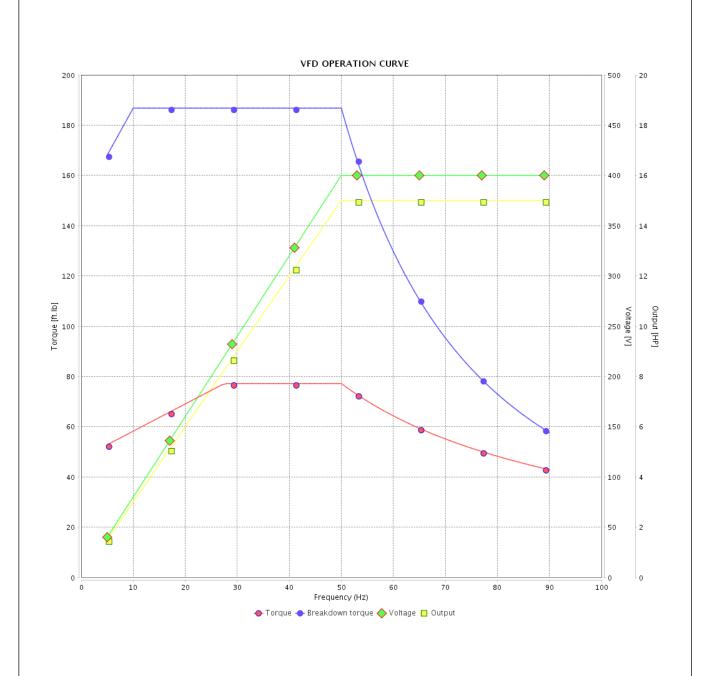


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Product line : NEMA Premium Efficiency Three- Product code : 12446942

Phase

Catalog #: 01512ET3E284T-W22



Performance		400 V 50 Hz 6P IE2				
Rated current		20.9 A	Moment of inertia (J)		: 7.85 sq.ft.lb	
LRC		5.3	Duty cycle		: Cont.(S1)	
Rated torque	:	81.2 ft.lb	Insulation class		: F	
Locked rotor torq	ue :	200 %	Service factor		: 1.15	
Breakdown torqu	e :	229 %	Temperature rise		: 80 K	
Rated speed	:	770 rpm Design		: B		
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Phase

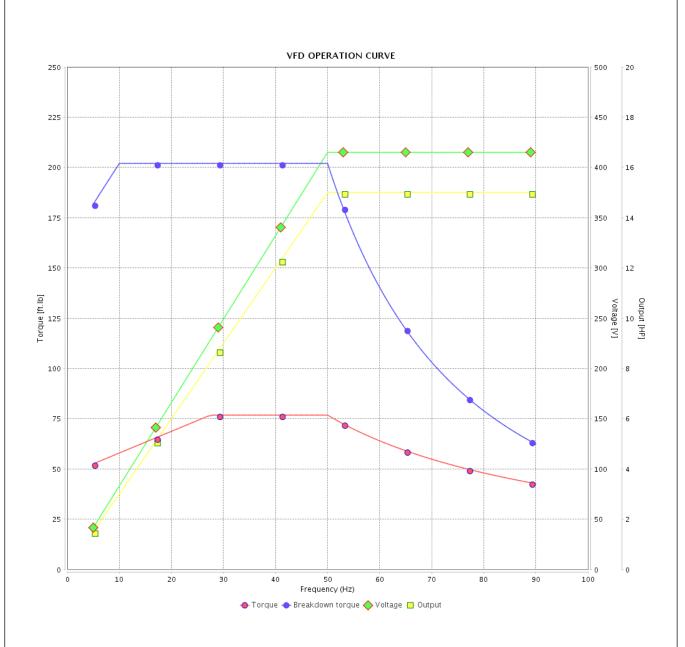
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Performance	: 4	115 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 8 : 1 : 2 : 2	20.2 A 5.7 80.8 ft.lb 220 % 250 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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