### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22

Frame : 284/6T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 431 lb

Protection degree : IP55 Moment of inertia (J) : 5.11 sq.ft.lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 5	.11 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		59.0/29.5	29.1	28.2	27.5	35.6	34.0	33.2
L. R. Amperes [A]		366/183	175	189	198	174	187	196
LRC [A]		6.2x(Code	6.0x(Code	6.7x(Code H)	7.2x(Code J)	4.9x(Code E)	5.5x(Code F)	5.9x(Code
		G)	G)					G)
No load current [A	]	21.0/10.5	10.4	11.1	11.6	10.4	11.1	11.6
Rated speed [RPN	<b>/</b> 1]	1765	1465	1470	1470	1445	1455	1460
Slip [%]		1.94	2.33	2.00	2.00	3.67	3.00	2.67
Rated torque [ft.lb]	]	74.4	71.7	71.4	71.4	90.9	90.2	89.9
Locked rotor torqu	e [%]	240	229	260	290	180	210	229
Breakdown torque	[%]	270	260	300	330	210	240	260
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	80 K
Locked rotor time		43s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		24s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%							
Efficiency (%)	50%	92.4	91.3	91.3	91.2	92.4	92.4	92.4
Efficiency (70)	75%	93.0	92.1	92.5	92.5	91.7	92.4	92.4
	100%	93.6	92.1	92.6	92.7	91.7	92.4	92.4
	25%							
Power Factor	50%	0.70	0.69	0.65	0.62	0.76	0.73	0.70
Fower Factor	75%	0.80	0.80	0.78	0.75	0.84	0.82	0.80
	100%	0.84	0.85	0.83	0.82	0.86	0.85	0.84

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

Bearing type : 6311 C3 6211 C3 Max. traction : 804 lb

Sealing : V'Ring V'Ring Lubrication interval : 20000 h 20000 h

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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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#### Three Phase Induction Motor - Squirrel Cage



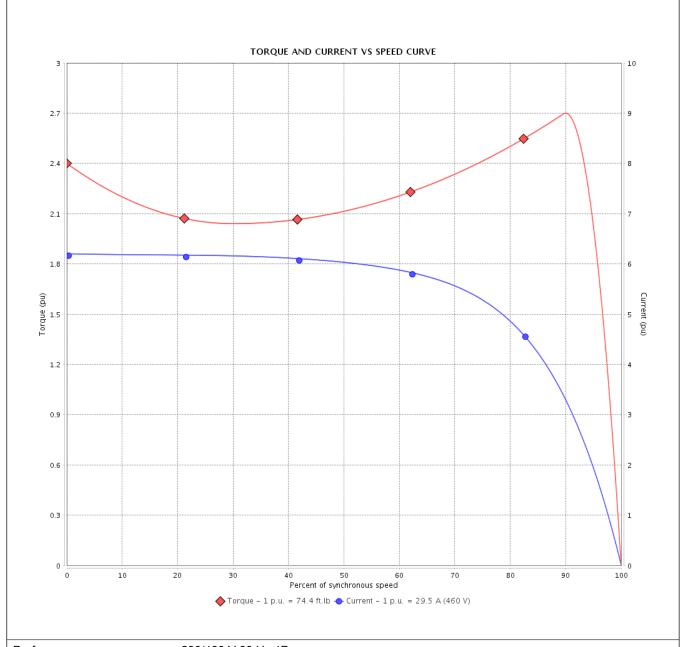
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 74.4 ft.lb Insulation class Rated torque : F : 240 % Service factor Locked rotor torque : 1.25 Breakdown torque : 270 % Temperature rise : 80 K

Design

: B

Locked rotor time : 43s (cold) 24s (hot)

: 1765 rpm

Rated speed

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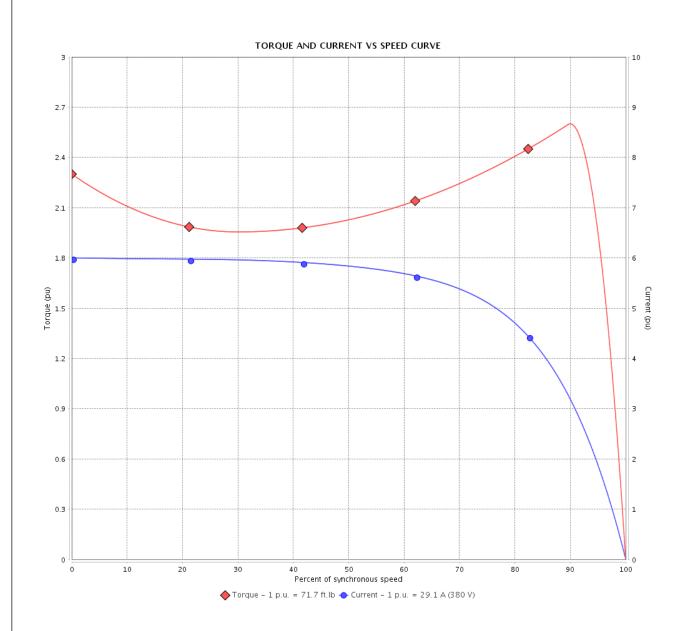
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 29.1 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.7 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time

: 32s (cold) 18s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



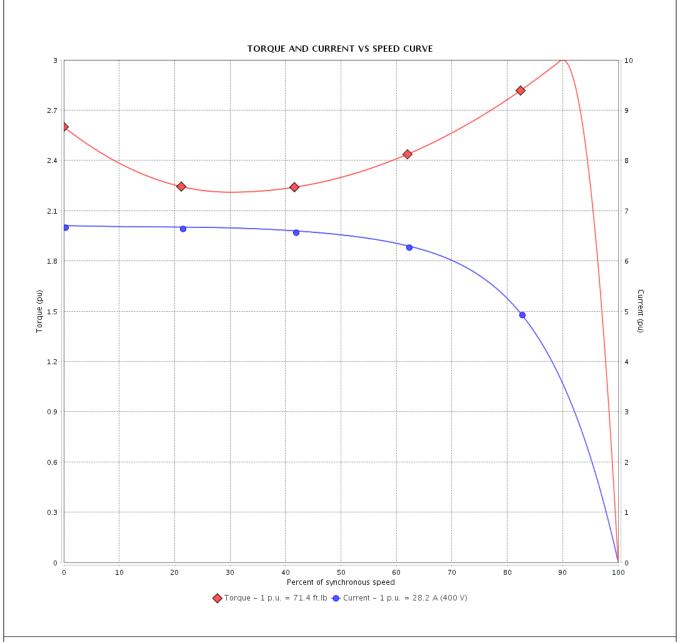
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.2 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 71.4 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12424790 Catalog #: 02518ET3E284T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 Torque (pu) 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 71.4 ft.lb ♦ Current – 1 p.u. = 27.5 A (415 V)

Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.5 A : 7.2 : 71.4 ft.lb : 290 % : 330 % : 1470 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design	(J)	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 32s (cold) 18s (hot)	3			
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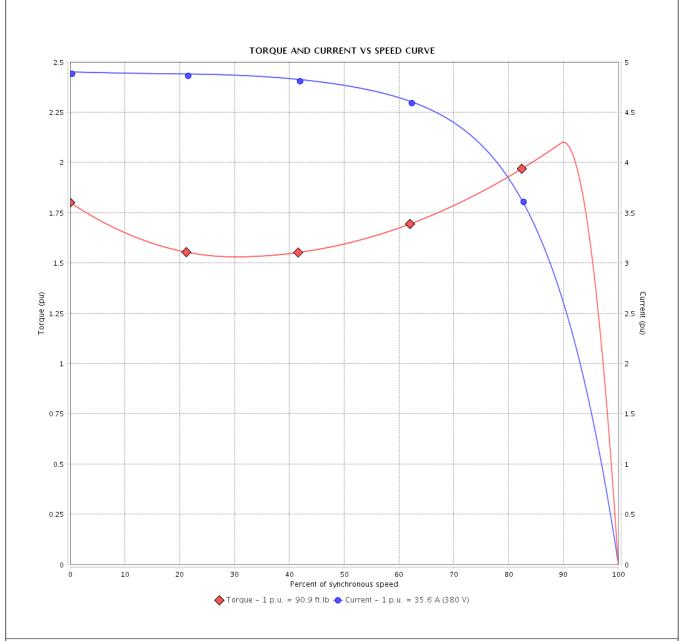
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 35.6 A	Moment of inertia (J)	: 5.11 sq.ft.lb
Rated torque	: 4.9 : 90.9 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1445 rpm	Design	: B

Locked rotor time : 32s (cold) 18s (hot)

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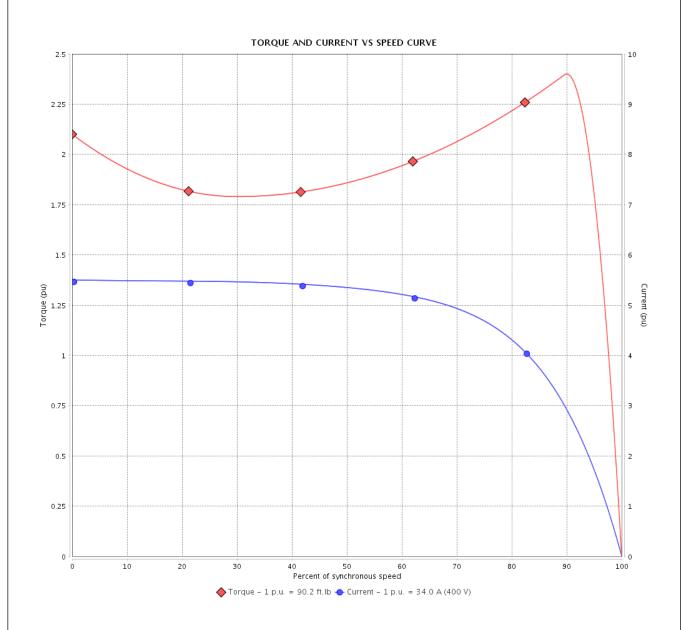


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02518ET3E284T-W22

12424790



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 34.0 A	Moment of inertia (J)	: 5.11 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 90.2 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)		

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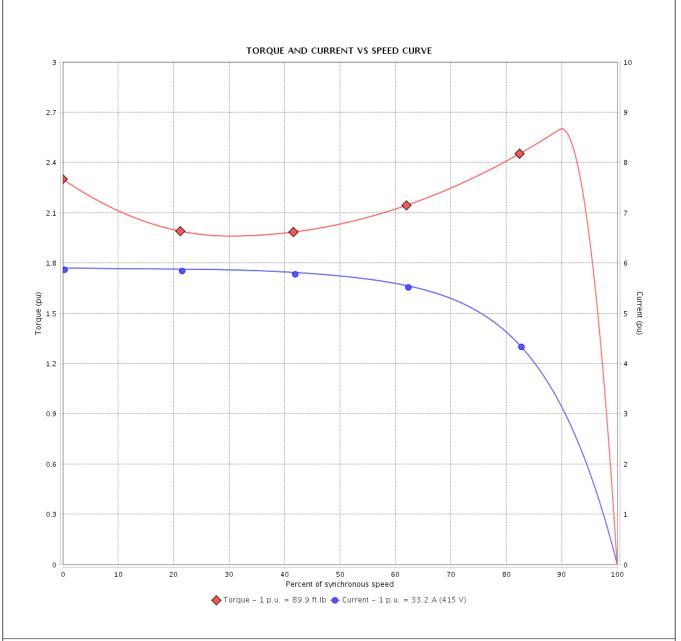
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 33.2 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : F : 89.9 ft.lb Insulation class Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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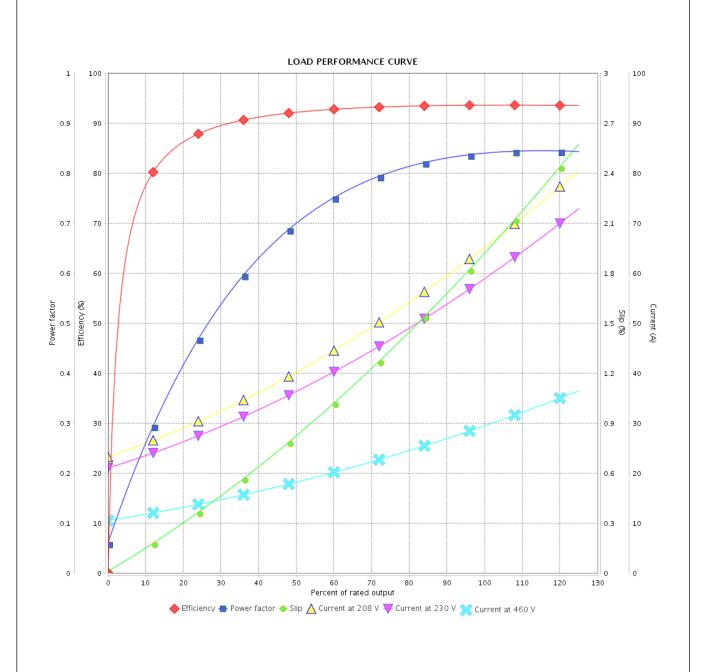


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 5	9.0/29.5 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6	.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 7	4.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	70 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	765 rpm	Design		: B	
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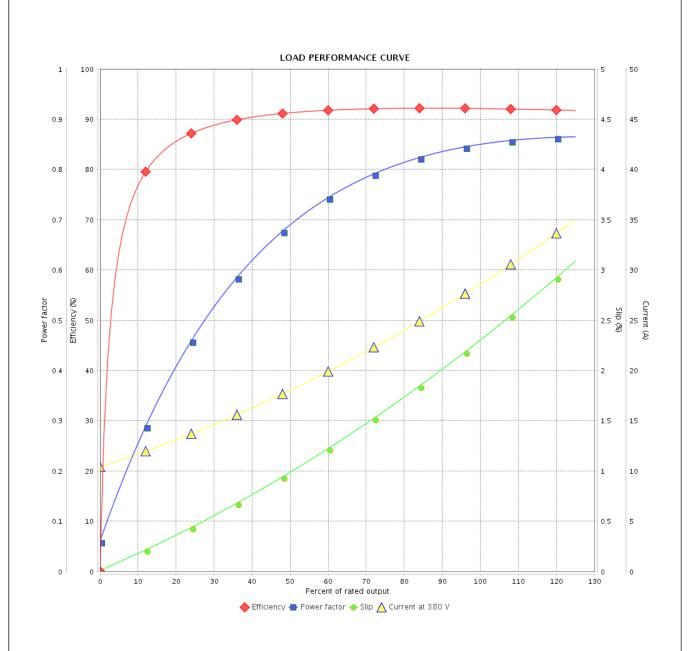


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22



Performance : 380 V 50 Hz 4P IE3					
Rated current : 29.1 A LRC : 6.0 Rated torque : 71.7 ft.lb Locked rotor torque : 229 % Breakdown torque : 260 % Rated speed : 1465 rpm		Moment of inertia (J) : 5.11 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B			
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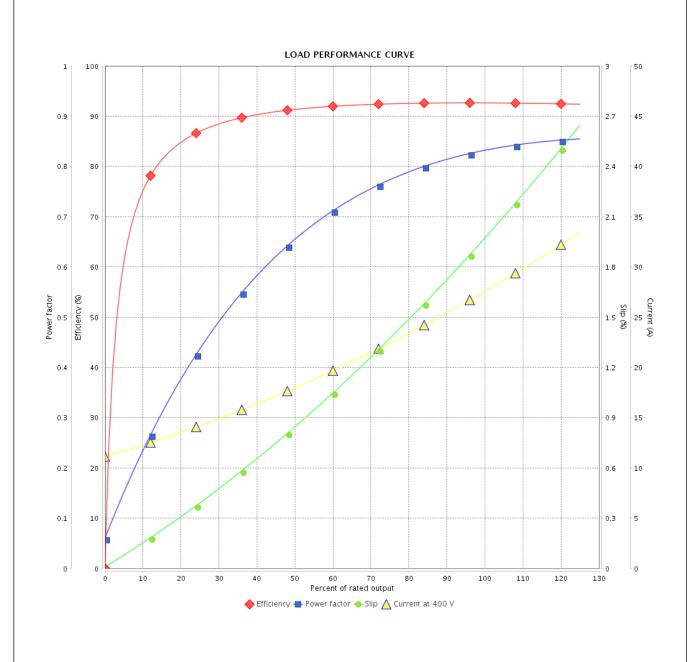
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02518ET3E284T-W22

12424790



Performance	:	: 400 V 50 Hz 4P IE3				
Rated current	:	28.2 A	Moment of	f inertia (J)	: 5.11 sq.ft.lb	
LRC	:	6.7	Duty cycle	)	: Cont.(S1)	
Rated torque	:	71.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service fa	ctor	: 1.00	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	: 1470 rpm Design			: B	
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#### Three Phase Induction Motor - Squirrel Cage

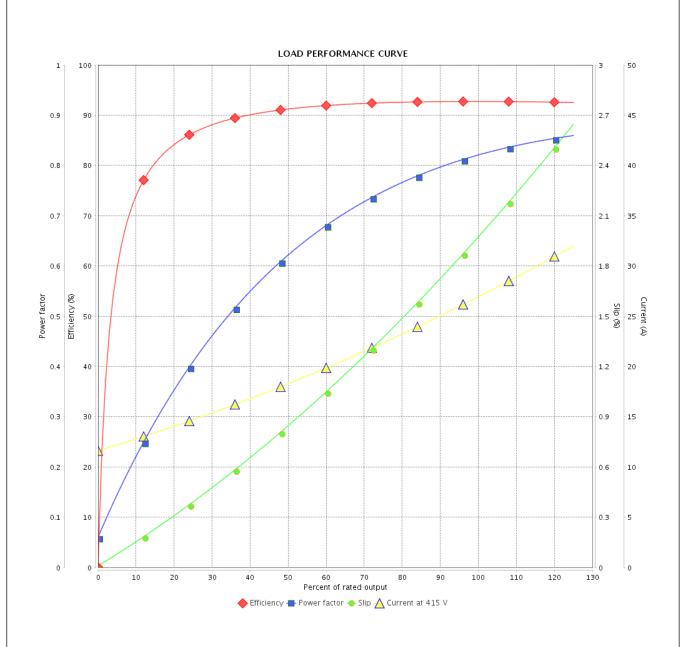


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22



Performance	: 415 V 50 Hz 4P IE3				
renormance	. 413 V 30 HZ 4F 1E3				
Rated current	: 27.5 A	Moment of inertia (J)	: 5.11 sq.ft.lb		
LRC	: 7.2	Duty cycle	: Cont.(S1)		
Rated torque	: 71.4 ft.lb	Insulation class	: F	•	
Locked rotor torque	: 290 %	Service factor	: 1.00		
Breakdown torque	: 330 %	Temperature rise	: 80 K		
Rated speed	·		: B		
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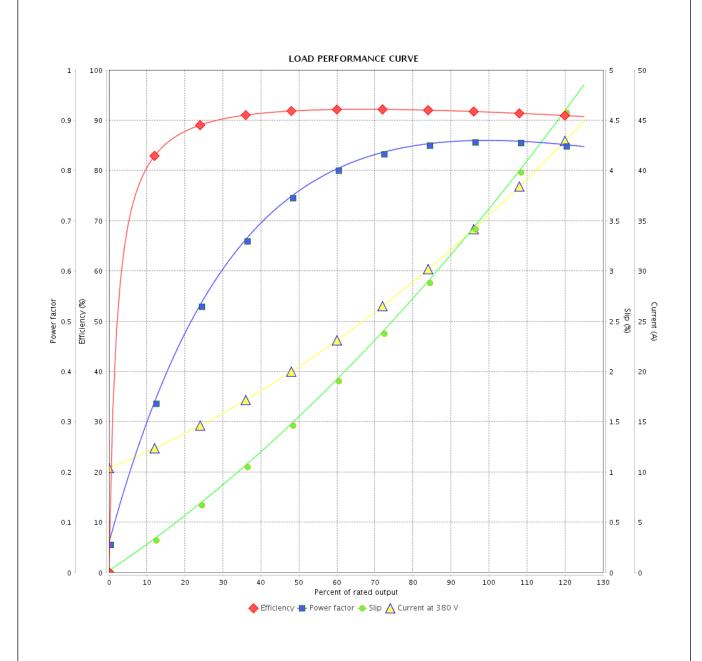
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.6 A : 4.9 : 90.9 ft.lb : 180 % : 210 % : 1445 rpm	Service factor Temperature rise		: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

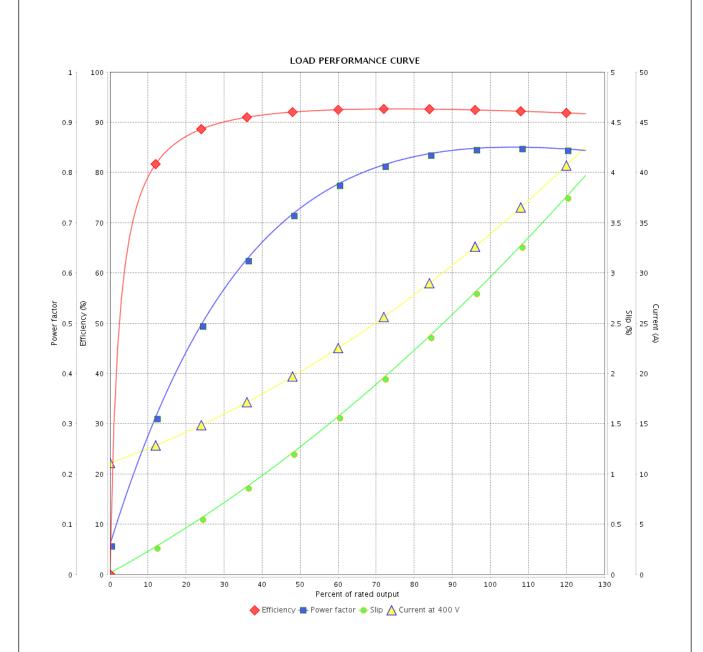


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22



Performance	: 400 V 50 Hz 4P IE2			
LRC : 5.5 Rated torque : 90.2 ft.lb Locked rotor torque : 210 % Breakdown torque : 240 %		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three- Product code : 12424790

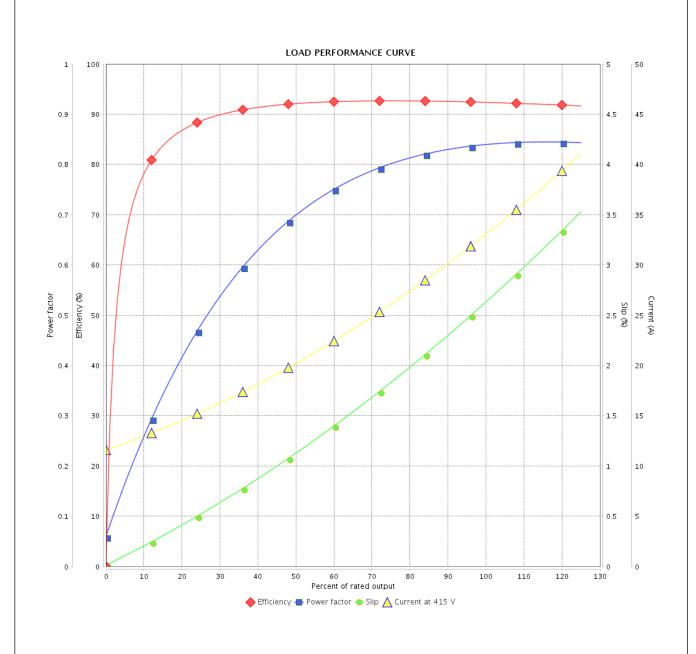
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Performance	: 415 V 50 Hz 4P IE2				
Rated current : 33.2 A LRC : 5.9 Rated torque : 89.9 ft.lb Locked rotor torque : 229 % Breakdown torque : 260 % Rated speed : 1460 rpm		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

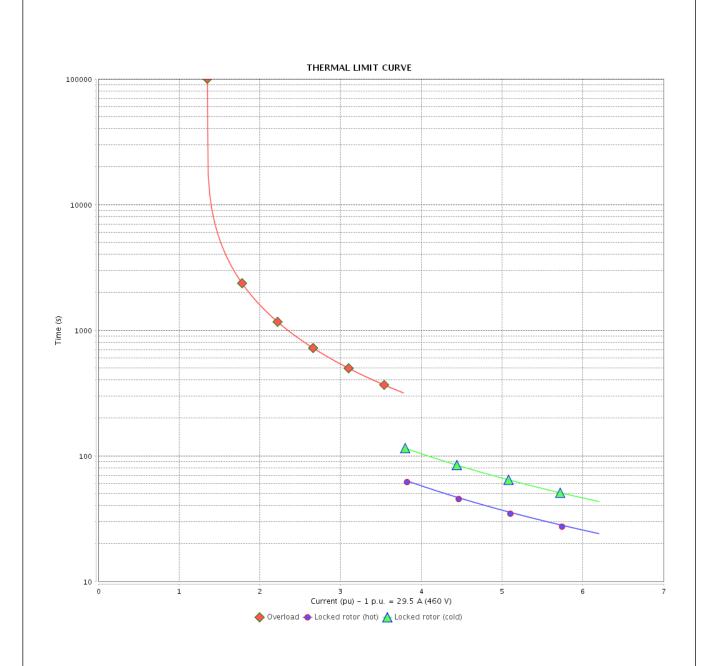


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12424790	
	PI	hase		Catalog # :	02518ET3E28	34T-W22
Performance	• 22	30/460 V 60 Hz 4P				
Rated current		9.0/29.5 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6.	2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque		4.4 ft.lb 40 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 27	70 %	Temperatu		: 80 K	
Rated speed		765 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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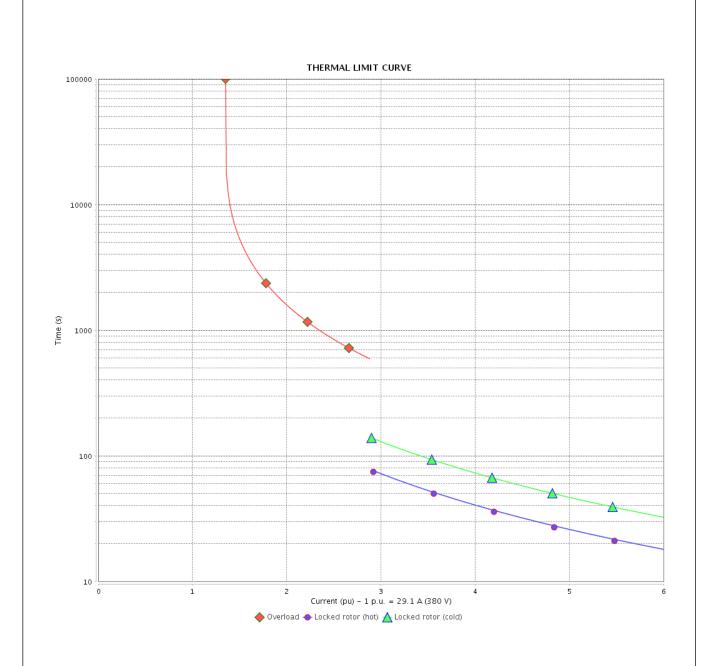


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product		24790 18ET3E284T-W22
Performance Rated current	: 380 V 50 Hz 4P IE3 : 29.1 A	Moment of inertia	(.I) · 5 11	sq.ft.lb
LRC	: 6.0	Duty cycle	: Con	t.(S1)
Rated torque Locked rotor torque	: 71.7 ft.lb : 229 %	Insulation class Service factor	: F : 1.00	1
Breakdown torque	: 260 %	Temperature rise	: 80 H	
Rated speed	: 1465 rpm	Design	: B	
Heating constant				
Cooling constant	Changes Cummer:	Dest	ormed Chec	kod Data
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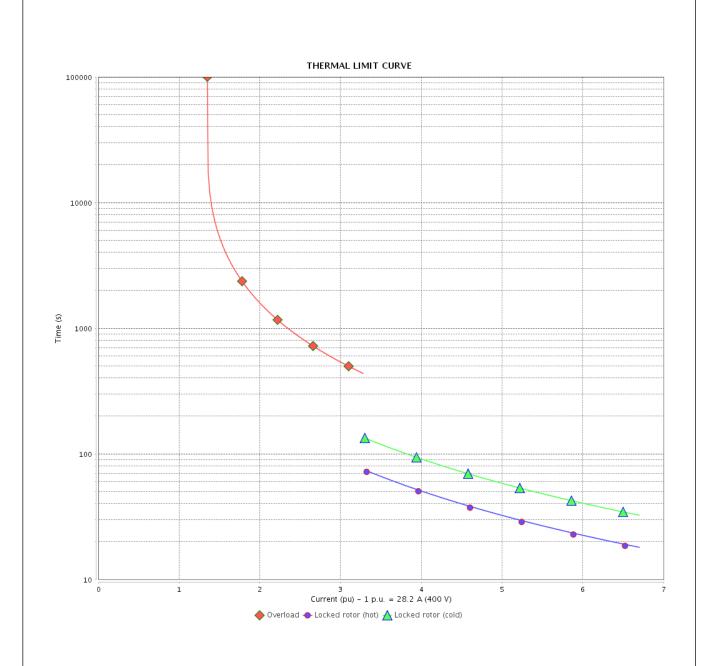


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12424790	
		T Hadd		Catalog # :	02518ET3E28	34T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 28.2 A	Moment of	of inertia (J)	: 5.11 sq.ft.lb	
LRC Rated torque		: 6.7 : 71.4 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 260 %	Service fa		: 1.00	
Breakdown torqu	ıe	: 300 %	Temperat	ure rise	: 80 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

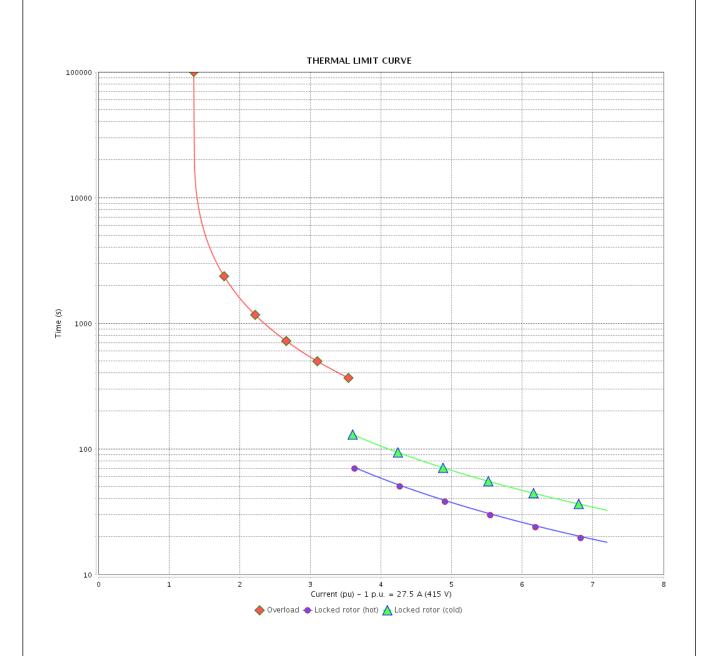


Customer	:					
Product line	: NEMA Phase	Premium Efficiency Th		Product code :	12424790 02518ET3E2	84T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 : 27.5 A : 7.2 : 71.4 ft.lk : 290 % : 330 % : 1470 rpi	C   II   S   T	Moment of Outy cycle nsulation Service fac Temperatu Design	class ctor	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Chan	ges Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

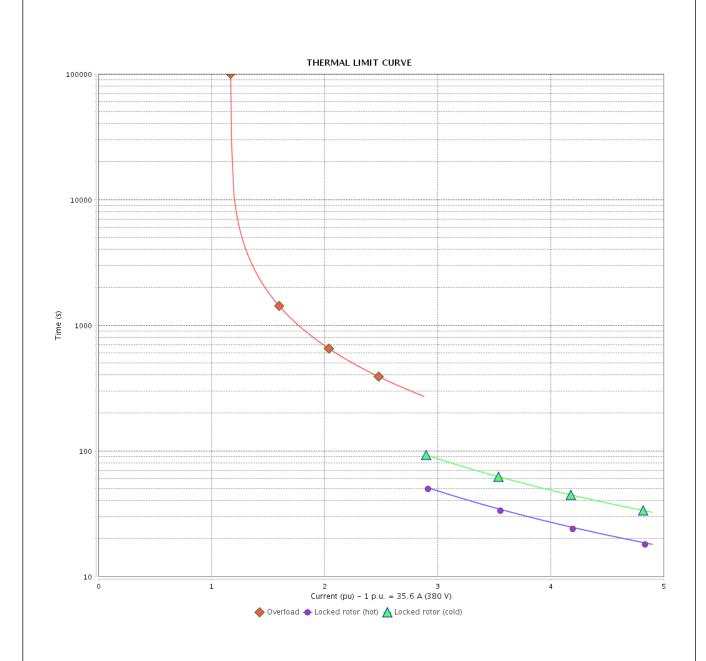


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12424790	
1 Toddot IIIIc		Phase				
				Catalog # :	02518ET3E28	34T-W22
Performance		: 380 V 50 Hz 4P IE2	Messa	of imputie (1)	. E 44 == 6 P	
Rated current LRC		: 35.6 A : 4.9	Moment of Duty cycle	of inertia (J) e	: 5.11 sq.ft.lb : Cont.(S1)	
Rated torque		: 90.9 ft.lb	Insulation	class	: F	
Locked rotor tord		: 180 % : 210 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 210 % : 1445 rpm	Temperat Design	uie lise	: 105 K : B	
Heating constant		•				
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

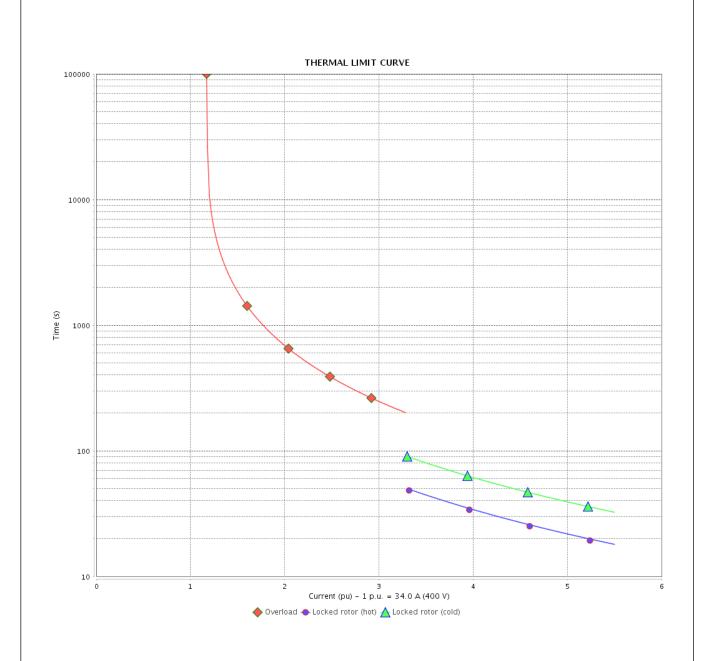


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	12424790	
	FI	ilase	1	Catalog # :	02518ET3E28	34T-W22
Performance	: 40	00 V 50 Hz 4P IE2				
Rated current		4.0 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC Rated torque		0.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque		10 % 40 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		455 rpm	Design	110 H30	: B	
Heating constant	1					
Cooling constant		Changas Cummani		Dorformed	Chaskad	Data
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

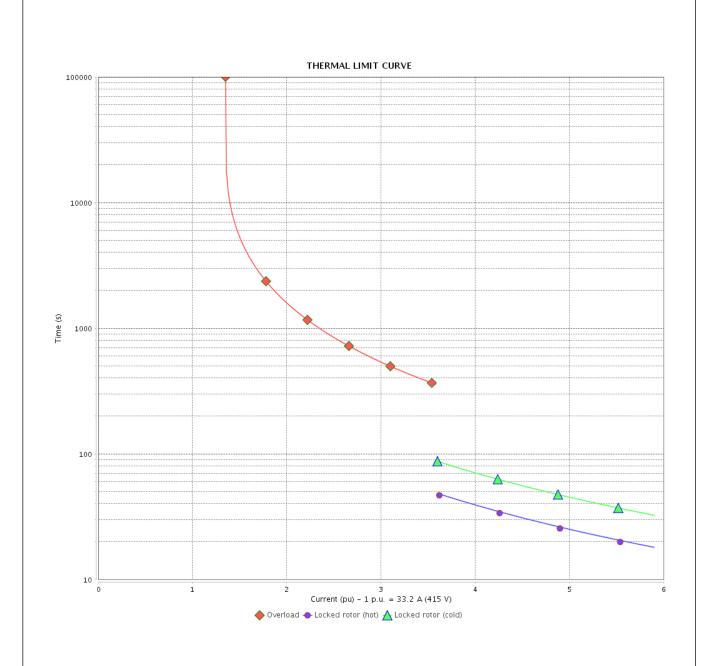


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12424790	
	P	hase		Catalog # :	02518ET3E28	34T-W22
Performance		15 V 50 Hz 4P IE2		<b>5</b> : (: ( )	5.44 S.II	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 5.11 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		9.9 ft.lb 29 %	Insulation Service fa	class	: F : 1.00	
Breakdown torque	: 26	60 %	Temperatu		: 80 K	
Rated speed	: 14	460 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- F

Phase

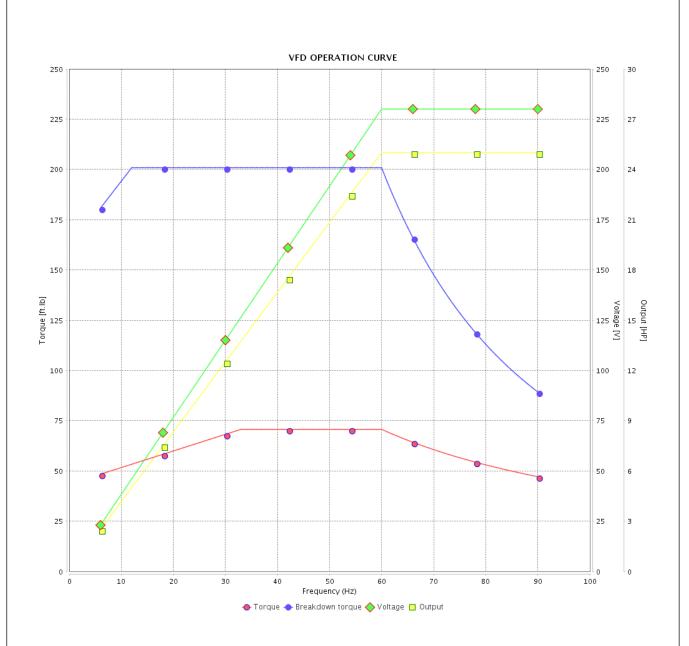
Product code: 12424790

Catalog #: 02518ET3E284T-W22

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Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 74.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



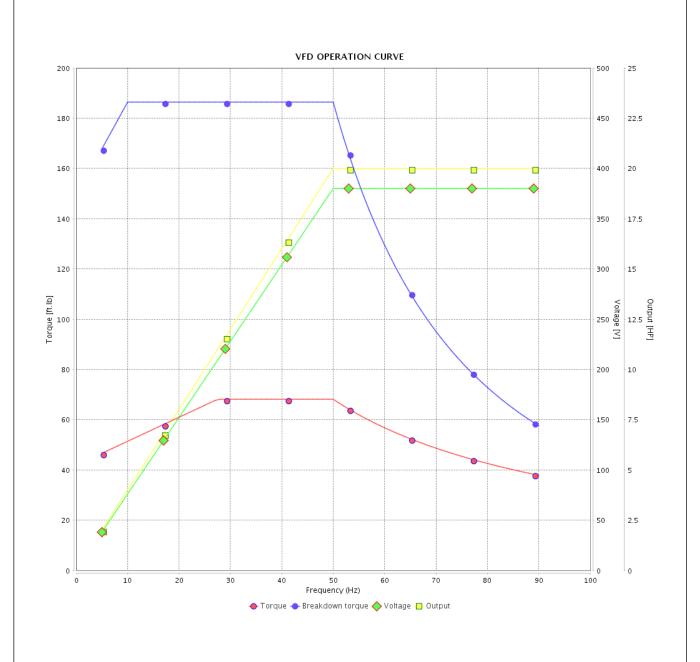
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12424790

Phase

Catalog #: 02518ET3E284T-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 29.1 A	Moment of inertia (J)		: 5.11 sq.ft.lb	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 71.7 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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14/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- Pr

Phase

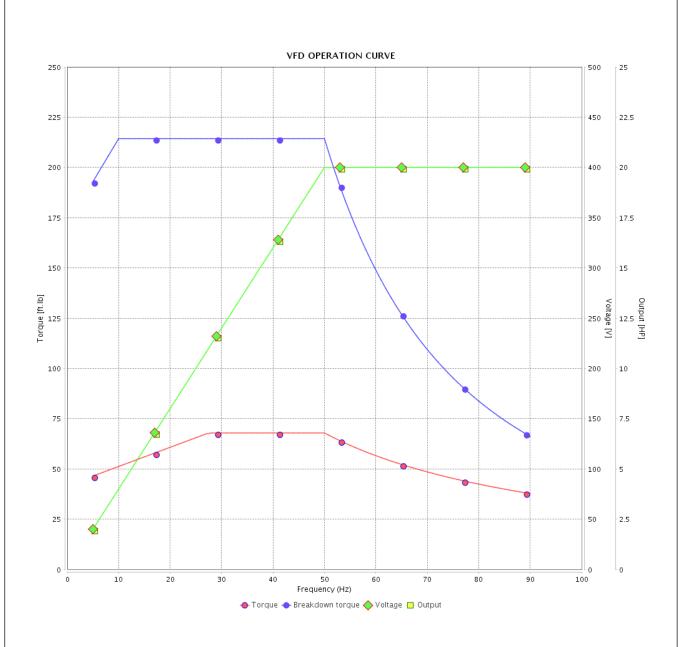
Product code: 12424790

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Revision



Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 7 que : 2	28.2 A 6.7 71.4 ft.lb 260 % 300 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



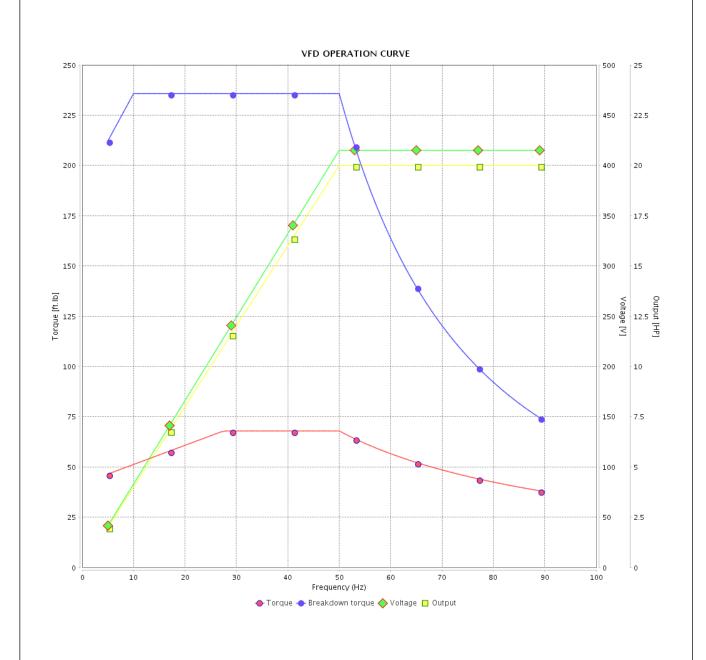
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 7.	: 27.5 A Moment of : 7.2 Duty cycle : 71.4 ft.lb Insulation of			: 5.11 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	ue : 29	90 % 30 %	Service fa	actor	: 1.00 : 80 K	
Rated speed	: 14	470 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



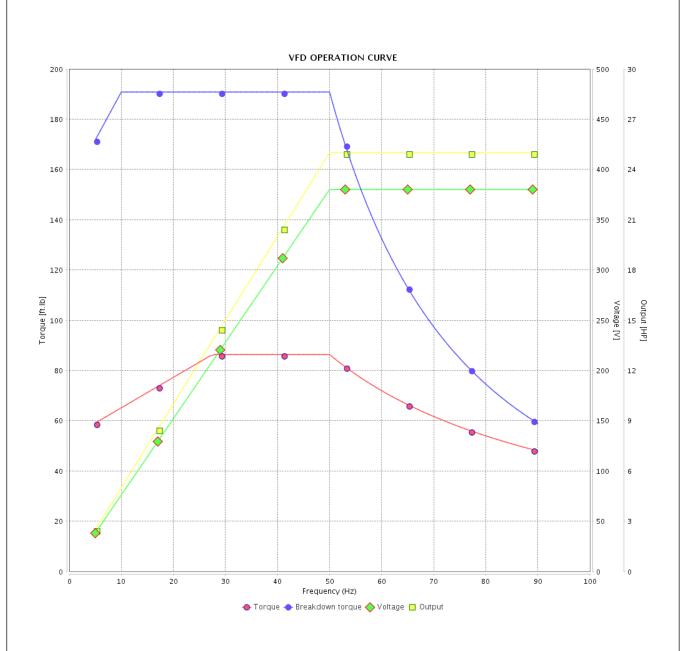
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12424790

Catalog #: 02518ET3E284T-W22



Performance	Performance : 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque	: 35.6 A : 4.9 : 90.9 ft.lb : 180 %	Duty cycle Insulation clas	Moment of inertia (J) Duty cycle Insulation class Service factor		
Breakdown torque Rated speed		Temperature Design	Temperature rise Design		
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#### Three Phase Induction Motor - Squirrel Cage



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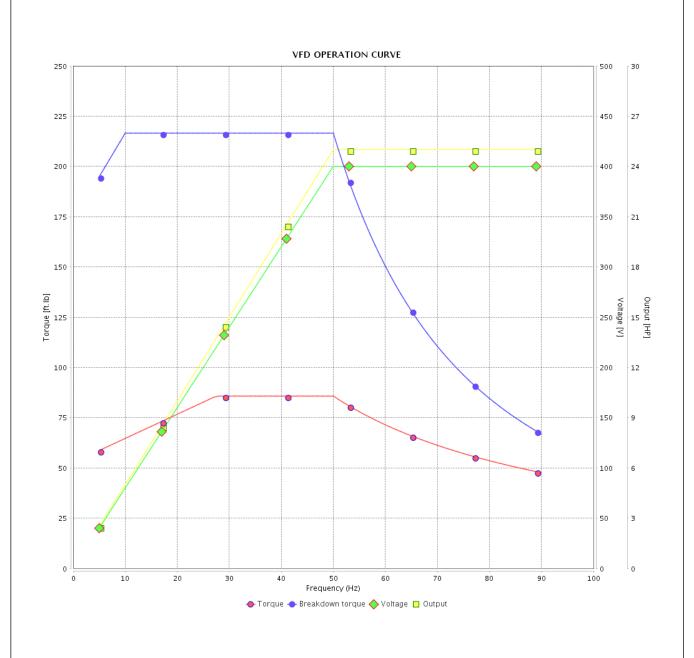
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02518ET3E284T-W22

12424790

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0 A : 5.5 : 90.2 ft.lb : 210 % : 240 % : 1455 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Checked by				Page	Revision

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product

Phase

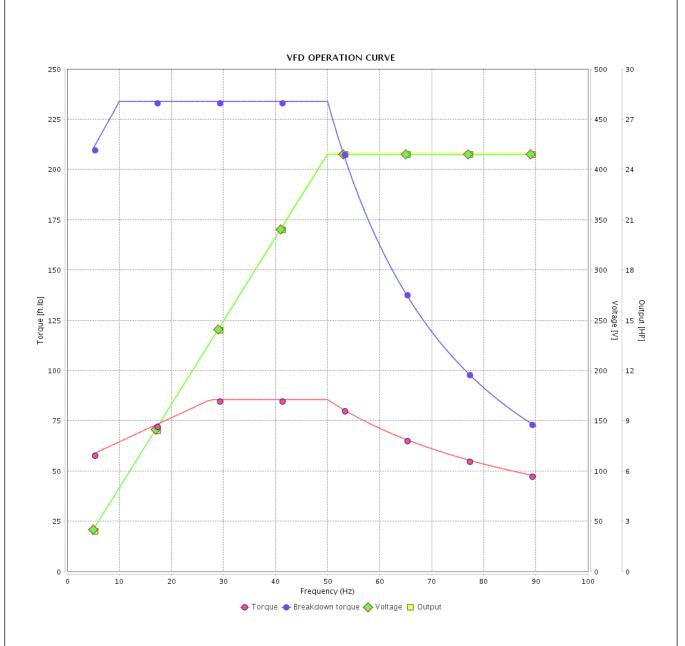
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Performance : 415 V 50 Hz 4P IE2 Rated current : 33.2 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 89.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

