### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441523

Phase

Catalog #: 02509ET3E326T-W22

Frame : 324/6T 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> : 555 lb

Protection degree : IP55 Moment of inertia (J) : 11.9 sq.ft.lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 1	1.9 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles		8	8	8	8	8	8	8
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		71.8/35.9	35.3	35.6	36.4	42.3	41.4	41.1
L. R. Amperes [A]		373/187	177	192	200	178	190	197
LRC [A]		5.2x(Code	5.0x(Code	5.4x(Code H)	5.5x(Code J)	4.2x(Code E)	4.6x(Code F)	4.8x(Code
		G)	G)					G)
No load current [A	]	40.0/20.0	19.6	22.2	24.6	19.6	22.2	24.6
Rated speed [RPN	<b>/</b> 1]	880	730	730	735	725	725	730
Slip [%]		2.22	2.67	2.67	2.00	3.33	3.33	2.67
Rated torque [ft.lb]		149	144	144	143	181	181	180
Locked rotor torque [%]		200	190	210	240	150	170	190
Breakdown torque	Breakdown torque [%]		229	250	280	180	200	220
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	105 K	80 K	80 K
Locked rotor time		41s (cold)	30s (cold)	30s (cold)	30s (cold)	30s (cold)	30s (cold)	30s (cold)
		23s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)	17s (hot)
Noise level <sup>2</sup>		56.0 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%	89.5	89.3	87.2	86.2	89.5	88.5	87.5
Efficiency (%)	75%	91.0	90.1	89.1	88.6	90.2	89.5	89.5
	100%	91.0	89.6	89.6	89.6	88.5	89.5	89.5
	25%							
Power Factor	50%	0.51	0.51	0.46	0.42	0.58	0.53	0.49
FUWEI FACIOI	75%	0.64	0.64	0.59	0.55	0.70	0.66	0.62
	100%	0.71	0.71	0.67	0.64	0.75	0.72	0.70

Drive end Non drive end Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1241 lb Sealing : V'Ring V'Ring Max. compression : 1796 lb

20000 h

Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 79.4A SF 1.15 SFA 91.3A

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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### Three Phase Induction Motor - Squirrel Cage



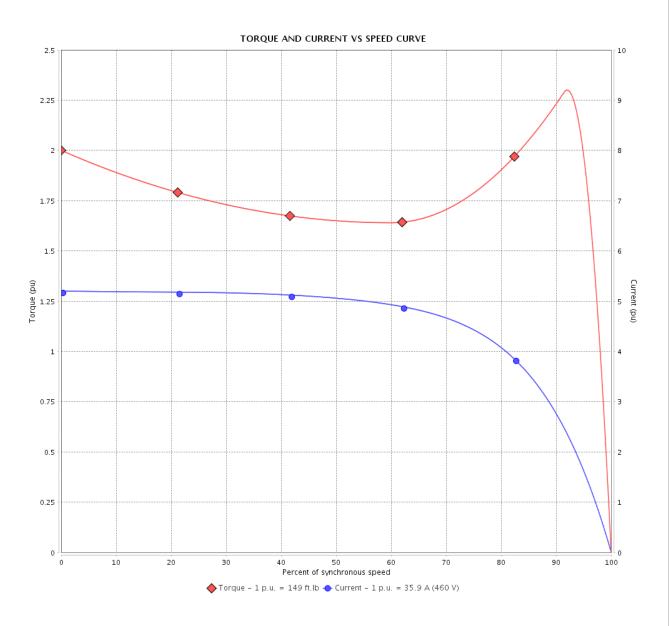
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441523

Catalog #: 02509ET3E326T-W22



Performance	: 230/460 V 60 Hz 8P		
Rated current	: 71.8/35.9 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 149 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441523 Catalog #: 02509ET3E326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 Current Torque (pu) 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 144 ft.lb ◆ Current - 1 p.u. = 35.3 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 35.3 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 144 ft.lb : 190 % Locked rotor torque Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 730 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Changes Summary Rev. Performed Checked Date

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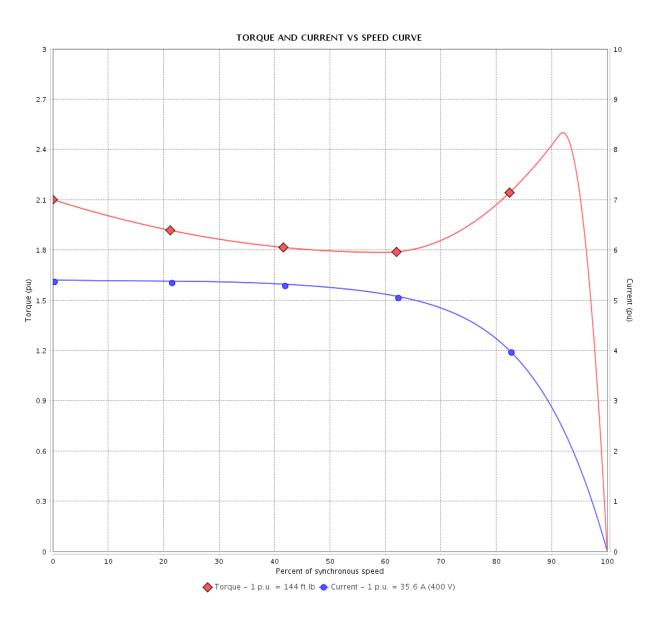


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441523

Phase

Catalog #: 02509ET3E326T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 35.6 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 144 ft.lb	Insulation class	:F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B
	·		

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441523 Catalog #: 02509ET3E326T-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. = 143 ft.lb ◆ Current - 1 p.u. = 36.4 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 36.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 735 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Rev. Performed Checked Date **Changes Summary** 

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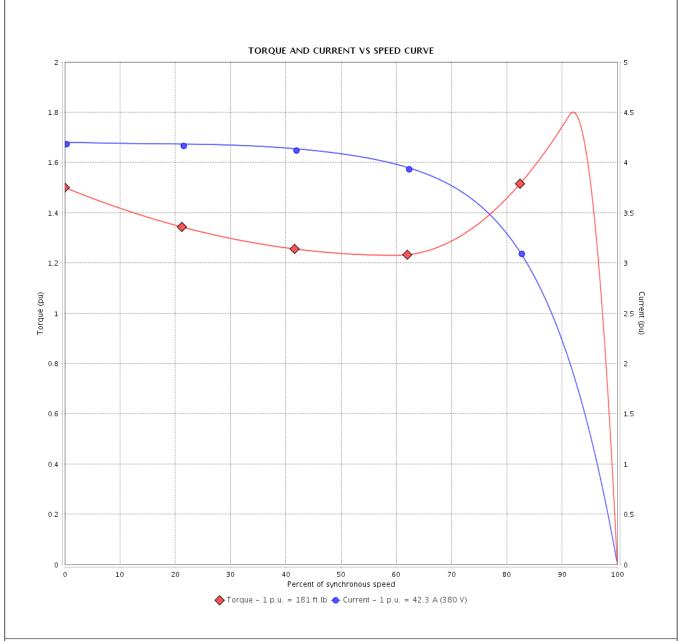
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11441523

Catalog #: 02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE1 Rated current : 42.3 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 4.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 181 ft.lb : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 725 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441523 Catalog #: 02509ET3E326T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 2.25 3.5 1.75 1.5 (pd) 1.25 Current 2.5 0.5 0.25 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 181 ft.lb ◆ Current - 1 p.u. = 41.4 A (400 V) Performance : 400 V 50 Hz 8P IE2 Rated current : 41.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) : 181 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 725 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Changes Summary Date Rev. Performed Checked

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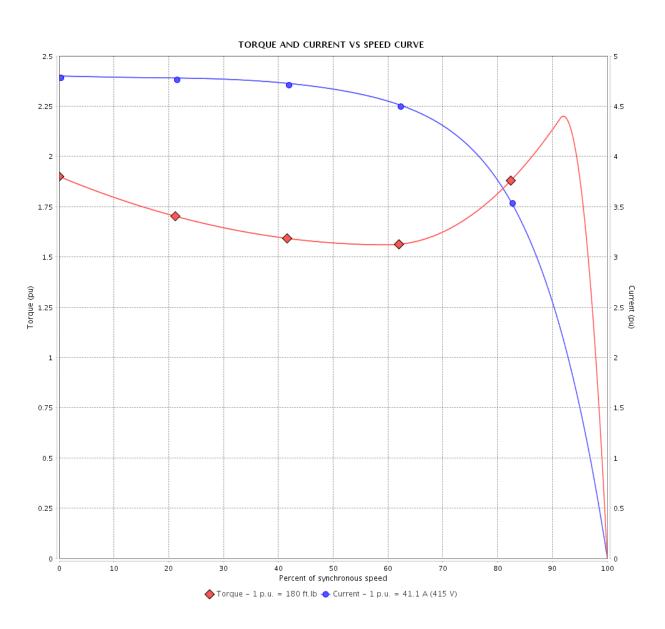


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441523

Phase

Catalog #: 02509ET3E326T-W22



Performance	: 415 V 50 Hz 8P IE2		
Rated current	: 41.1 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 4.8	Duty cycle	: Cont.(S1)
Rated torque	: 180 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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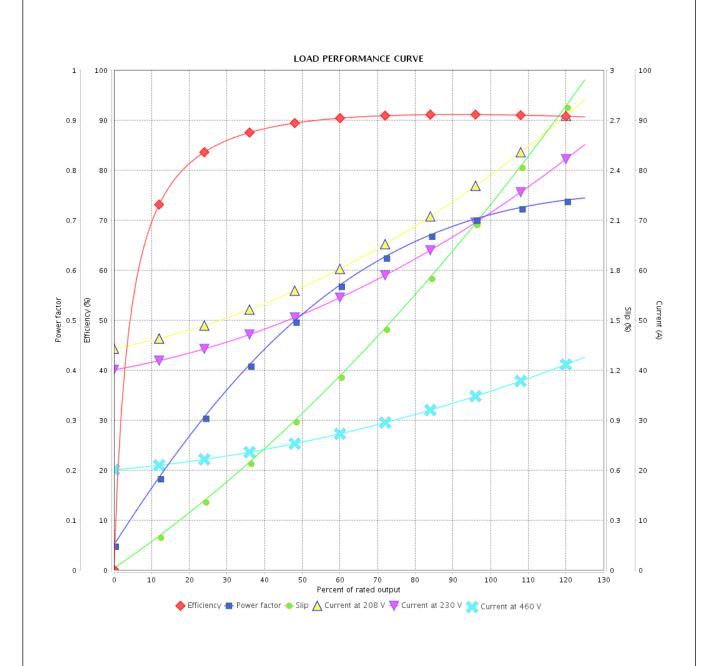


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11441523

Catalog #: 02509ET3E326T-W22



Performance	: 23	30/460 V 60 Hz 8P				
Rated current	: 7	1.8/35.9 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.	2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 14	19 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 20	00 %	Service fa	ctor	: 1.25	
Breakdown torque :		29 %	Temperature rise		: 80 K	
Rated speed	: 88	30 rpm	Design		: B	
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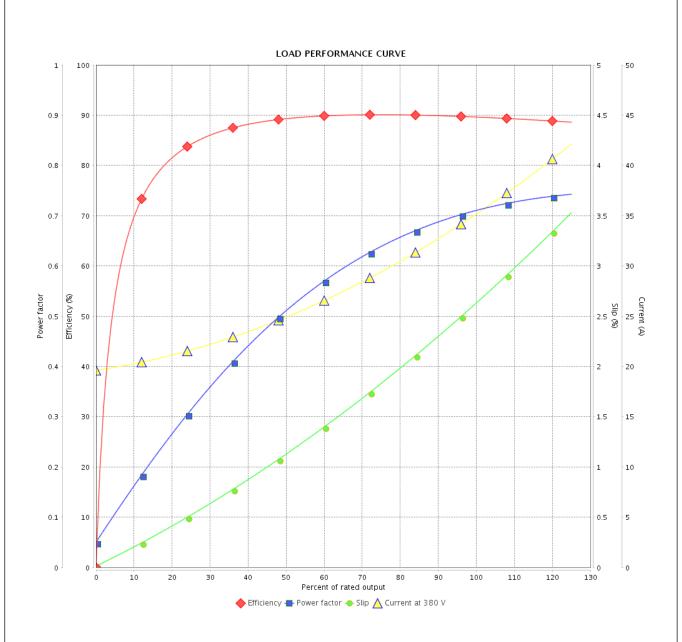
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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.3 A : 5.0 : 144 ft.lb : 190 % : 229 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Product line : NEMA Premium Efficiency Three- Product code : 11441523

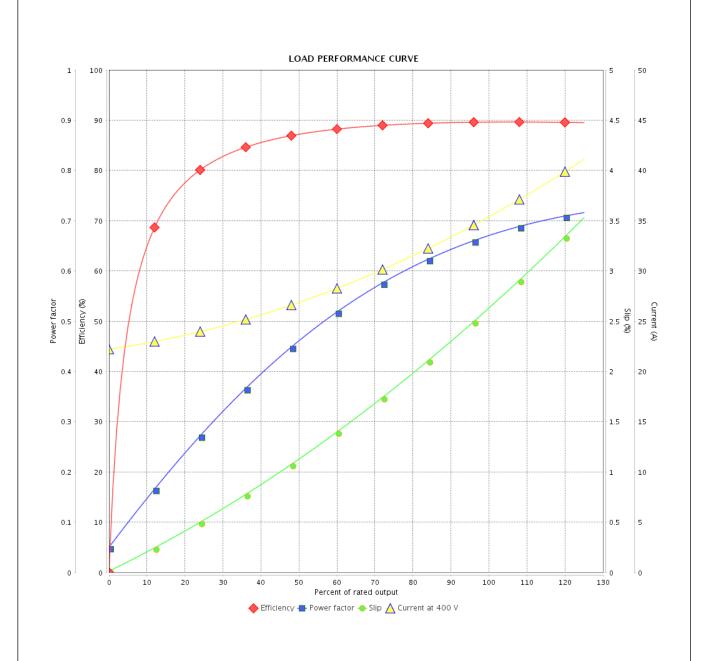
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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.6 A : 5.4 : 144 ft.lb : 210 % : 250 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.9 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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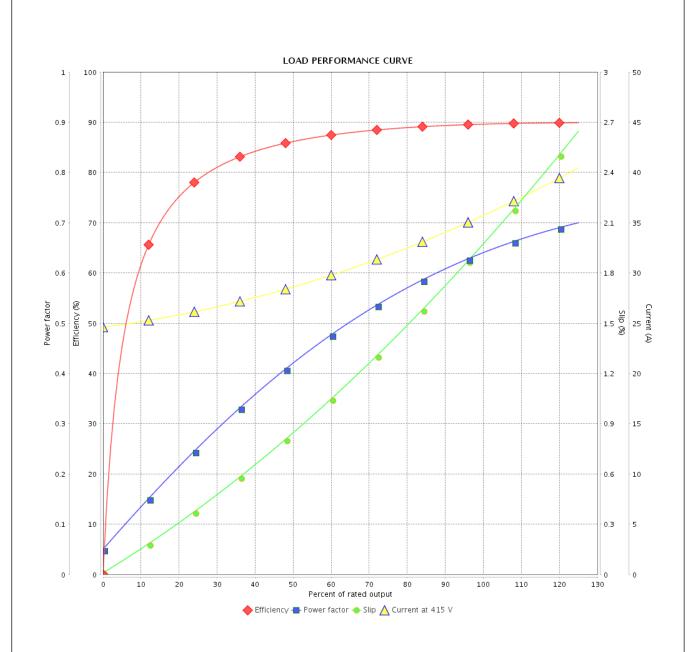
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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		4						
Performance	: 415 V 50 Hz 8P IE3	: 415 V 50 Hz 8P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.4 A : 5.5 : 143 ft.lb : 240 % : 280 % : 735 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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Product line : NEMA Premium Efficiency Three- Product code : 11441523

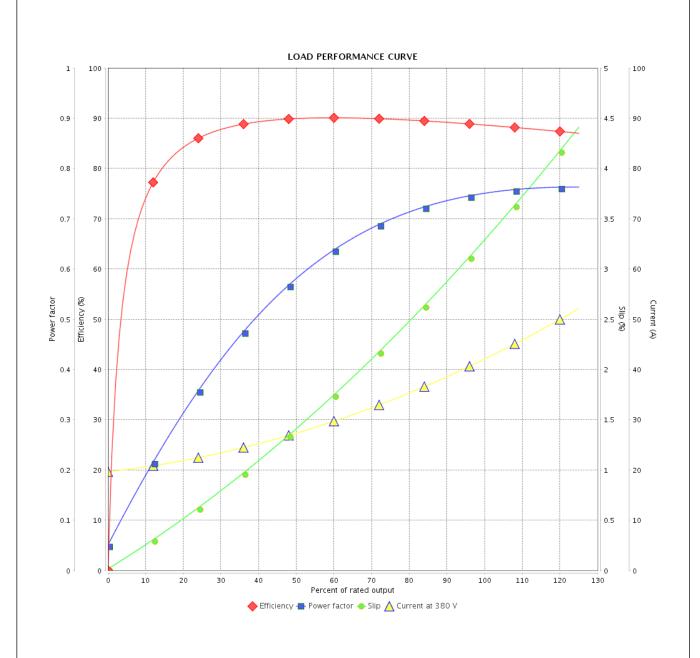
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Performance : 380 V 50 Hz 8P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.3 A : 4.2 : 181 ft.lb : 150 % : 180 % : 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



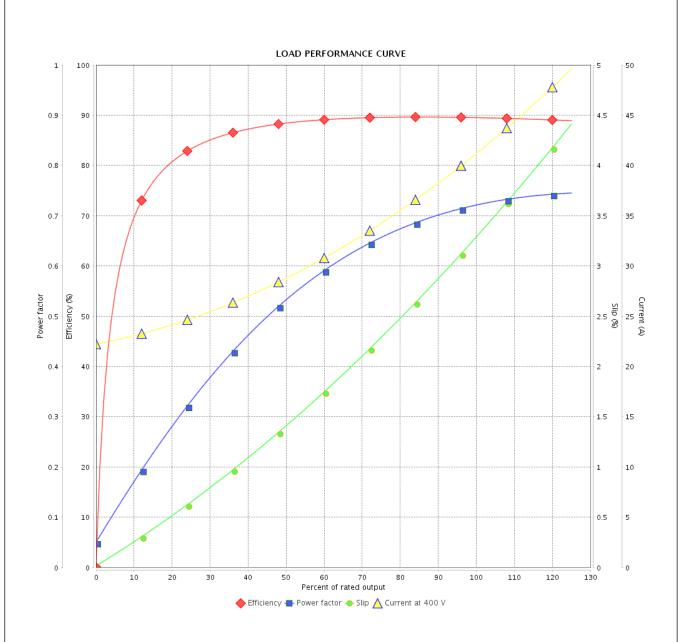
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11441523

Catalog #: 02509ET3E326T-W22



Performance	: 400 V 50 Hz 8P IE2				
Rated current	: 41.4 A	Moment of	inertia (J)	: 11.9 sq.ft.lb	
LRC	: 4.6	Duty cycle	• •	: Cont.(S1)	
Rated torque	: 181 ft.lb	Insulation of	class	: F	
Locked rotor torque : 170 %		Service factor		: 1.15	
Breakdown torque	: 200 %	Temperature rise		: 80 K	
Rated speed	: 725 rpm	Design		: B	
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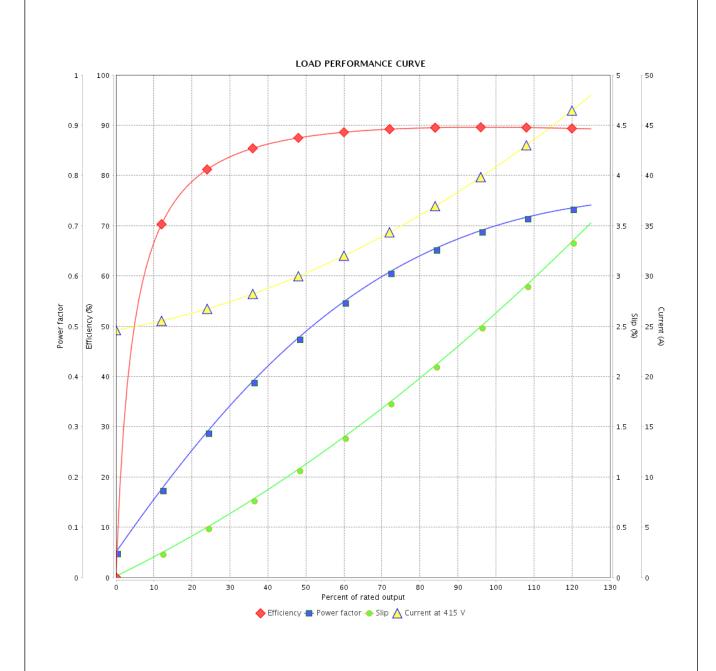


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441523

Phase

Catalog #: 02509ET3E326T-W22



Performance	: 415 V 50 Hz 8P IE2				
Rated current	: 41.1 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 4.8	Duty cycle	}	: Cont.(S1)	
Rated torque	: 180 ft.lb	Insulation	class	:F	
Locked rotor torque	: 190 %	: 220 % Temperature rise		: 1.15	
Breakdown torque	: 220 %			: 80 K	
Rated speed	: 730 rpm			: B	
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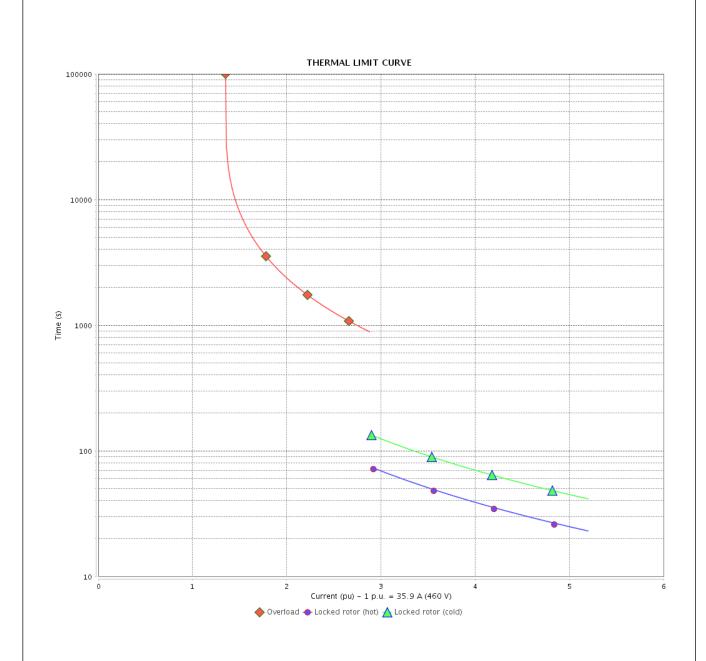


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11441523 02509ET3E32	26T-W22
Performance	:	230/460 V 60 Hz 8P				
Rated current LRC		71.8/35.9 A 5.2	Moment o	f inertia (J)	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		149 ft.lb 200 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu	ie :	229 %	Temperati		: 80 K	
Rated speed		880 rpm	Design		: B	
Heating constant Cooling constant						
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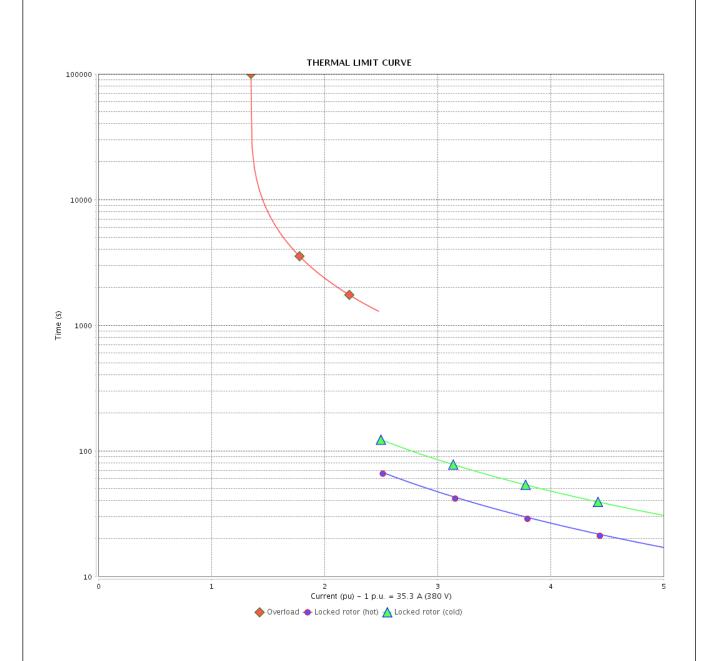


Customer	:				
Product line	: NEMA Premium Efficiency	Three- I	Product code :	11441523	
	Phase	(	Catalog # :	02509ET3E3	26T-W22
Performance	: 380 V 50 Hz 8P IE3				
Rated current	: 35.3 A	Moment of	f inertia (J)	: 11.9 sq.ft.lb	
	: 5.0 : 144 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service fa	ctor	: 1.15	
Breakdown torque	: 229 %	Temperatu	ire rise	: 80 K : B	
	: 730 rpm	Design		. Б	
Heating constant Cooling constant					
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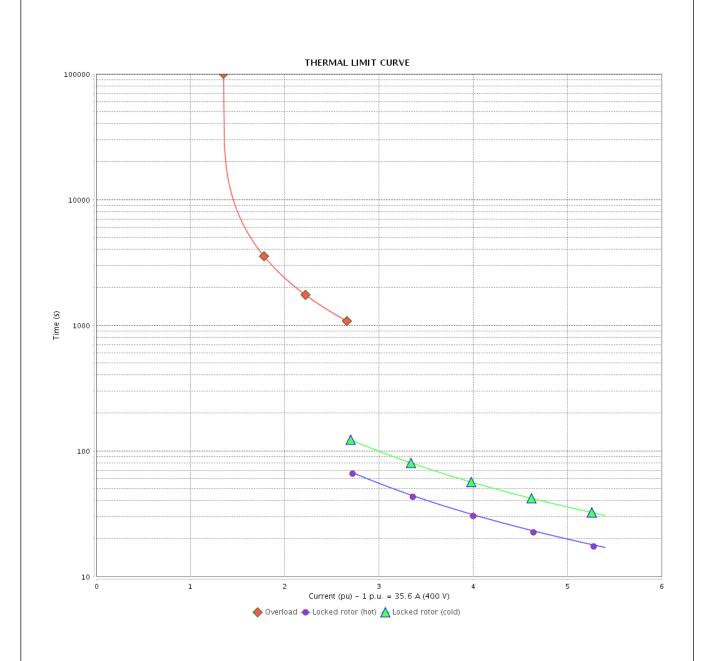


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Product line		: NEMA Premium Efficiency Phase		Product code :	11441523	
				Catalog # :	02509ET3E32	26T-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current		: 35.6 A	Moment of	of inertia (J)	: 11.9 sq.ft.lb	
LRC		: 5.4	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 144 ft.lb : 210 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie	: 250 %	Temperat		: 80 K	
Rated speed		: 730 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Comments		Dowforms	Charles	Dota
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### Three Phase Induction Motor - Squirrel Cage

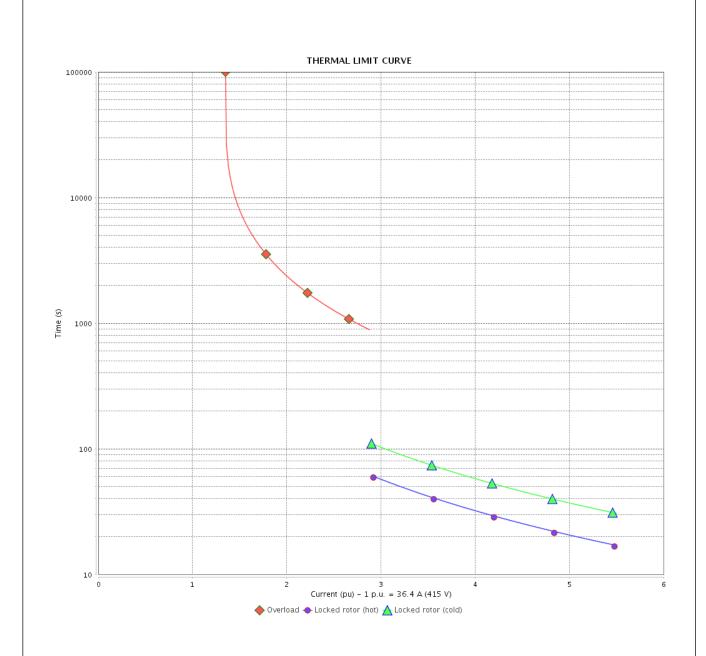


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11441523	
	P	hase		Catalog # :	02509ET3E32	26T-W22
Performance	· 4	15 V 50 Hz 8P IE3				
Rated current	: 36	6.4 A	Moment of	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.	5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torq		43 ft.lb 40 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	e : 28	30 %	Temperatu		: 80 K	
Rated speed		35 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

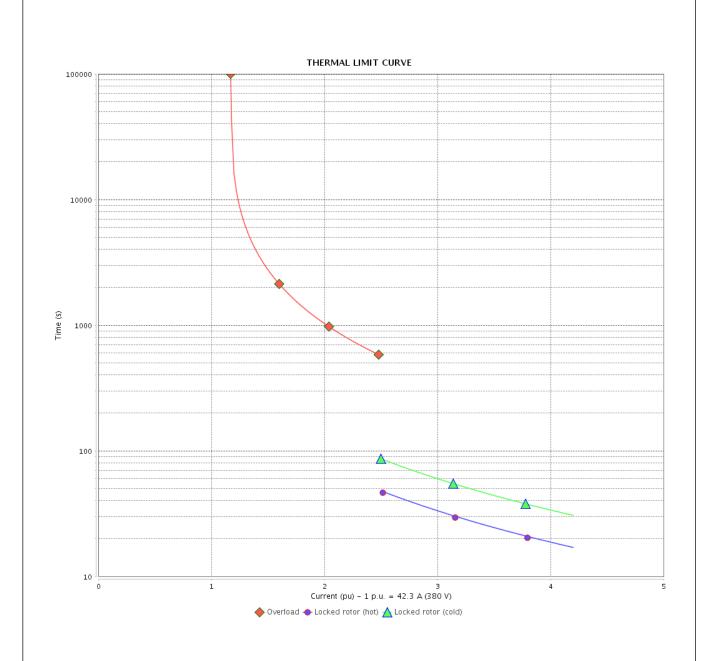


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441523 02509ET3E3	D6T-W22
			<b>3</b> •		<del></del>
Performance	: 380 V 50 Hz 8P IE1		Character (I)	44.0	
Rated current LRC	: 42.3 A : 4.2	Moment o	of inertia (J)	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 181 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 150 % : 180 %	Service fa Temperatu		: 1.15 : 105 K	
Rated speed	: 725 rpm	Design		: B	
Heating constant					
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage

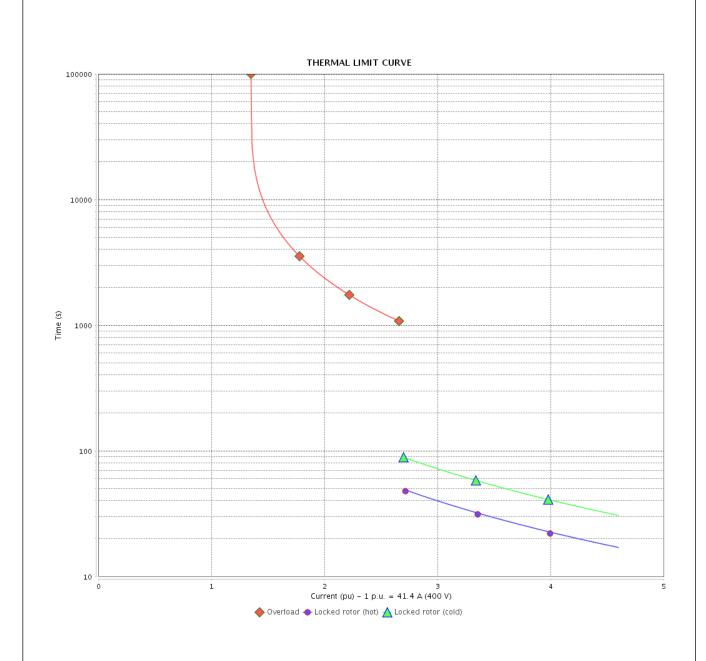


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Product line		NEMA Premium Efficiency hase	Three-	Product code :	11441523	
			(	Catalog # :	02509ET3E32	26T-W22
Performance	· 10	00 V 50 Hz 8P IE2				
Rated current		1.4 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 4.	6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torqu	ie : 17	81 ft.lb 70 %	Insulation Service fa	ctor	: F : 1.15	
Breakdown torque Rated speed	: 20	00 % 25 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 12	-0 .pm	Doolgii			
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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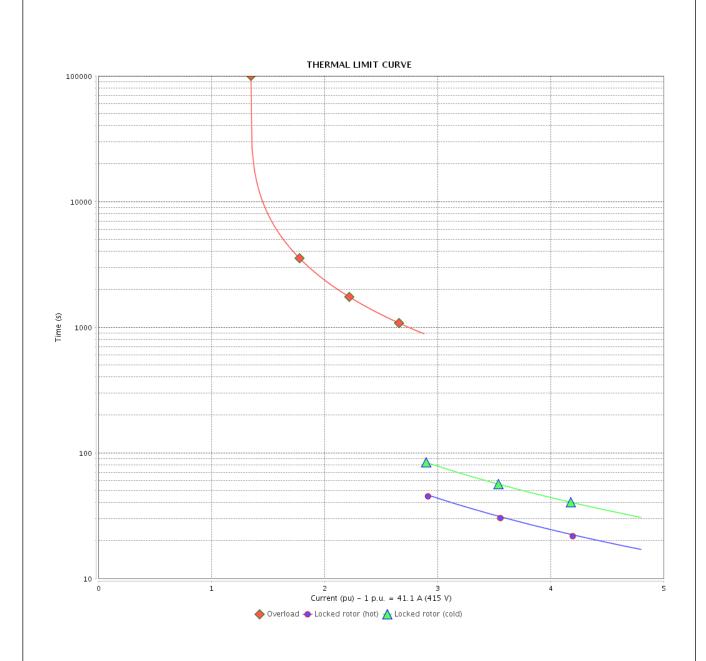


Customer	:				
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Product line	: NEMA Premium Efficienc	cy Three-	Product code :	11441523	
	Phase				OCT MOO
			Catalog # :	02509ET3E3	201-VV22
Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC	: 41.1 A : 4.8		f inertia (J)	: 11.9 sq.ft.lb	
Rated torque	: 4.8 : 180 ft.lb	Duty cycle Insulation	<del>,</del> class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 220 % : 730 rpm	Temperatu Design	ure rise	: 80 K : B	
	· · F · · ·	3			
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

Checked by

14/04/2022

Product line : NEMA Premium Efficiency Three-

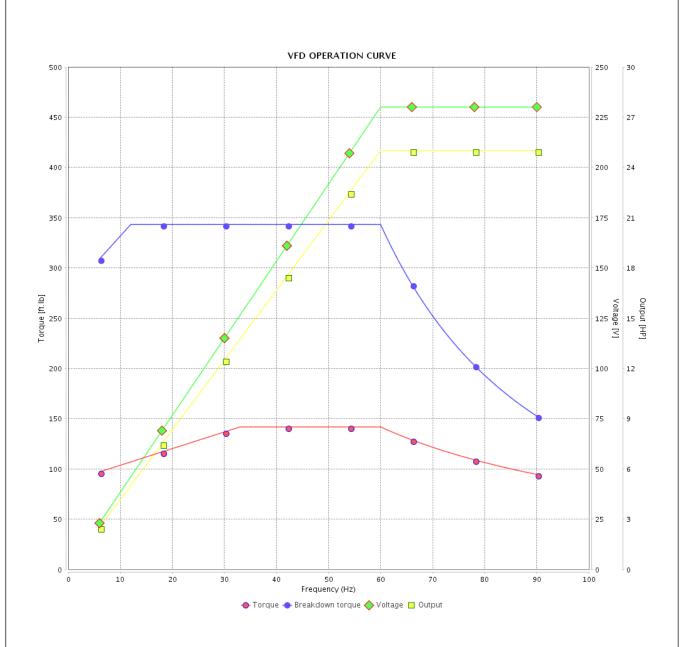
Product code: 11441523

Catalog #: 02509ET3E326T-W22

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Performance : 230/460 V 60 Hz 8P : 71.8/35.9 A Rated current Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 149 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

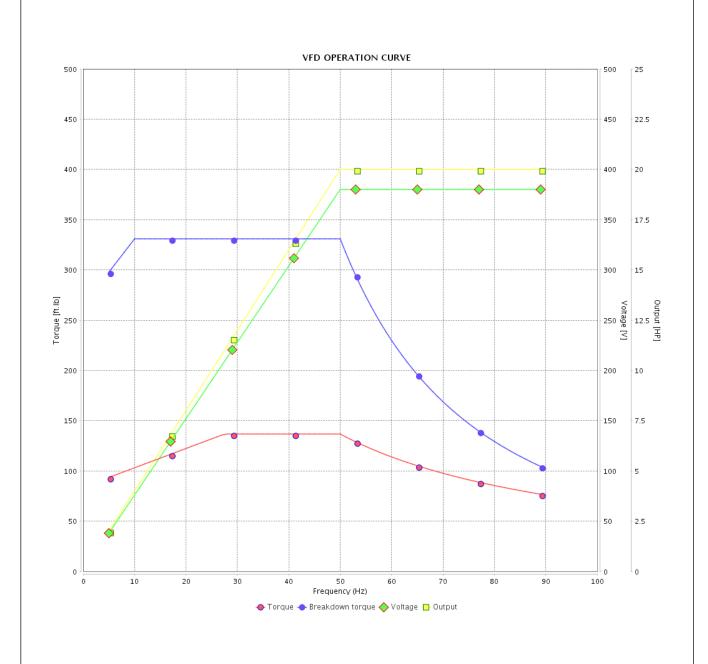


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441523

Phase

Catalog #: 02509ET3E326T-W22



Performance	: 38	80 V 50 Hz 8P IE3				
Rated current	: 3	: 35.3 A Moment of		f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.	.0	Duty cycle	}	: Cont.(S1)	
Rated torque	: 14	44 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 19	90 %	Service factor		: 1.15	
Breakdown torque	eakdown torque : 229 %		Temperati	Temperature rise		
Rated speed	: 73	30 rpm Design			: B	
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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-

Phase

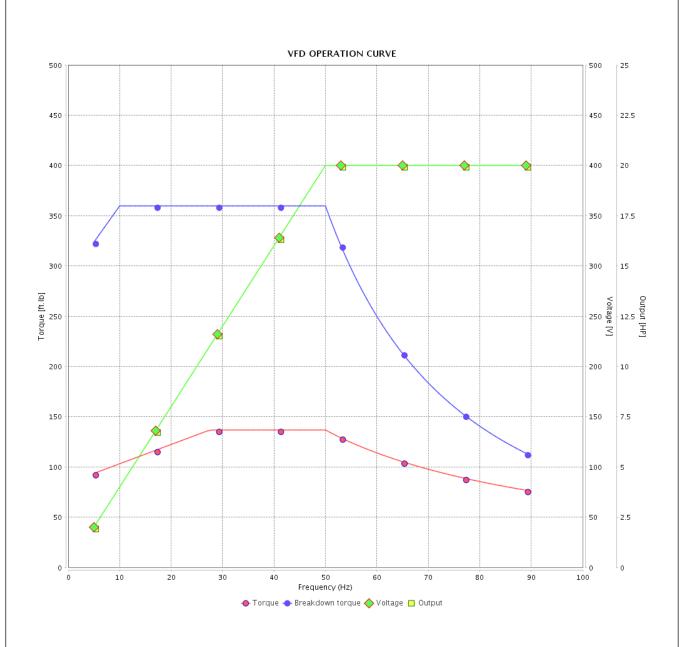
Product code: 11441523

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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.6 A : 5.4 : 144 ft.lb : 210 % : 250 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



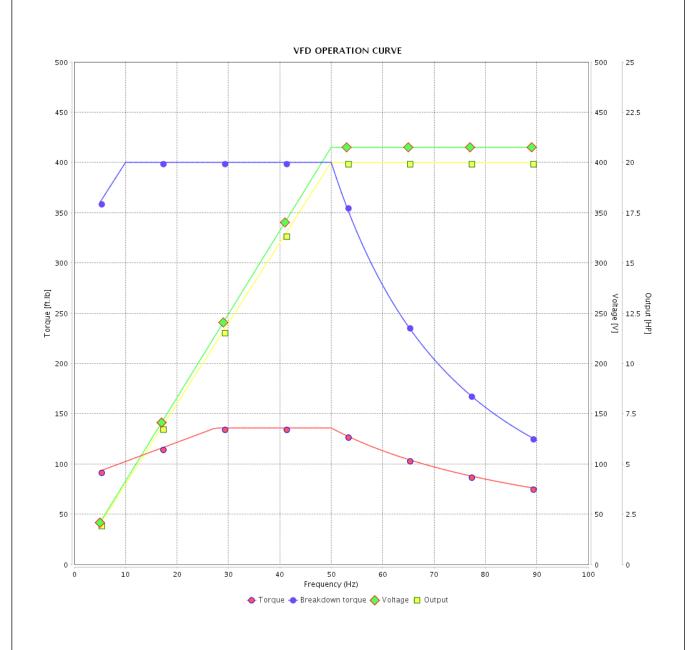
Customer

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11441523

Catalog #: 02509ET3E326T-W22



Performance	: 415 V 50 Hz 8P IE3				
Rated current	: 36.4 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.5	Duty cycle	)	: Cont.(S1)	
Rated torque	: 143 ft.lb	Insulation class		on class : F	
Locked rotor torque	: 240 %	Service factor		: 1.15	
Breakdown torque	: 280 %	Temperati	ıre rise	: 80 K	
Rated speed	: 735 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



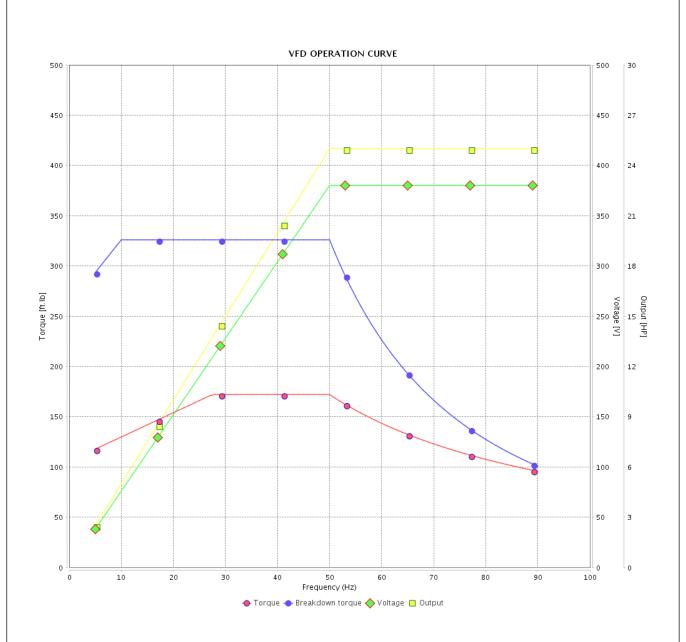
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441523

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Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.3 A : 4.2 : 181 ft.lb : 150 % : 180 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product of

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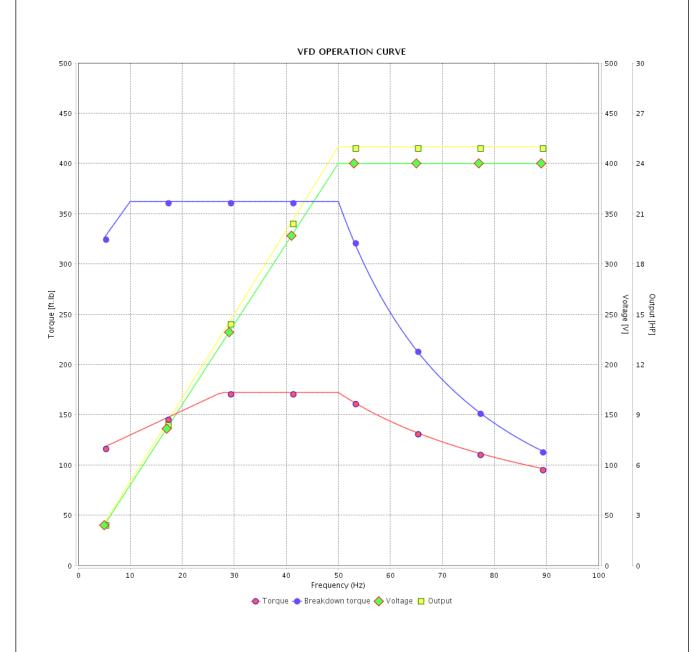
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Performance	: 400 V 50 Hz 8	P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 41.4 A : 4.6 : 181 ft.lb : 170 % : 200 % : 725 rpm	] 	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 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-

Phase

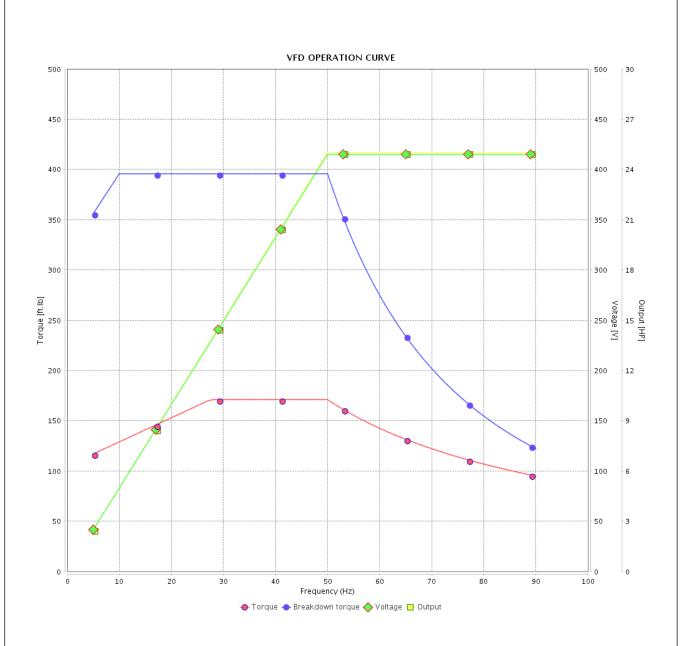
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Performance		: 415 V 50 Hz 8	P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 41.1 A : 4.8 : 180 ft.lb : 190 % : 220 % : 730 rpm	Dut Insu Ser Ten	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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