DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584354

Phase

Catalog #: 02509ST3QIE326T-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 : 563 lb

Protection degree	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]		460	380	400	415	380	400	415
Rated current [A]		35.9	35.3	35.6	36.4	42.3	41.4	41.1
L. R. Amperes [A]		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]]	20.0	19.6	22.2	24.6	19.6	22.2	24.6
Rated speed [RPM	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 [%]		229	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 ²		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
Fower Factor	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

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

Bearing type : 6312 C3 6212 C3 Max. traction : 1237 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 1800 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

Notes

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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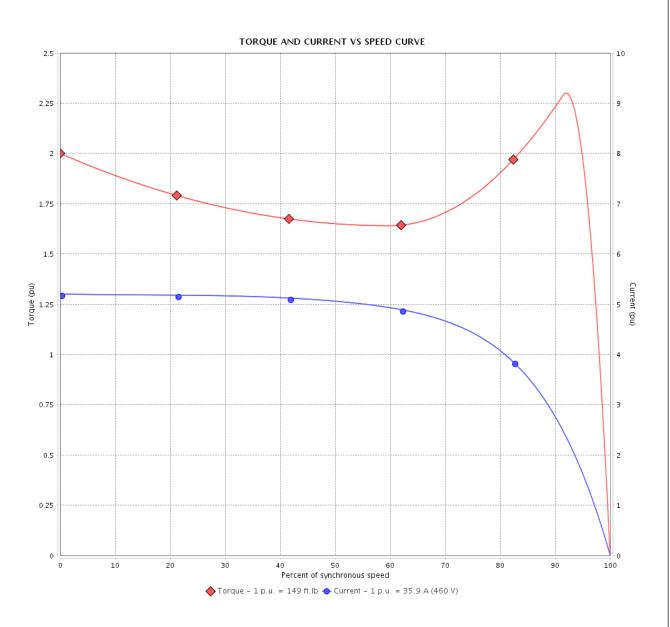
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11584354

Catalog #: 02509ST3QIE326T-W22



Performance : 460 V 60 Hz 8P Rated current : 35.9 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 149 ft.lb : F Service factor Locked rotor torque : 200 % : 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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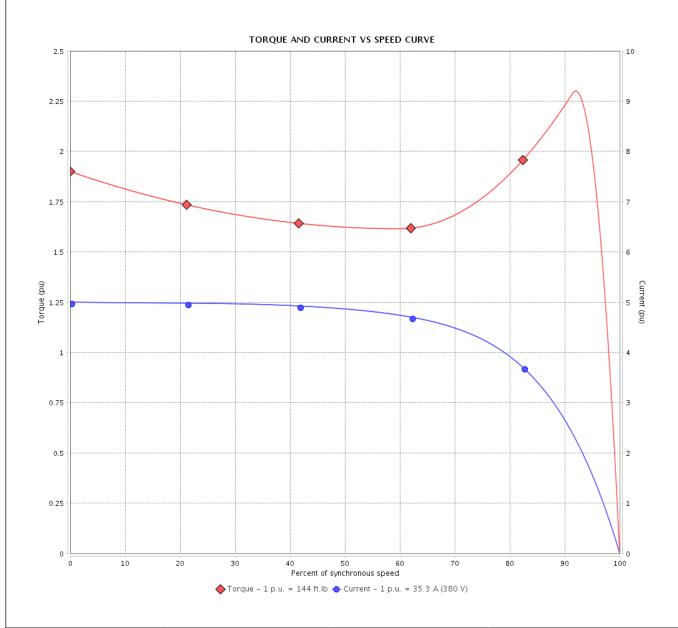


Customer

Product line : NEMA Premium Efficiency Three-Product code:

11584354

Catalog #: 02509ST3QIE326T-W22



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)
Rated torque	: 144 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B
Locked reter time	: 30s (sold) 17s (hot)		

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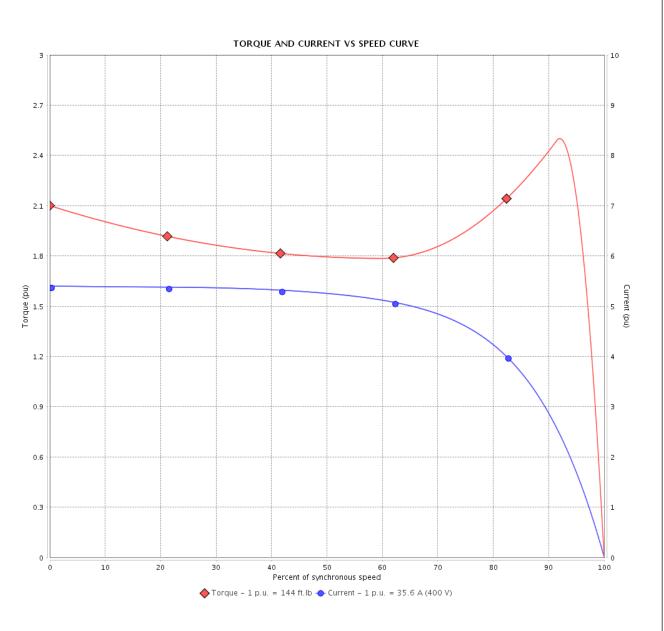


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584354

Phase

Catalog # : 02509ST3QIE326T-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) : 144 ft.lb Insulation class Rated torque : 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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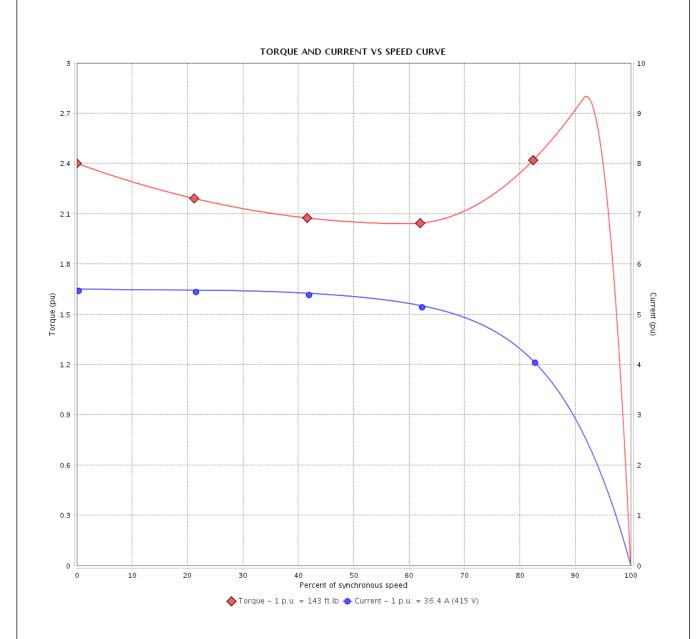
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Customer Product line : NEMA Premium Efficiency Three-Product code: 11584354

Catalog #:



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 : F Rated torque : 143 ft.lb : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 735 rpm Design

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

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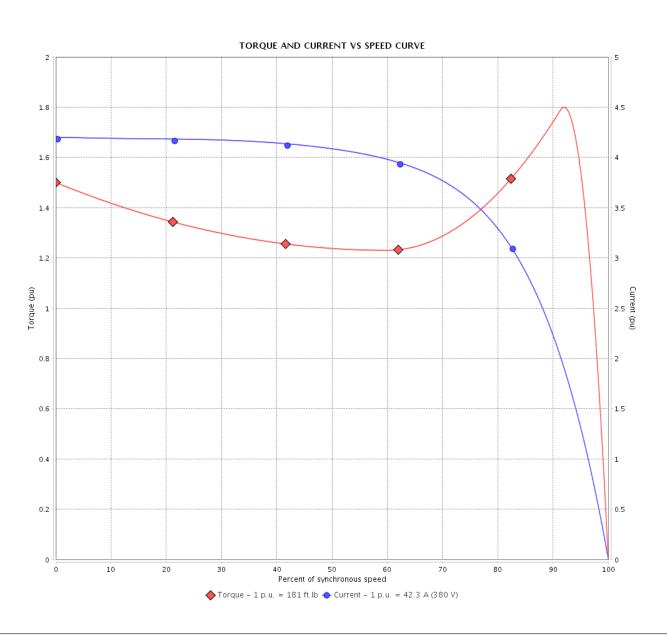
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584354

Catalog #: 02509ST3QIE326T-W22



Rated current : 42.3 A Moment of inertia (J) : 11.9 sq.ft LRC : 4.2 Duty cycle : Cont.(S1 Rated torque : 181 ft.lb Insulation class : 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: 11584354 Catalog #: 02509ST3QIE326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 4.5 3.5 1.75 1.5 (pd) 1.25 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 LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.4 A : 4.6 : 181 ft.lb : 170 % : 200 % : 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 : 80 K : B	
Locked rotor time	: 30s (cold) 17s (hot)				
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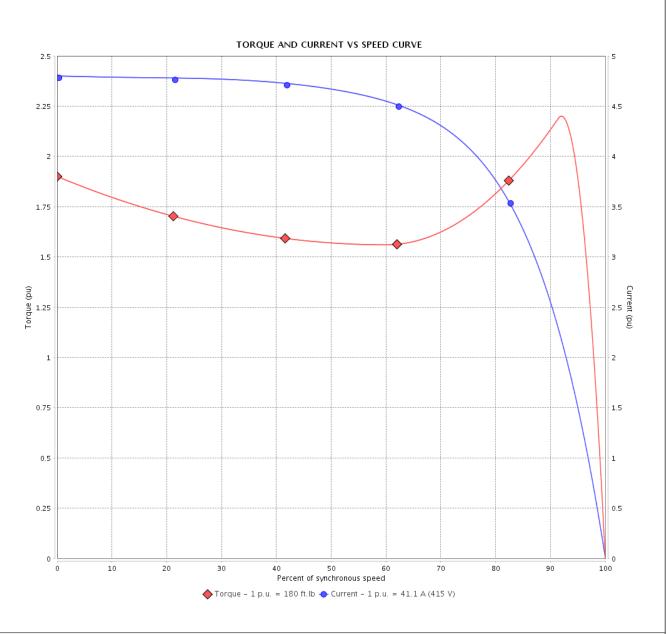


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584354

Phase

Catalog # : 02509ST3QIE326T-W22



Rated current : 41.1 A Moment of inertial LRC : 4.8 Duty cycle Rated torque : 180 ft.lb Insulation class Locked rotor torque : 190 % Service factor Breakdown torque : 220 % Temperature rise Rated speed : 730 rpm Design	: Cont.(S1) : F : 1.15

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

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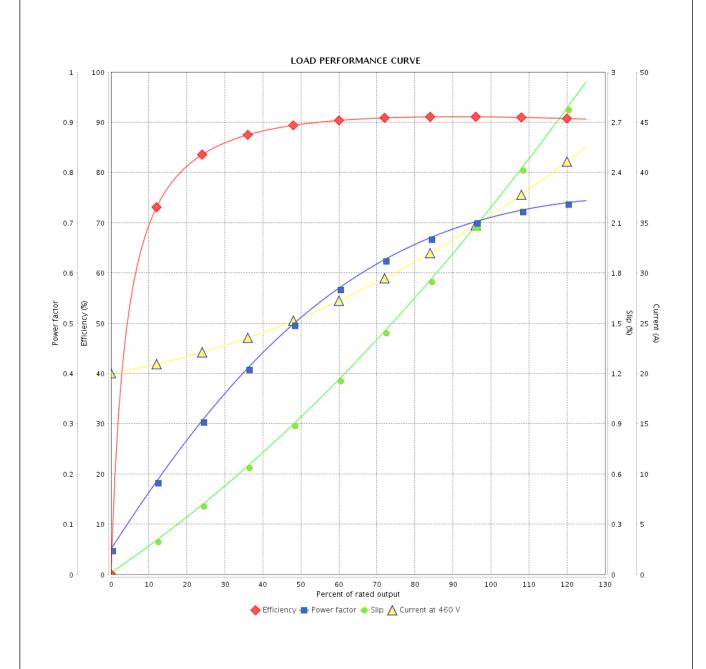


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584354

Phase

Catalog #: 02509ST3QIE326T-W22



Performance	: 460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.2 : 149 ft.lb : 200 % : 229 % : 880 rpm	Moment of Duty cycle Insulation Service for Temperate Design	class actor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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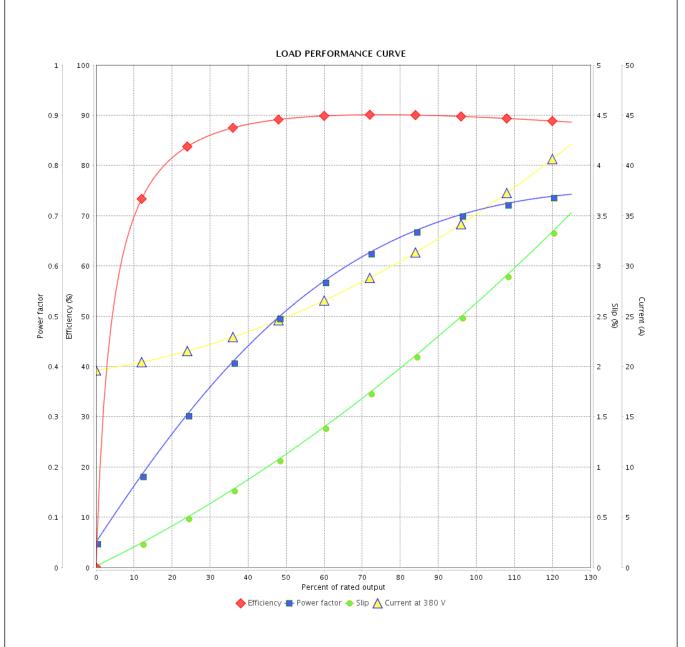
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Phase

Product code: 11584354

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			·			
Performance	: 380 V 50 Hz 8P IE3	: 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 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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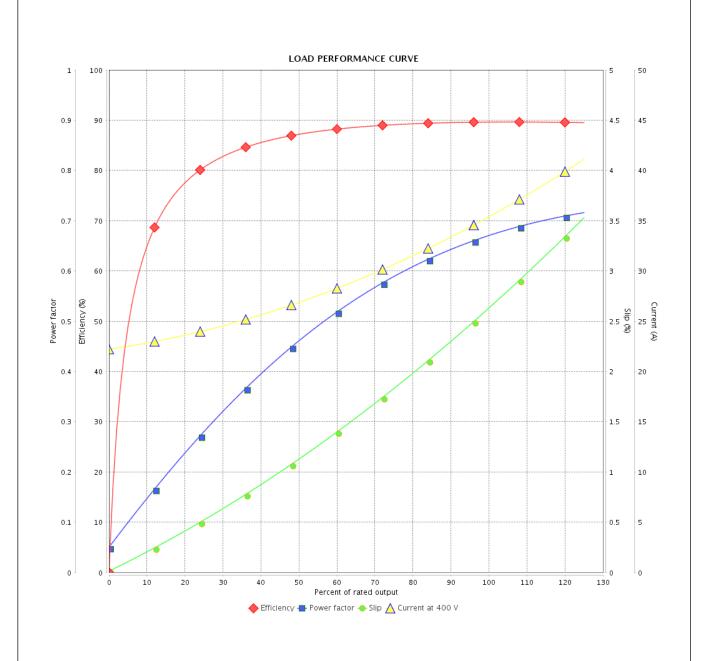


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Product line : NEMA Premium Efficiency Three- Product code : 11584354

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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 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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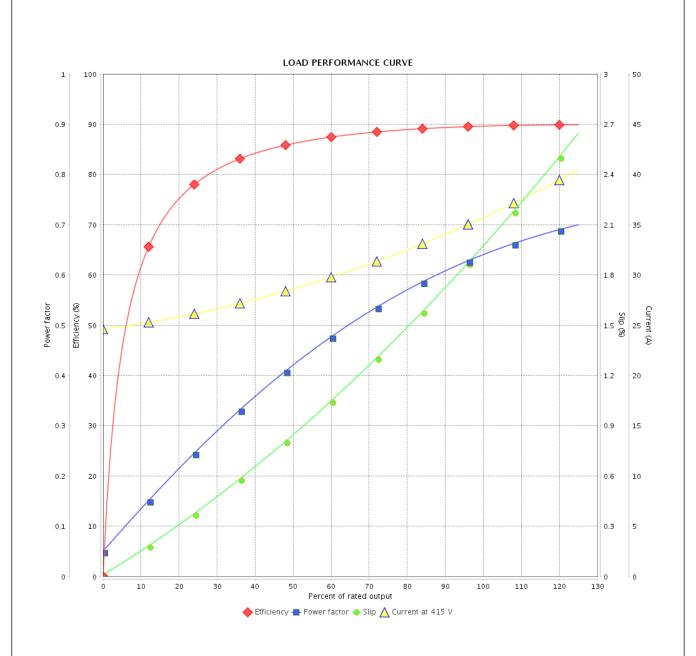
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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.4 A : 5.5 : 143 ft.lb : 240 % : 280 % : 735 rpm	Moment of inertia (J) : 11.9 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
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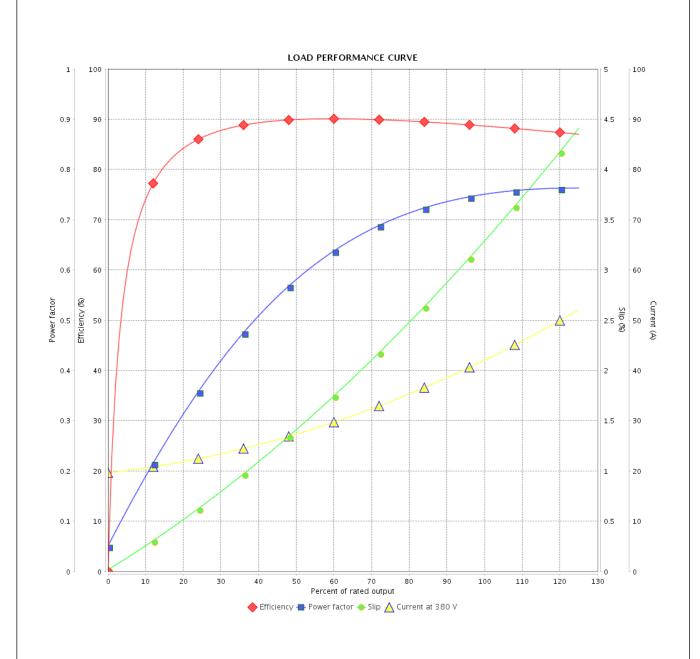
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Performance	: 380 V 50 Hz 8P IE1				
Rated current	: 42.3 A	Moment of	, ,	: 11.9 sq.ft.lb	
LRC	: 4.2	Duty cycle		: Cont.(S1)	
Rated torque	: 181 ft.lb	Insulation class Service factor		: F : 1.15	
Locked rotor torque	: 150 %				
Breakdown torque	: 180 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 725 rpm	Design		: B	
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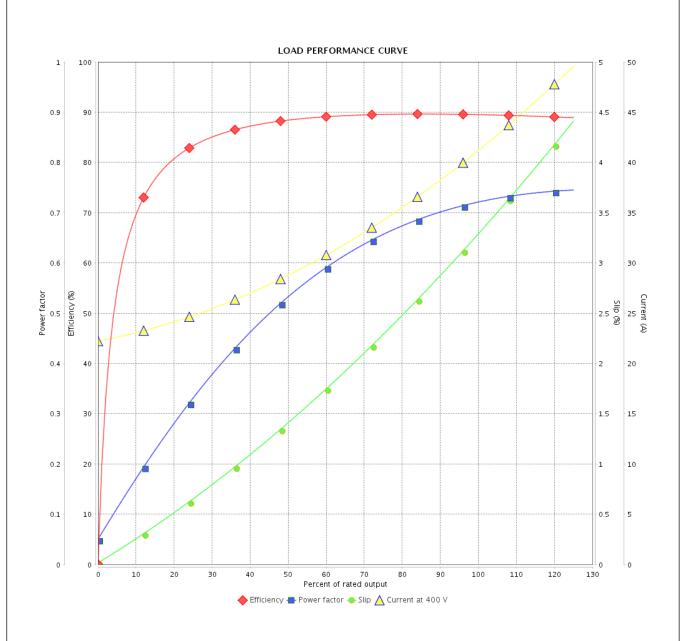
Product line : NEMA Premium Efficiency Three-

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Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.4 A : 4.6 : 181 ft.lb : 170 % : 200 % : 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 : 80 K : B	
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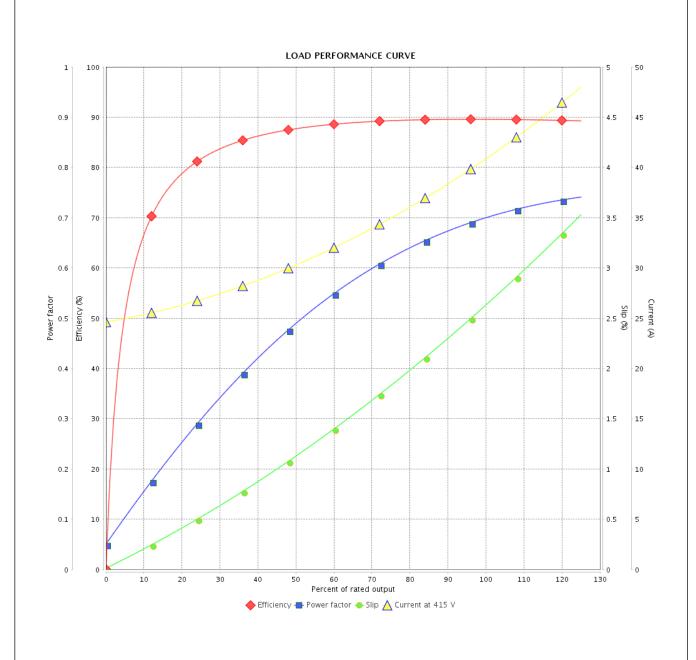
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Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 4.8 : 180 ft.lb : 190 % : 220 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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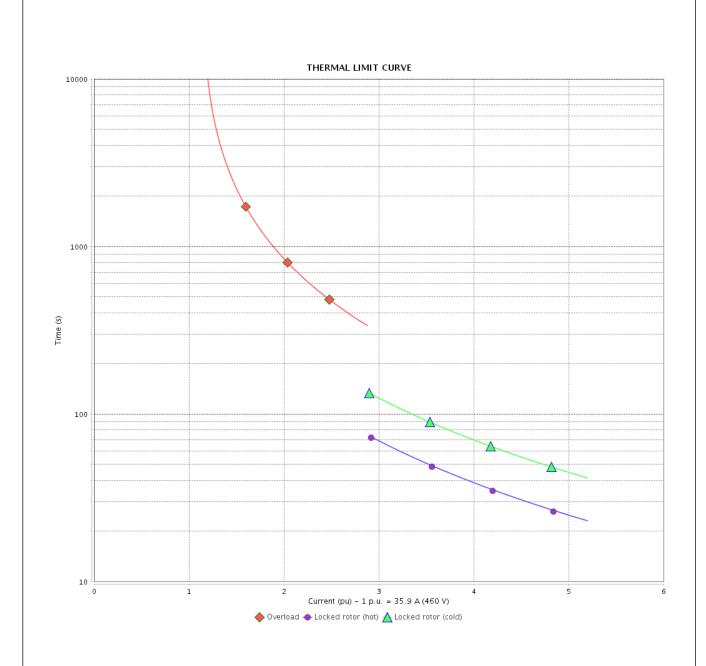


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584354 02509ST3QIE	:326T-W22
Performance		: 460 V 60 Hz 8P				
Rated current LRC Rated torque		: 35.9 A : 5.2 : 149 ft.lb	Moment of Duty cycle Insulation		: 11.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 200 % : 229 %	Service fa Temperat	actor	: 1.25 : 80 K	
Rated speed		: 880 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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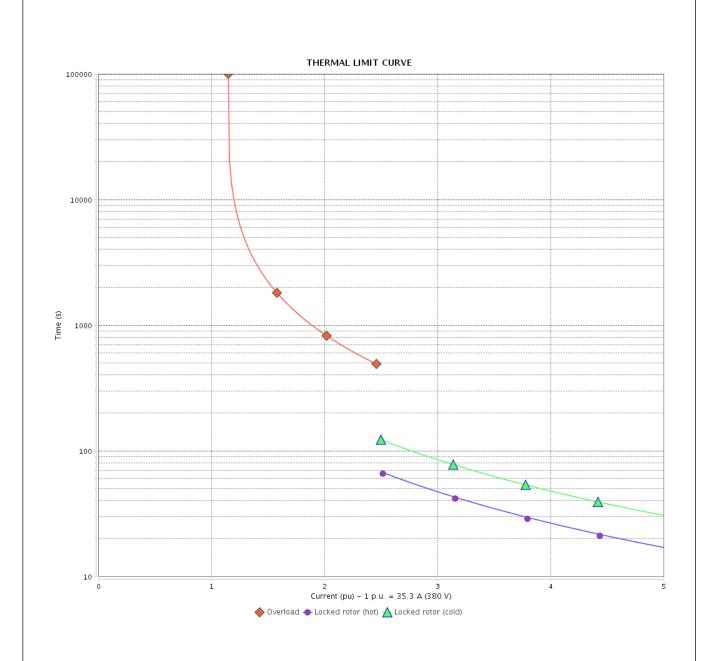


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Product line		NEMA Premium Efficiency nase		Product code :	11584354 02509ST3QIE	:326T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35 : 5. : 14 e : 19	30 V 50 Hz 8P IE3 5.3 A 0 44 ft.lb 90 % 29 % 30 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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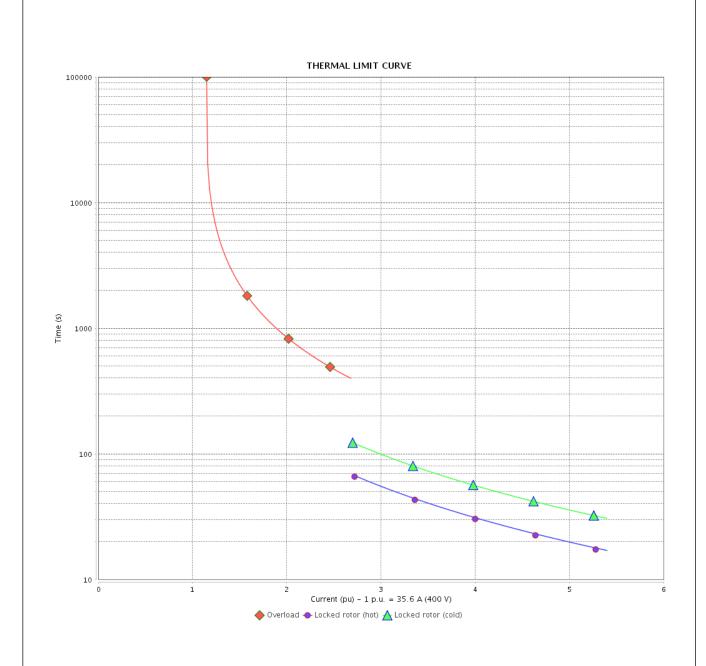


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584354 02509ST3QIE	:326T-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque		: 35.6 A : 5.4 : 144 ft.lb	Moment of Duty cycle Insulation		: 11.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que	: 210 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 250 % : 730 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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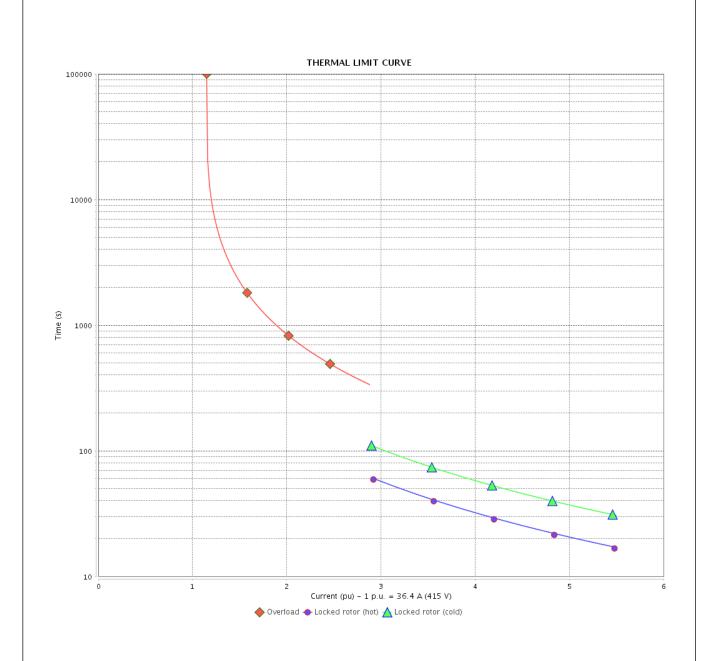


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	11584354 02509ST3QIE	-326T W22
Performance	: 415 V 50 Hz 8P IE3			
Rated current	: 36.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb	
LRC Rated torque	: 5.5 : 143 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 280 % : 735 rpm	Temperature rise Design	: 80 K : B	
Heating constant Cooling constant				
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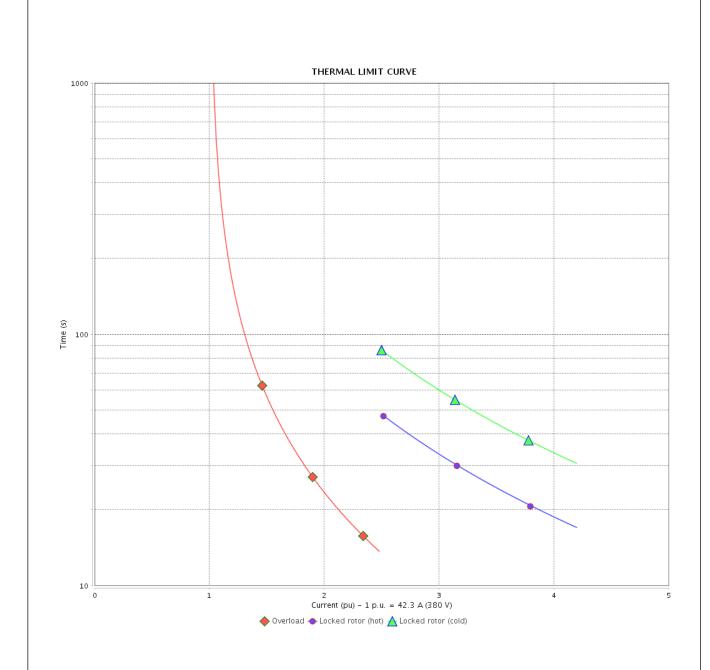


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584354 02509ST3QIE	:326T-W22
Performance		: 380 V 50 Hz 8P IE1				
Rated current LRC		: 42.3 A : 4.2	Moment of Duty cycle	of inertia (J)	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 181 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 150 % : 180 %	Service fa Temperat		: 1.15 : 105 K	
Rated speed		: 725 rpm	Design	uro rioc	: B	
Heating constan						
Cooling constan	t	Observe O		D- ()	Ob. 1	
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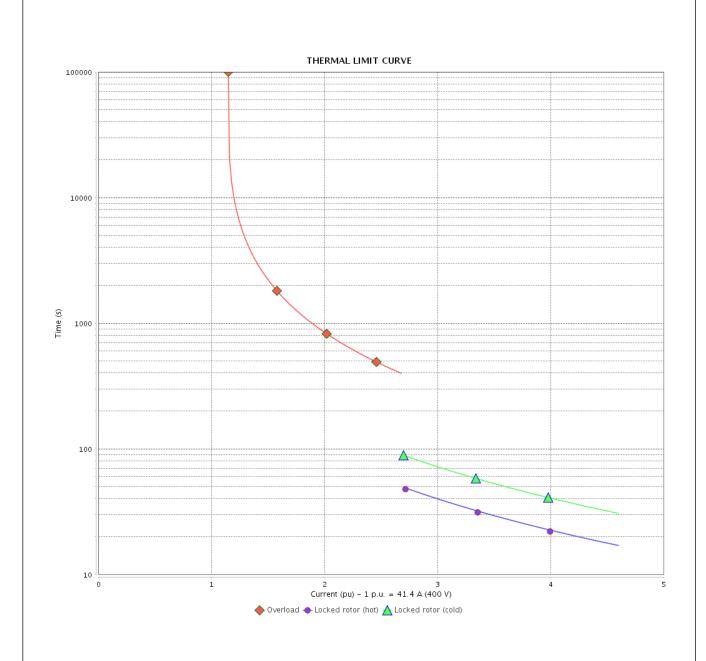


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584354 02509ST3QIE	:326T-W22
Performance	:	400 V 50 Hz 8P IE2				
Rated current LRC	:	41.4 A 4.6	Duty cycle		: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		181 ft.lb 170 %	Insulation Service fa		: F : 1.15	
Breakdown torqu Rated speed	ie :	200 % 725 rpm	Temperati Design		: 80 K : B	
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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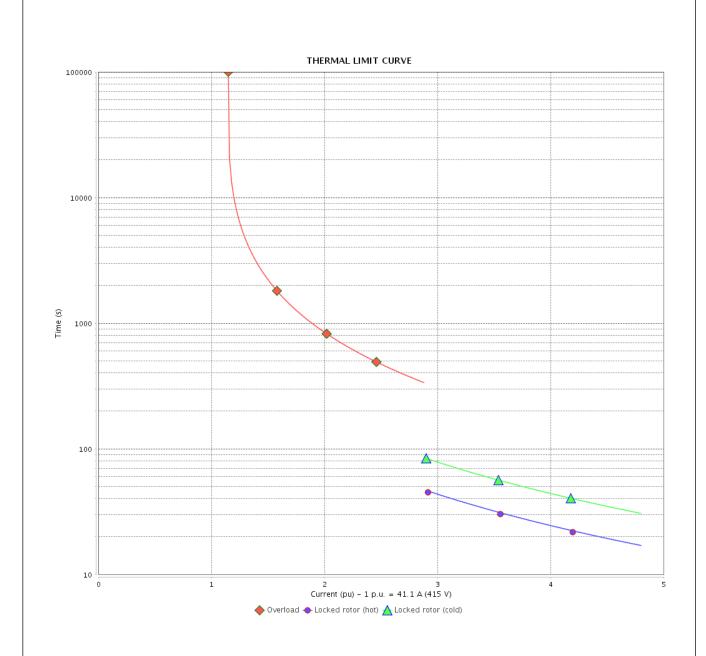


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584354 02509ST3QIE	326T-W22
Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque		: 41.1 A : 4.8 : 180 ft.lb	Moment of Duty cycle Insulation		: 11.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	que :	: 190 % : 220 %	Service fa	actor	: 1.15 : 80 K	
Rated speed		: 730 rpm	Design	ui C 115C	: B	
Heating constant						
Cooling constant Rev.	t .	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

Phase

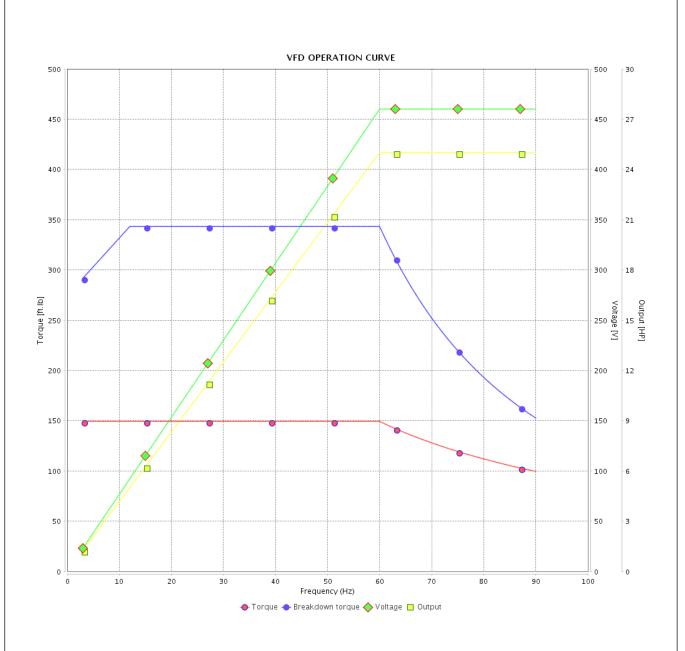
Product code: 11584354

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Performance		: 460 V 60 Hz	8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 35.9 A : 5.2 : 149 ft.lb : 200 % : 229 % : 880 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes S	Summary		Performed	Checked	Date
Performed by							

Three Phase Induction Motor - Squirrel Cage



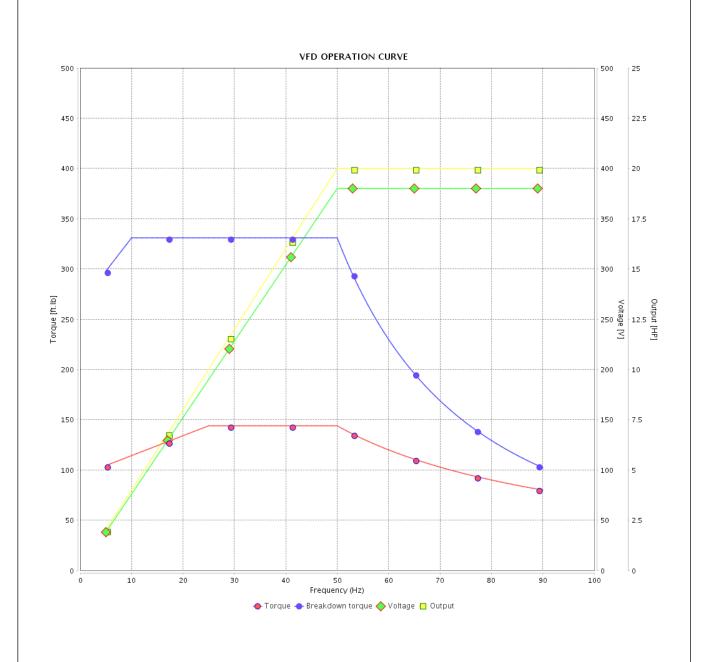
Customer

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Performance	: 380 V 50 Hz 8P IE3	: 380 V 50 Hz 8P IE3					
Rated current	: 35.3 A	Moment of inertia (J)		: 11.9 sq.ft.lb			
_RC	: 5.0 Duty cycle : 144 ft.lb Insulation class : 190 % Service factor		: Cont.(S1)				
Rated torque			class	: F			
Locked rotor torque			ctor	: 1.15			
Breakdown torque	: 229 %	, i a maria di maria		: 80 K			
Rated speed	: 730 rpm			: B			
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Product line : NEMA Premium Efficiency Three-

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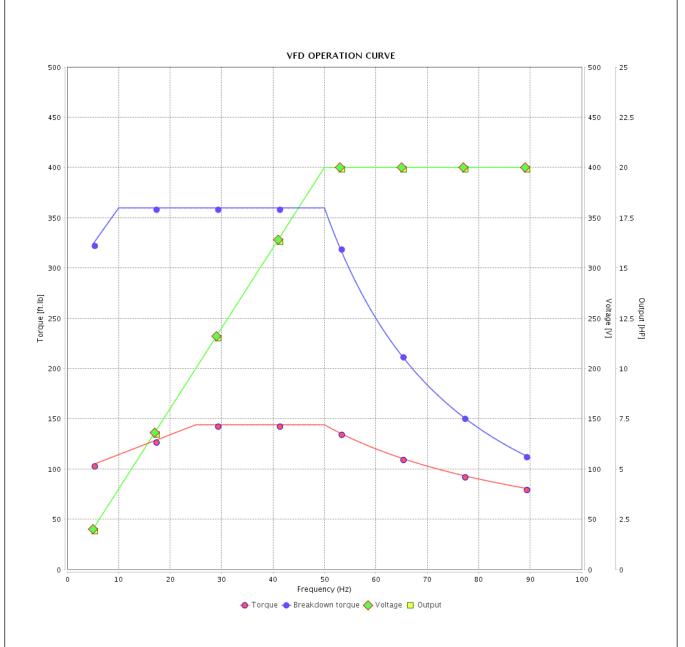
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Performance		: 400 V 50 Hz	z 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 35.6 A : 5.4 : 144 ft.lb : 210 % : 250 % : 730 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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



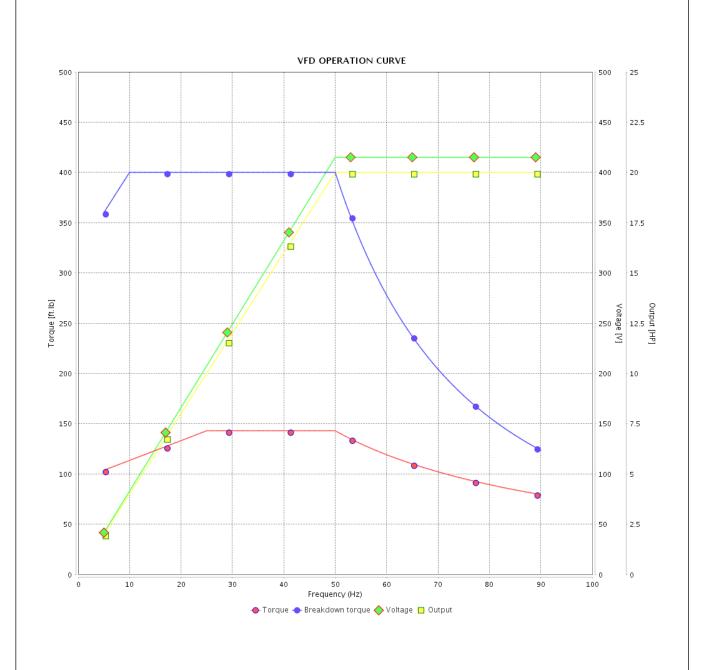
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584354

Phase

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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 Insulation class		;	: Cont.(S1)			
Rated torque			class : F				
Locked rotor torque	: 240 %	280 % Temperature rise		: 1.15			
Breakdown torque	: 280 %			: 80 K			
Rated speed	: 735 rpm			: B			
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Produ

Phase

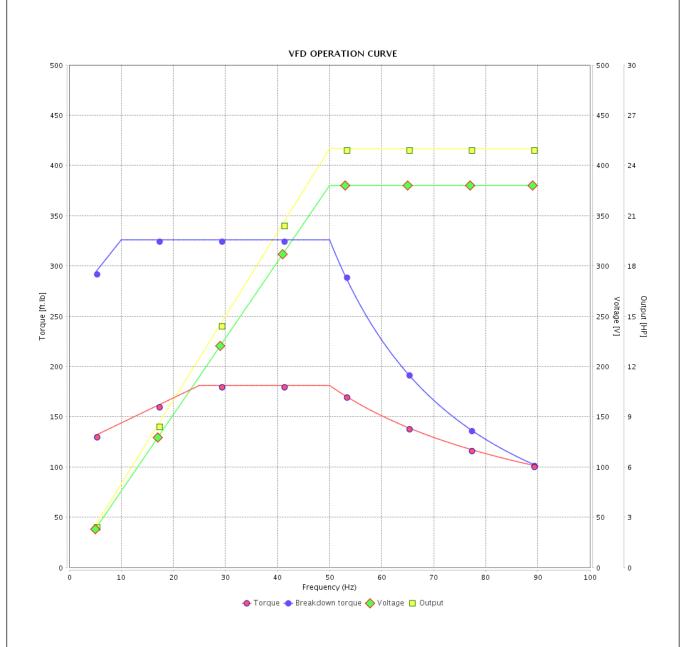
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Performance : 380 V 50 Hz 8P IE1 Rated current : 42.3 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 4.2 Duty cycle : Cont.(S1) Insulation class : 181 ft.lb : F Rated torque Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 180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

Three Phase Induction Motor - Squirrel Cage

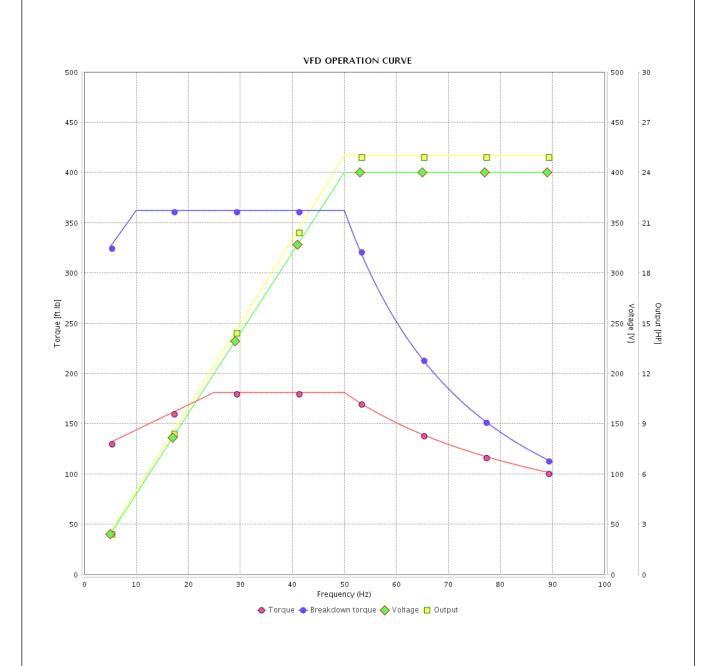


Customer

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Phase

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Performance	: 40	400 V 50 Hz 8P IE2					
Rated current	d current : 41.4 A Moment of		of inertia (J)	: 11.9 sq.ft.lb			
LRC	: 4.	6	Duty cycle		: Cont.(S1)		
Rated torque	: 18	81 ft.lb Insulation class		: F			
Locked rotor torque		70 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 20	00 % Temperature rise	ure rise	: 80 K			
Rated speed	: 72	25 rpm	Design		: B		
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Product line : NEMA Premium Efficiency Three-

Phase

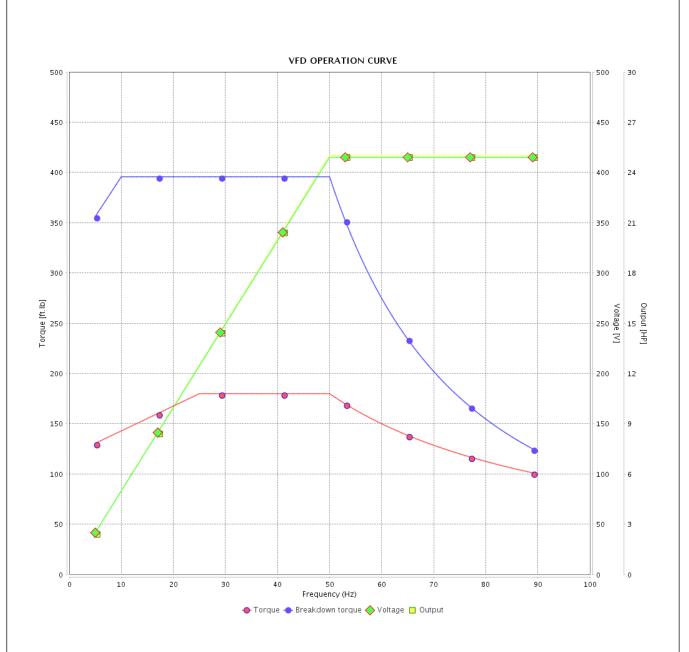
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Performance	:	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	41.1 A 4.8 180 ft.lb 190 % 220 % 730 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
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