DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431934

Catalog #: 06018ST3QIE364T-W22

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight³ : 874 lb Altitude

Protection degre	e	: IP55		Momer	nt of inertia (J)) : 2	2.4 sq.ft.lb	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		71.6	71.0	69.1	67.4	86.5	82.6	80.2
L. R. Amperes [A]		444	447	477	499	450	479	497
LRC [A]		6.2x(Code	6.3x(Code	6.9x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A	.]	28.0	27.6	29.8	31.6	27.6	29.8	31.6
Rated speed [RPI	Л]	1780	1480	1482	1484	1470	1475	1477
Slip [%]		1.11	1.33	1.20	1.07	2.00	1.67	1.53
Rated torque [ft.lb]]	177	177	177	177	214	214	213
Locked rotor torqu	ie [%]	220	200	220	240	160	180	200
Breakdown torque	: [%]	240	240	260	280	200	210	229
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	105 K
Locked rotor time		27s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
		15s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	94.1	93.7	93.3	93.4	94.1	94.1	94.1
Efficiency (%)	75%	94.5	93.9	93.9	94.2	93.6	93.6	94.1
	100%	95.0	94.2	94.2	94.3	93.0	93.6	94.1
	25%							
Dower Footer	50%	0.71	0.71	0.68	0.65	0.76	0.73	0.70
Power Factor	75%	0.80	0.80	0.78	0.76	0.82	0.81	0.80
	100%	0.83	0.84	0.82	0.81	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1242 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 2116 lb

Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 g

Mobil Polyrex EM Lubricant type

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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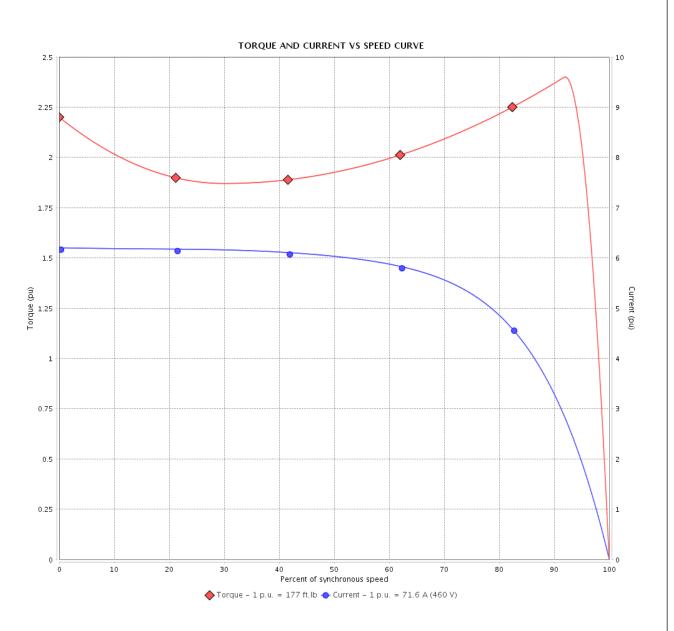
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431934

Catalog #: 06018ST3QIE364T-W22



Performance : 460 V 60 Hz 4P Rated current : 71.6 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Locked rotor time

: 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431934 Catalog #: 06018ST3QIE364T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 177 ft.lb ◆ Current - 1 p.u. = 71.0 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 71.0 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Rated torque Insulation class : F : 177 ft.lb Locked rotor torque : 200 % : 1.00 Service factor Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 18s (cold) 10s (hot)

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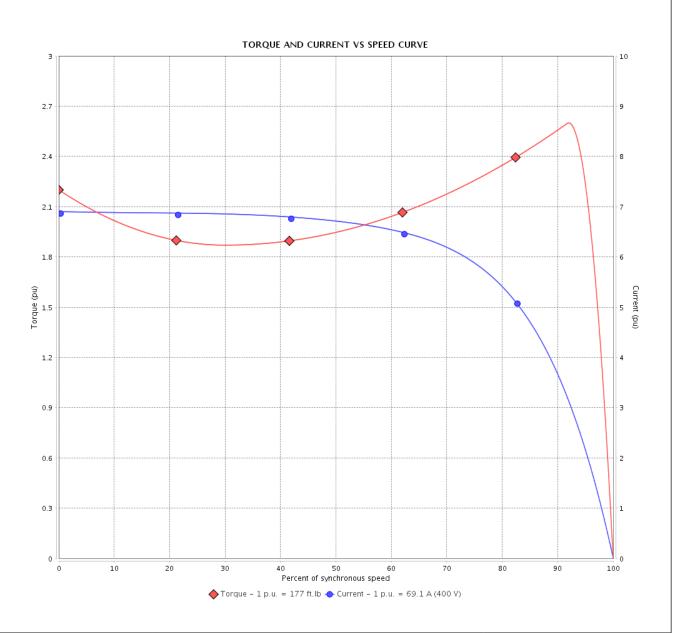
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11431934

Catalog #: 06018ST3QIE364T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 69.1 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431934 Catalog #: 06018ST3QIE364T-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. = 177 ft.lb ◆ Current - 1 p.u. = 67.4 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 67.4 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Date Performed Checked Rev. **Changes Summary**

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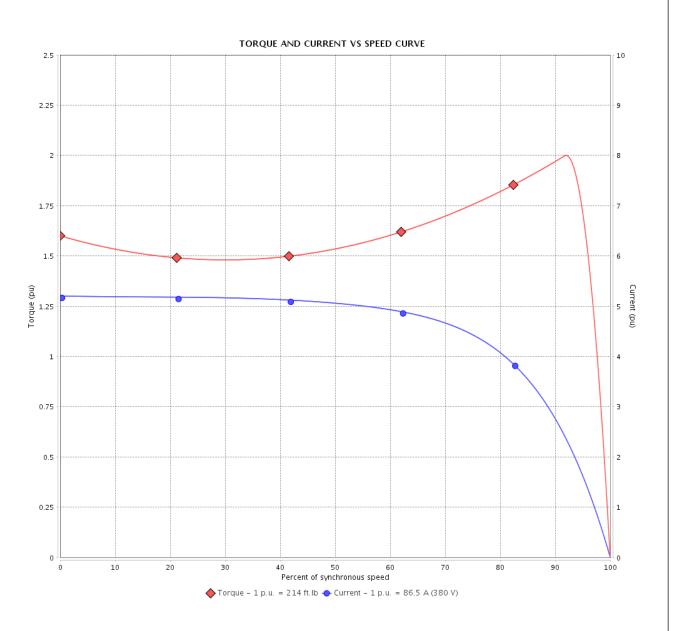
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431934

Catalog #: 06018ST3QIE364T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 86.5 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431934 Catalog #: 06018ST3QIE364T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 214 ft.lb ◆ Current - 1 p.u. = 82.6 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 82.6 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F : 180 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 1475 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Rev. Performed Checked Date **Changes Summary**

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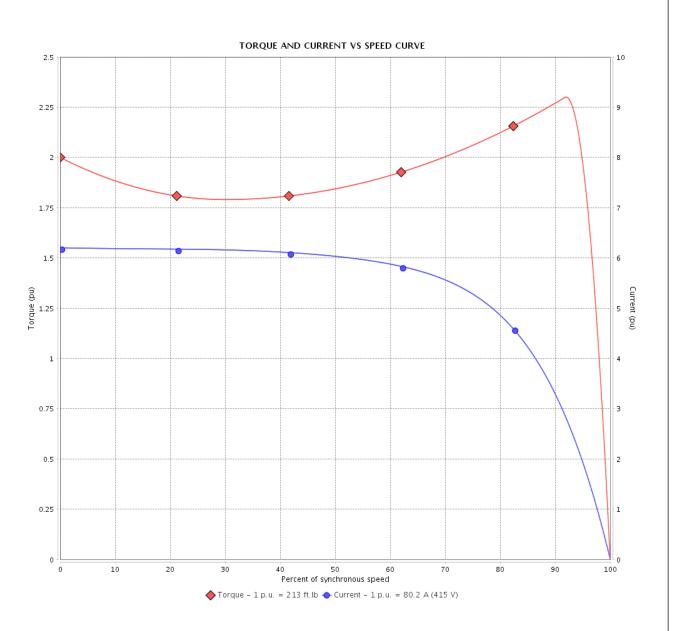
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 06018ST3QIE364T-W22

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Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 80.2 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 1477 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)	1		

Locked rotor time : 18s (cold) 10s (hot)

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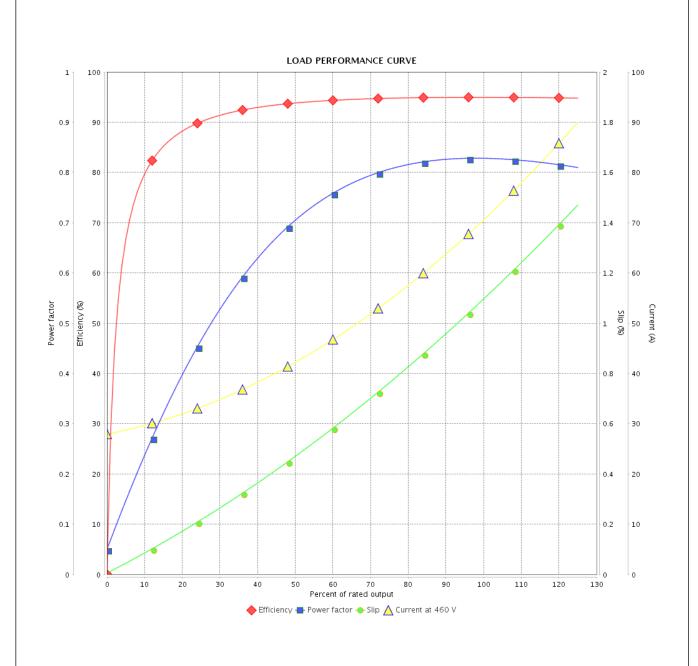


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431934

Phase

Catalog #: 06018ST3QIE364T-W22



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 7	'1.6 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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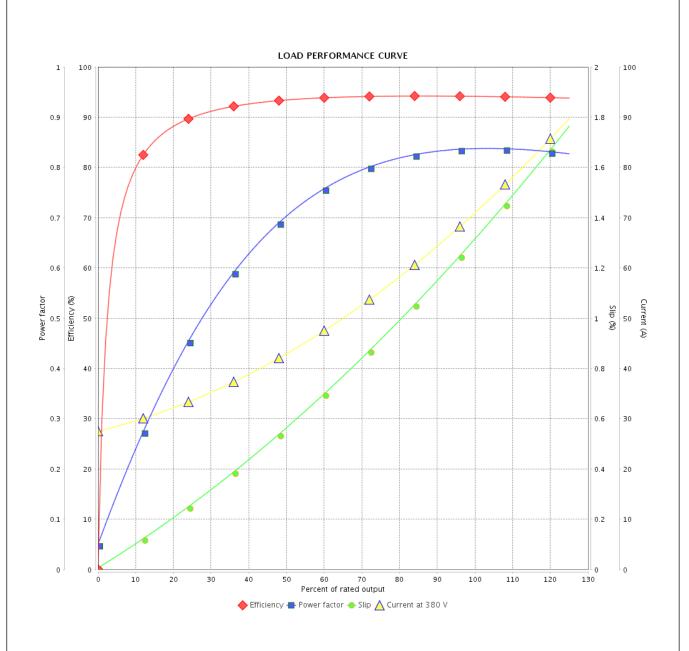
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431934

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			·		·	
Performance	: 3	80 V 50 Hz 4P IE3	3			
Rated current		1.0 A	A Moment of inertia (J)		: 22.4 sq.ft.lb	
LRC	: 6	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	40 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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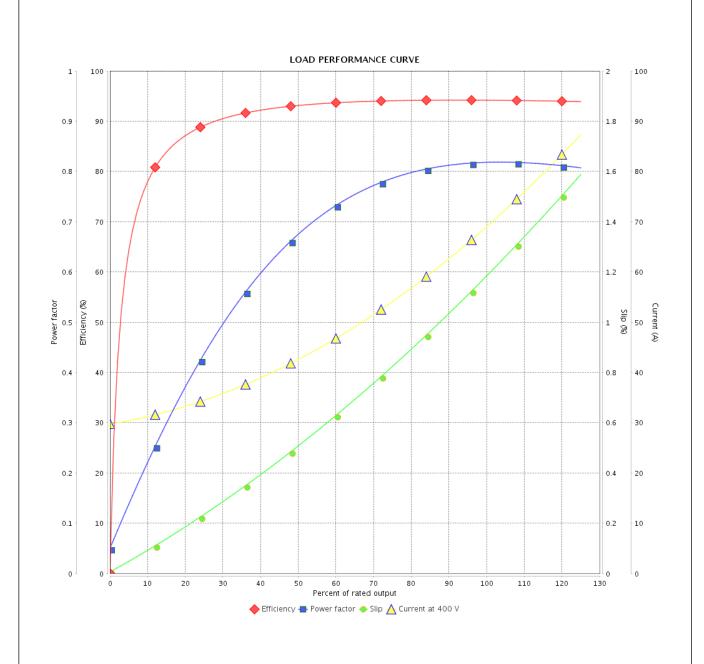
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431934

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.1 A : 6.9 : 177 ft.lb : 220 % : 260 % : 1482 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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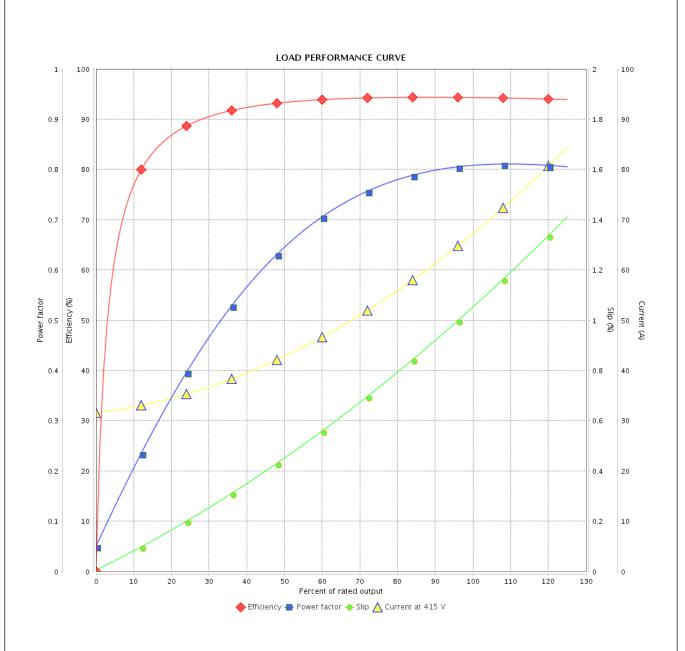
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Phase

Product code: 11431934

Catalog #: 06018ST3QIE364T-W22

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Rated current : 67.4 A Moment of inertia (J) : 22.4 sq.ft.lb LRC : 7.4 Duty cycle : Cont.(S1) Rated torque : 177 ft.lb Insulation class : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B	
Breakdown torque : 280 % Temperature rise : 80 K	
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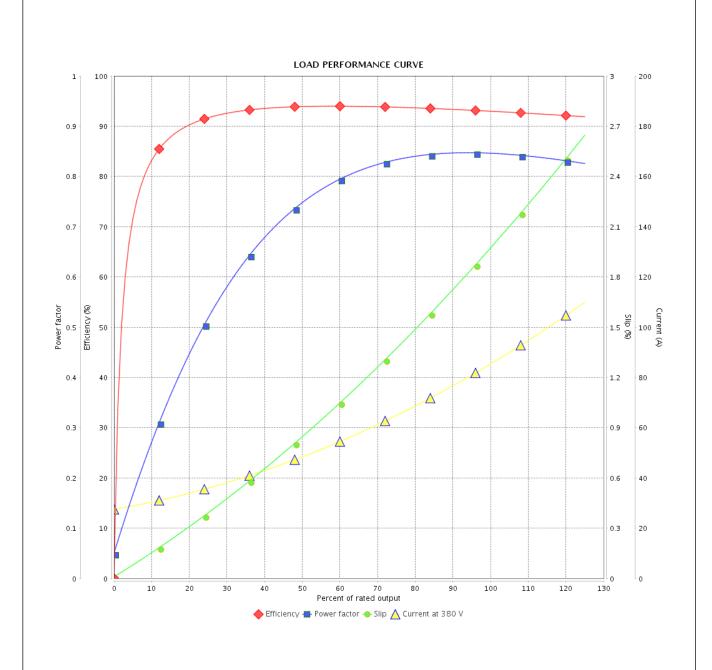
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431934

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 86.5 A : 5.2 : 214 ft.lb : 160 % : 200 % : 1470 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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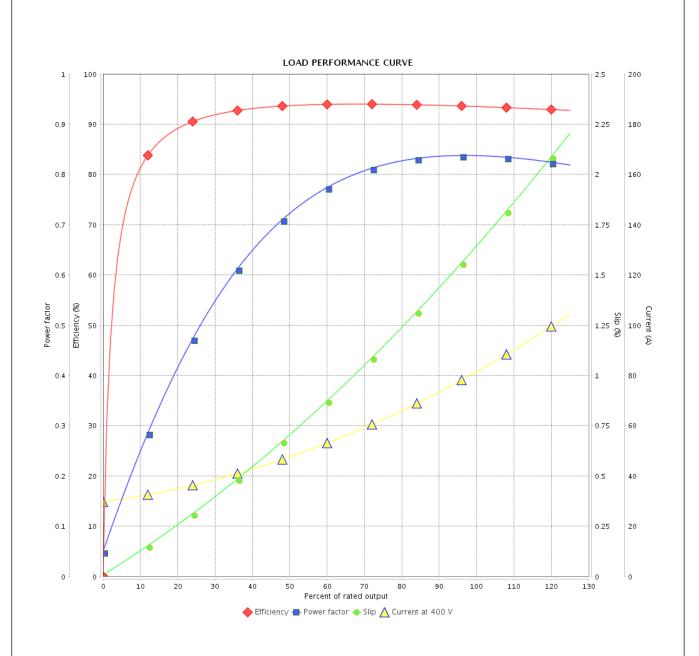
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Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.6 A : 5.8 : 214 ft.lb : 180 % : 210 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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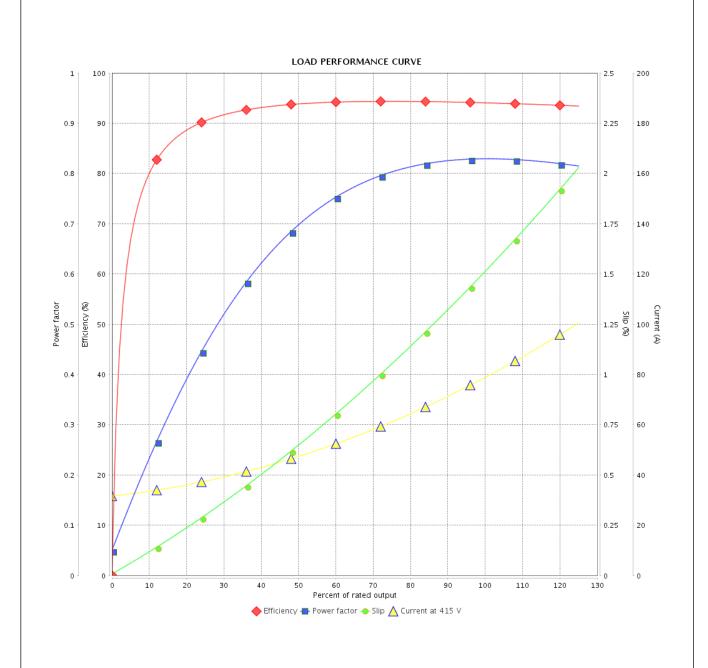


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431934

Phase

Catalog #: 06018ST3QIE364T-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 8	80.2 A Moment of		f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : 2	00 %	Service factor		: 1.00	
Breakdown torque : 229 9		29 %	Temperati	Temperature rise		
Rated speed	: 1	477 rpm	Design		: B	
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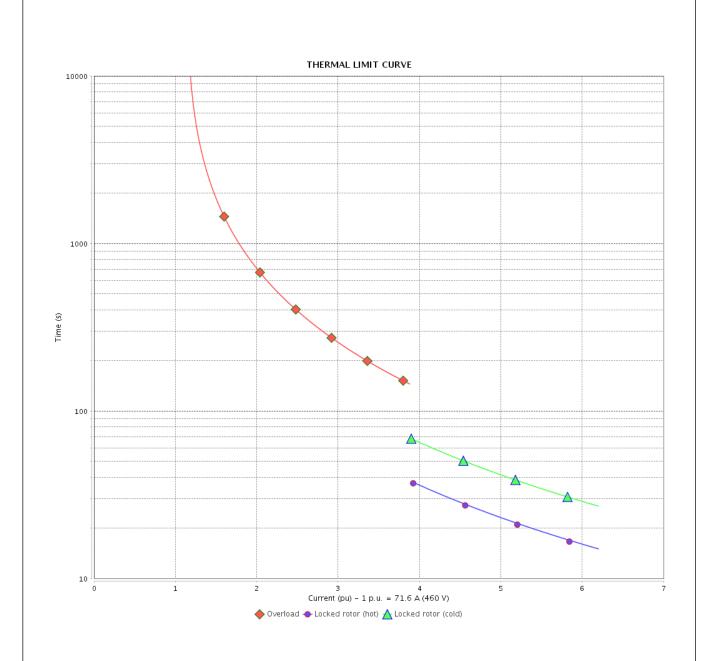


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431934 06018ST3QIE	364T-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 71.6 A : 6.2	Duty cycle		: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 177 ft.lb : 220 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 240 %	Temperat		: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ	Changes Summers		Performed	Checked	Date
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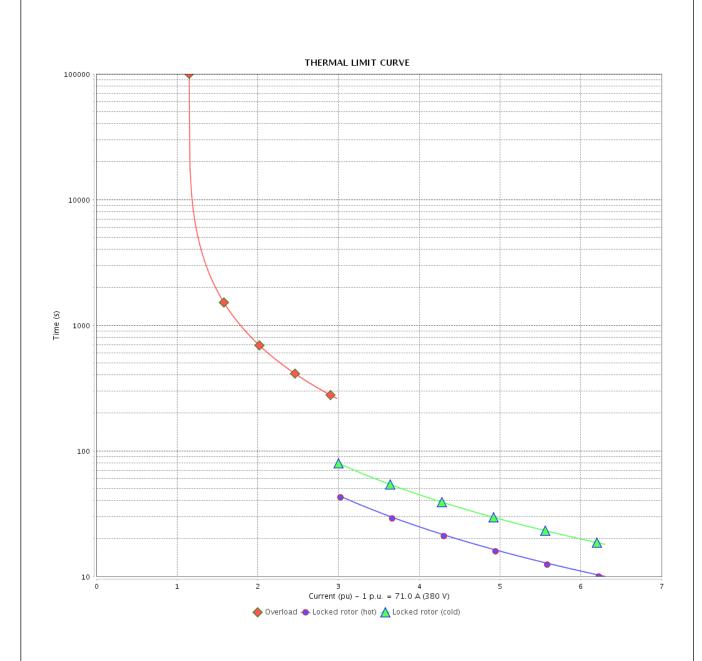


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431934 06018ST3QIE	:364T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 71.0 A : 6.3	Moment of Duty cycle	of inertia (J) e	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb : 200 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
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Cooling constan	t	Changes Cummers		Dorformed	Chaakad	Doto
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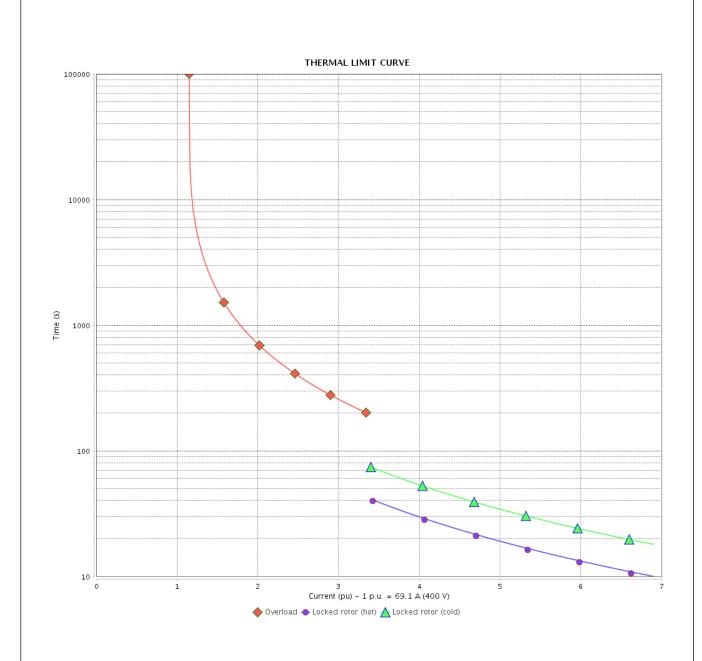


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431934 06018ST3QIE	364T-W22
Performance		: 400 V 50 Hz 4P IE3		6 1 (1) (1)		
Rated current LRC		: 69.1 A : 6.9	Duty cycle		: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Temperat		: 1.00 : 80 K	
Rated speed		: 1482 rpm	Design		: B	
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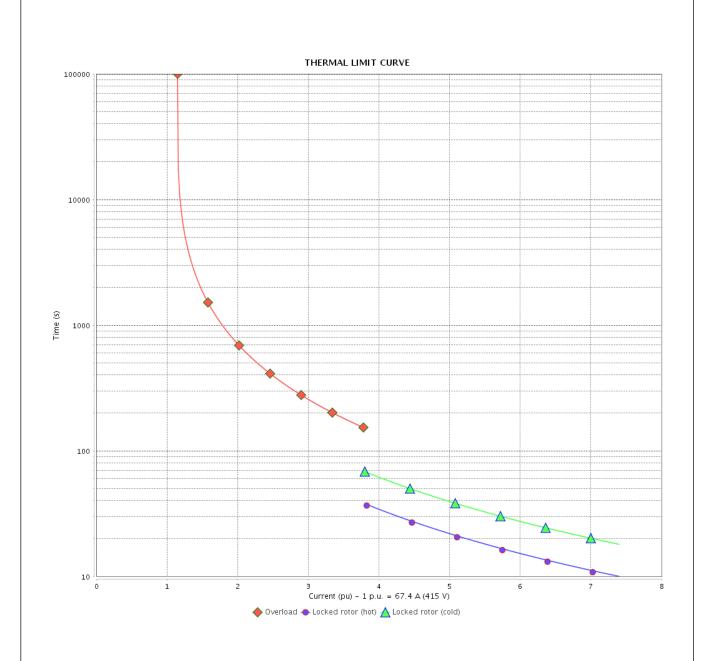


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Product line	. N	NEMA Premium Efficiency	Three-	Product code :	11431934	
1 Toddet line		hase				
				Catalog # :	06018ST3QIE	364T-W22
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current		7.4 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC Rated torque	: 7. : 17	4 77 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	jue : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		30 % 484 rpm	Temperatu Design	ıre rise	: 80 K : B	
		10 1 Ipili				
Heating constant						
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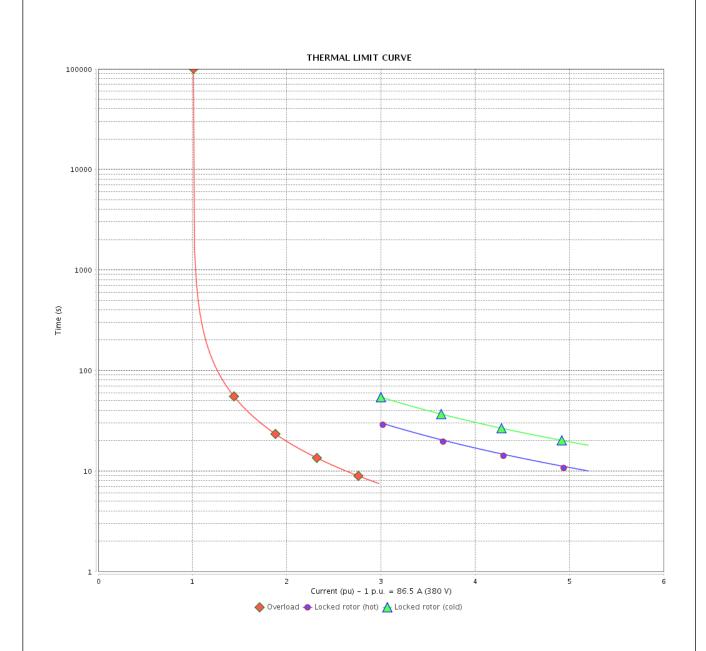


Customer	:					
Product line	: 1	NEMA Premium Efficiency hase	Three-	Product code :	11431934	
		11436		Catalog # :	06018ST3QI	E364T-W22
Performance Rated current		30 V 50 Hz 4P IE1 6.5 A	Moment	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5.	2	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torqu		14 ft.lb 60 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 20	00 %	Temperatu		: 105 K	
Rated speed	: 14	470 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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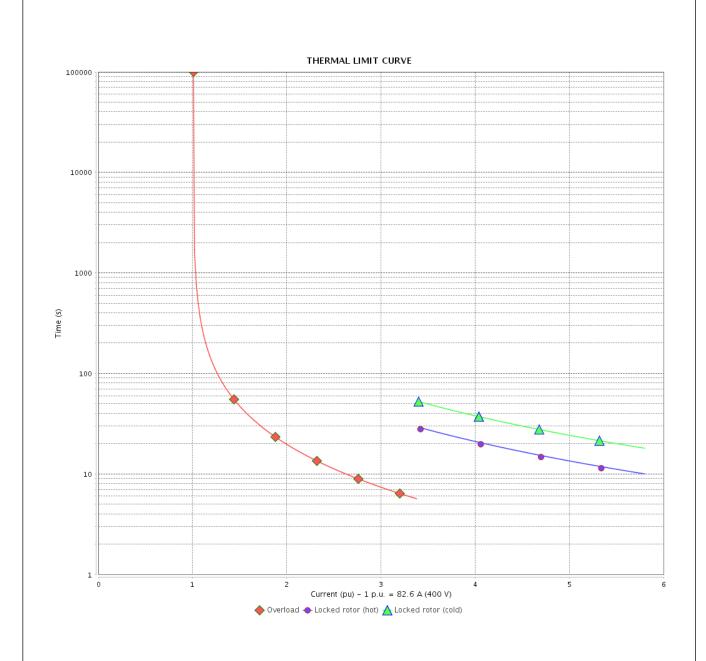


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11431934	
		Phase		Catalog # :	06018ST3QII	E364T-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	82.6 A 5.8 214 ft.lb 180 % 210 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant		•				
Cooling constant						
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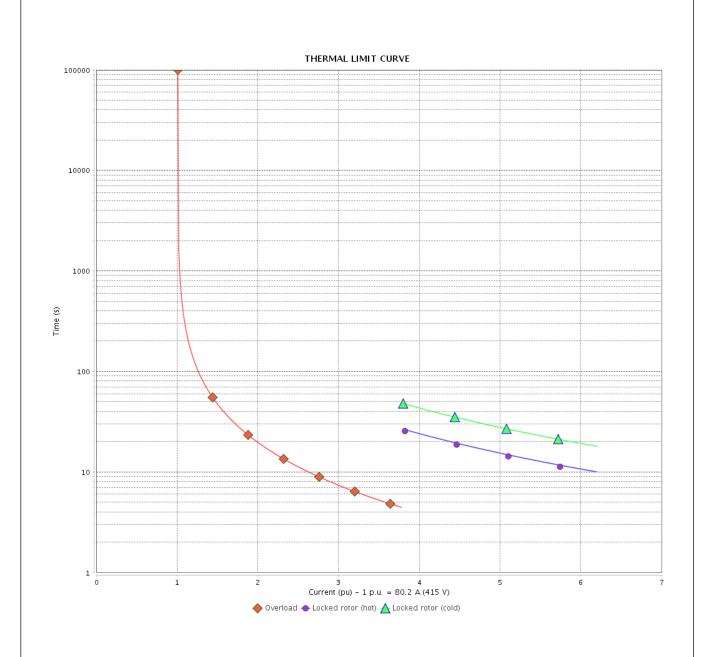


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11431934 06018ST3QII	E364T-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC	: 80.2 A : 6.2	Duty cycle	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque	: 213 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Locked rotor torque Breakdown torque Rated speed	: 200 % : 229 % : 1477 rpm	Temperatu Design		: 1.00 : 105 K : B	
Heating constant	. 1777 19111	Design			
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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12/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

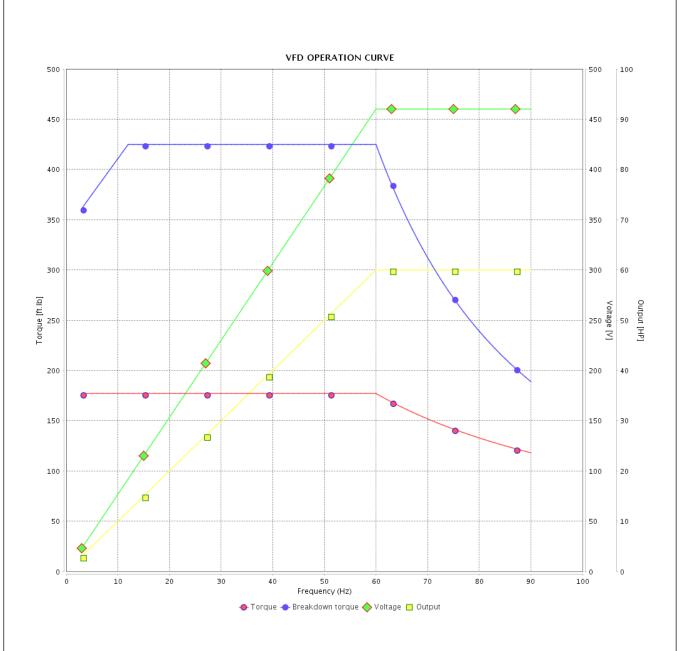
Product code: 11431934

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Performance : 460 V 60 Hz 4P : 71.6 A Rated current Moment of inertia (J) : 22.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 177 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



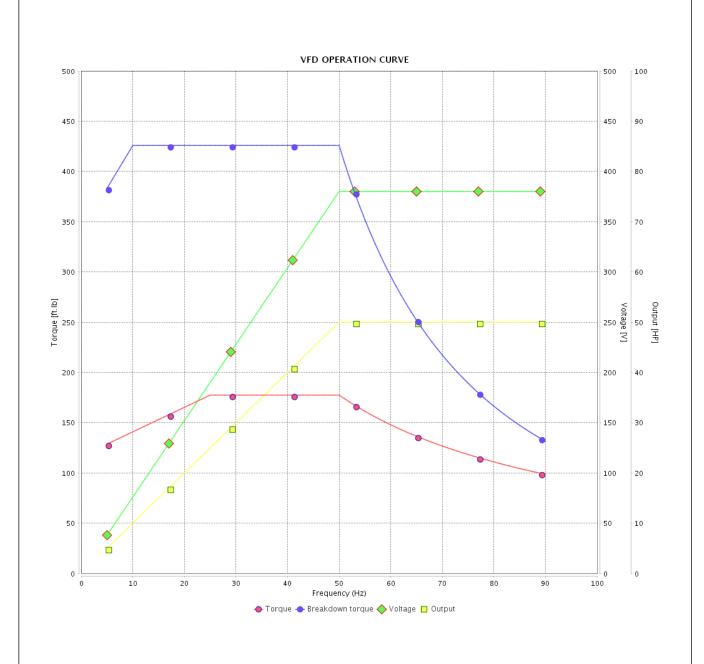
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Performance : 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.0 A : 6.3 : 177 ft.lb : 200 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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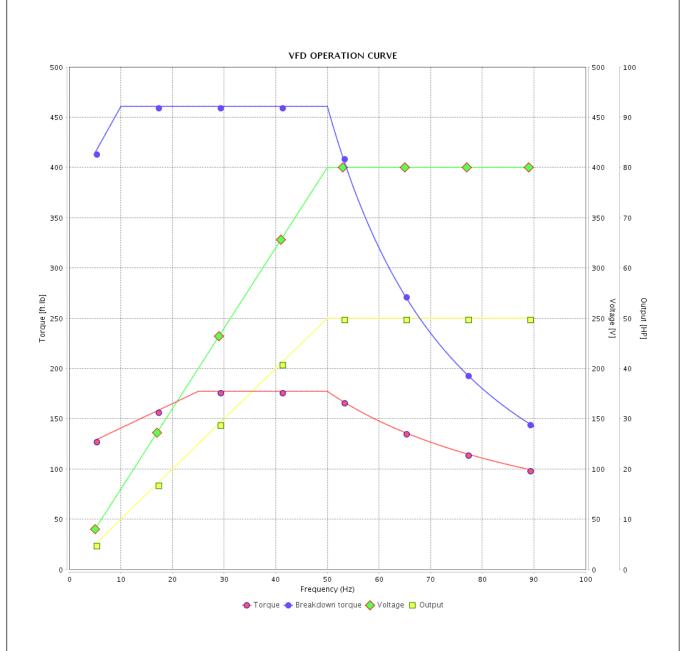
Product line : NEMA Premium Efficiency Three- Product

Phase

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Performance	: 400 V 50 Hz 4P IE3	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.1 A : 6.9 : 177 ft.lb : 220 % : 260 % : 1482 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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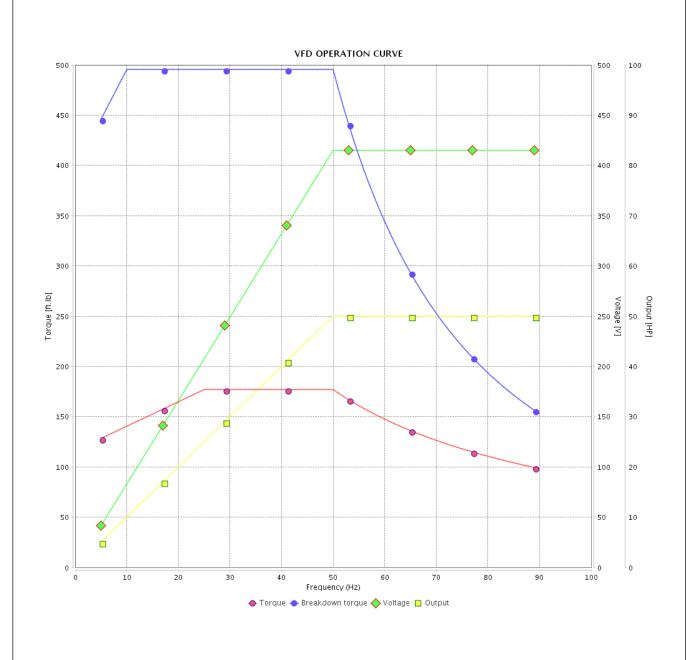


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Product line : NEMA Premium Efficiency Three- Product code : 11431934

Phase

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		7.4 A Moment of inertia (J) 4 Duty cycle 77 ft.lb Insulation class 10 % Service factor Temperature rise		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K		
Rated speed		484 rpm	Design		: B	
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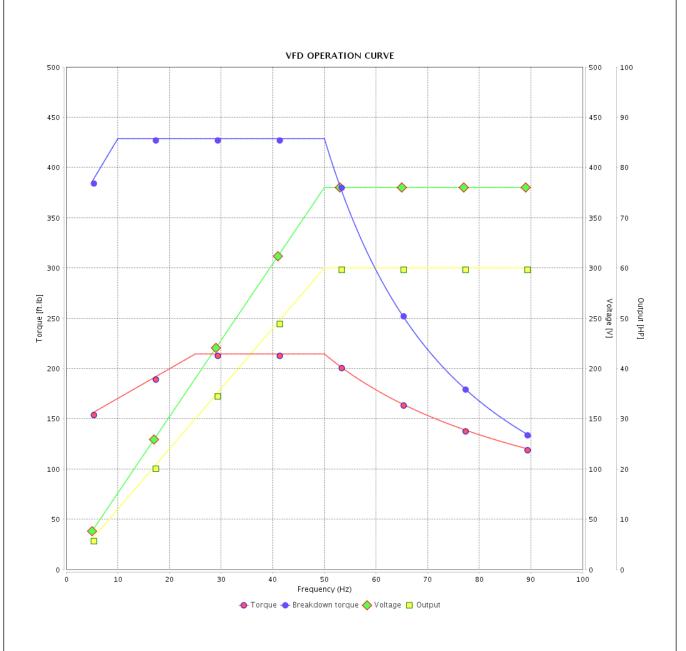
Product line : NEMA Premium Efficiency Three-

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Product code: 11431934

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Performance : 380 V 50 Hz 4P IE1 Rated current : 86.5 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.2 : 214 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

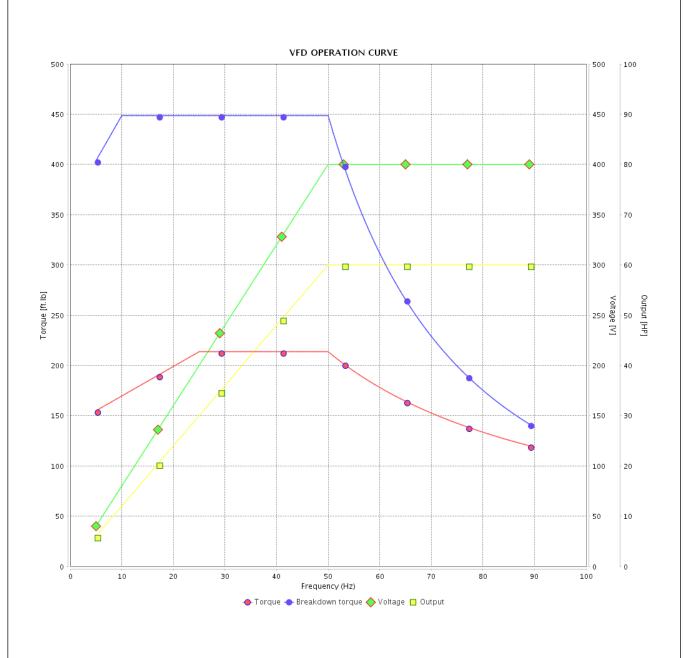


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Product line : NEMA Premium Efficiency Three- Product code : 11431934

Phase

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Performance	: 4	00 V 50 Hz 4P IE2				
		2.6 A Moment of inertia (J)		: 22.4 sq.ft.lb		
LRC	: 5	.8	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation		: F ` ´	
Locked rotor torque		80 %	Service factor		: 1.00	
Breakdown torque		10 %	Temperature rise		: 105 K : B	
Rated speed	: 14	475 rpm Design				
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Phase

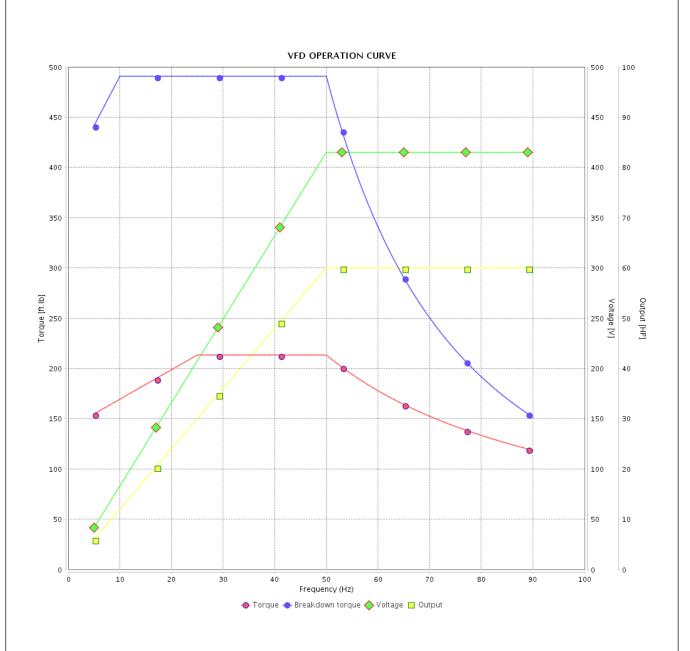
Product code: 11431934

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			·			
Performance : 415 V 50 Hz 4P IE2						
Rated current	: 80.2	A	Moment of inertia (J)		: 22.4 sq.ft.lb	
LRC	: 6.2		Duty cycle	;	: Cont.(S1)	
Rated torque	: 213 f	t.lb	Insulation	class	: F	
		%	Service factor		: 1.00	
Breakdown torque	: 229 9	%	Temperature rise		: 105 K	
Rated speed : 1477 rpm		rpm	Design		: B	
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