### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432095

Catalog #: 02036ST3QIE256T-W22

Frame : 254/6T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 306 lb

Protection degree : IP55 Moment of inertia (J) : 1.54 sq.ft.lb

Design	5	: B		IVIOITIEI	it of intertia (3)	. 1	.54 Sq.11.1b	
Output [HP]		20	15	15	15	20	20	20
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		23.2	20.4	19.6	19.1	28.6	27.2	26.0
L. R. Amperes [A]		142	141	151	155	146	155	159
LRC [A]		6.1x(Code	6.9x(Code	7.7x(Code H)	8.1x(Code J)	5.1x(Code E)	5.7x(Code F)	6.1x(Code
		G)	G)					G)
No load current [A	]	6.50	6.40	6.85	7.15	6.40	6.85	7.15
Rated speed [RPN	1]	3520	2925	2935	2940	2895	2905	2915
Slip [%]		2.22	2.50	2.17	2.00	3.50	3.17	2.83
Rated torque [ft.lb]		29.8	26.9	26.8	26.8	36.3	36.2	36.0
Locked rotor torqu	e [%]	200	220	240	270	160	180	200
Breakdown torque	[%]	240	260	280	310	190	210	229
Service factor		1.25	1.15	1.15	1.15	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		37s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)
		21s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)
Noise level <sup>2</sup>		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%							
Efficiency (%)	50%	91.0	90.6	90.4	89.8	91.0	91.0	91.0
Liliciency (70)	75%	91.7	90.9	91.2	91.1	90.2	91.0	91.0
	100%	91.0	91.2	91.2	91.2	88.5	89.5	90.2
	25%							
Power Factor	50%	0.82	0.78	0.75	0.73	0.86	0.84	0.82
FUWEI FACIOI	75%	0.87	0.87	0.85	0.84	0.89	0.88	0.87
	100%	0.89	0.90	0.89	0.88	0.90	0.89	0.89

Drive end Non drive end Foundation loads

19000 h

Bearing type 6309 C3 6209 C3 Max. traction : 244 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 550 lb

20000 h

Lubricant amount 13 g 9 g Mobil Polyrex EM Lubricant type

Notes

Lubrication interval

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



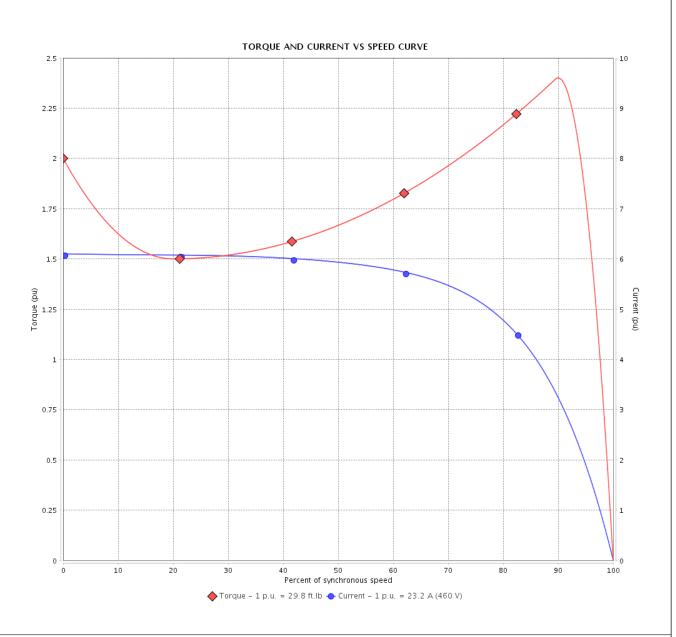
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11432095

Catalog #: 02036ST3QIE256T-W22



Performance : 460 V 60 Hz 2P Rated current : 23.2 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11432095 Catalog #: 02036ST3QIE256T-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. = 26.9 ft.lb ◆ Current - 1 p.u. = 20.4 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 20.4 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.9 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Date Performed Checked Rev. **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage

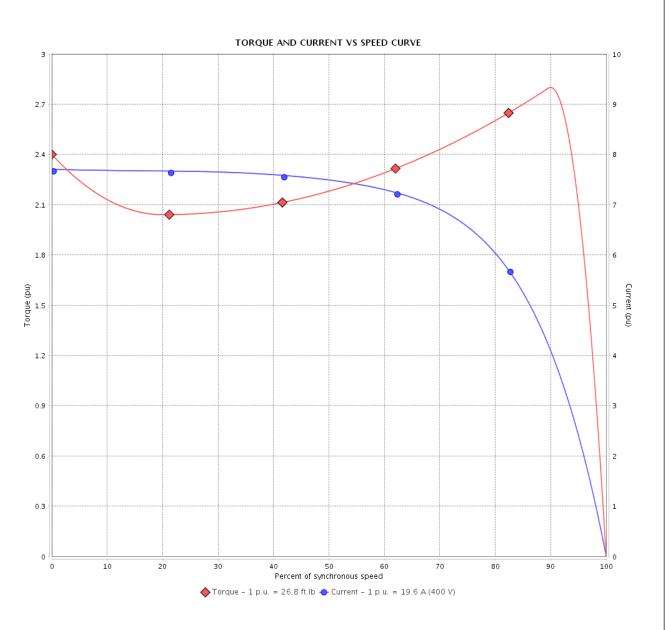


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432095

Phase

Catalog # : 02036ST3QIE256T-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.6 A : 7.7 : 26.8 ft.lb : 240 % : 280 % : 2935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 28s (cold) 16s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11432095 Catalog #: 02036ST3QIE256T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.8 ft.lb ◆ Current - 1 p.u. = 19.1 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 19.1 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F : 270 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Rev. Performed Checked Date **Changes Summary** 

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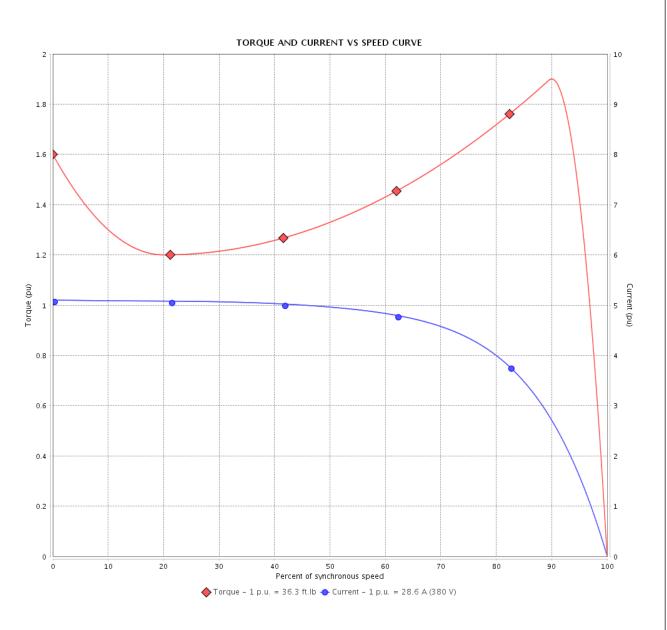
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432095

Catalog #: 02036ST3QIE256T-W22



Performance : 380 V 50 Hz 2P Rated current : 28.6 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.3 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2895 rpm Design : B Locked rotor time

: 28s (cold) 16s (hot)

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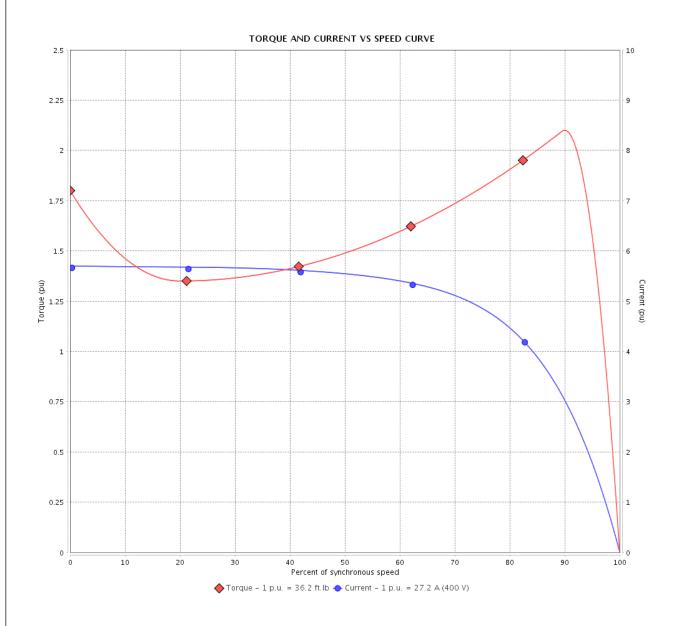
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432095

Catalog #: 02036ST3QIE256T-W22



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 27.2 A	Moment of inertia (J)	: 1.54 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 36.2 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2905 rpm	Design	: B
Locked rotor time	· 28s (cold) 16s (hot)		

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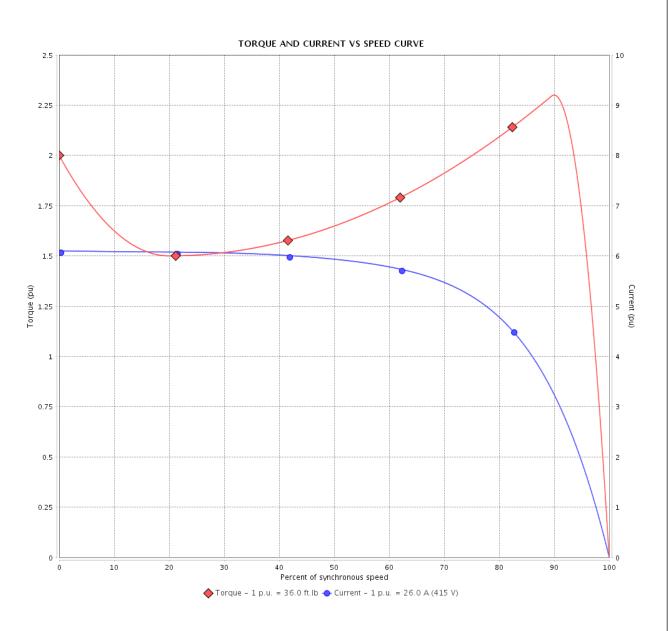
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11432095

Catalog #: 02036ST3QIE256T-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 26.0 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2915 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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Product line : NEMA Premium Efficiency Three- Product code : 11432095

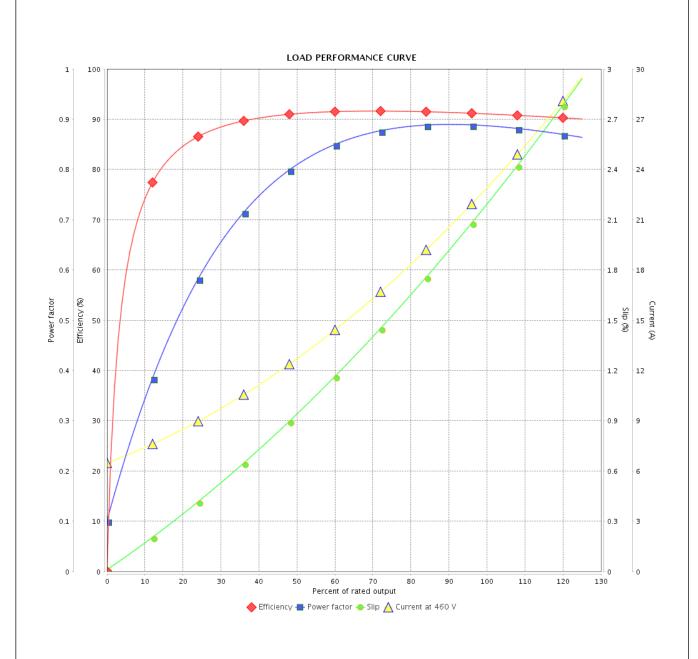
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	·					
Performance	: 4	160 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2 ie : 2	23.2 A 5.1 29.8 ft.lb 200 % 240 % 8520 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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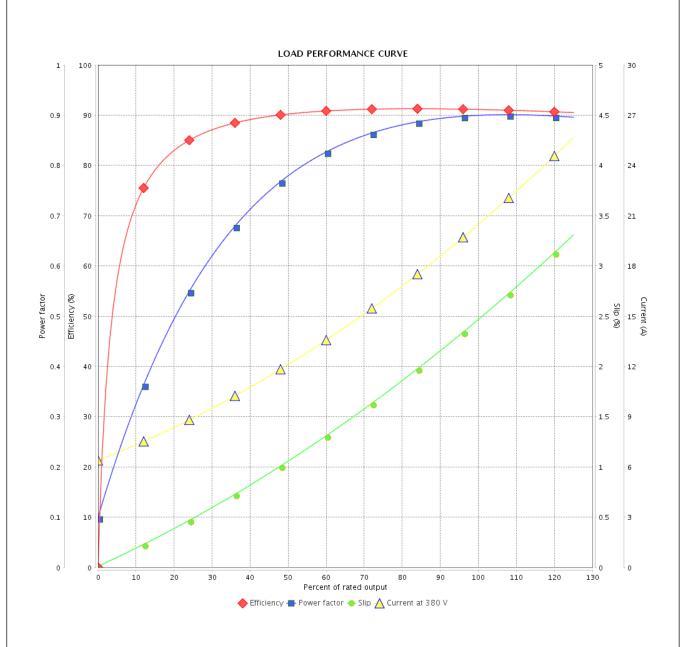
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432095

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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.4 A : 6.9 : 26.9 ft.lb : 220 % : 260 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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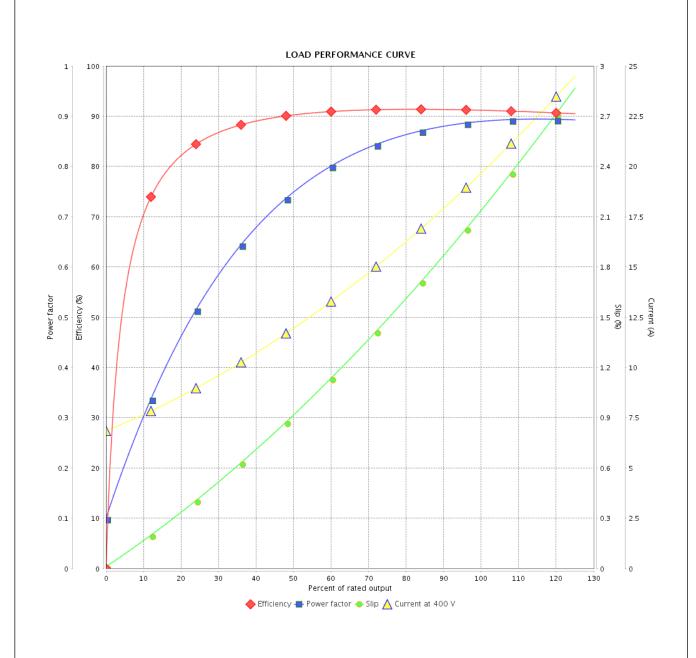
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432095

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.6 A : 7.7 : 26.8 ft.lb : 240 % : 280 % : 2935 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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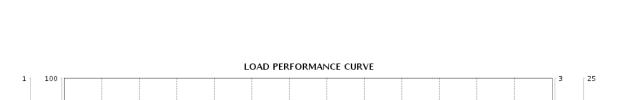
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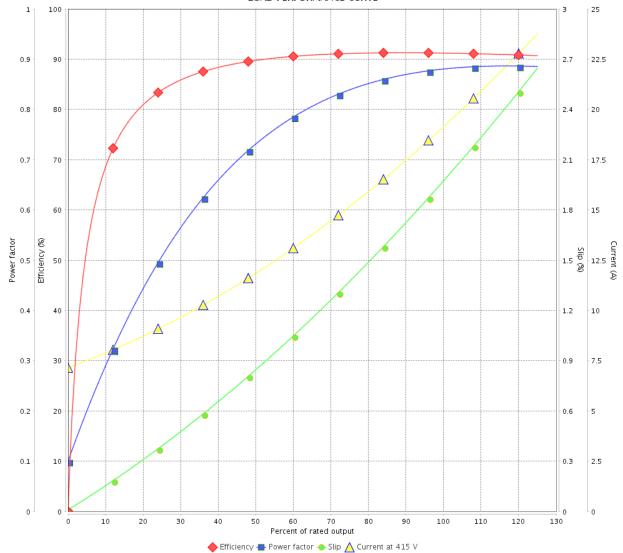
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Performance		: 415 V 50 Hz 2P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 19.1 A : 8.1 : 26.8 ft.lb : 270 % : 310 % : 2940 rpm	Duty cy Insulati Service	on class factor rature rise	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

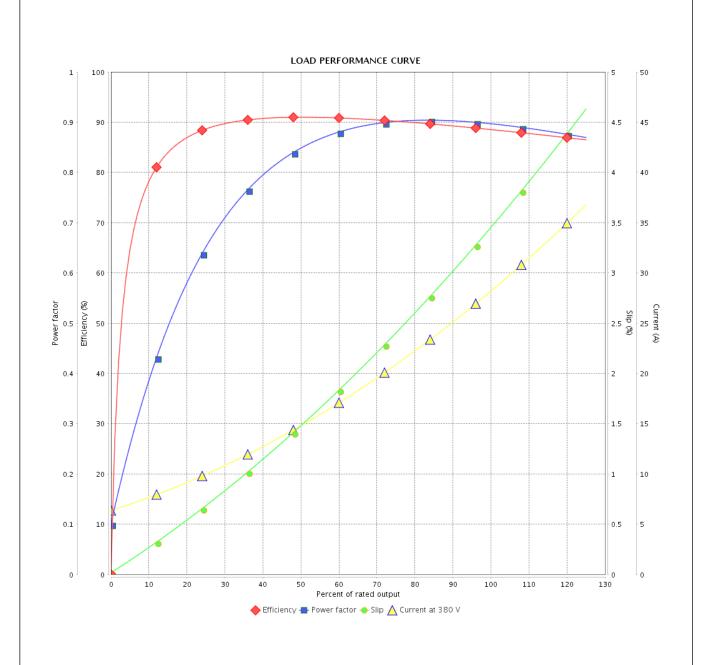


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432095

Phase

Catalog #: 02036ST3QIE256T-W22



Performance		: 380 V 50 Hz 2P						
Rated current		: 28.6 A	Moment of	Moment of inertia (J)		nent of inertia (J) : 1.54 sq.ft.lb		ı
LRC		: 5.1	Duty cycl	Duty cycle		Duty cycle : Cont.(S1)		
Rated torque : 36.3		: 36.3 ft.lb	Insulation	Insulation class		: F		
Locked rotor tord	·		Service fa	Service factor				
Breakdown torqu	ue	: 190 %	Temperat	ure rise	: 105 K			
Rated speed		: 2895 rpm	Design		: B			
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Phase

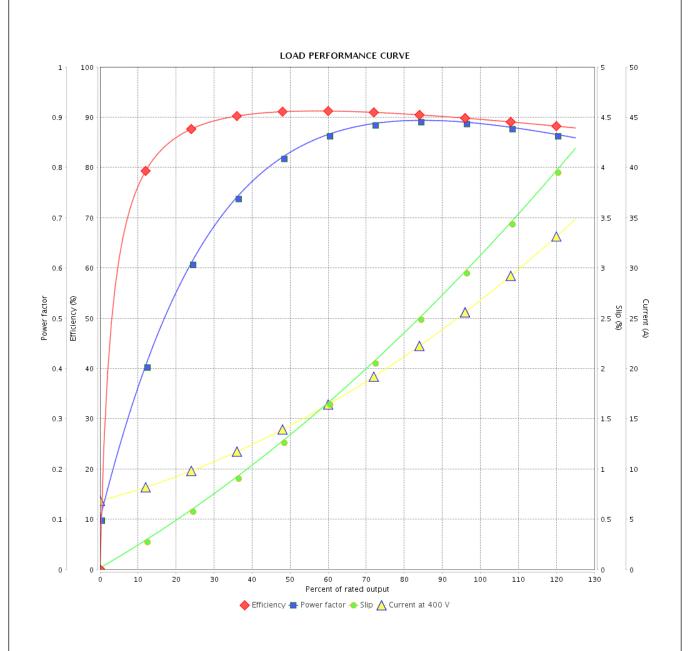
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Performance	: 4	00 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 3 que : 1 ue : 2	7.2 A .7 6.2 ft.lb 80 % 10 % 905 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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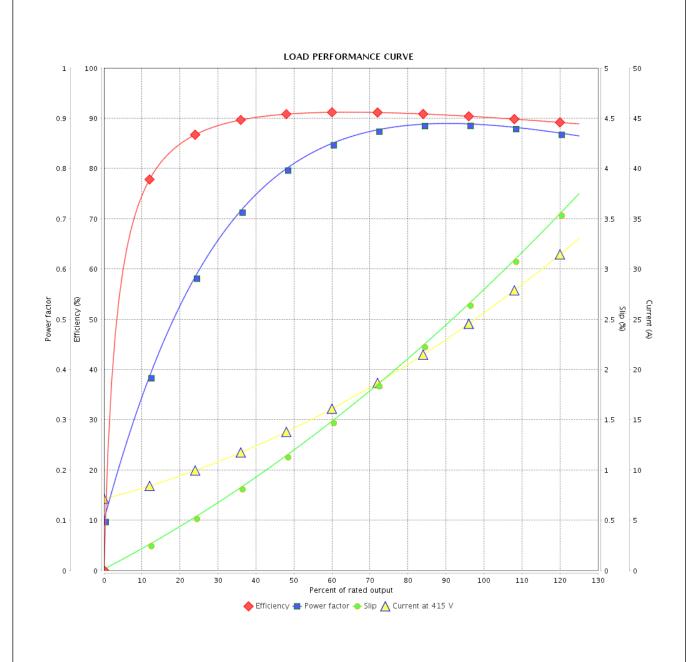
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.0 A : 6.1 : 36.0 ft.lb : 200 % : 229 % : 2915 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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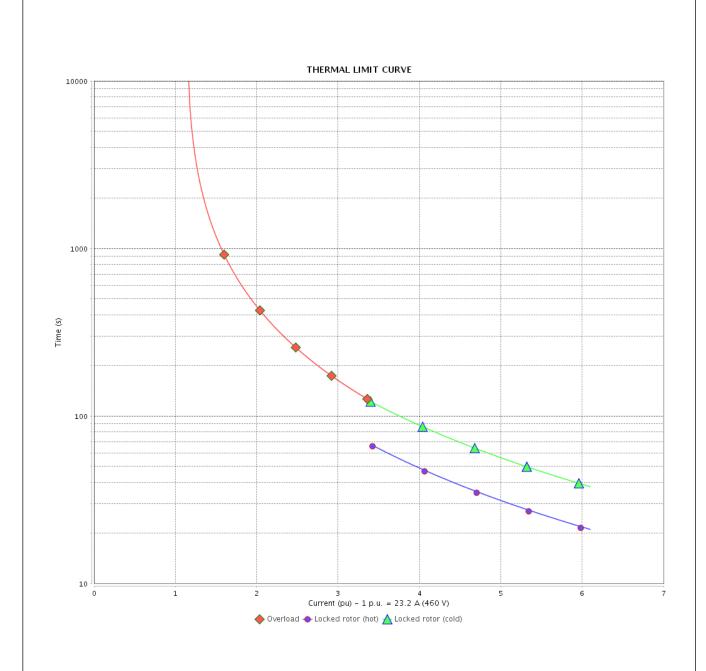


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11432095	
	i ilasc		Catalog # :	02036ST3QI	E256T-W22
Domformono	. 400 V 00 H= 2D				
Performance Rated current	: 460 V 60 Hz 2P : 23.2 A	Moment o	of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6.1	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque	: 29.8 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 240 %	Temperati		: 80 K	
Rated speed	: 3520 rpm	Design		: B	
Heating constant					
Cooling constant  Rev.	Changes Summary	<u> </u>	Performed	Checked	Date
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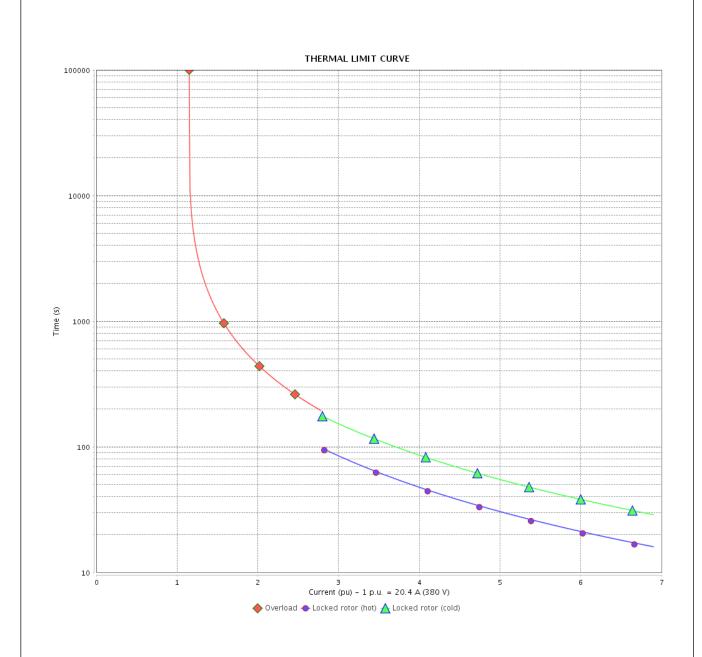


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432095 02036ST3QIE	256T-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 20.4 A : 6.9 : 26.9 ft.lb	Duty cycle Insulation	class	: 1.54 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	ue	: 220 % : 260 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 2925 rpm	Design		: B	
Heating constant Cooling constant						
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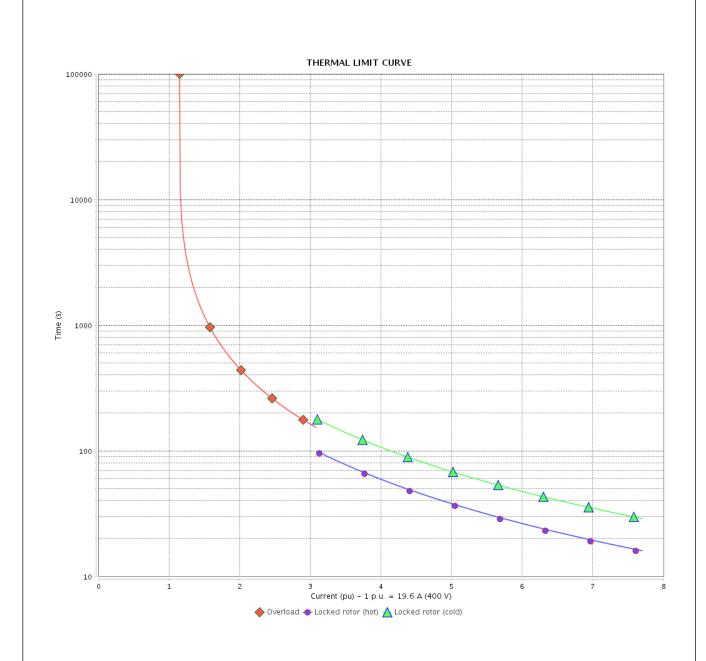


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Product line		NEMA Premium Efficiency	Three-	Product code :	11432095	
	P	hase	,	Catalog # :	02036ST3QIE	256T-W22
Performance	· 40	00 V 50 Hz 2P IE3				
Rated current		9.6 A	Moment o	f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 7.	7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque		6.8 ft.lb 40 %	Insulation Service fa		: F : 1.15	
Breakdown torque	e : 28	30 %	Temperatu		: 80 K	
Rated speed	: 29	935 rpm	Design		: B	
Heating constant						
Cooling constant		01 0		D , .		B :
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### Three Phase Induction Motor - Squirrel Cage



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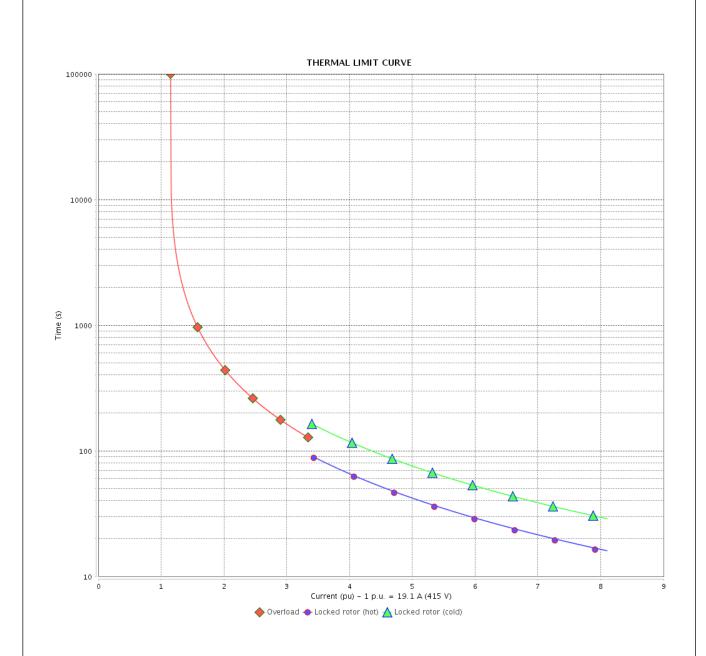


Customer	:					
Product line		NEMA Premium Efficiency nase		Product code :	11432095 02036ST3QIE	:256T-W22
Performance	. 11	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19 : 8. : 26 : 27 : 3	9.1 A	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.54 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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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

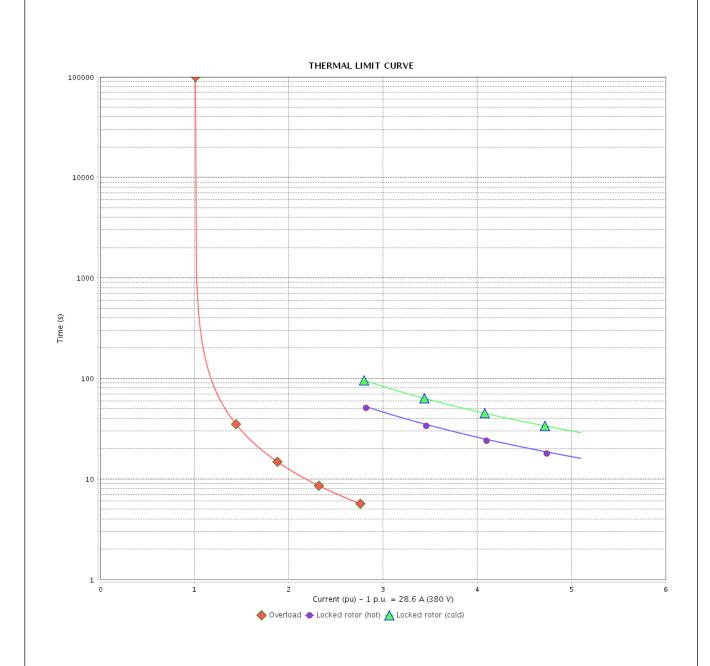


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432095 02036ST3QIE	:256T-W22
Performance		: 380 V 50 Hz 2P		<b></b>		
Rated current LRC		: 28.6 A : 5.1	Duty cycle		: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 36.3 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 190 % : 190 %	Temperat		: 105 K	
Rated speed		: 2895 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summers		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

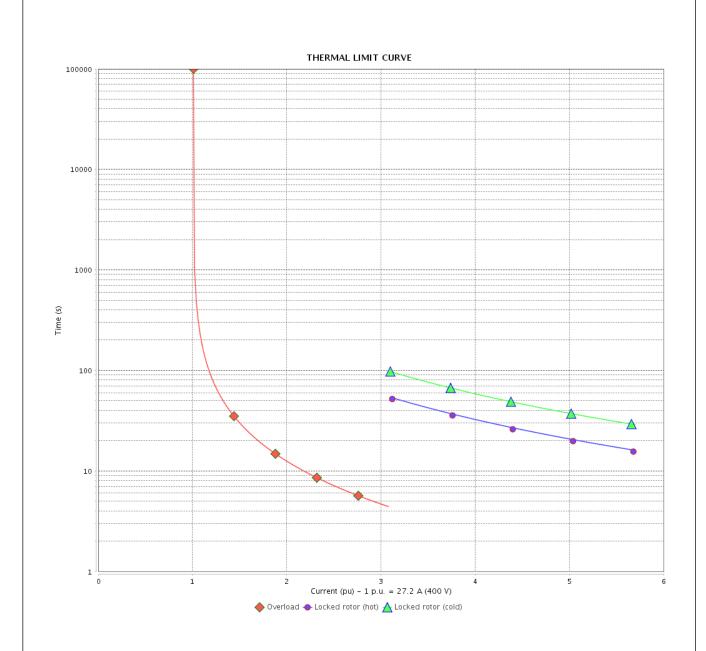


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11432095 02036ST3QI	E256T-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : : : : : : : :	400 V 50 Hz 2P IE1 27.2 A 5.7 36.2 ft.lb 180 % 210 % 2905 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

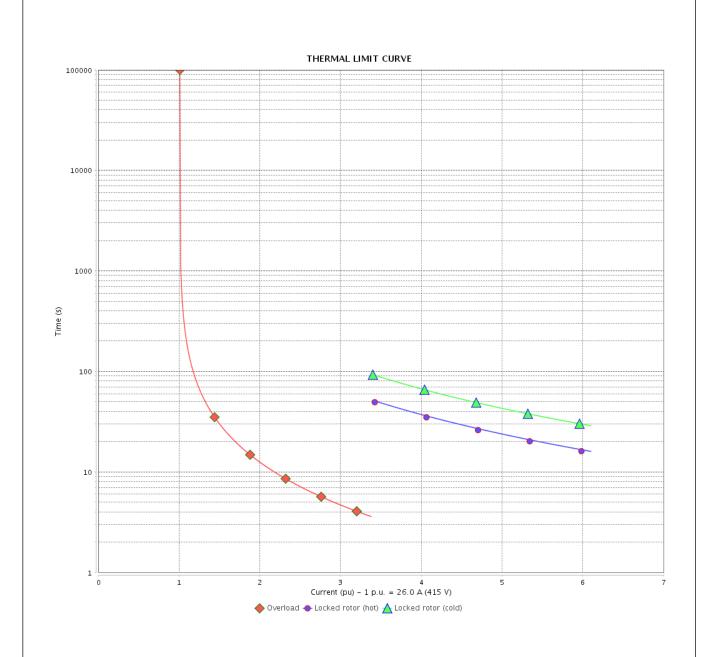


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	P	nase		Catalog # :	02036ST3QIE	256T-W22
Performance		15 V 50 Hz 2P IE1	T			
Rated current LRC	: 26 : 6.	6.0 A 1	Moment of Duty cycle	f inertia (J)	: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 36	6.0 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 29 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		915 rpm	Design		: B	
Heating constant						
Cooling constant		01 0				
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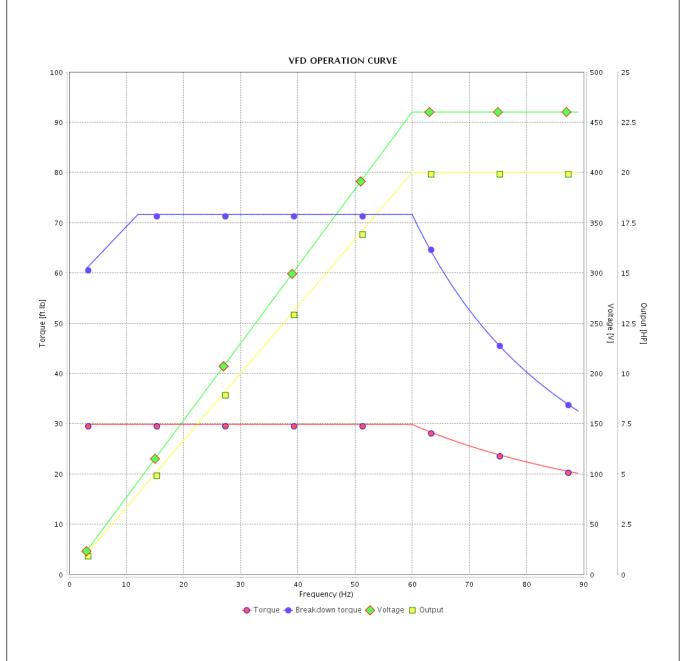
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11432095

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 23.2 A : 6.1 : 29.8 ft.lb : 200 % : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 3520 rpm	Design		: B	
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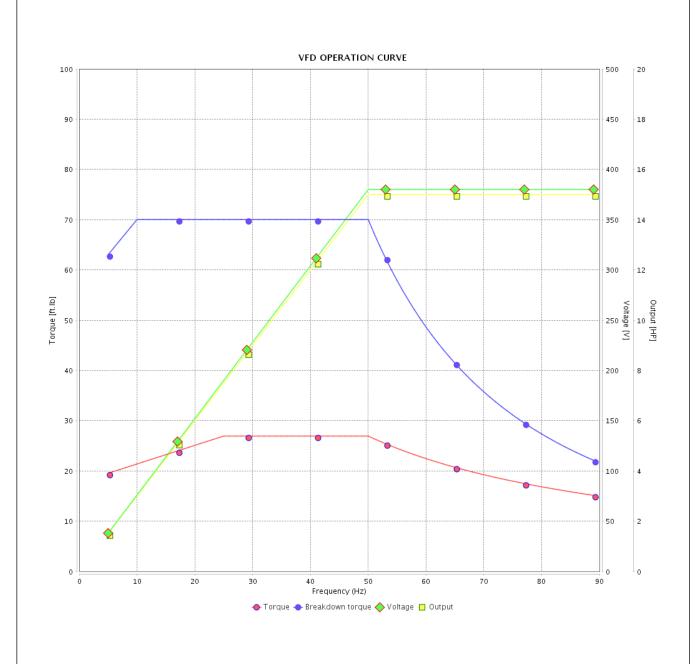
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432095

Catalog #: 02036ST3QIE256T-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 20.4 A Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 26.9 ft.lb Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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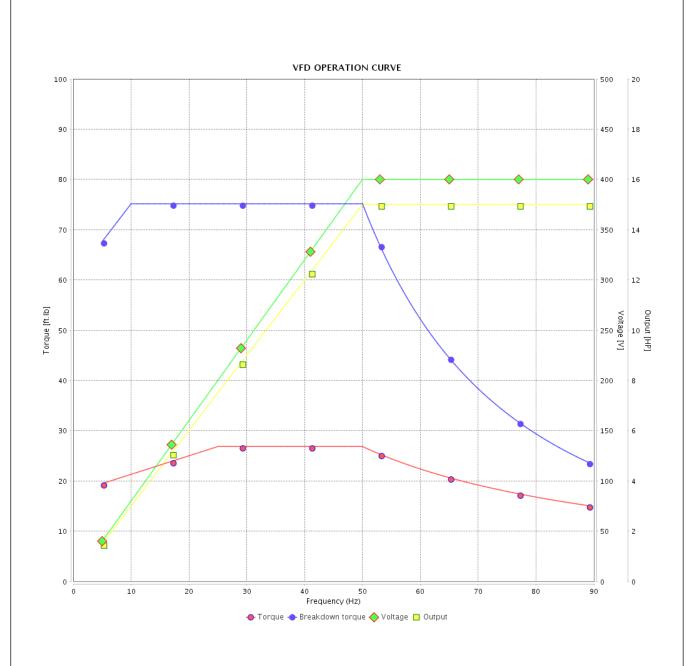
14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 02036ST3QIE256T-W22

11432095



Performance : 400 V 50 Hz 2P IE3 : 19.6 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class : 26.8 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



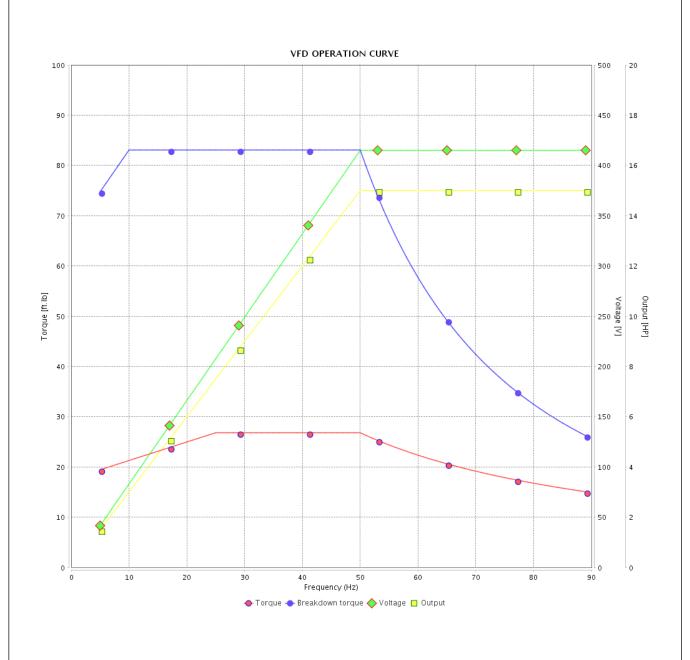
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ST3QIE256T-W22

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Performance	: 4	415 V 50 Hz 2P IE3				
Rated current	: '	: 19.1 A Moment of		f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 8	3.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	26.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	270 %	Service fa	ctor	: 1.15	
Breakdown torque	: :	310 %	Temperature rise		: 80 K	
Rated speed	: 2	2940 rpm	Design		: B	
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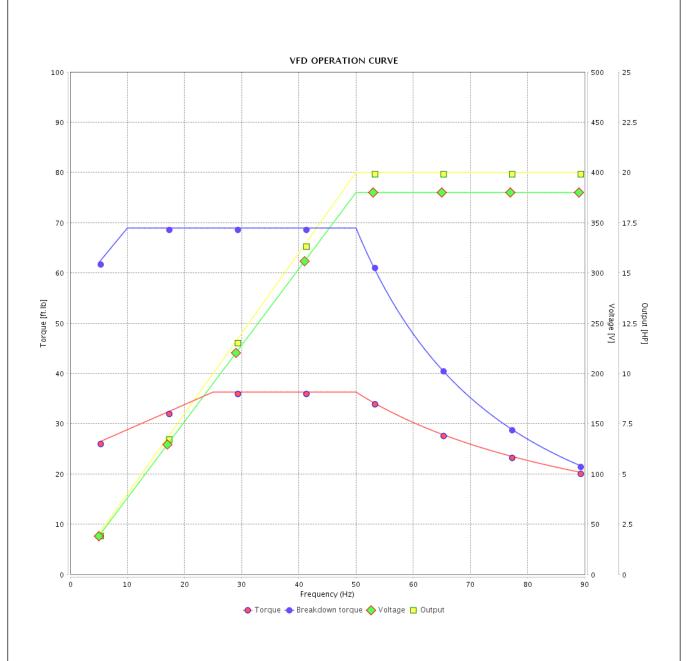


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Product line : NEMA Premium Efficiency Three-Product code:

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Performance	: 38	80 V 50 Hz 2P				
Rated current		: 28.6 A M		f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 5.	.1	Duty cycle	•	: Cont.(S1)	
Rated torque	: 36	6.3 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 16	60 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 19	90 %	% Temperature rise		: 105 K	
Rated speed	: 28	895 rpm	Design		: B	
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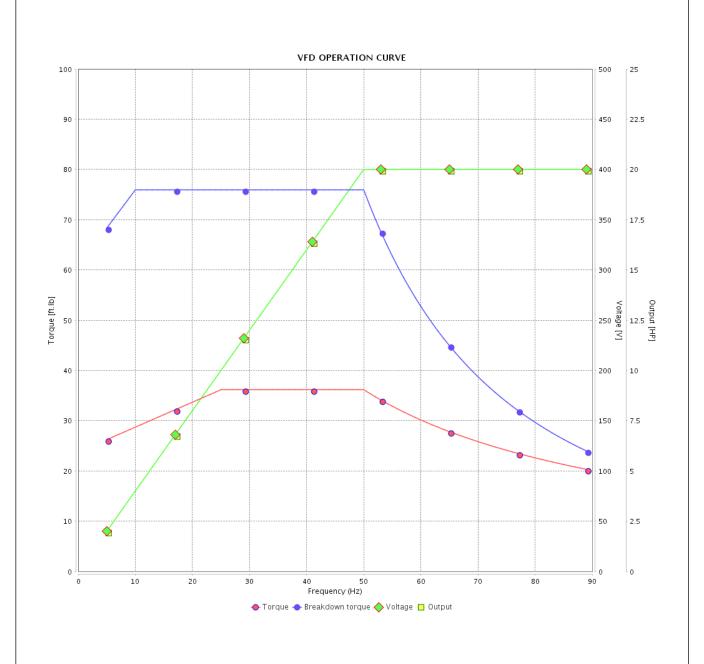
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ST3QIE256T-W22

11432095



Performance	: 4	00 V 50 Hz 2P IE1				
Rated current	: 2	: 27.2 A Moment		f inertia (J)	: 1.54 sq.ft.lb	
LRC	: 5	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	6.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	10 %	Temperature rise		: 105 K	
Rated speed	: 2	905 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product of

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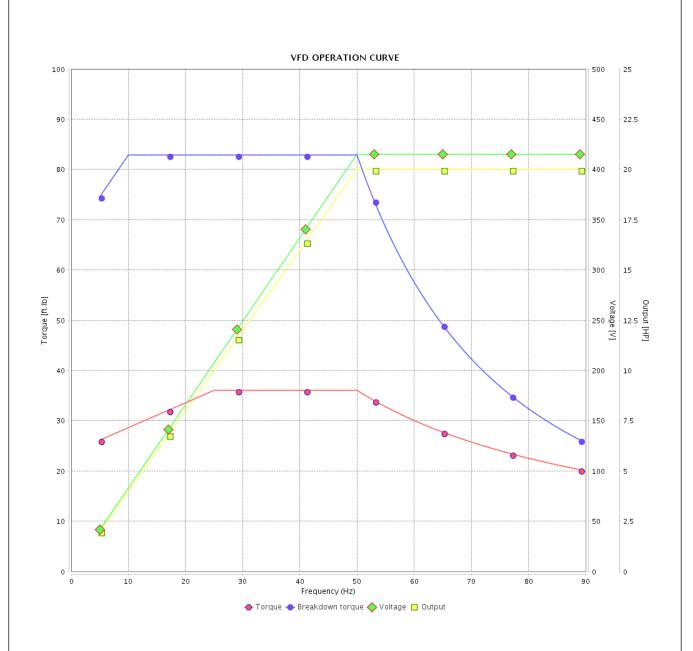
Product code: 11432095

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Performance : 415 V 50 Hz 2P IE1 : 26.0 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2915 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

