DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11448468

Phase

Catalog #: 00709ST3QIE256T-W22

Frame : 254/6T 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 : 302 lb

/ tititude		. 1000 111.4.	J.I.	/ \ppiox	. weigin	. 0	02 10	
Protection degree	е	: IP55		Momer	nt of inertia (J)	: 4	.43 sq.ft.lb	
Design		: B						
Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]		11.1	10.4	10.5	10.4	13.1	12.5	12.4
L. R. Amperes [A]		58.8	56.1	58.7	62.5	56.3	58.7	62.0
LRC [A]		5.3x(Code	5.4x(Code H)	5.6x(Code J)	6.0x(Code K)	4.3x(Code E)	4.7x(Code F)	5.0x(Code
		Ġ)	,	, ,	,	,		Ġ)
No load current [A]]	6.50	6.40	6.90	7.30	6.40	6.90	7.30
Rated speed [RPM	1]	880	730	730	735	720	725	730
Slip [%]		2.22	2.67	2.67	2.00	4.00	3.33	2.67
Rated torque [ft.lb]		44.8	39.6	39.6	39.3	54.7	54.3	54.0
Locked rotor torque [%]		200	210	229	260	150	170	190
Breakdown torque	[%]	250	260	290	320	190	210	229
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		59s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)
		33s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)
Noise level ²		54.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)
	25%							
Efficiency (%)	50%	85.5	84.1	81.6	81.4	85.5	84.0	84.0
Lindicitoy (70)	75%	87.5	85.7	84.5	84.5	85.5	85.5	85.5
	100%	87.5	85.5	85.5	85.5	84.0	85.5	85.5
	25%							·
Power Factor	50%	0.50	0.47	0.44	0.42	0.57	0.53	0.51
1 OWELL ACTO	75%	0.63	0.60	0.56	0.54	0.69	0.66	0.64
	100%	0.71	0.69	0.65	0.63	0.76	0.74	0.72

<u>Drive end</u> <u>Non drive end</u> Foundation loads aring type : 6309 C3 6209 C3 Max traction

Bearing type : 6309 C3 6209 C3 | Max. traction : 444 lb Sealing : Inpro/Seal Inpro/Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 13 g 9 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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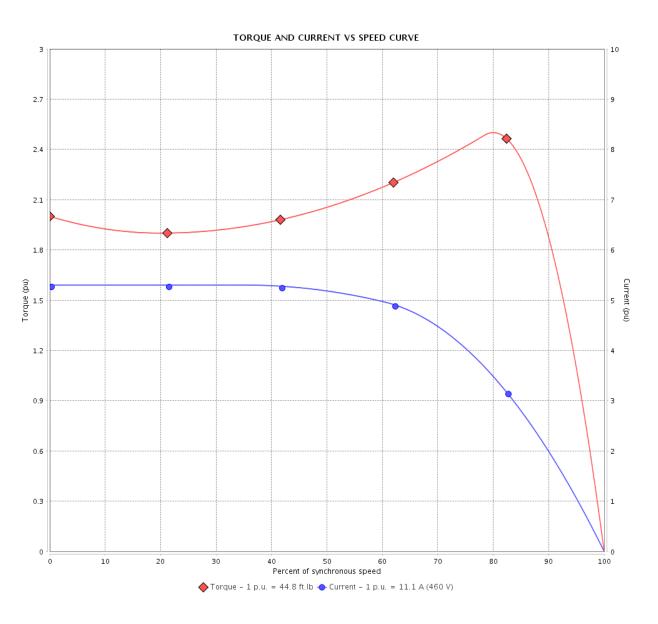
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11448468

Catalog #: 00709ST3QIE256T-W22



Performance	: 460 V 60 Hz 8P			
Rated current	: 11.1 A	Moment of inertia (J)	: 4.43 sq.ft.lb	
LRC	: 5.3	Duty cycle	: Cont.(S1)	
Rated torque	: 44.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 880 rpm	Design	: B	

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11448468 Catalog #: 00709ST3QIE256T-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. = 39.6 ft.lb ◆ Current - 1 p.u. = 10.4 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 10.4 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 39.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 730 rpm Design : B Locked rotor time : 45s (cold) 25s (hot) Rev. Performed Checked Date **Changes Summary**

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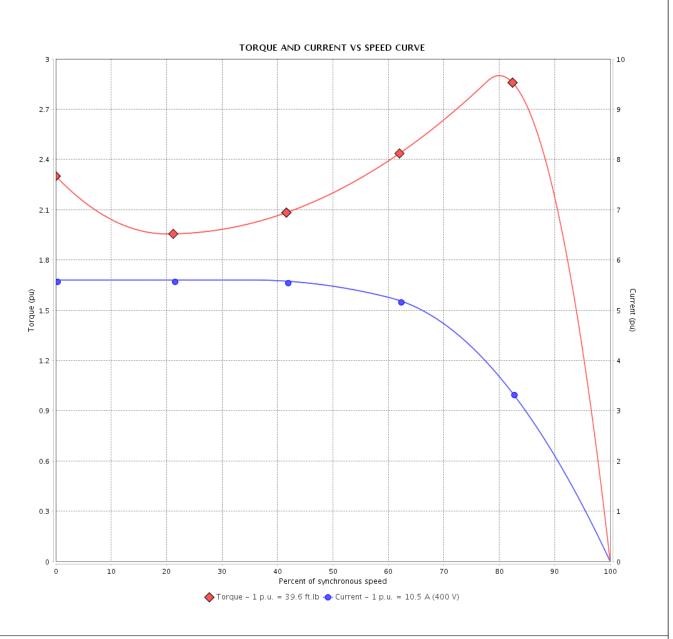
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11448468

Catalog #: 00709ST3QIE256T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 10.5 A	Moment of inertia (J) Duty cycle Insulation class	: 4.43 sq.ft.lb
LRC	: 5.6		: Cont.(S1)
Rated torque	: 39.6 ft.lb		: F
Locked rotor torque	: 229 %	Service factor Temperature rise Design	: 1.15
Breakdown torque	: 290 %		: 80 K
Rated speed	: 730 rpm		: B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11448468 Catalog #: 00709ST3QIE256T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 39.3 ft.lb ◆ Current - 1 p.u. = 10.4 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 10.4 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 39.3 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 735 rpm Design : B Locked rotor time : 45s (cold) 25s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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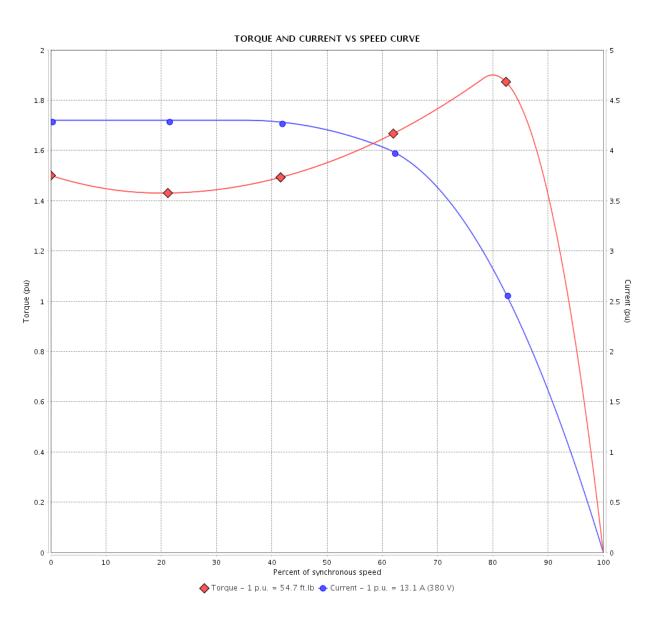
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11448468

Catalog #: 00709ST3QIE256T-W22



Performance	: 380 V 50 Hz 8P IE2		
Rated current	: 13.1 A	Moment of inertia (J)	: 4.43 sq.ft.lb
LRC	: 4.3	Duty cycle	: Cont.(S1)
Rated torque	: 54.7 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B
Locked rotor time	: 45s (cold) 25s (hot)		

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11448468 Catalog #: 00709ST3QIE256T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 4.5 3.5 1.75 1.5 (pd) 1.25 Current 2.5 0.5 0.25 0.5

Performance : 400 V 50 Hz 8P IE2 Rated current : 12.5 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.3 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 725 rpm Design : B

Percent of synchronous speed

◆ Torque – 1 p.u. = 54.3 ft.lb ◆ Current – 1 p.u. = 12.5 A (400 V)

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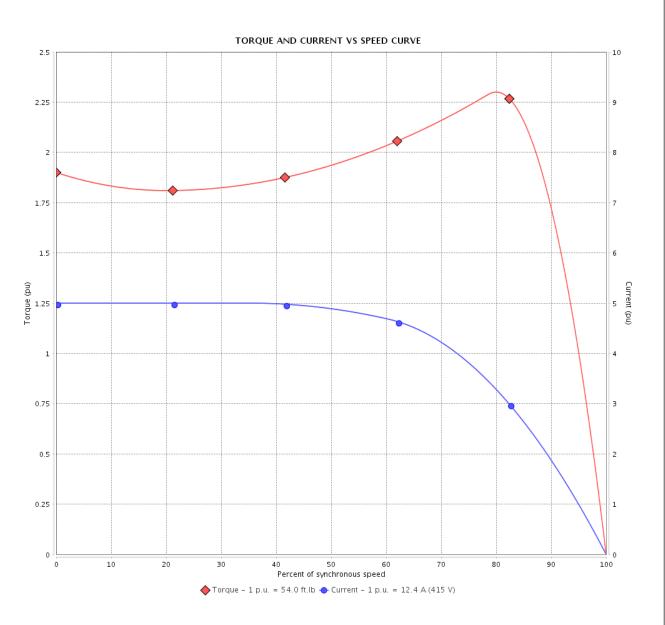
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11448468

Catalog #: 00709ST3QIE256T-W22



Performance : 415 V 50 Hz 8P IE2 Rated current : 12.4 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 54.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 730 rpm Design : B

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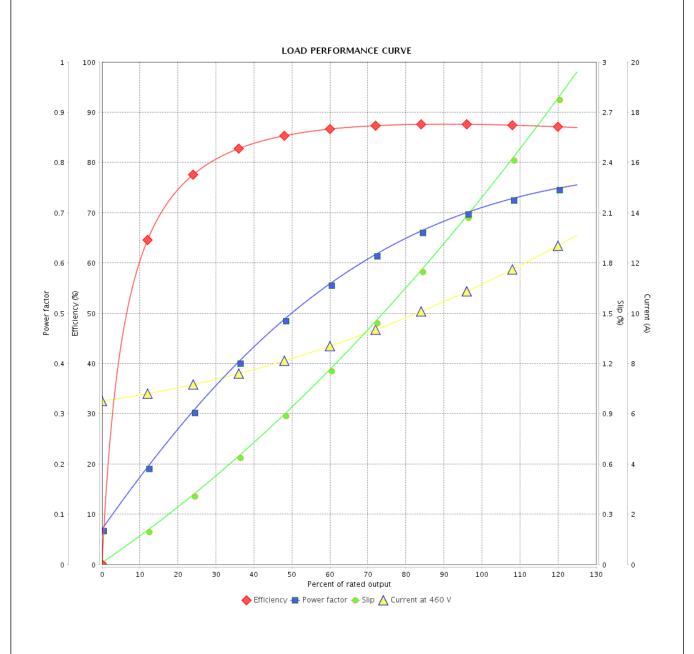
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11448468

Phase

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Performance	: 460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.1 A : 5.3 : 44.8 ft.lb : 200 % : 250 % : 880 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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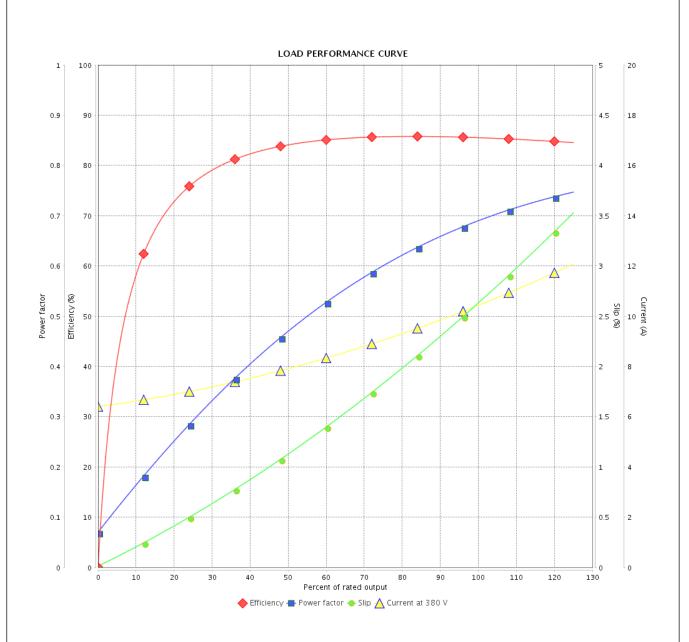
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00709ST3QIE256T-W22

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Performance : 380 V 50 Hz 8P IE3 : 10.4 A Rated current Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 39.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 730 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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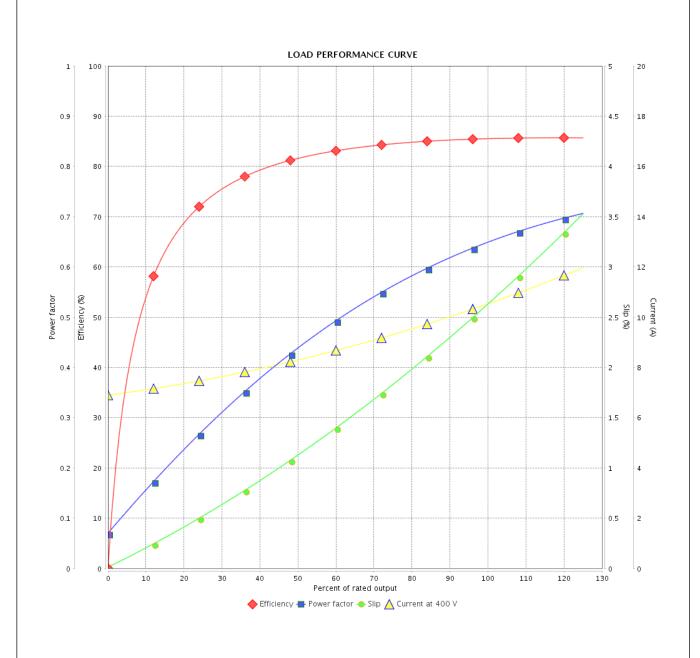
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Performance	: 400 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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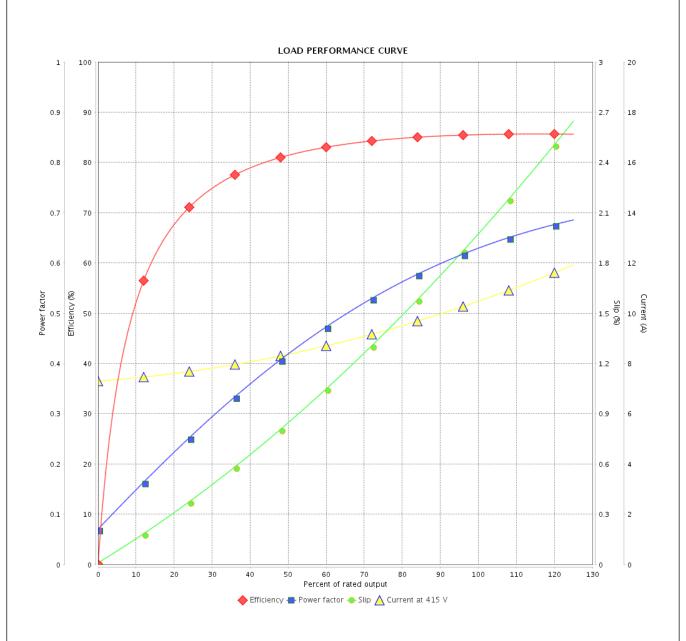
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				,	
Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 6.0 : 39.3 ft.lb : 260 % : 320 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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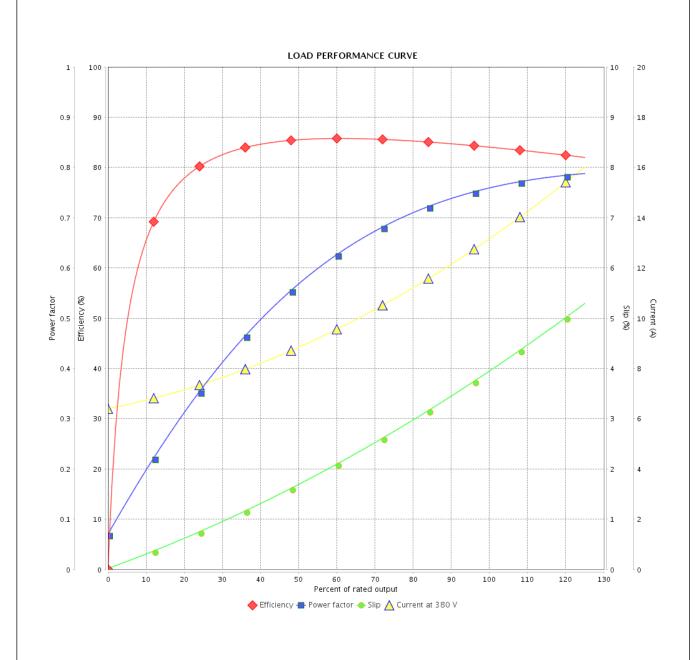
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Danfarmana	. 200 \/ 50 - 00 50					
Performance	: 380 V 50 Hz 8P IE2					
Rated current	Rated current : 13.1 A		f inertia (J)	: 4.43 sq.ft.lb		
LRC	: 4.3	l		: Cont.(S1)		
Rated torque : 54.7 ft.lb		Insulation	Insulation class		: F ` ′	
Locked rotor torque : 150 %		Service factor : 1.00				
Breakdown torque			Temperature rise			
Rated speed	: 720 rpm	Design		: B		
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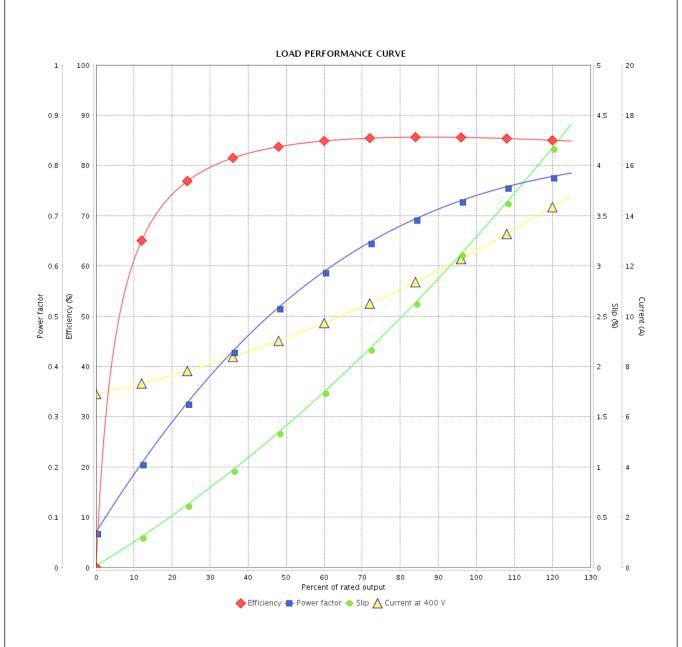
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Performance	: 40	00 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4. : 54 que : 17 ue : 2'	2.5 A 7 4.3 ft.lb 70 % 10 % 25 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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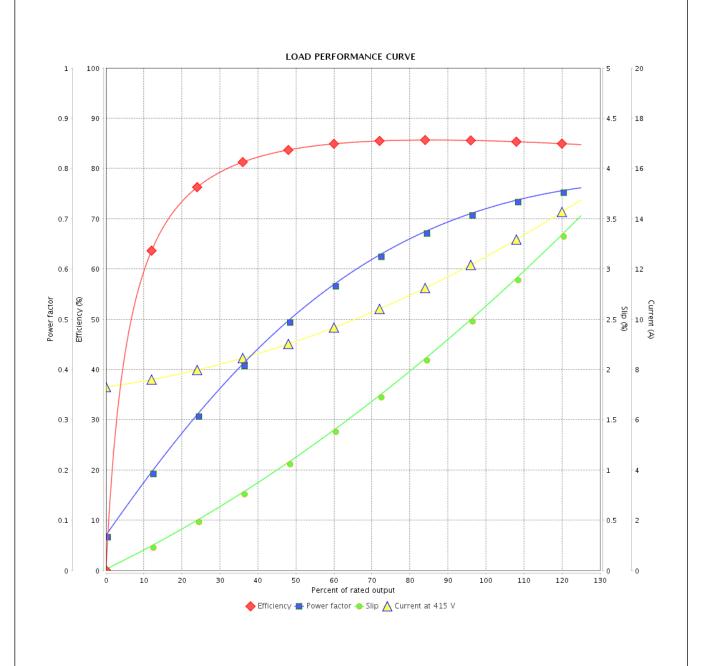
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	:	415 V 50 Hz 8P IE2				
Rated current	:	12.4 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC	:	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	:	54.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.15	
Breakdown torque		229 %	Temperature rise		: 105 K	
Rated speed	:	730 rpm	Design		: B	
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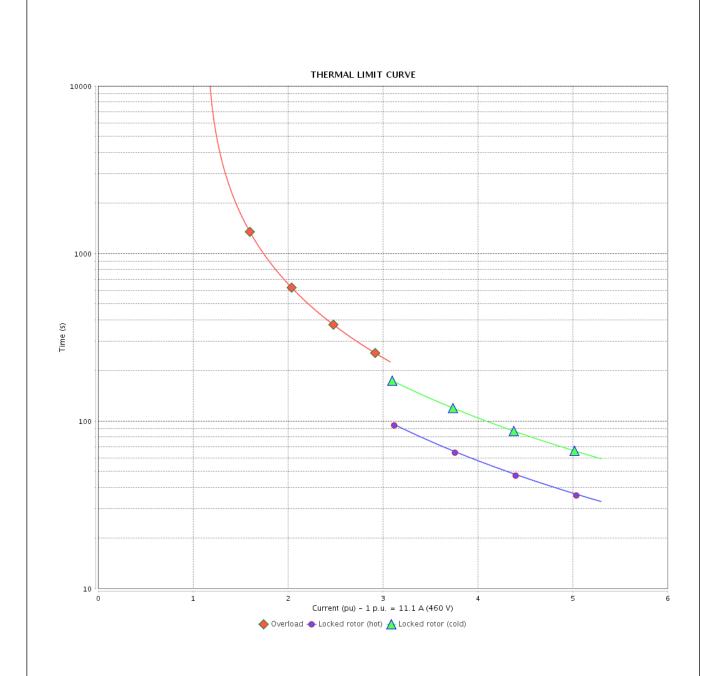


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11448468 00709ST3QIE	:256T-W22
Performance	: 46	60 V 60 Hz 8P				
Rated current LRC	: 11 : 5.	I.1 A 3	Moment o	f inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 50 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant Cooling constant						
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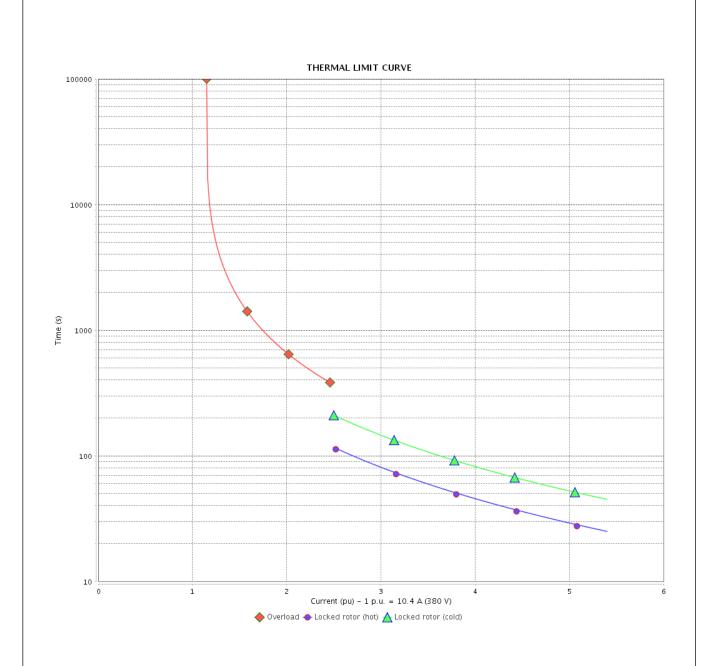


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Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11448468 00709ST3QI	E256T-W22
Performance		380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	10.4 A 5.4 39.6 ft.lb 210 % 260 % 730 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t	Changes Summary		Performed	Checked	Date
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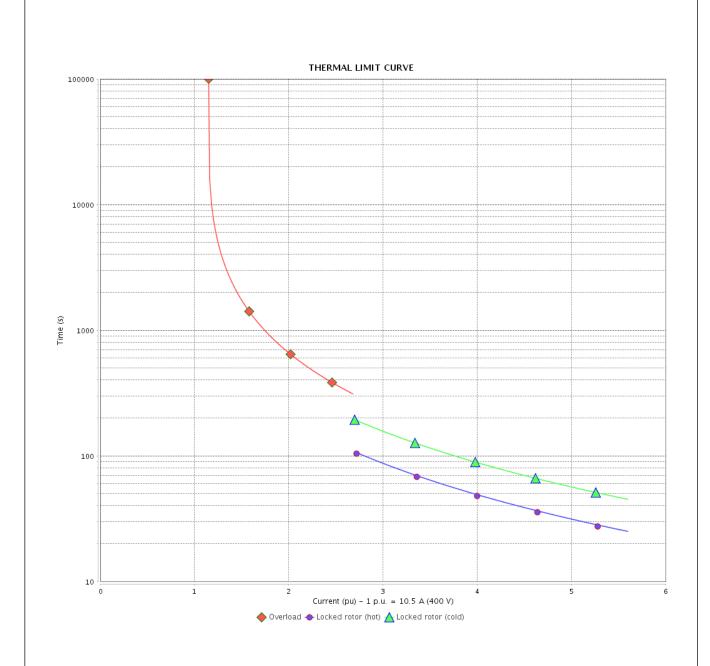


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11448468 00709ST3QIE	E256T-W22
Performance		00 V 50 Hz 8P IE3		6 * 6 * - 7 1 N	4.40 6.11	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		9.6 ft.lb 29 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		29 % 90 %	Temperatu		: 1.15 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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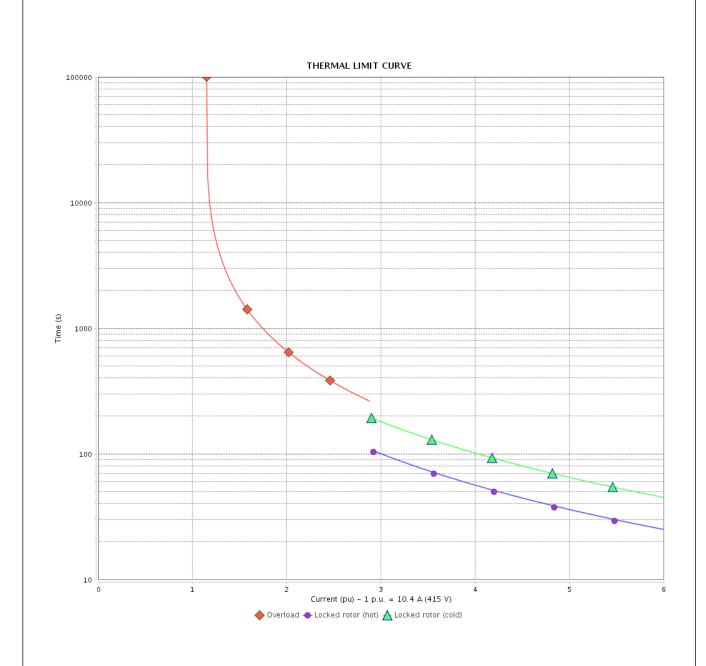


Customer	:				,	
Product line		NEMA Premium Efficiency hase		Product code :	11448468 00709ST3QIE	:256T-W22
Performance		15 V 50 Hz 8P IE3).4 A	Moment	finartia (I)	: 4.42 og ft lb	
Rated current LRC	: 6.	0	Duty cycle	f inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		9.3 ft.lb 60 %	Insulation Service fa		: F : 1.15	
Breakdown torque		20 %	Temperatu		: 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
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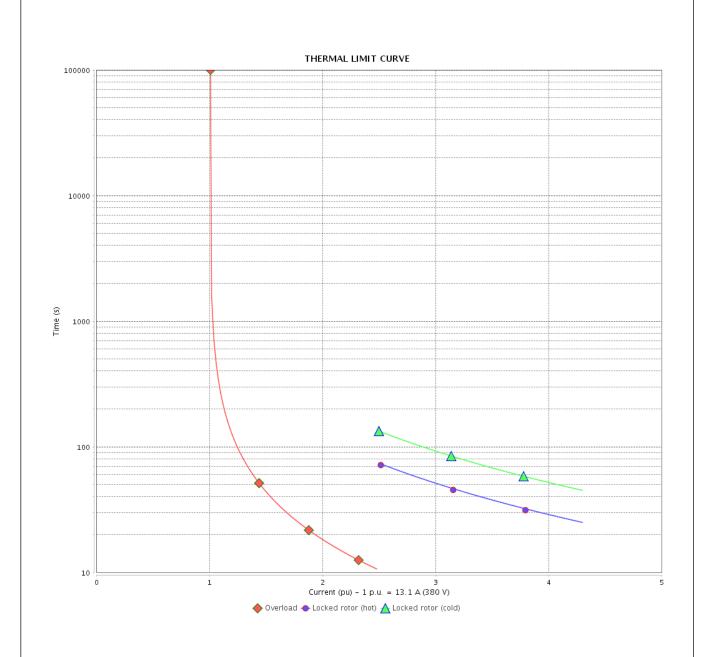


Customer	:				,	
Product line		NEMA Premium Efficiency hase		Product code :	11448468 00709ST3QIE	:256T-W22
Performance		80 V 50 Hz 8P IE2				
Rated current LRC	: 4.		Duty cycle	f inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		4.7 ft.lb 50 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	e : 19	90 %	Temperatu		: 105 K	
Rated speed		20 rpm	Design		: B	
Heating constant						
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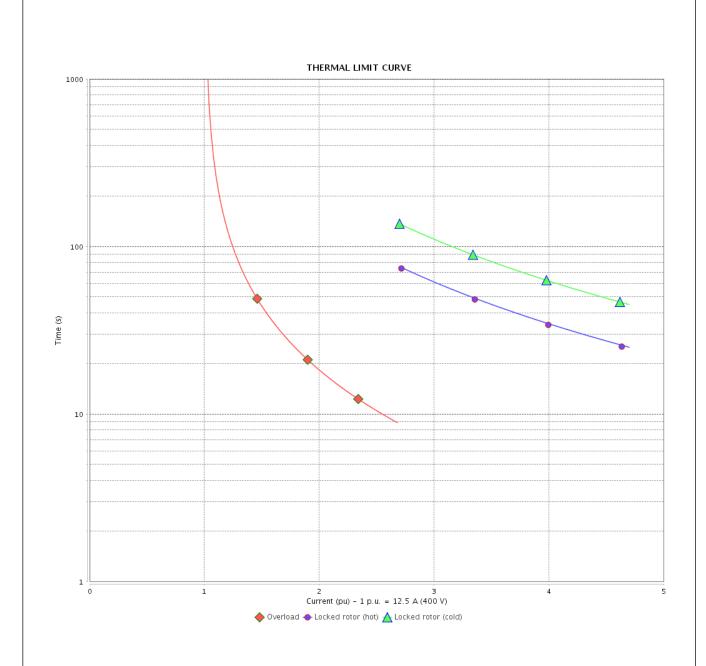


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11448468 00709ST3QIE	:256T-W22
Performance		: 400 V 50 Hz 8P IE2				
Rated current LRC		: 12.5 A : 4.7	Moment of Duty cycle	of inertia (J) e	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque		: 54.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.15 : 105 K	
Rated speed		: 725 rpm	Design		: B	
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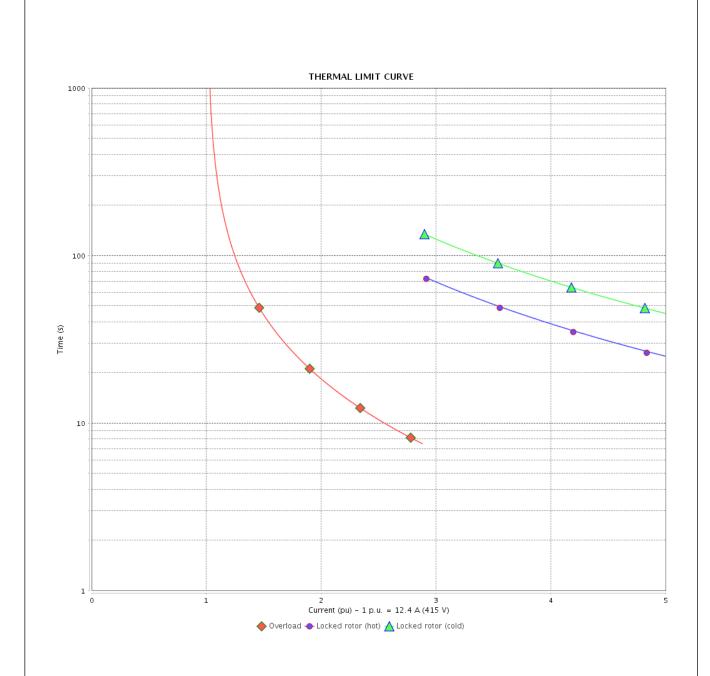


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11448468 00709ST3QIE	E256T-W22
Performance Rated current		15 V 50 Hz 8P IE2 2.4 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC	: 5.	0	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		4.0 ft.lb 90 %	Insulation Service fa		: F : 1.15	
Breakdown torque		90 % 29 %	Temperatu		: 105 K	
Rated speed		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- Produc

Phase

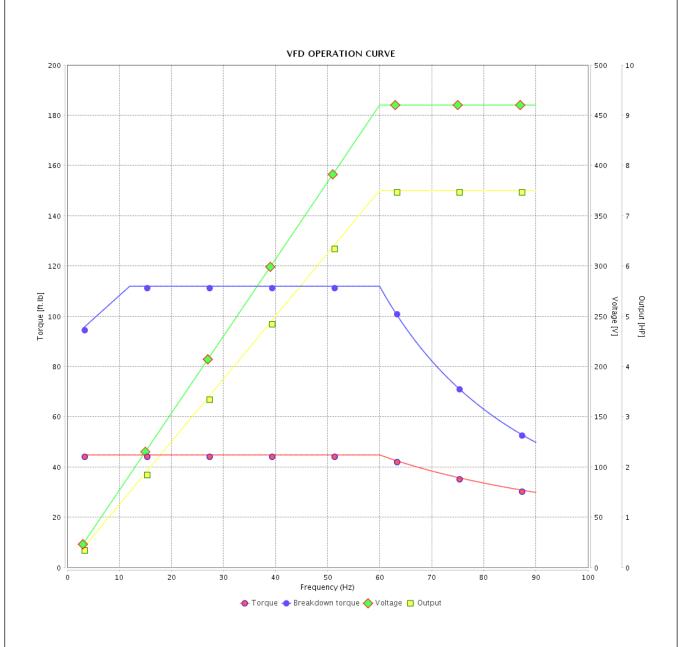
Product code: 11448468

Catalog #: 00709ST3QIE256T-W22

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Performance	: 4	460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 5 : 4 : 4 : 4 : 4 : 5	11.1 A 5.3 14.8 ft.lb 200 % 250 % 880 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	'	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



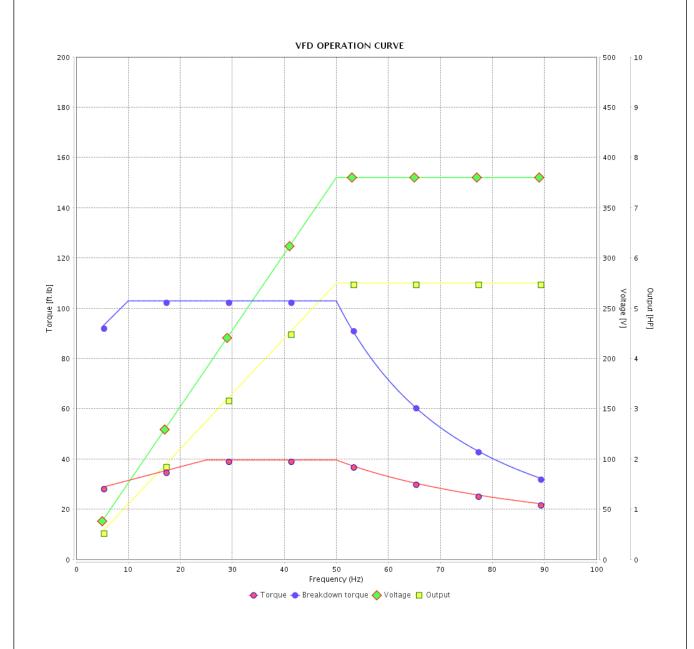
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11448468

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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 5.4 : 39.6 ft.lb : 210 % : 260 % : 730 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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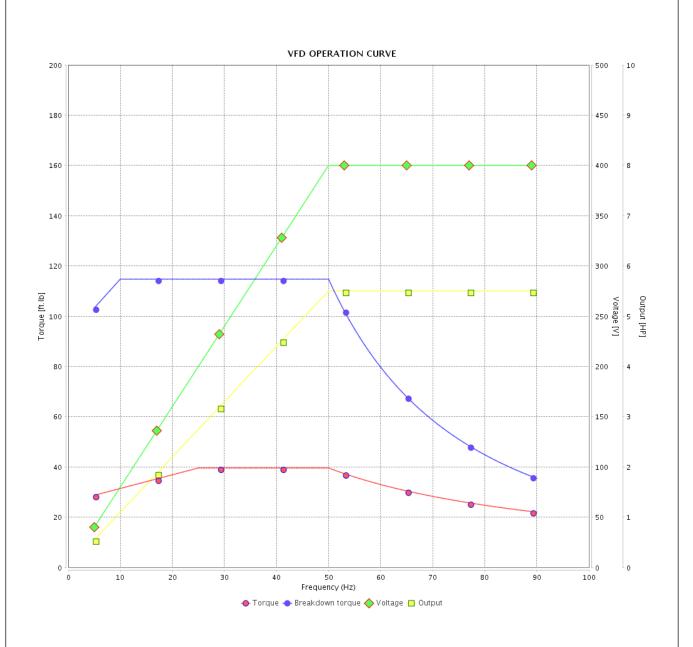
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.5 A : 5.6 : 39.6 ft.lb : 229 % : 290 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



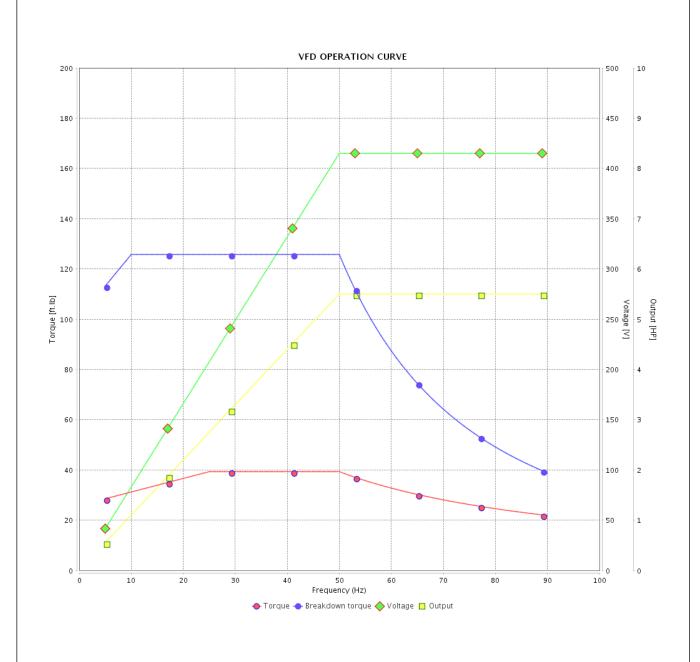
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11448468

Phase

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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 6.0 : 39.3 ft.lb : 260 % : 320 % : 735 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	lass	: 4.43 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

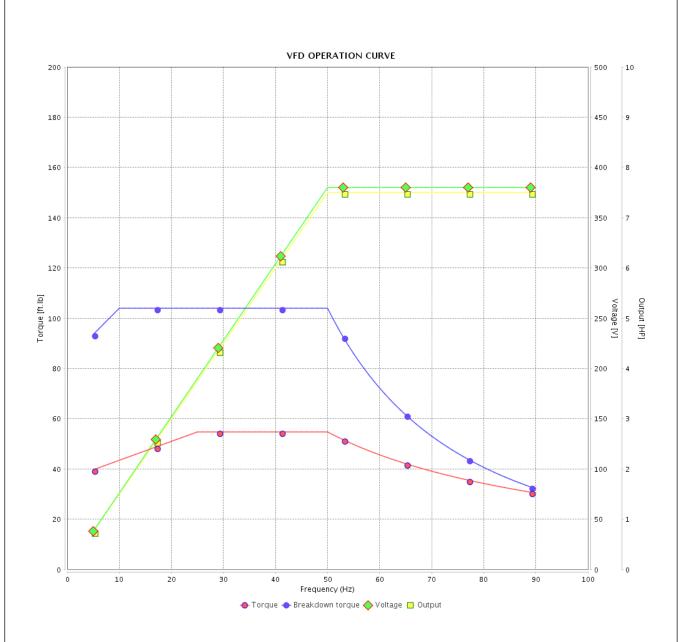
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Performance	:	: 380 V 50 Hz 8P IE	Ξ2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	13.1 A 14.3 154.7 ft.lb 150 % 190 % 1720 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

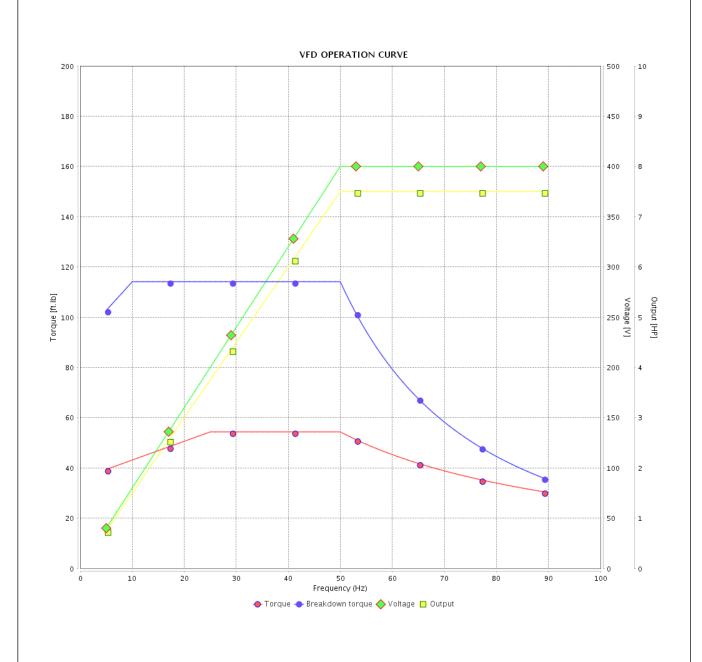


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11448468

Phase

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					7	
Performance	: 40	0 V 50 Hz 8P IE2				
Rated current	: 12	: 12.5 A Moment of i		f inertia (J)	: 4.43 sq.ft.lb	
LRC	: 4.	4.7 Duty cycle)	: Cont.(S1)	
Rated torque	: 54	I.3 ft.lb	Insulation	class	: F	
Locked rotor tord	μue : 1	70 %	Service fa	ctor	: 1.15	
Breakdown torqu	torque : 210 % Temperature rise		ıre rise	: 105 K		
Rated speed	: 72	25 rpm	Design		: B	
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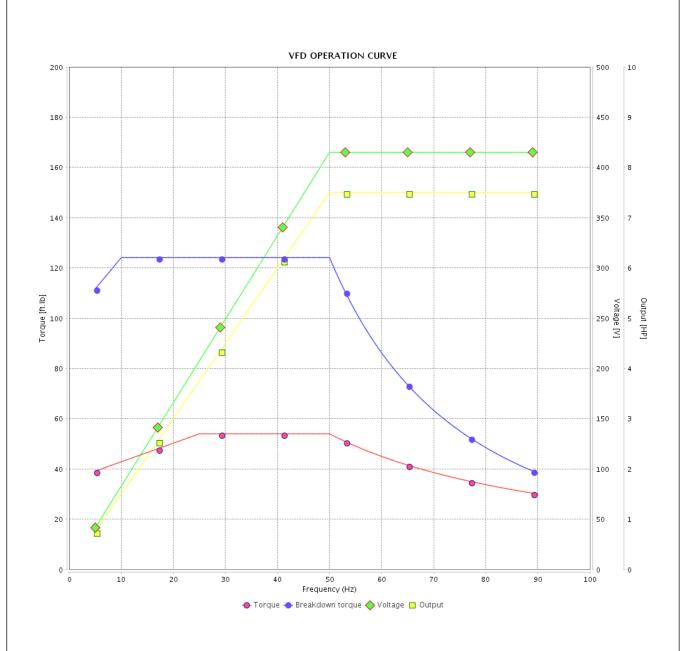
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11448468

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Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.4 A : 5.0 : 54.0 ft.lb : 190 % : 229 % : 730 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass tor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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