### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

Catalog #: 00709ET3E256T-W22

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 295 lb

Protection degree : IP55 Moment of inertia (J) : 4 43 sq ft lb

D 1 11 1		ID55		1 1 1			40 6111	
Protection degre	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]		230/460	380	400	415	380	400	415
Rated current [A]		22.2/11.1	10.4	10.5	10.4	13.1	12.5	12.4
L. R. Amperes [A]		118/58.8	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
		G)						G)
No load current [A	]	13.0/6.50	6.40	6.90	7.30	6.40	6.90	7.30
Rated speed [RPN	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 torqu	e [%]	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 <sup>2</sup>		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
Liliciency (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
FUWEI FACIOI	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

Bearing type : 6309 C3 6209 C3 Max. traction : 448 lb Sealing : V'Ring V'Ring Lubrication interval : 20000 h 20000 h

Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 24.5A SF 1.15 SFA 28.2A

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

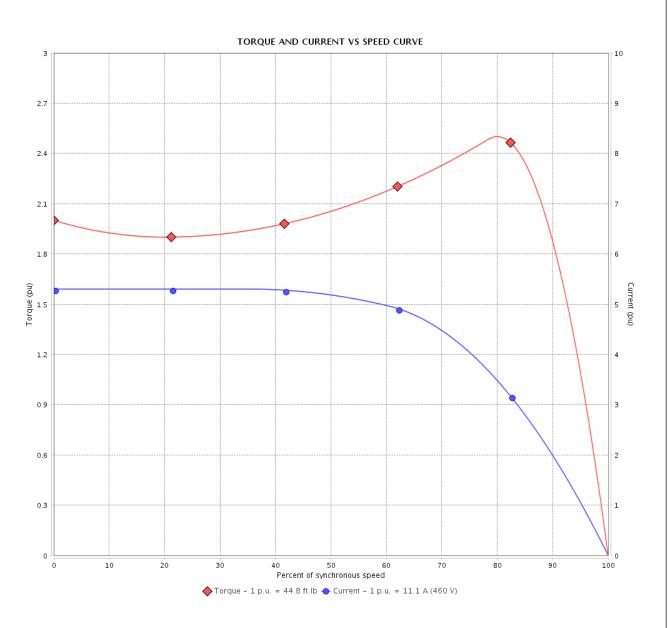


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

Catalog #: 00709ET3E256T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 22.2/11.1 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.8 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11456704 Catalog #: 00709ET3E256T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) Current 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) : 380 V 50 Hz 8P IE3 Performance Rated current : 10.4 A Moment of inertia (J) : 4.43 sq.ft.lb LRC : 5.4 Duty cycle : Cont.(S1) Rated torque : 39.6 ft.lb Insulation class : F : 1.00 Locked rotor torque : 210 % Service factor Breakdown torque : 260 % Temperature rise : 80 K

Rated speed	: 73	0 rpm	Design		: B	
Locked rotor time	e : 4	5s (cold) 25s (hot)				
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### Three Phase Induction Motor - Squirrel Cage



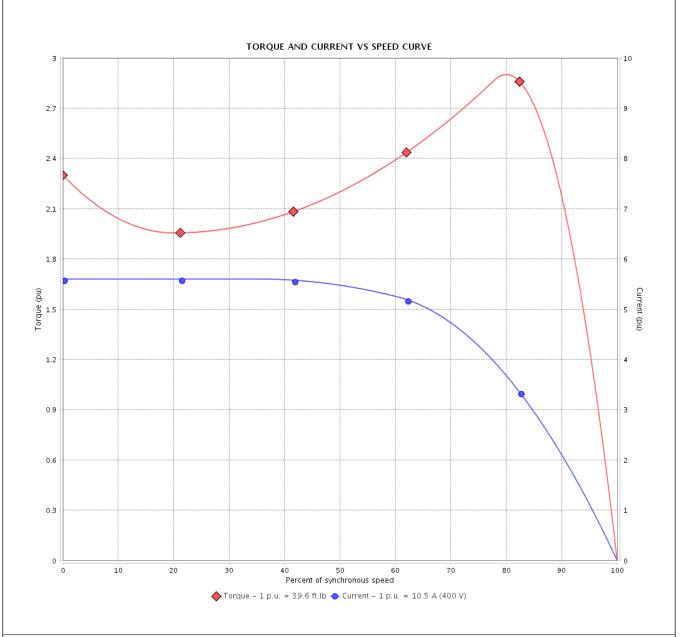
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-W22



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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B
Nateu speeu	. 700 ipili	Design	. ט

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: 11456704 Catalog #: 00709ET3E256T-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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#### Three Phase Induction Motor - Squirrel Cage



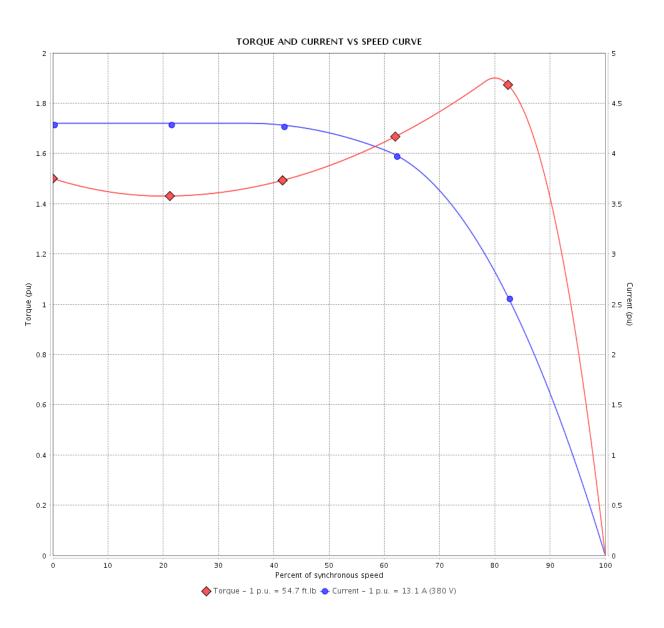
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-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) Insulation class Rated torque : 54.7 ft.lb : 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: 11456704 Catalog #: 00709ET3E256T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 4.5 3.5 1.75 1.5 (bd) 1.25 0.5 0.25 0.5 Percent of synchronous speed ♦ Torque – 1 p.u. = 54.3 ft.lb ♦ Current – 1 p.u. = 12.5 A (400 V)

Performance	: 400 V 50 Hz 8P IE2				
Rated current	: 12.5 A	Moment of in	ertia (J)	: 4.43 sq.ft.lb	
LRC	: 4.7	Duty cycle		: Cont.(S1)	
Rated torque	: 54.3 ft.lb	Insulation cla	iss	: F	
Locked rotor torque	: 170 %	Service factor	r	: 1.15	
Breakdown torque	: 210 %	Temperature	rise	: 105 K	
Rated speed	: 725 rpm	Design		: B	
Locked rotor time	: 45s (cold) 25s (hot)				
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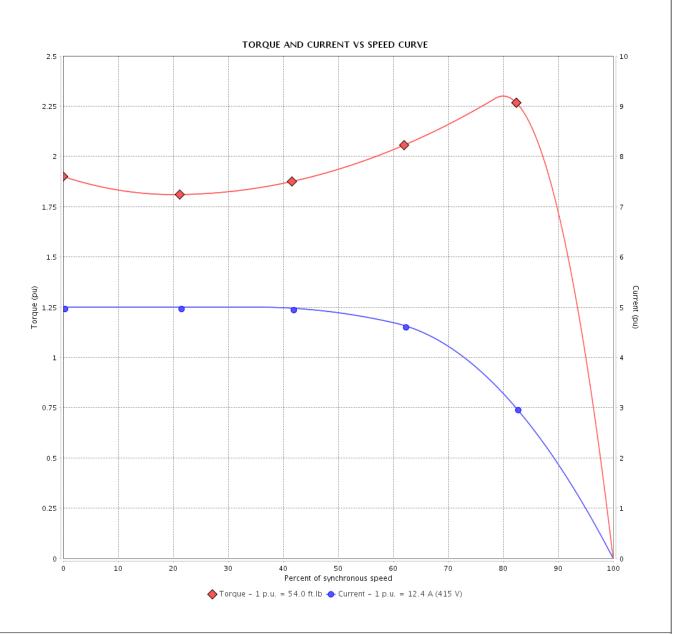
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-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

Locked rotor time : 45s (cold) 25s (hot)

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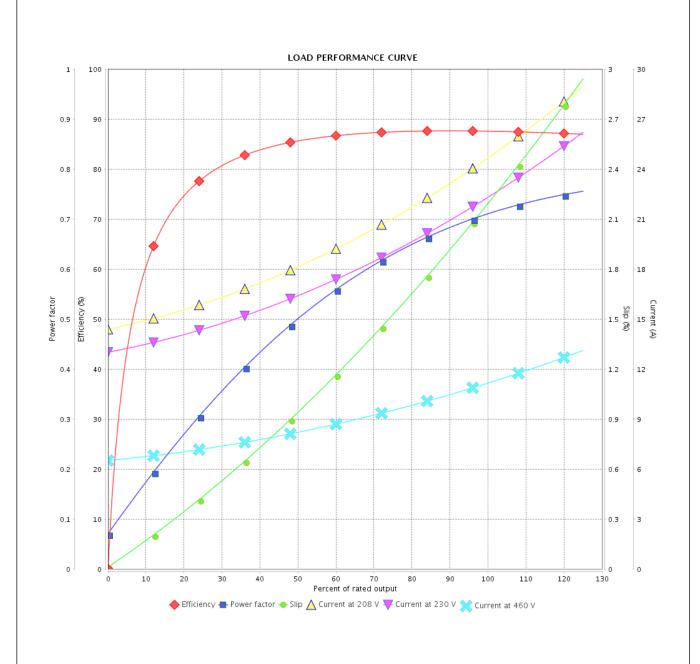
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Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.2/11.1 A : 5.3 : 44.8 ft.lb : 200 % : 250 % : 880 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Phase

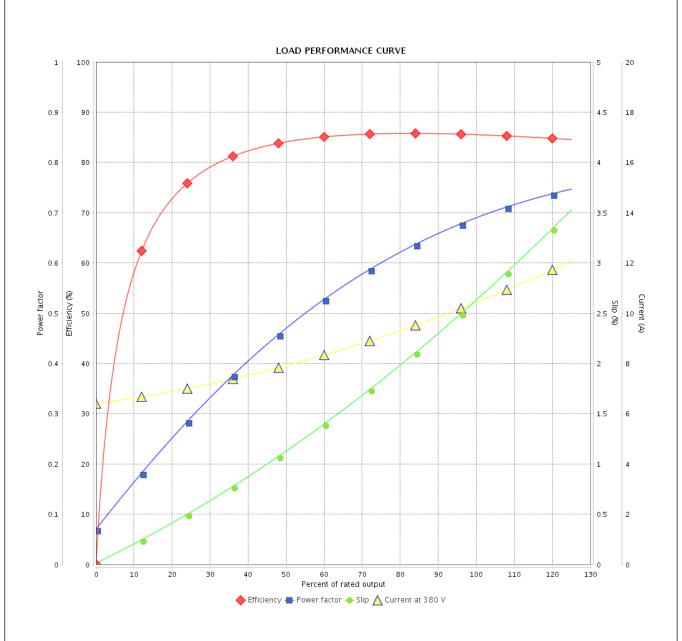
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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 5.4 : 39.6 ft.lb : 210 % : 260 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

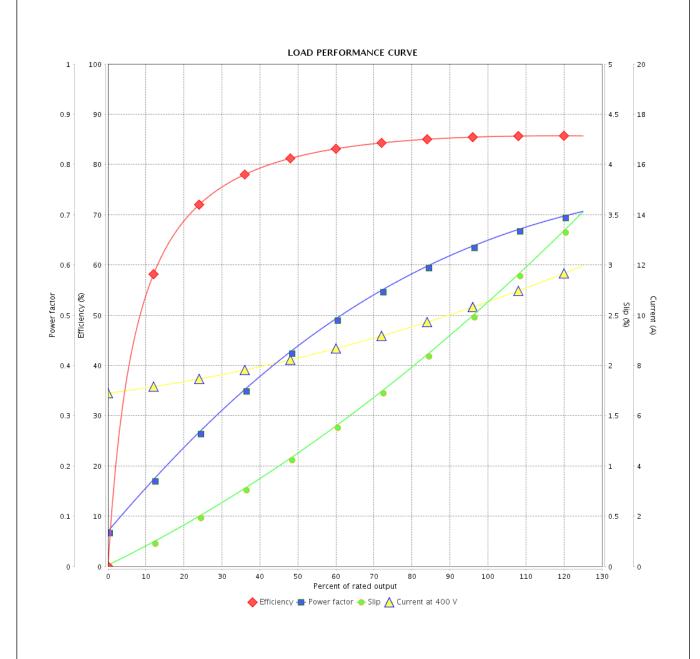


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

Catalog #: 00709ET3E256T-W22



Performance	: 4	400 V 50 Hz 8P IE3				
Rated current	: 1	10.5 A Moment of inertia		f inertia (J)	: 4.43 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 3	39.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	229 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	290 %	7 Temperature rise		: 80 K	
Rated speed	: 7	730 rpm Design			: B	
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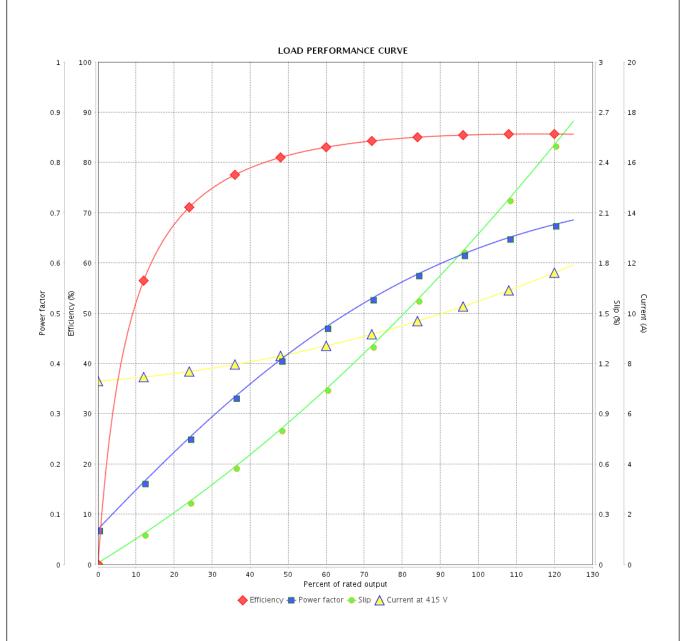
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11456704

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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)	
Rated torque	: 39.3 ft.lb	Insulation class		: F	
Locked rotor torque : 260 %		Service factor		: 1.15	
Breakdown torque	: 320 %	Temperature rise Design		: 80 K	
Rated speed	: 735 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage



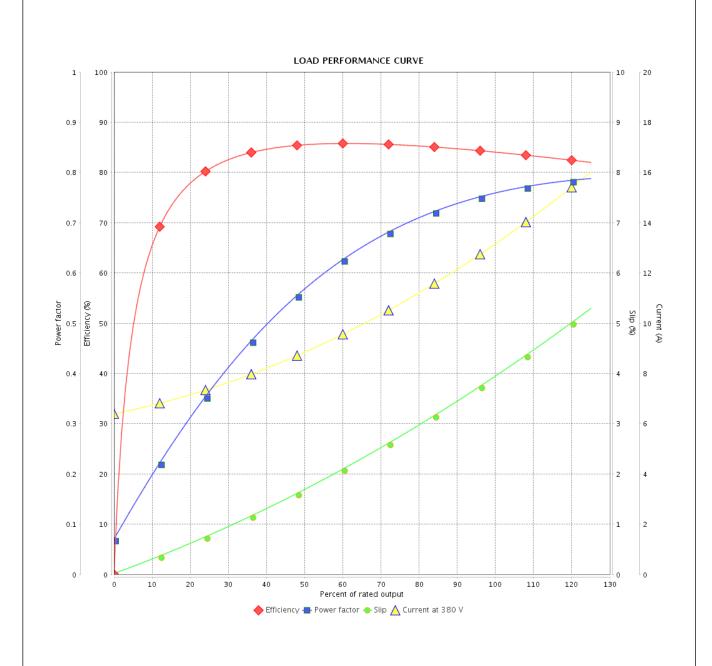
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

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Performance	: 380 V 50 Hz 8P IE2				
Rated current : 13.1 A LRC : 4.3 Rated torque : 54.7 ft.lb Locked rotor torque : 150 % Breakdown torque : 190 % Rated speed : 720 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



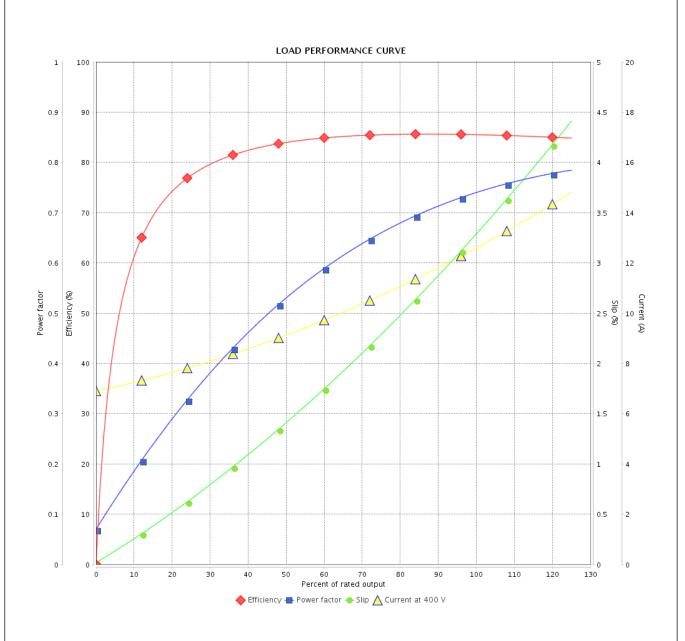
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-W22



Performance	: 400 V 50 Hz 8P IE2	V 50 Hz 8P IE2				
Rated current LRC Rated torque	: 12.5 A : 4.7 : 54.3 ft.lb	7.7 Duty cycle 4.3 ft.lb Insulation class 70 % Service factor 10 % Temperature rise		: 4.43 sq.ft.lb : Cont.(S1) : F		
Locked rotor torque Breakdown torque Rated speed	: 170 % : 210 % : 725 rpm			: 1.15 : 105 K : B		
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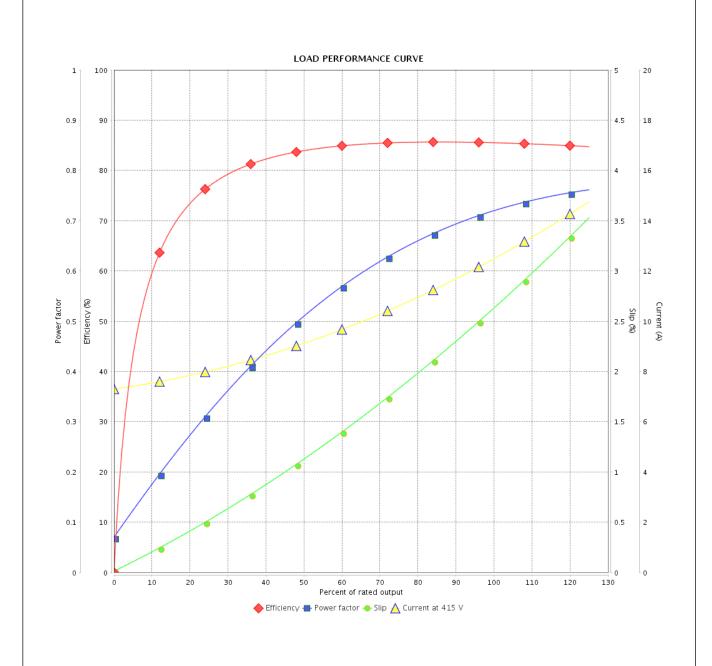
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

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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 inertia (J) : 4.43 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.15  Temperature rise : 105 K  Design : B			
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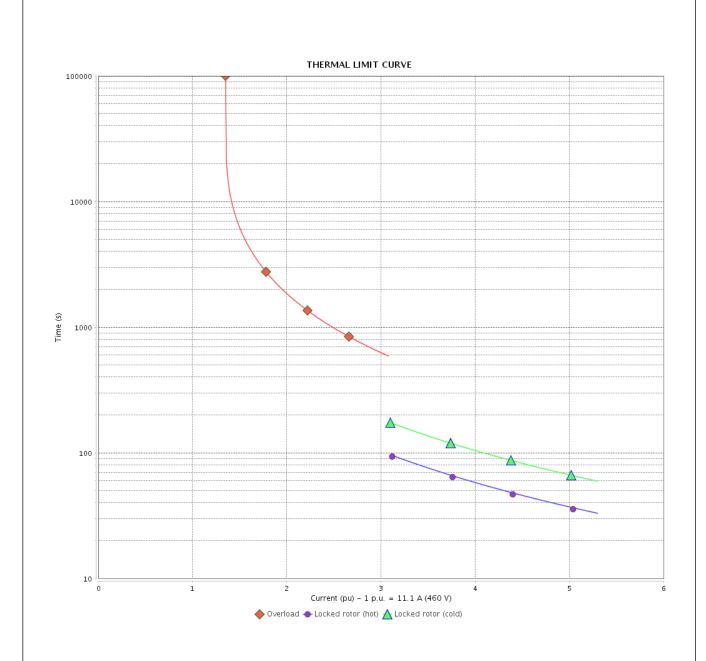


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	11456704	
i roddet iirie		Phase				
				Catalog # :	00709ET3E2	56T-W22
Performance		30/460 V 60 Hz 8P				
Rated current LRC	: 2 : 5	2.2/11.1 A	Moment of Duty cycle	of inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque	: 4	4.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 50 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		80 rpm	Design	ure rise	: B	
Heating constant						
Cooling constant						
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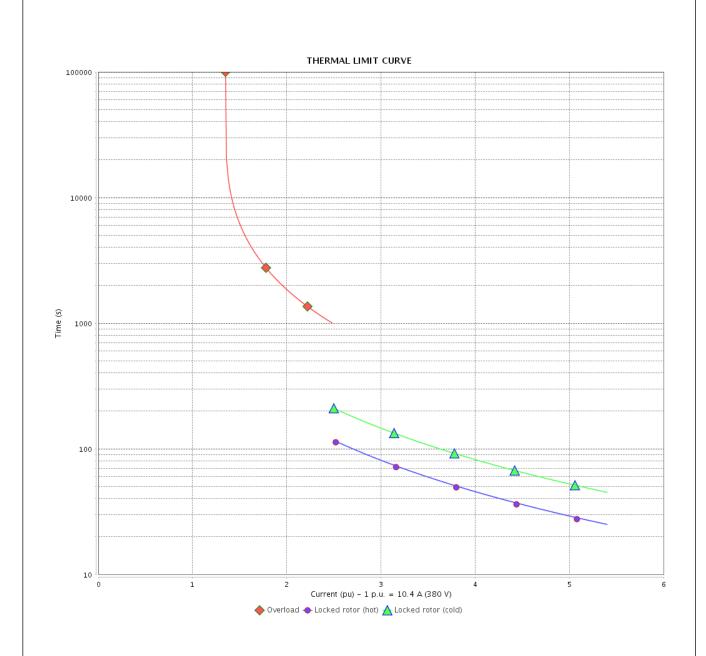


Customer	:	:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11456704 00709ET3E2	56T-W22
Performance		380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : : : : : : : : : : : :	10.4 A 5.4 39.6 ft.lb 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 Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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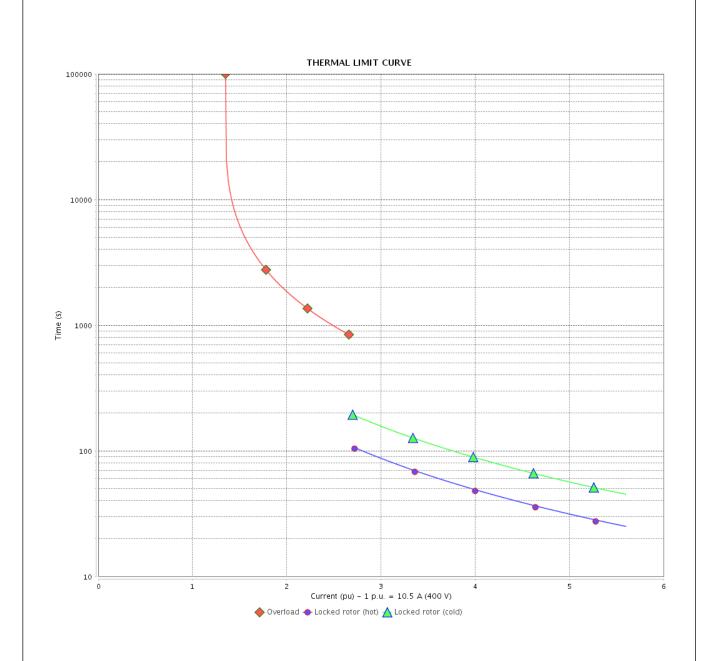


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11456704	
		Catalog # :	00709ET3E2	56T-W22
Performance	: 400 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.5 A : 5.6 : 39.6 ft.lb : 229 % : 290 % : 730 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Heating constant				
Cooling constant			<u> </u>	
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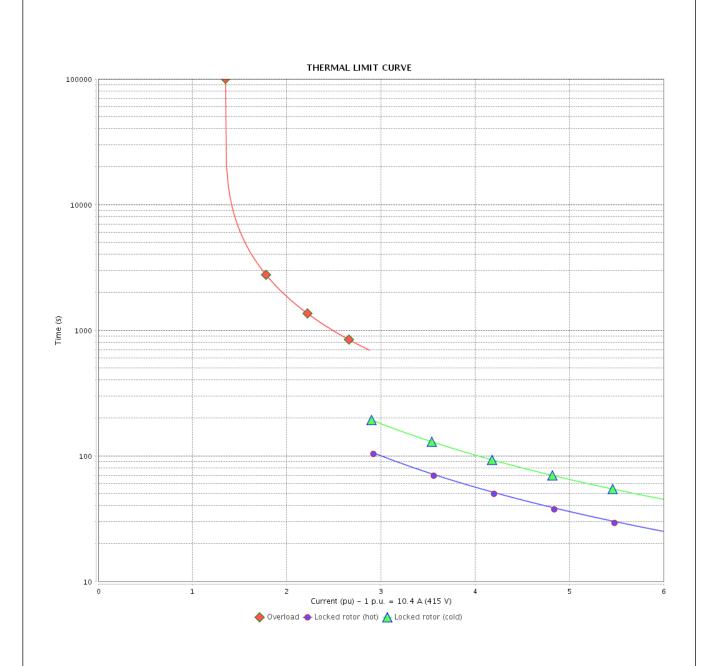


Customer	:				_	
Product line	: ! Pl	NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11456704 00709ET3E25	56T-W22
Performance		15 V 50 Hz 8P IE3				
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		9.3 ft.lb 60 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqt		20 %	Temperatu		: 1.15 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

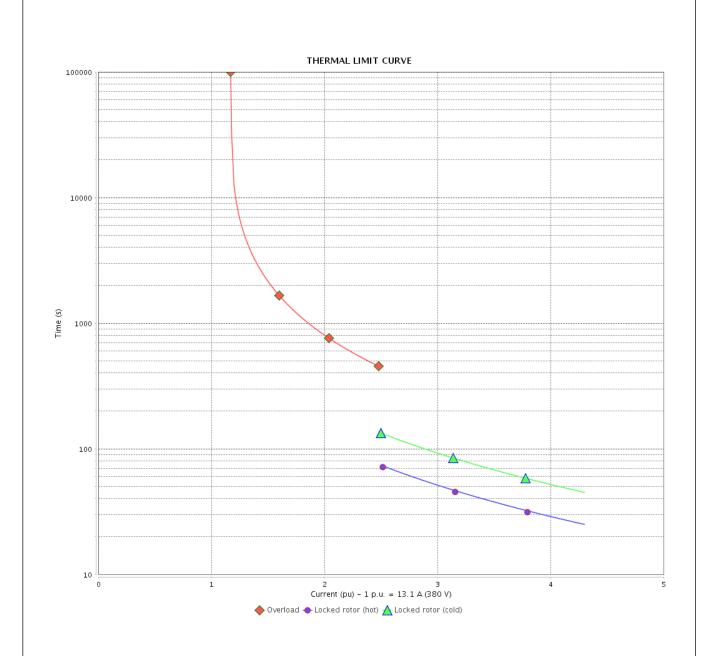


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11456704	
		Catalog # :	00709ET3E2	56T-W22
Performance	: 380 V 50 Hz 8P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 4.3 : 54.7 ft.lb : 150 % : 190 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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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

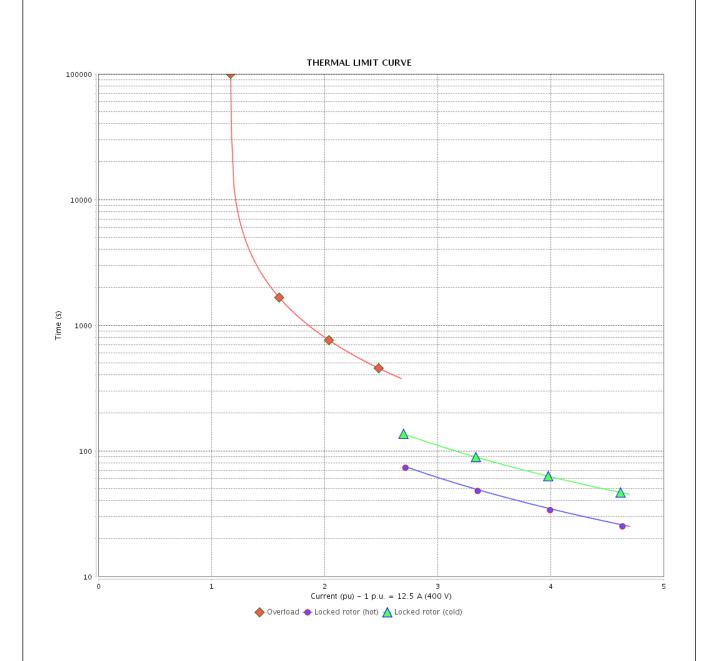


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11456704 00709ET3E2	256T-W22
Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC	: 12.5 A : 4.7	Duty cycle	of inertia (J) e	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 54.3 ft.lb : 170 %	Insulation Service fa		: F : 1.15	
Breakdown torque Rated speed	: 170 % : 210 % : 725 rpm	Temperat Design		: 105 K : B	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

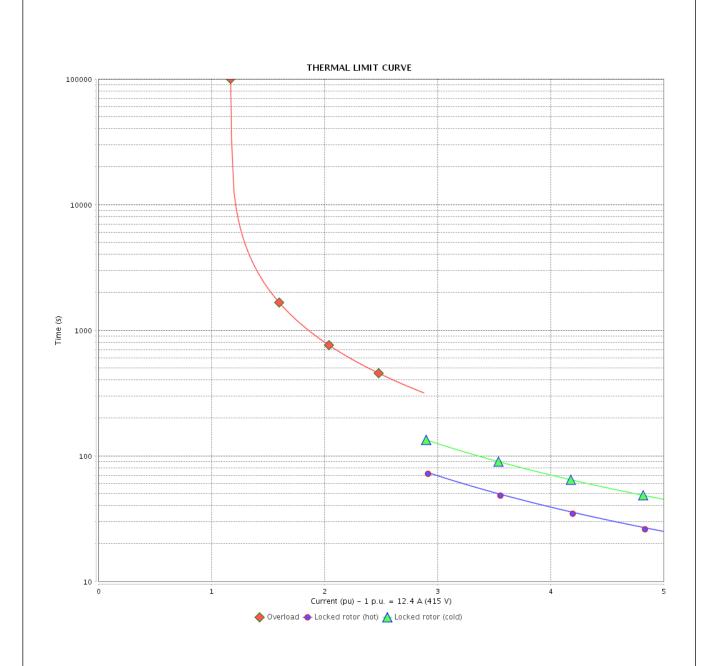


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11456704 00709ET3E25	56T-W22
Performance Rated current		: 415 V 50 Hz 8P IE2 : 12.4 A	Momont	of inertia (J)	: 4.42 og ft lb	
LRC		: 5.0	Duty cycle	е	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque		: 54.0 ft.lb : 190 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 190 % : 229 %	Temperat		: 1.15 : 105 K	
Rated speed		: 730 rpm	Design		: B	
Heating constan						
Cooling constant	t	01 0				D :
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



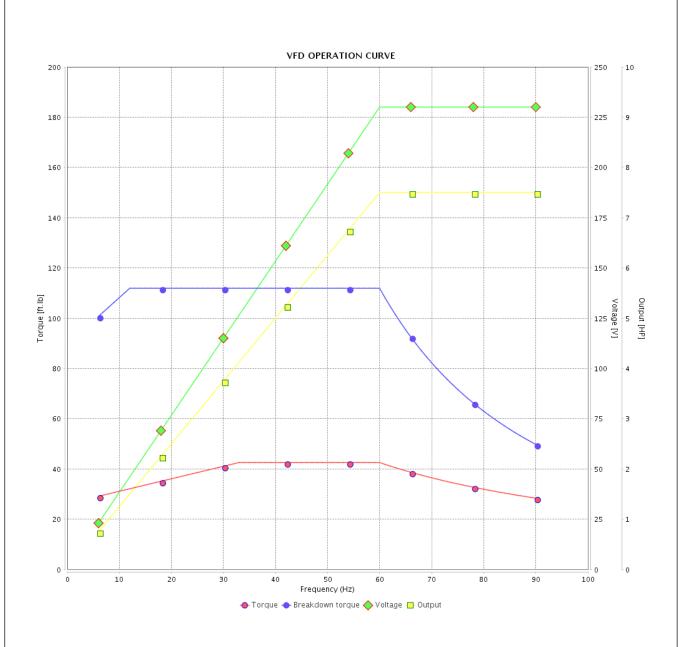
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-W22



Performance : 230/460 V 60 Hz 8P : 22.2/11.1 A Rated current Moment of inertia (J) : 4.43 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.3 : 44.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 880 rpm Design : B Rev. Changes Summary Checked Performed Date

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#### Three Phase Induction Motor - Squirrel Cage

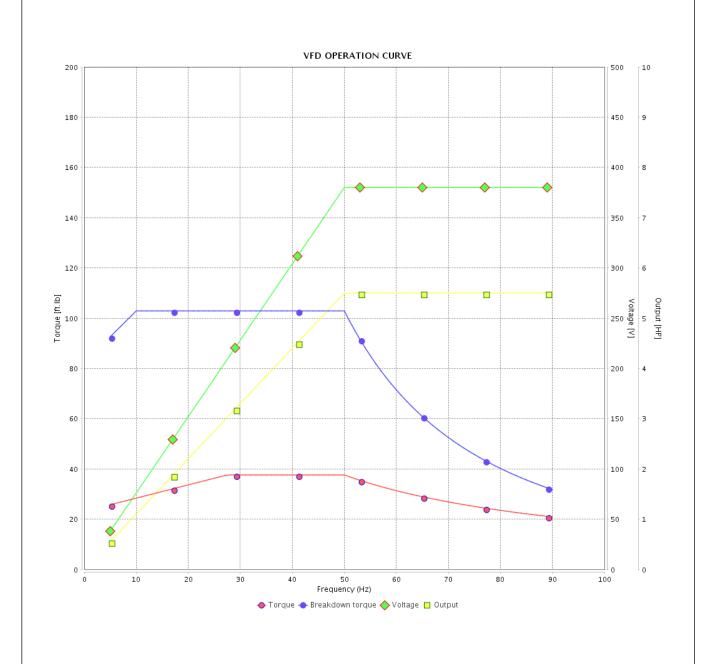


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00709ET3E256T-W22

11456704



Performance	: 38	0 V 50 Hz 8P IE3				
Rated current	: 10	0.4 A	Moment o	of inertia (J)	: 4.43 sq.ft.lb	
LRC	: 5.	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 39	9.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2 <sup>-</sup>	10 %	Service fa	ictor	: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 73	30 rpm Design			: B	
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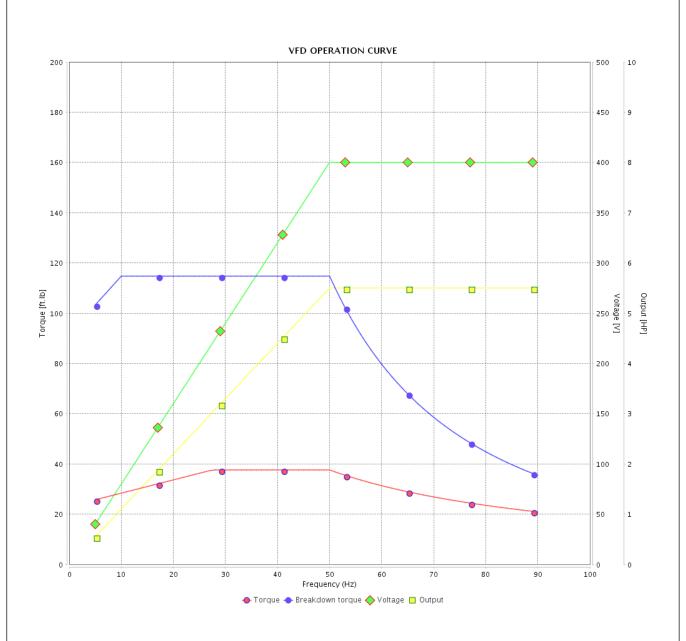
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11456704

Catalog #: 00709ET3E256T-W22



Performance	: 400 V 50 Hz 8P IE3	: 400 V 50 Hz 8P IE3				
Rated current LRC	: 10.5 A : 5.6	Moment of inertia (J)		: 4.43 sq.ft.lb		
Rated torque	: 39.6 ft.lb	Duty cycle Insulation class		class : F		
Locked rotor torque Breakdown torque	·			_		
Rated speed	: 730 rpm	Design				
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#### Three Phase Induction Motor - Squirrel Cage

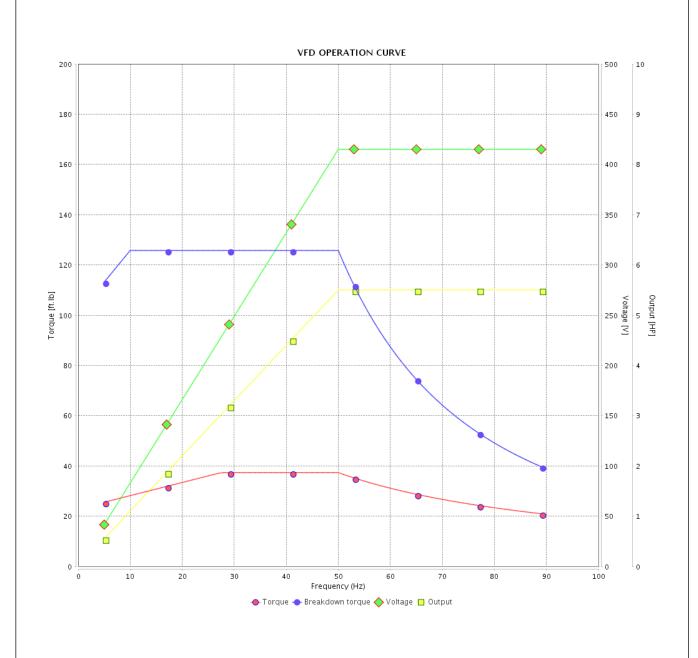


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

Catalog #: 00709ET3E256T-W22



Performance	: 4	15 V 50 Hz 8P IE3	5 V 50 Hz 8P IE3				
Rated current	: 1	0.4 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb		
LRC	: 6	.0	Duty cycle	!	: Cont.(S1)		
Rated torque	: 3	9.3 ft.lb	Insulation	class	: F		
Locked rotor torqu	ıe : 2	60 %	Service fa	ctor	: 1.15		
Breakdown torque :		20 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 7	5 rpm Design			: B		
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

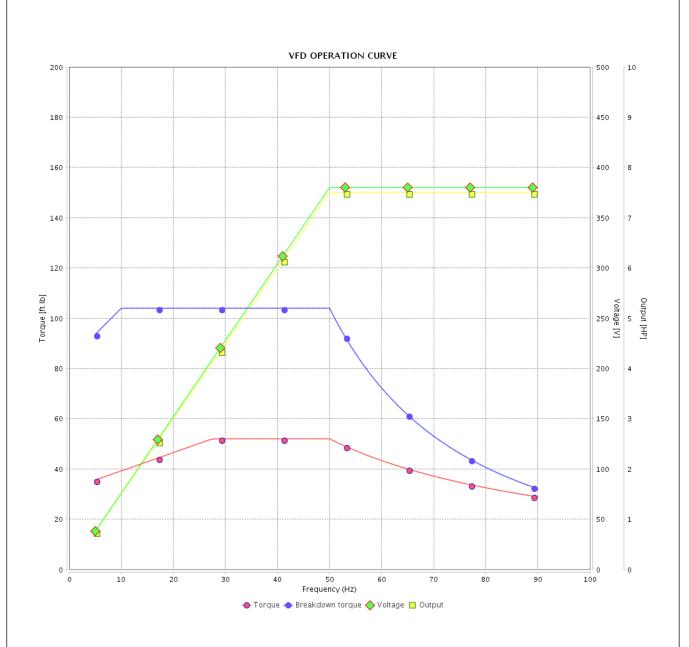
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Performance	:	: 380 V 50 Hz 8P IE	Ξ2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	13.1 A 14.3 154.7 ft.lb 150 % 190 % 1720 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 4.43 sq.ft.lb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

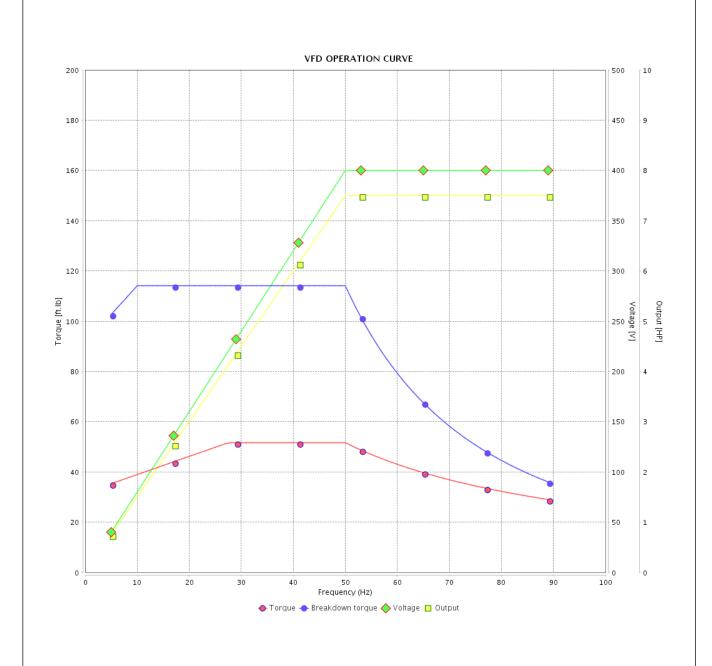


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11456704

Phase

Catalog #: 00709ET3E256T-W22



					7				
Performance		: 400 V 50 Hz 8P IE2							
Rated current		: 12.5 A Momen		f inertia (J)	: 4.43 sq.ft.lb				
LRC		.7 Duty cycle		: Cont.(S1)					
Rated torque	: 54	54.3 ft.lb Insulation of		class	: F				
Locked rotor tord	μue : 1	70 %	Service factor		: 1.15				
Breakdown torqu	ie : 2	10 % Temperature rise		ıre rise	: 105 K				
Rated speed	: 72	25 rpm	Design		: B				
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Product line : NEMA Premium Efficiency Three- P

Phase

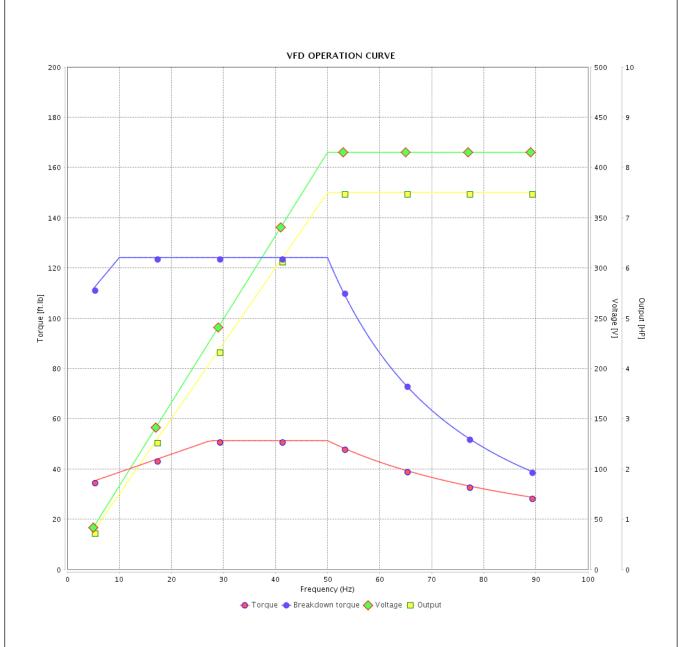
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Performance	: 4	15 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 5 que : 1 ie : 2	2.4 A .0 4.0 ft.lb 90 % 29 % 30 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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