DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22

Frame : 254/6TC 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 : 299 lb

7 111114440			O	, , , , ,			.00 .0	
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 [RPM]		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
Efficiency (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
i owei i acioi	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

Drive end Non drive end Foundation loads

Bearing type : 6309 C3 6209 C3 Max. traction : 446 lb Sealing : V'Ring V'Ring Max. compression : 744 lb

20000 h

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

20000 h

Notes

Lubrication interval

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

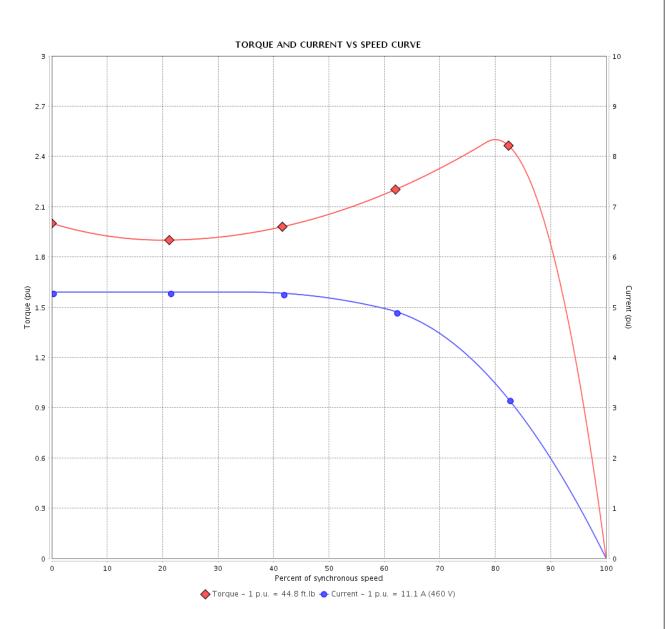


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-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)
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

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: 13025620 Catalog #: 00709ET3E256TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 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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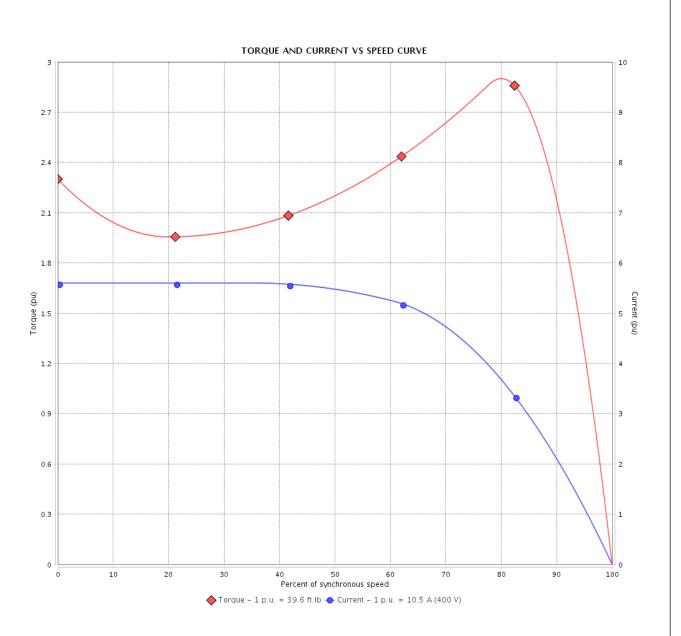


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 10.5 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 39.6 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 730 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: 13025620 Catalog #: 00709ET3E256TC-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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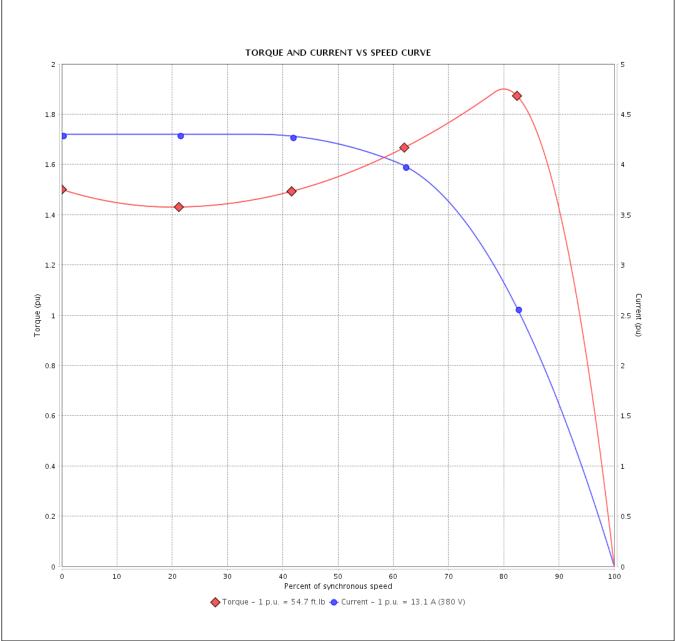


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22



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

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

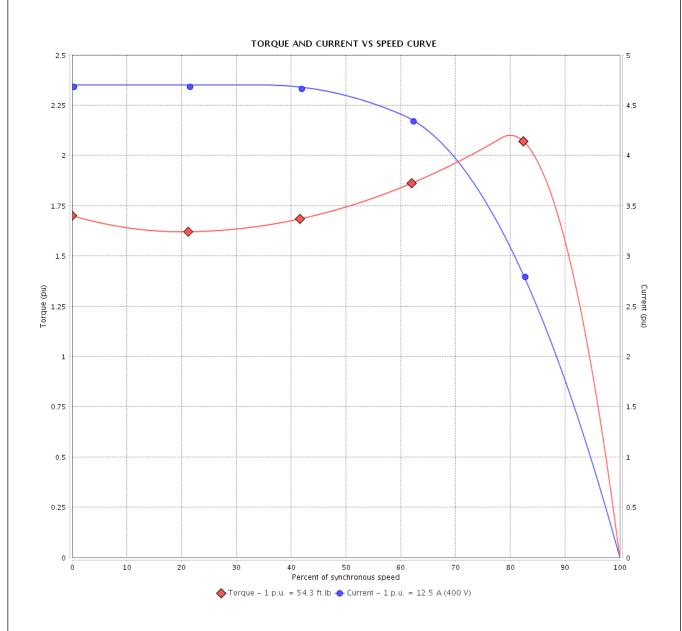
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 13025620
Phase Catalog # : 00709ET3E256TC-W22



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)
Rated torque	: 54.3 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 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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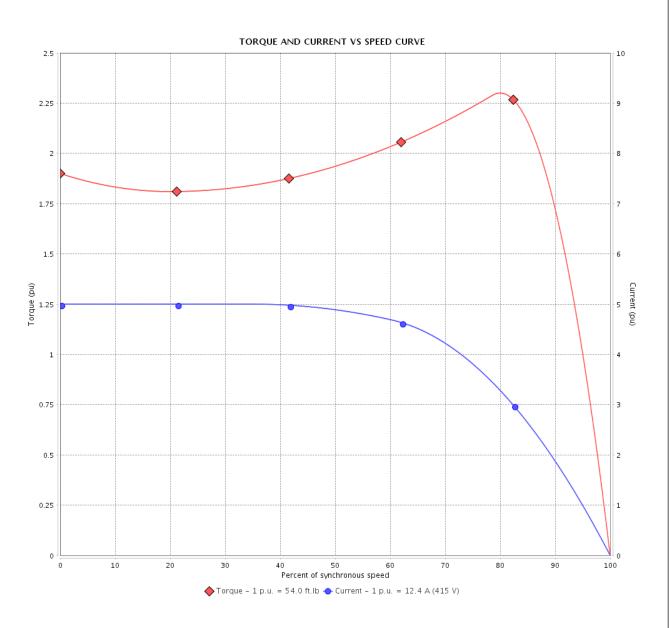
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13025620

Catalog #: 00709ET3E256TC-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) Insulation class Rated torque : 54.0 ft.lb : F Locked rotor torque : 190 % Service factor : 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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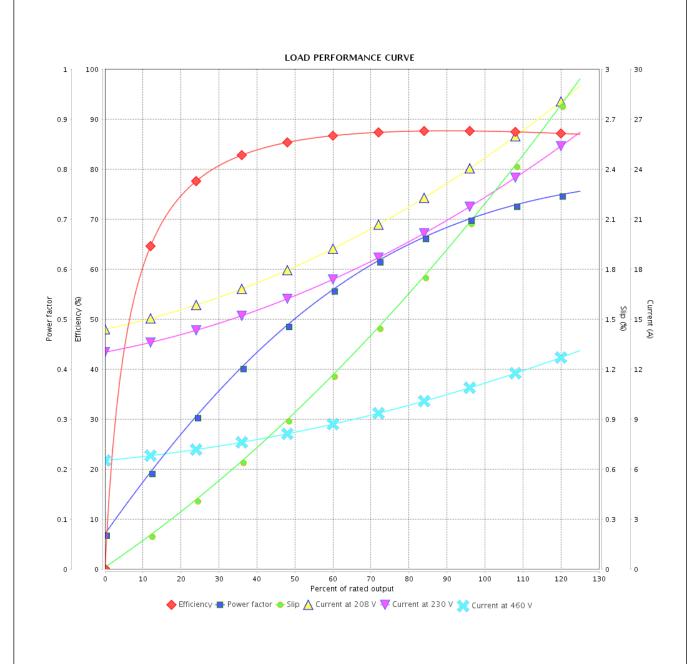


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Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22



Performance	: 2	230/460 V 60 Hz 8P				
Rated current	: 2	22.2/11.1 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC	: 5	5.3	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	14.8 ft.lb	Insulation	class	: F	
Locked rotor torque : 2		200 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	250 %	Temperati	ıre rise	: 80 K	
Rated speed	: 8	380 rpm	Design		: B	
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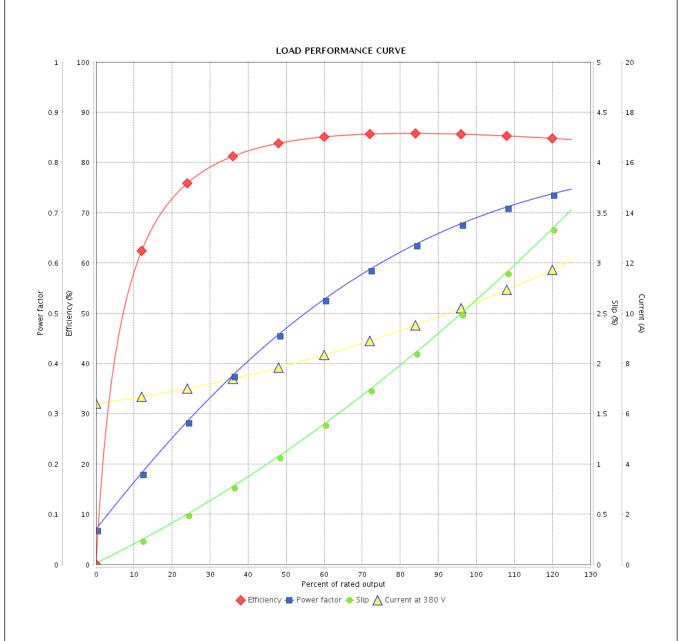
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Phase

Product code: 13025620

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Performance	: 380 V 50 Hz 8P IE3				
renormance	. 300 V 50 HZ 6F 1E3				
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	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 730 rpm	Design		: B	
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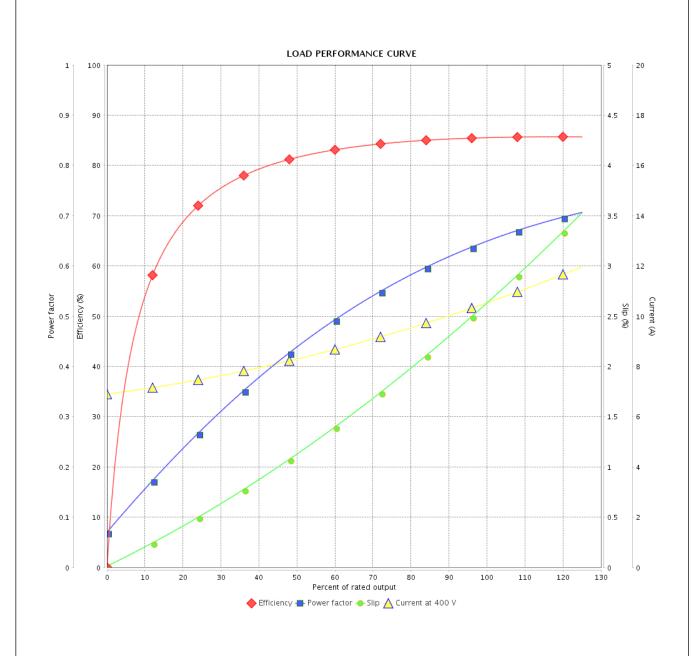
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Performance	: 400 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.5 A : 5.6 : 39.6 ft.lb : 229 % : 290 % : 730 rpm	` '		: 1.15 : 80 K		
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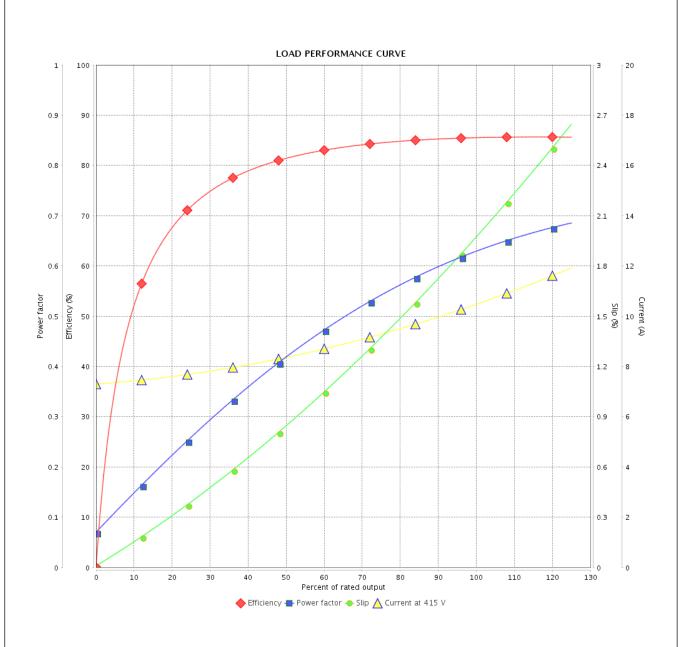
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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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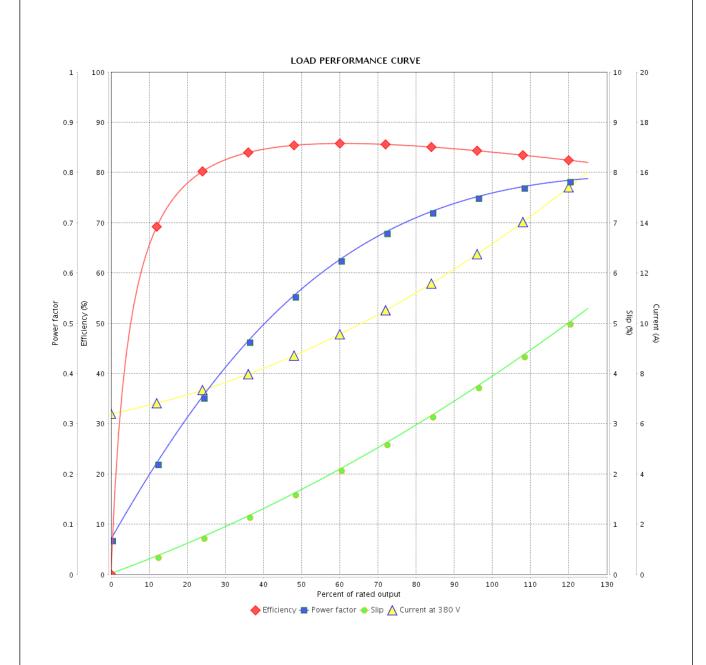
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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 4.3 : 54.7 ft.lb : 150 % : 190 % : 720 rpm	1 1		: 1.00 : 105 K	
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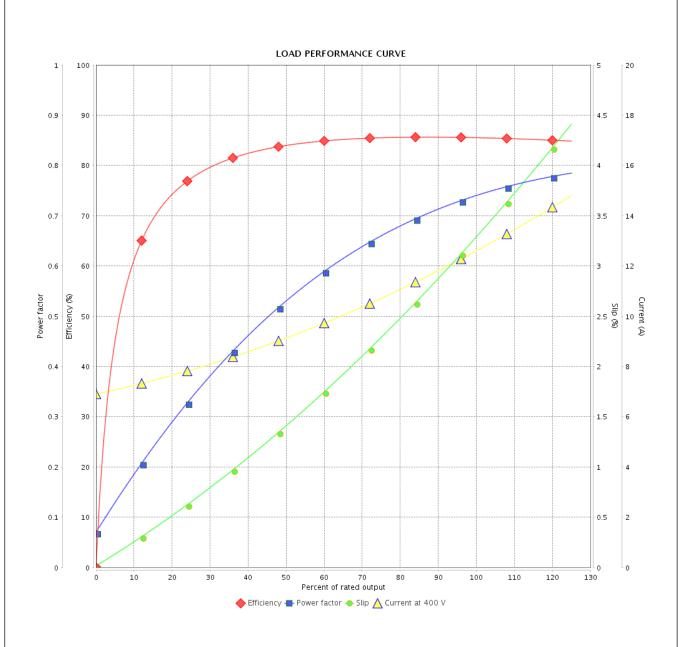
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13025620

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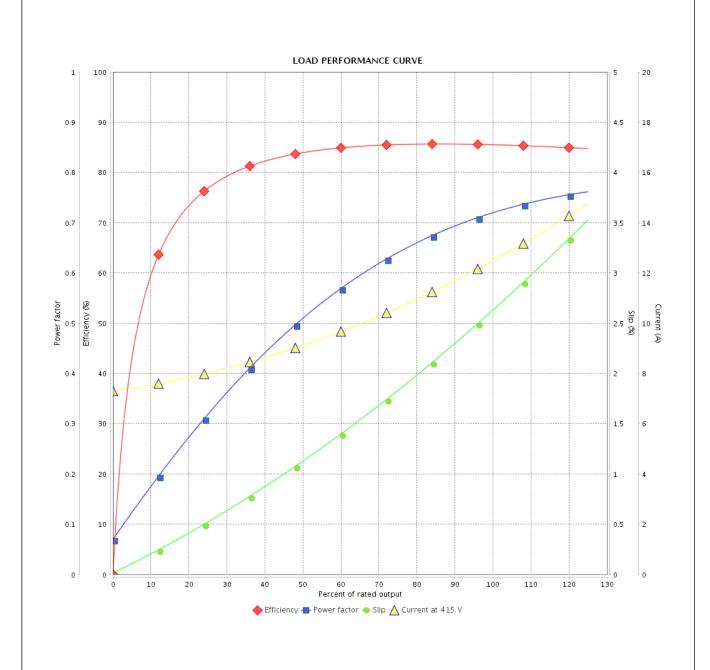


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22



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	Design		
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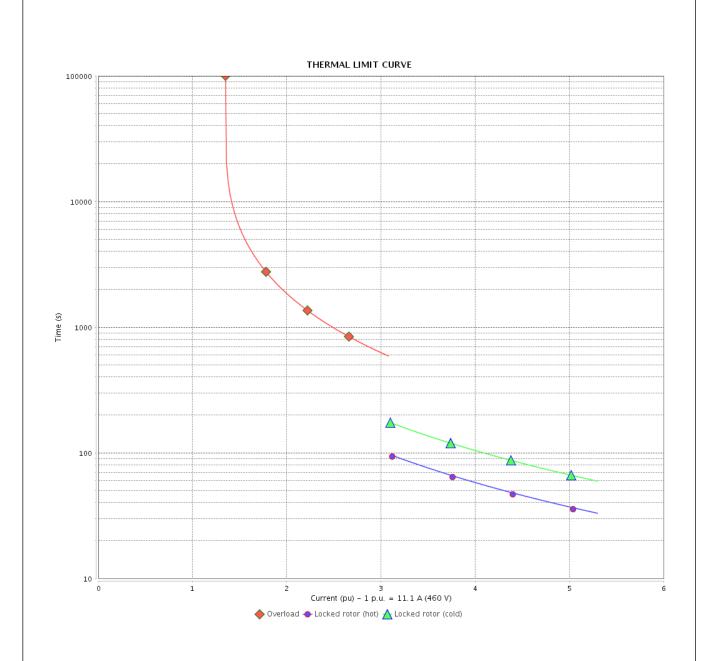


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Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	13025620	
		hase		Catalog # :	00709ET3E25	SETC W22
				Catalog # .	00709E13E2	001C-VV22
Performance	: 23	30/460 V 60 Hz 8P				
Rated current		2.2/11.1 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC Rated torque	: 5. : 44	3 4.8 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
Locked rotor torqu	e : 20	00 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		50 % 30 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•	J. J.			
Cooling constant						
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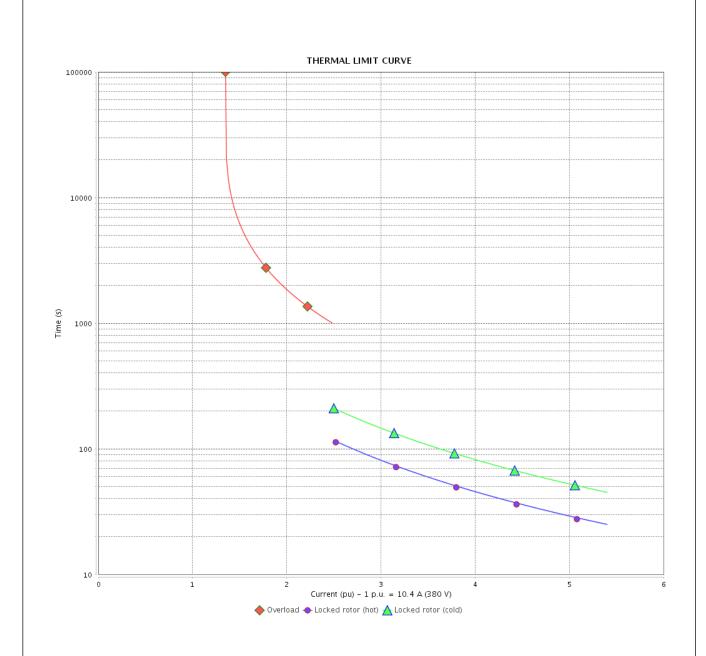


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13025620 00709ET3E25	66TC-W22
Performance		: 380 V 50 Hz 8P IE3				
Rated current LRC		: 10.4 A : 5.4	Duty cycle		: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque		: 39.6 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 210 % : 260 %	Temperat		: 1.00 : 80 K	
Rated speed		: 730 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summan		Performed	Checked	Data
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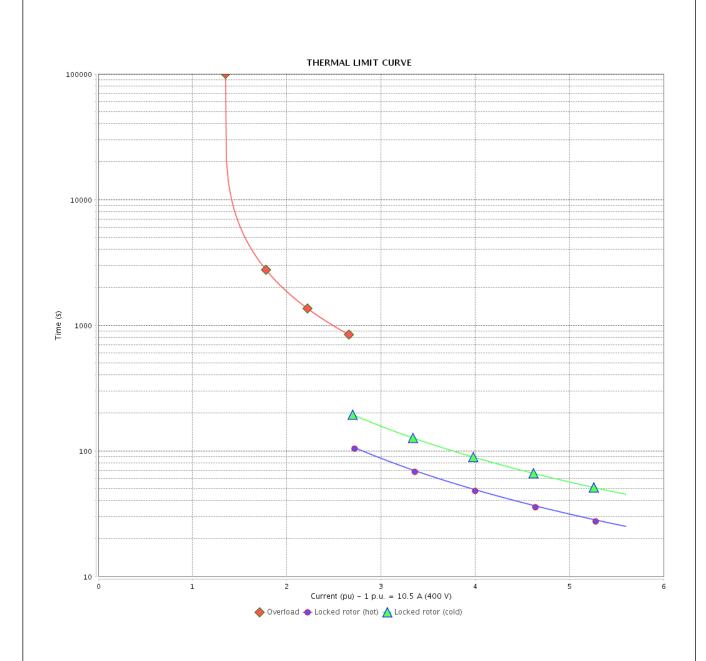


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13025620 00709ET3E25	56TC-W22
Performance	:	400 V 50 Hz 8P IE3				
Rated current LRC	:	10.5 A 5.6	Duty cycle		: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq	ue :	39.6 ft.lb 229 %	Insulation Service fa	ictor	: F : 1.15	
Breakdown torqu Rated speed		290 % 730 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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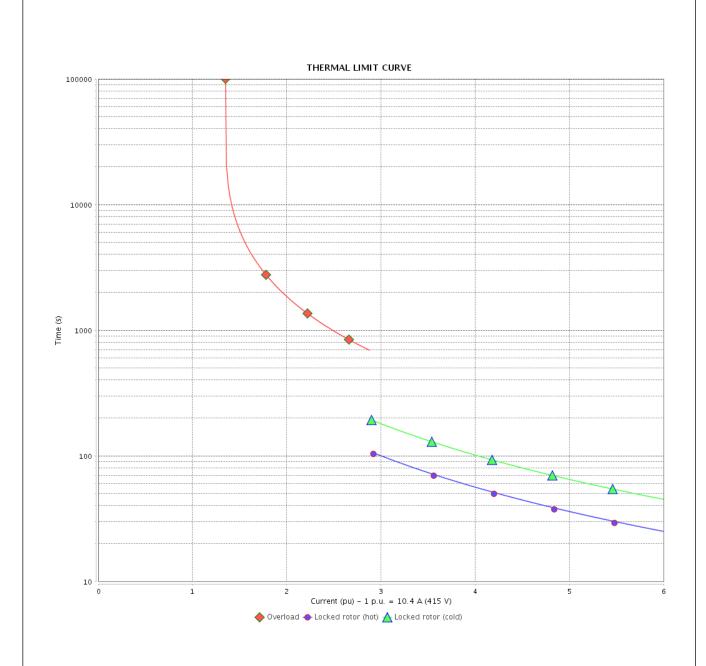


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	13025620 00709ET3E28	56TC-W22
Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC	: 10.4 A : 6.0	Moment of inertia (J)	: 4.43 sq.ft.lb	
Rated torque	: 39.3 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 260 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 320 % : 735 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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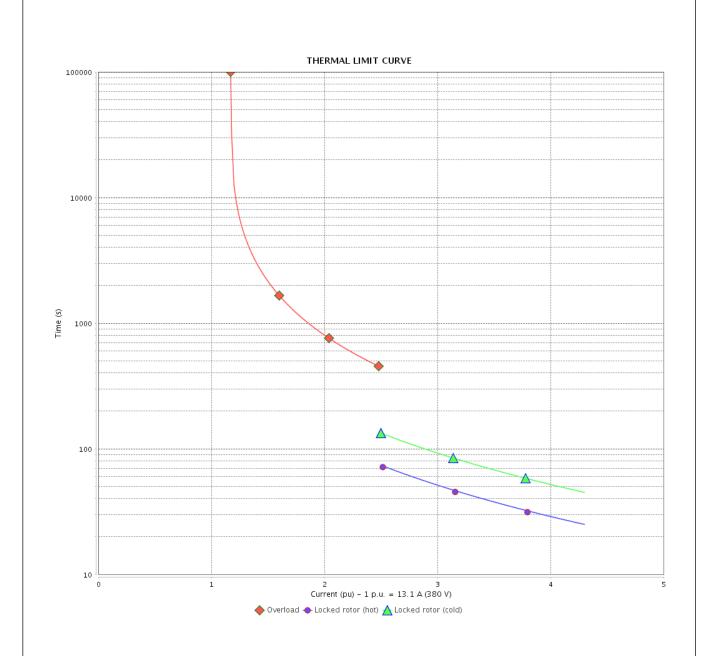


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Product line	1:	NEMA Premium Efficiency	Three-	Product code :	13025620	
		hase		Catalog # :	00709ET3E25	SETC W22
				Catalog # .	00709E13E20	001G-VV2Z
Performance	: 38	80 V 50 Hz 8P IE2				
Rated current		3.1 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC Rated torque	: 4. : 5 ⁴	.3 4.7 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 15	50 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		90 % 20 rpm	Temperatu Design	ire rise	: 105 K : B	
		· p ····	_ 50.911			
Heating constant Cooling constant						
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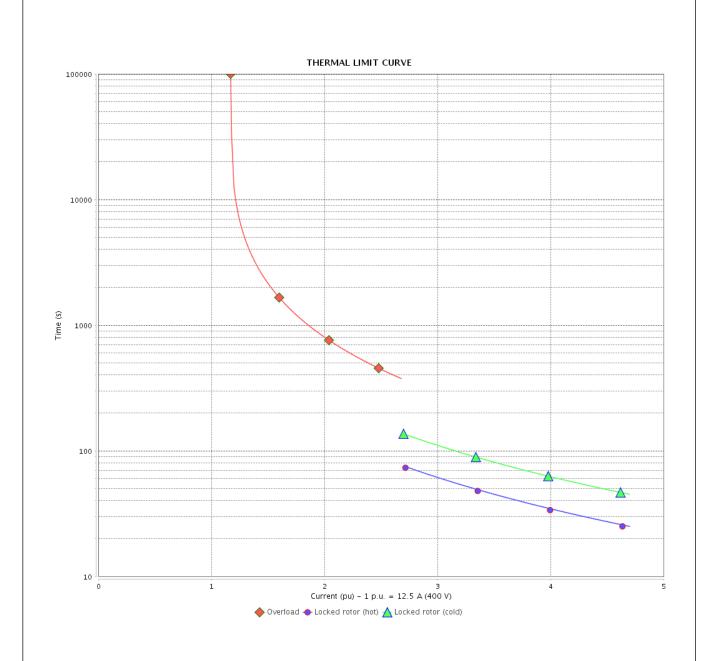


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Product line	: NEMA Premium Efficiency T Phase	Fhree- Product code : Catalog # :	13025620 00709ET3E256	TC-W/22
			00709E13E230	10-4422
Performance	: 400 V 50 Hz 8P IE2			
Rated current	: 12.5 A	Moment of inertia (J)	: 4.43 sq.ft.lb	
LRC Rated torque	: 4.7 : 54.3 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 725 rpm	Design	: B	
Heating constant				
Cooling constant				
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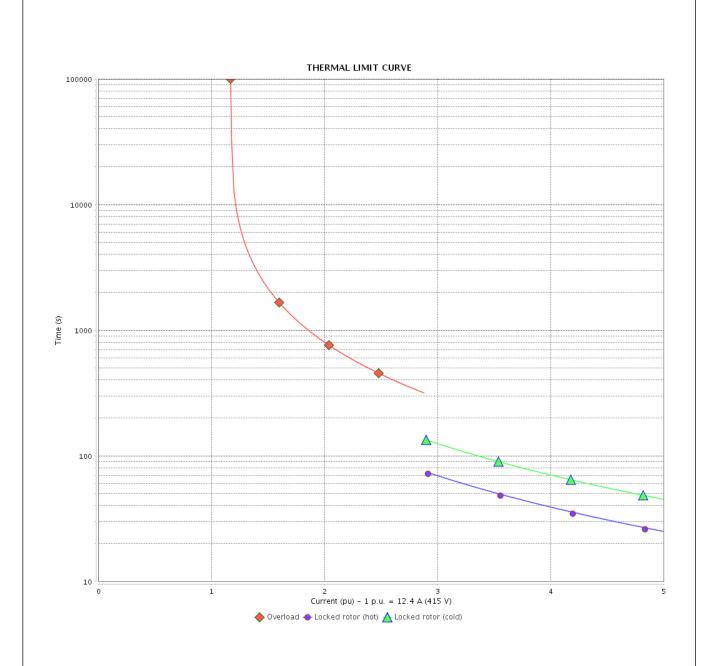


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13025620 00709ET3E25	56TC-W22
Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC		: 12.4 A : 5.0	Moment of Duty cycle	of inertia (J) e	: 4.43 sq.ft.lb : Cont.(S1)	
Rated torque		: 54.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 229 %	Service fa Temperat		: 1.15 : 105 K	
Rated speed		: 730 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

Phase

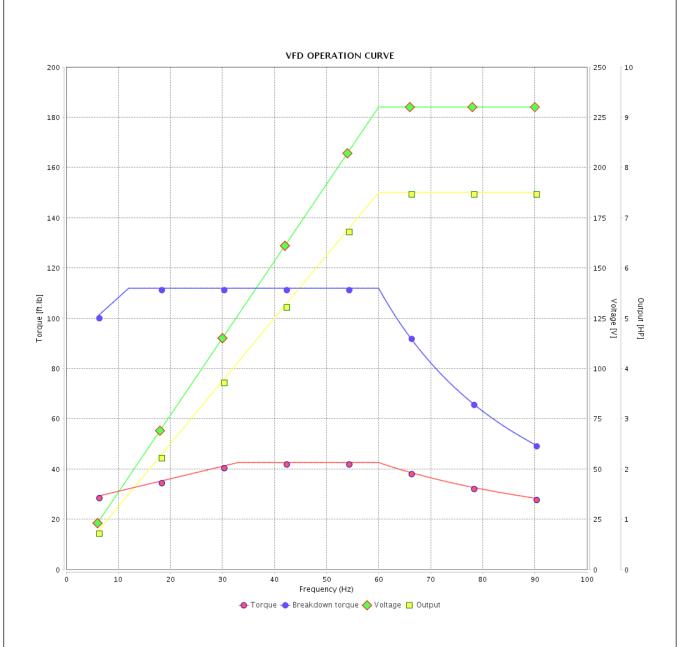
Product code: 13025620

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Performance	:	230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :: !e ::	22.2/11.1 A 5.3 44.8 ft.lb 200 % 250 % 880 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



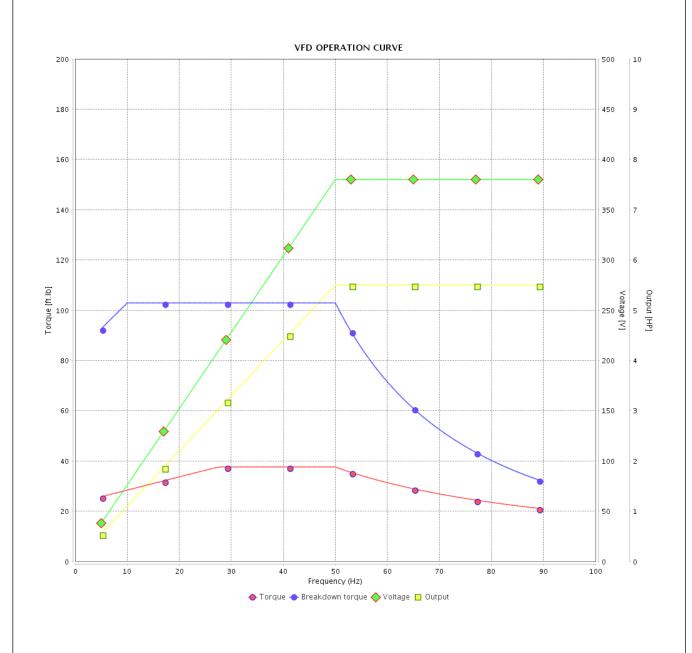
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Product line : NEMA Premium Efficiency Three- Product code : 13025620

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 in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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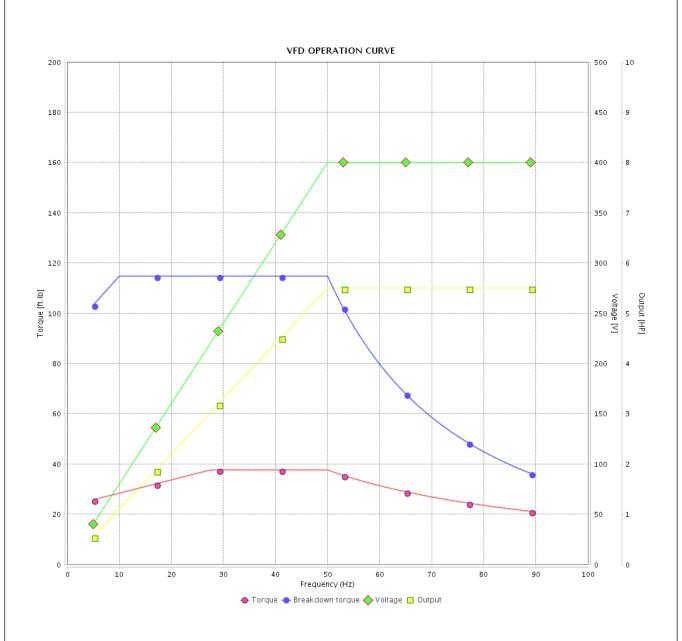
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 13025620

Catalog #: 00709ET3E256TC-W22

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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 Temperati Design	class actor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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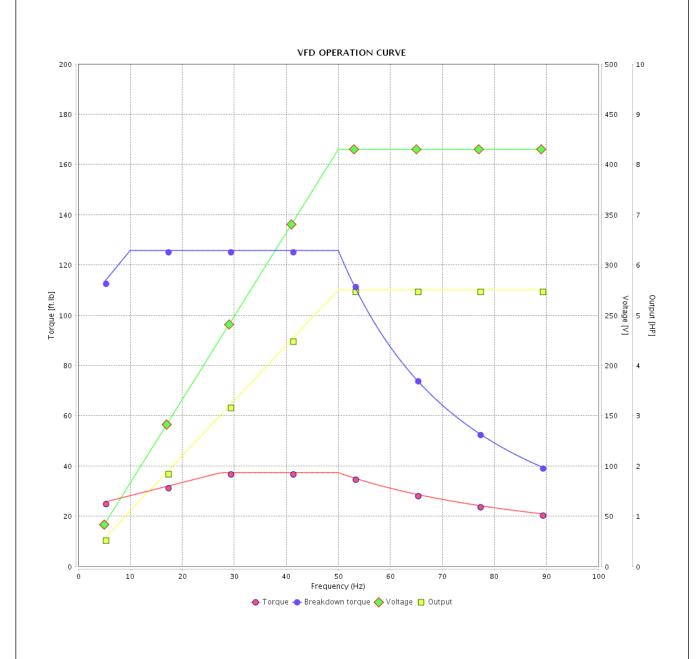


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Product line : NEMA Premium Efficiency Three- Product code : 13025620

Phase

Catalog #: 00709ET3E256TC-W22



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 1	: 10.4 A Moment		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	ue : 2	60 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 3	20 %	0 % Temperature rise		: 80 K	
Rated speed	: 7	35 rpm	Design		: B	
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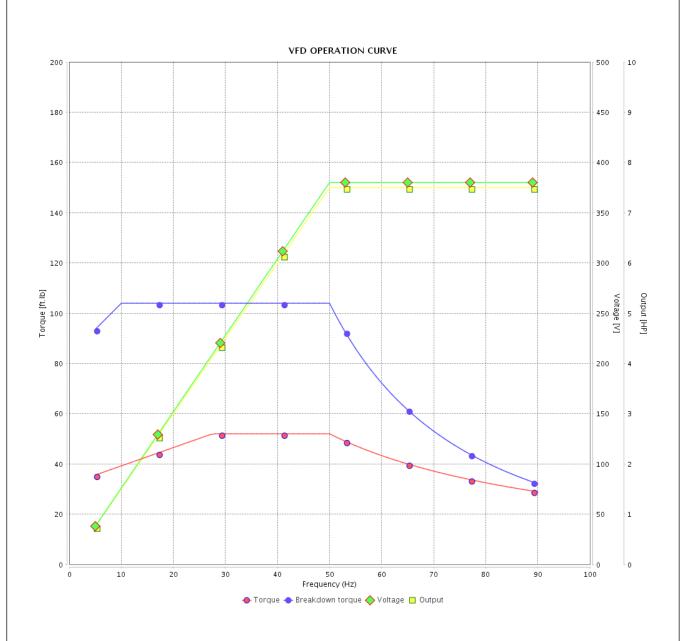
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13025620

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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 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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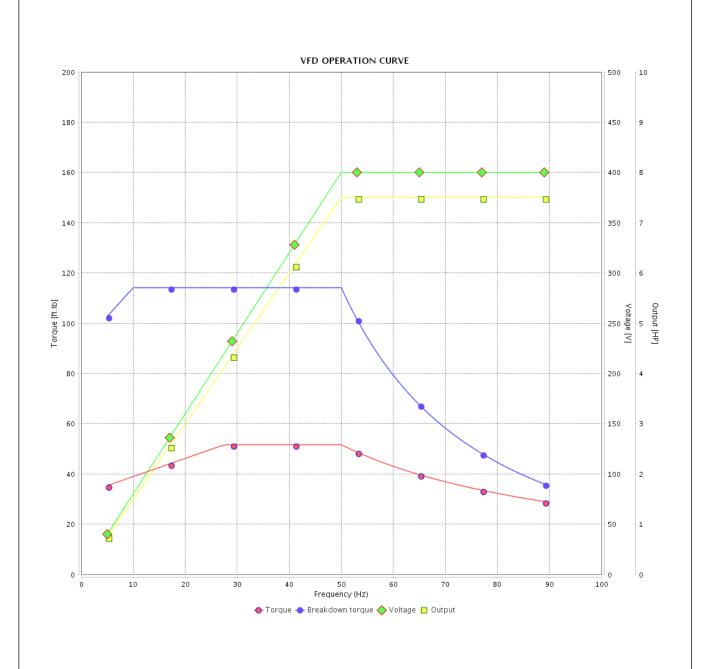
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13025620

Catalog #: 00709ET3E256TC-W22



Performance	: 4	00 V 50 Hz 8P IE2				
Rated current	: 1	: 12.5 A Moment of		f inertia (J)	: 4.43 sq.ft.lb	
LRC	: 4	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	4.3 ft.lb	Insulation	class	: F	
Locked rotor toro	μe : 1	70 %	Service fa	ctor	: 1.15	
Breakdown torque : 210 %		10 %	Temperati	Temperature rise		
Rated speed	: 7	25 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

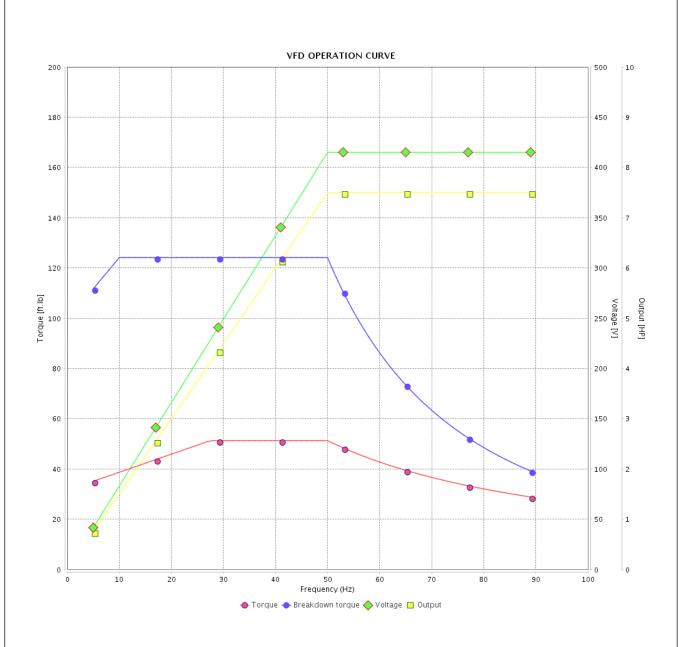
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Performance	: 4	15 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 5 jue : 1 ie : 2	2.4 A 5.0 64.0 ft.lb 90 % 629 % 630 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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