### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



80 K

0.89

80 K

Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447060

80 K

Catalog #: 01536ET3E254TC-W22

Frame : 254/6TC 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 Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 281 lb Altitude : IP55 Protection degree Moment of inertia (J) : 1.26 sq.ft.lb

Design : B

Output [HP]	15	10	10	10	15	15	15
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	34.4/17.2	14.5	14.0	13.7	20.7	19.6	19.1
L. R. Amperes [A]	230/115	98.6	105	108	101	108	113
LRC [A]	6.7x(Code	6.8x(Code H)	7.5x(Code J)	7.9x(Code J)	4.9x(Code D)	5.5x(Code E)	5.9x(Code

LRC [A]	6.7X(Code	o.ox(Code n)	7.5x(Code J)	7.9x(Code J)	4.9X(Code D)	(0.0x(\code \=)	5.9X(Code
	G)						
No load current [A]	10.6/5.30	5.10	5.40	5.70	5.10	5.40	5.70
Rated speed [RPM]	3530	2945	2950	2955	2910	2920	2925
Slip [%]	1.94	1.83	1.67	1.50	3.00	2.67	2.50
Rated torque [ft.lb]	22.3	17.8	17.8	17.8	27.1	27.0	26.9
Locked rotor torque [%]	220	200	229	250	170	190	210
Breakdown torque [%]	270	310	350	380	200	229	240
Service factor	1.25	1.25	1.25	1.25	1.00	1.00	1.15

Locked rotor time		41s (cold)	50s (cold)	50s (cold)	46s (cold)	28s (cold)	28s (cold)	28s (cold)
		23s (hot)	28s (hot)	28s (hot)	26s (hot)	16s (hot)	16s (hot)	16s (hot)
Noise level <sup>2</sup>		72.0 dB(A)	67.0 dB(A					
	25%							
Efficiency (0/)	50%	89.5	90.3	90.1	89.9	89.5	90.2	90.2
Efficiency (%)	75%	91.0	90.5	90.7	90.8	90.2	90.2	91.0
	100%	91.0	90.5	90.7	90.8	89.5	90.2	90.2
	25%							
Power Factor	50%	0.77	0.73	0.69	0.67	0.83	0.81	0.79
Fower Factor	75%	0.85	0.83	0.80	0.78	0.88	0.87	0.86

80 K

80 K

80 K

100% 0.88 0.87 0.85 0.84 0.90 0.90 Non drive end Drive end Foundation loads 6309 C3 Bearing type 6209 C3 Max. traction : 169 lb

80 K

V'Ring Sealing V'Ring : 450 lb Max. compression Lubrication interval 19000 h 20000 h

Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM

Notes

Temperature rise

USABLE @208V 38.0A SF 1.15 SFA 43.7A

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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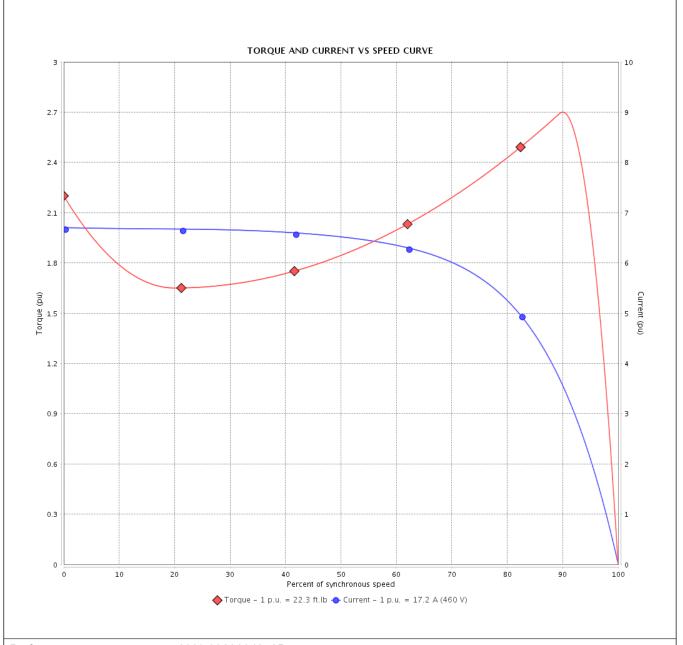


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12447060

Catalog #: 01536ET3E254TC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 34.4/17.2 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed

Locked rotor time : 41s (cold) 23s (hot)

: 3530 rpm

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Design

: B



Revision

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447060 Catalog #: 01536ET3E254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 14.5 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 14.5 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F : 200 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time : 50s (cold) 28s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



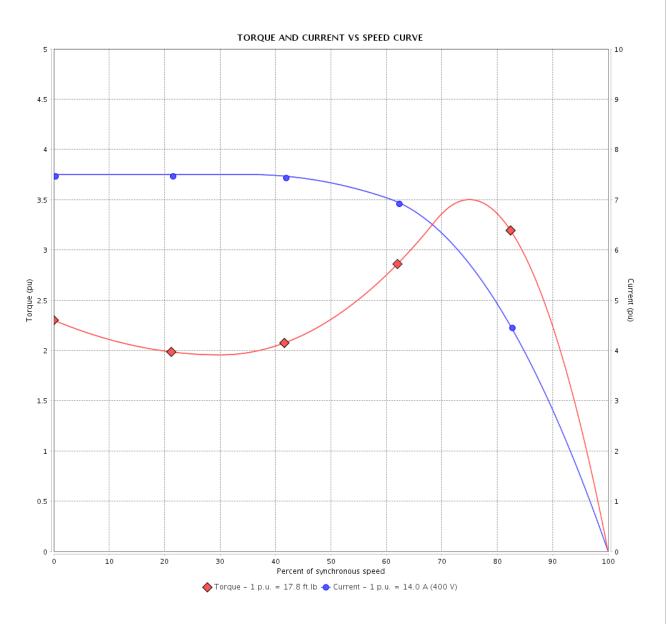
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447060

Catalog #: 01536ET3E254TC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 14.0 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447060 Catalog #: 01536ET3E254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 13.7 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 13.7 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary** 

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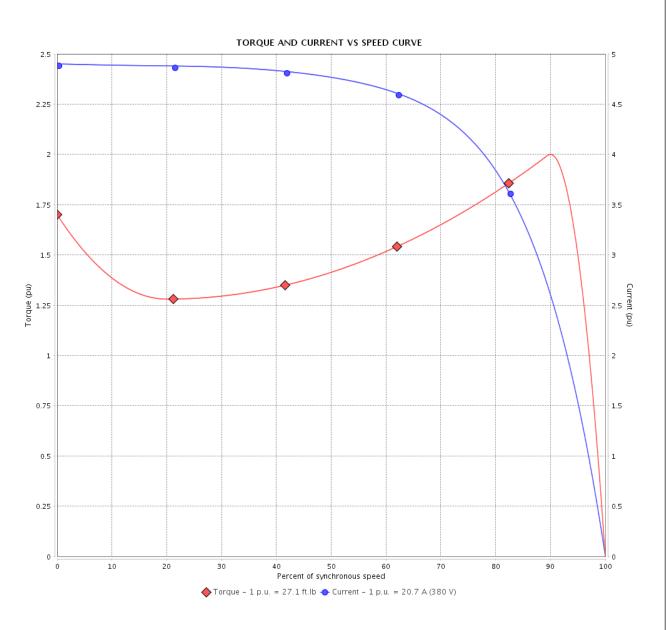


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	: 380 V 50 Hz 2P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.7 A : 4.9 : 27.1 ft.lb : 170 % : 200 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Locked rotor time	: 28s (cold) 16s (hot)	I	

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447060 Catalog #: 01536ET3E254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.0 ft.lb ◆ Current - 1 p.u. = 19.6 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 19.6 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.0 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Locked rotor time : 28s (cold) 16s (hot) Rev. Performed Checked Date **Changes Summary** 

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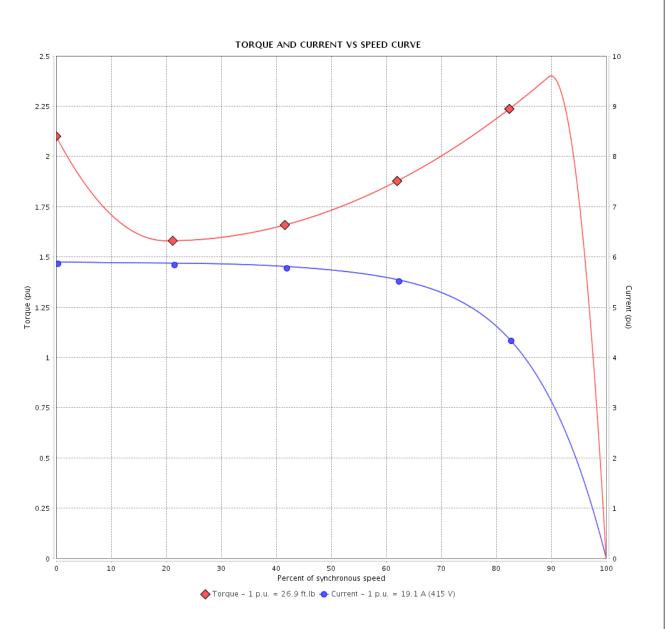


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01536ET3E254TC-W22

12447060



Performance	: 415 V 50 Hz 2P IE2			
Rated current	: 19.1 A	Moment of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 26.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2925 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)	,		

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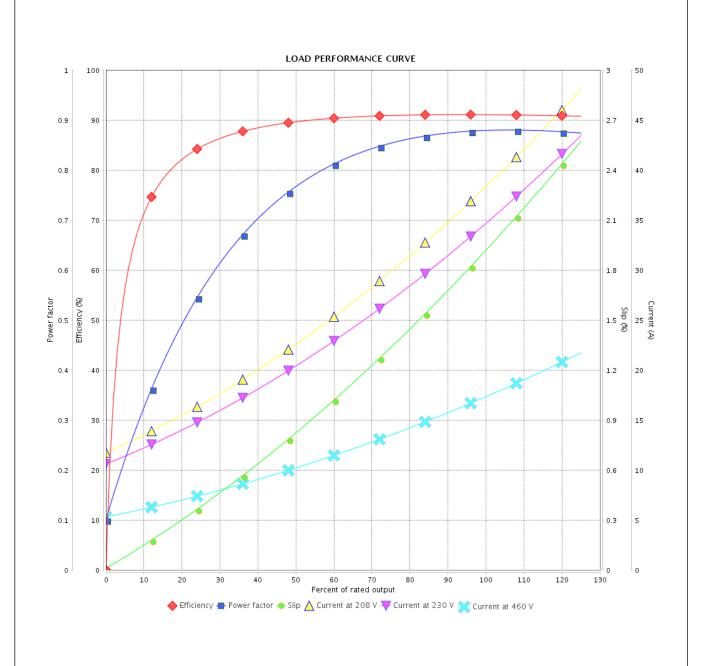


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	34.4/17.2 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	:	6.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	22.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.25	
Breakdown torque	:	270 %	Temperati	ıre rise	: 80 K	
Rated speed	:	3530 rpm	Design		: B	
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Phase

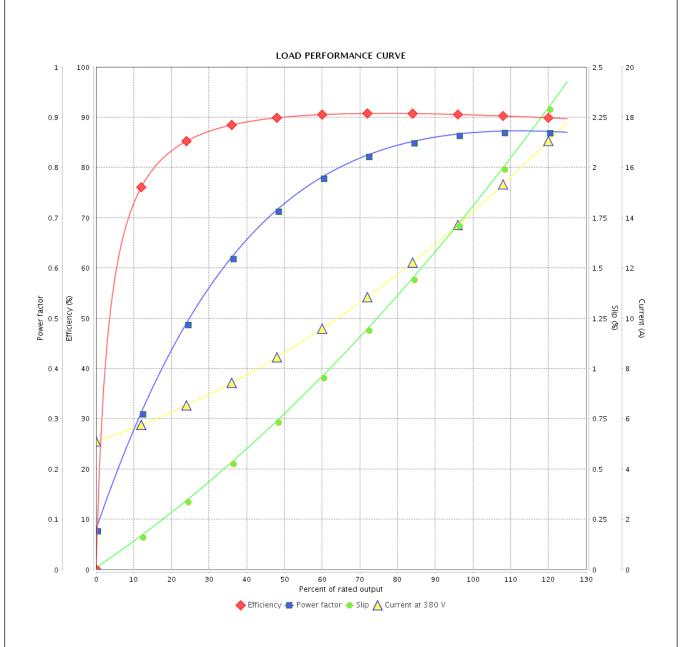
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.5 A : 6.8 : 17.8 ft.lb : 200 % : 310 % : 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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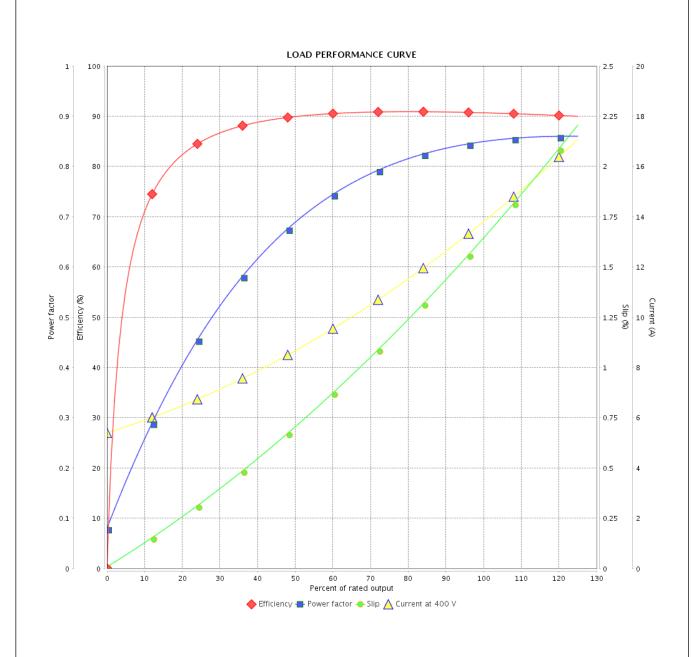
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 7.5 : 17.8 ft.lb : 229 % : 350 % : 2950 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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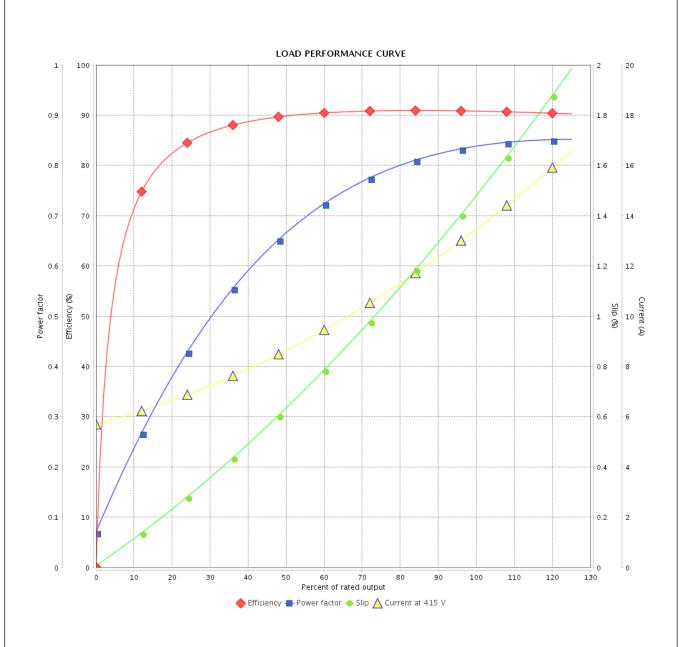
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Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.9 : 17.8 ft.lb : 250 % : 380 % : 2955 rpm	Moment of inertia ( Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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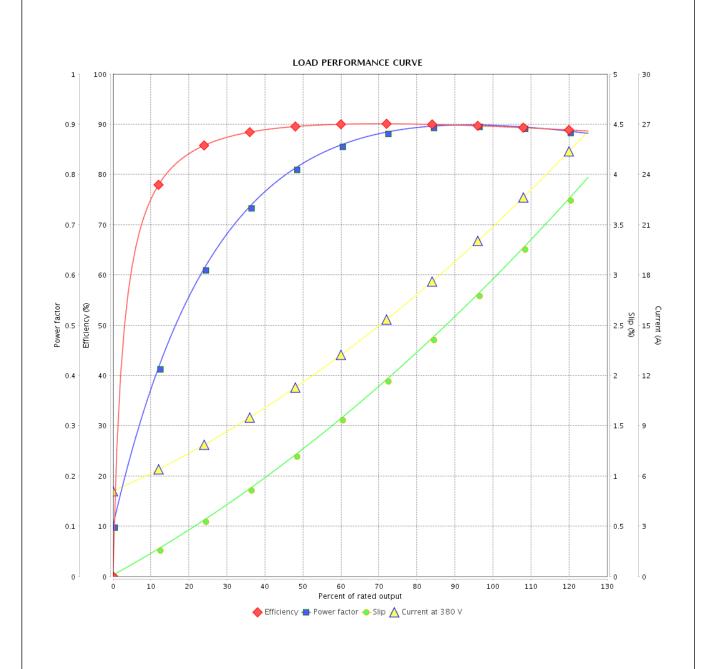
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	•		class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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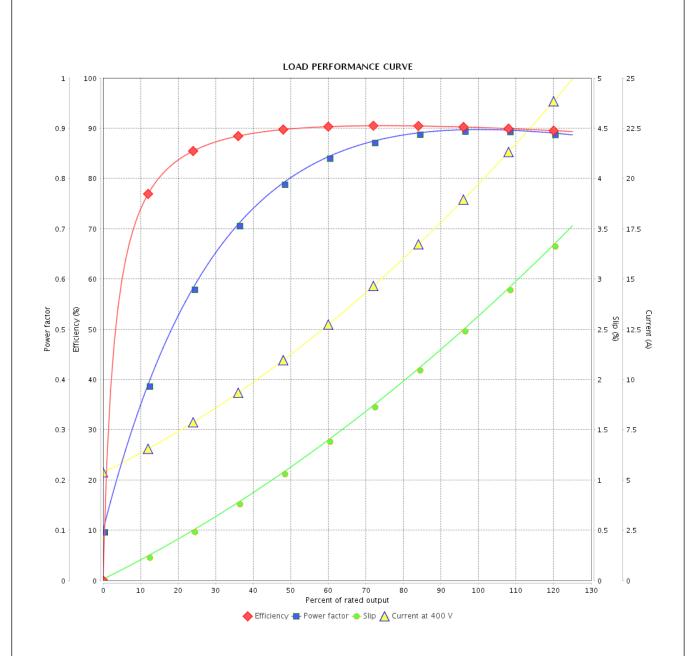
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Phase

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque	: 19.6 A : 5.5 : 27.0 ft.lb : 190 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 229 % : 2920 rpm	Temperature rise Design		: 80 K : B	
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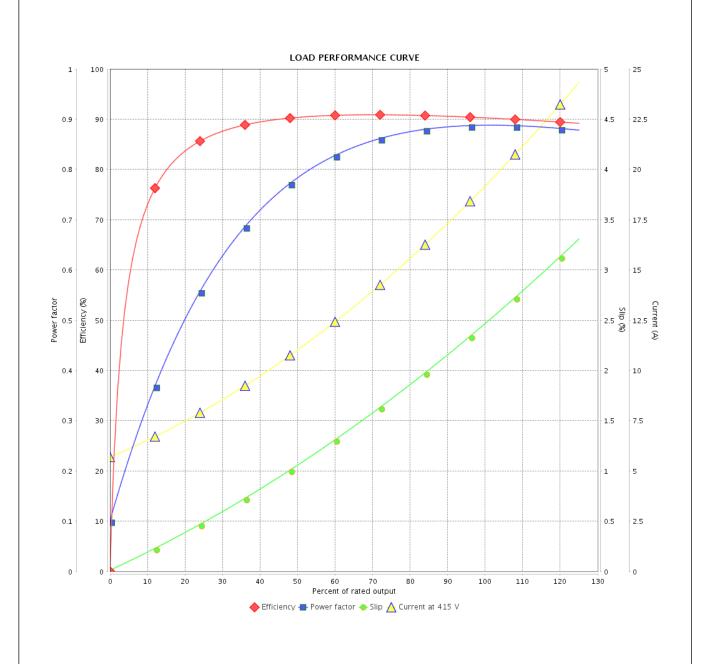


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	: 4	115 V 50 Hz 2P IE2				
Rated current	: 1	I9.1 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 5	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	26.9 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e : 2	210 %	Service fa	ctor	: 1.15	
Breakdown torque		240 %	Temperati	Temperature rise		
Rated speed	: 2	2925 rpm	Design		: B	
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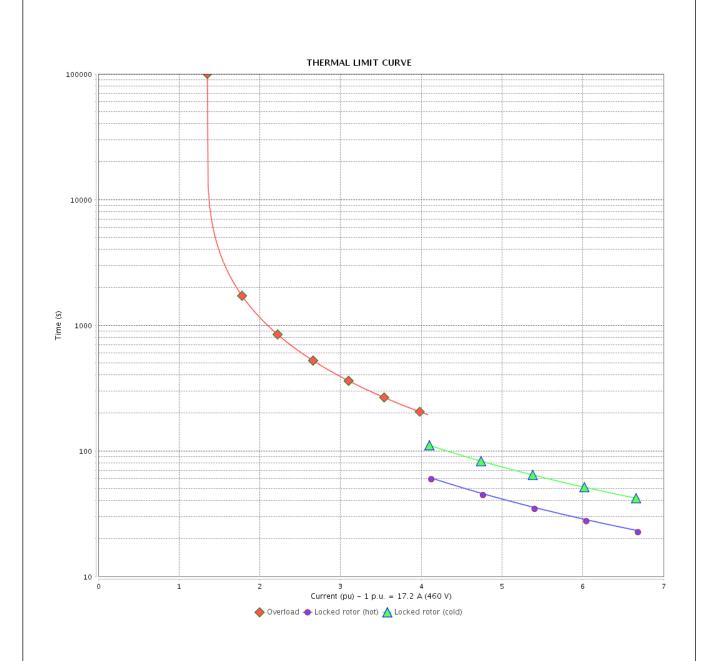


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12447060	
		Phase				5.4TO M/00
				Catalog # :	01536ET3E2	541C-VV22
Performance	:	230/460 V 60 Hz 2P				
Rated current		34.4/17.2 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC		6.7 22.3 ft.lb	Duty cycle		: Cont.(S1) : F	
Rated torque Locked rotor torc		22.3 ILID 220 %	Insulation Service fa		: 1.25	
Breakdown torqu	ie :	270 %	Temperati		: 80 K	
Rated speed	:	3530 rpm	Design		: B	
Heating constant						
Cooling constant				,		
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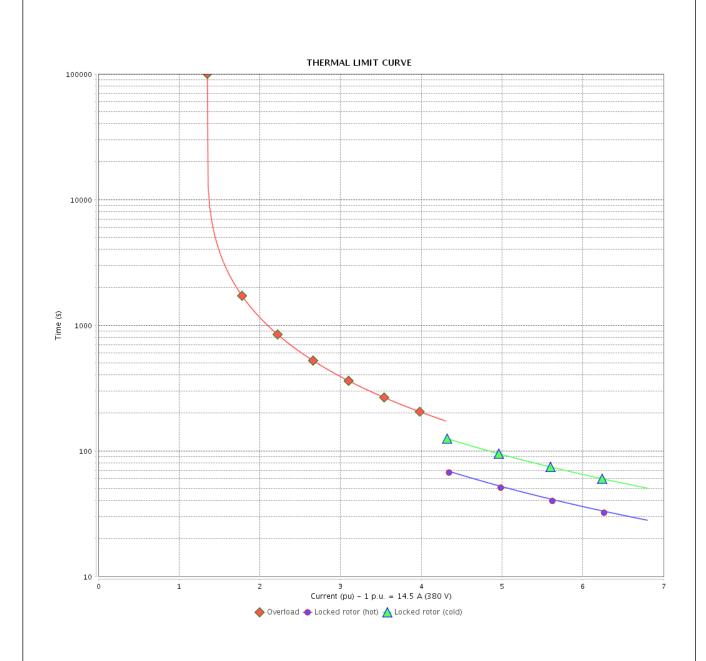


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447060 01536ET3E25	54TC-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 14.5 A : 6.8	Moment of Duty cycle	of inertia (J) e	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 17.8 ft.lb : 200 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K	
Rated speed		: 2945 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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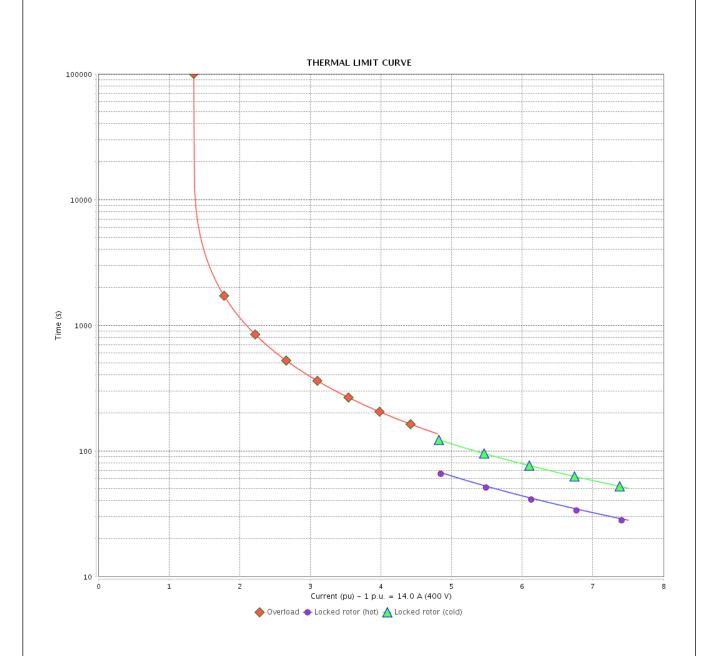


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12447060	
	Phase		Catalog # :	01536ET3E2	54TC-W22
Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 14.0 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC Rated torque	: 7.5 : 17.8 ft.lb	Duty cycle	9	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 350 % : 2950 rpm	Temperati Design	ure rise	: 80 K : B	
	. 2000 19111	Design		. <i>D</i>	
Heating constant Cooling constant					
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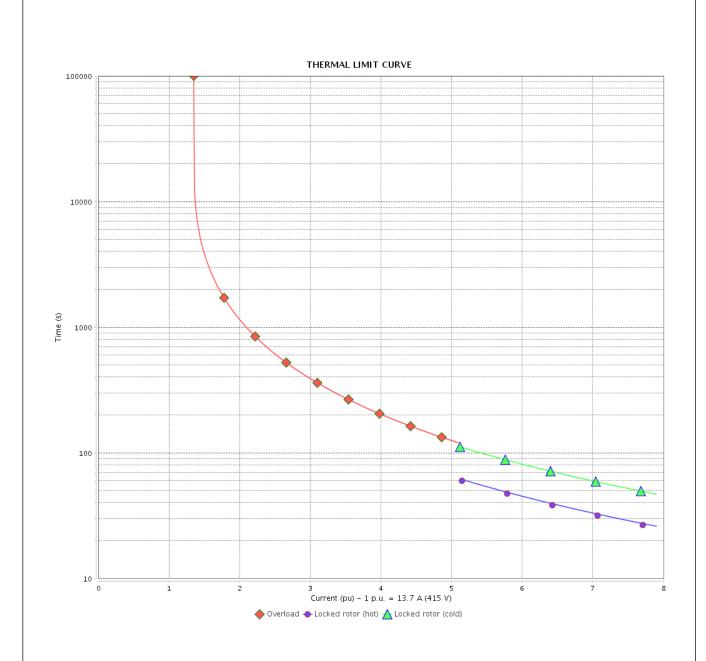


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12447060	
	Pl	hase		Catalog # :	01536ET3E25	54TC-W22
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<b>5</b> (		45.V.50.U. OD I50				
Performance Rated current		15 V 50 Hz 2P IE3 3.7 A	Moment	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 7.		Duty cycle	i iliertia (J)	: Cont.(S1)	
Rated torque		7.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 30 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		955 rpm	Design		: B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

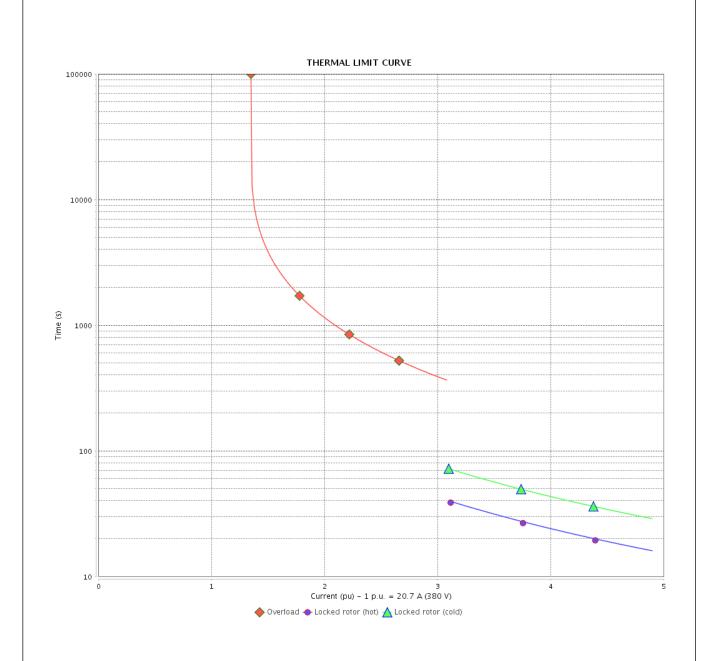


Customer	:					
Product line		NEMA Premium Efficiency l		Product code :	12447060 01536ET3E2	54TC-W22
Performance Rated current LRC Rated torque Locked rotor torqu	: 2 : 4 : 2	80 V 50 Hz 2P IE2 0.7 A .9 7.1 ft.lb 70 %	Moment of Duty cycle Insulation Service fac	class	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	e : 2	00 % 910 rpm	Temperatu Design		: 80 K : B	
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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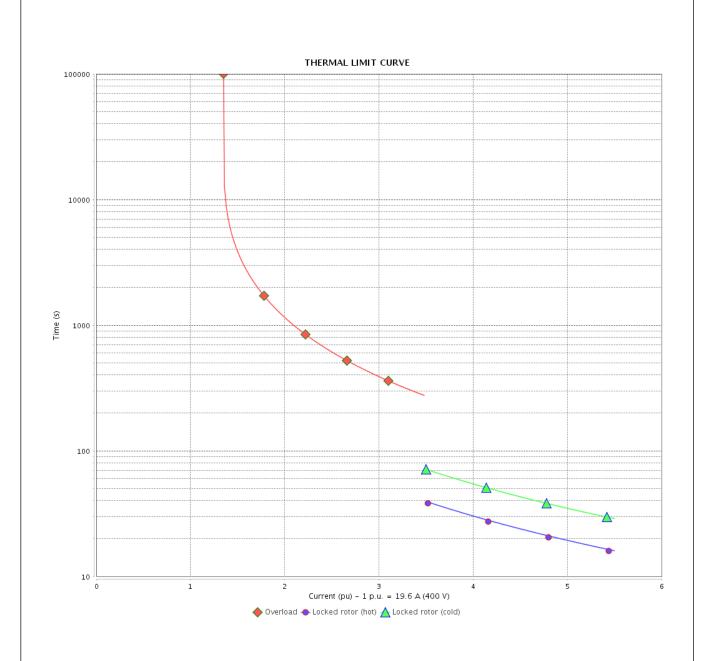


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> nase		Product code :	12447060	
			(	Catalog # :	01536ET3E2	54TC-W22
Performance	: 40	00 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 27 : 19 : 22	9.6 A 5 7.0 ft.lb 90 % 29 % 920 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•				
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

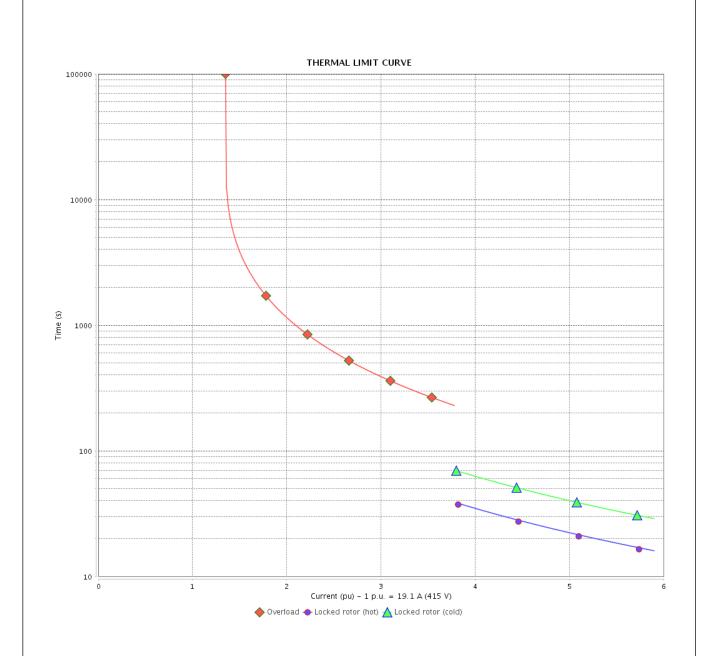


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Oustoffiel	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12447060	
	1 11400		Catalog # :	01536ET3E25	54TC-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.1 A : 5.9 : 26.9 ft.lb : 210 % : 240 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	. 2020 ipili	Doolgii			
Heating constant Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage

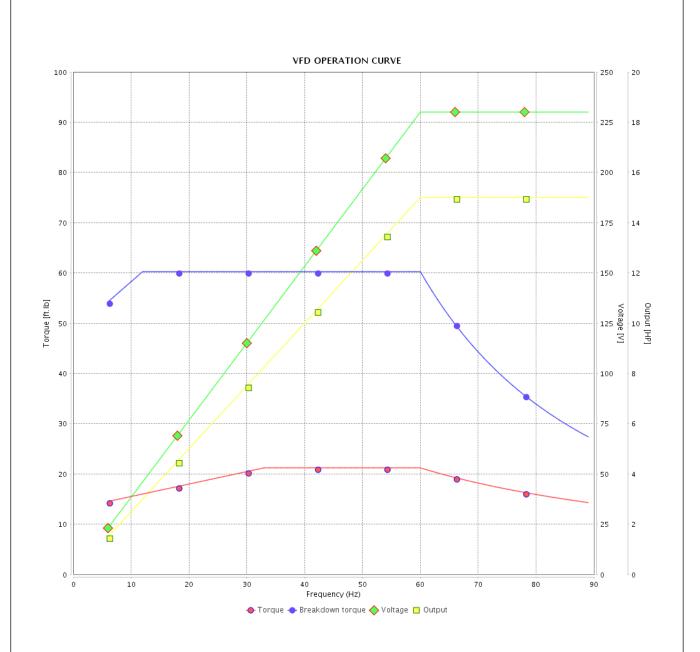


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance : 230/460 V 60 Hz 2P : 34.4/17.2 A Moment of inertia (J) : 1.26 sq.ft.lb Rated current **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

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#### Three Phase Induction Motor - Squirrel Cage

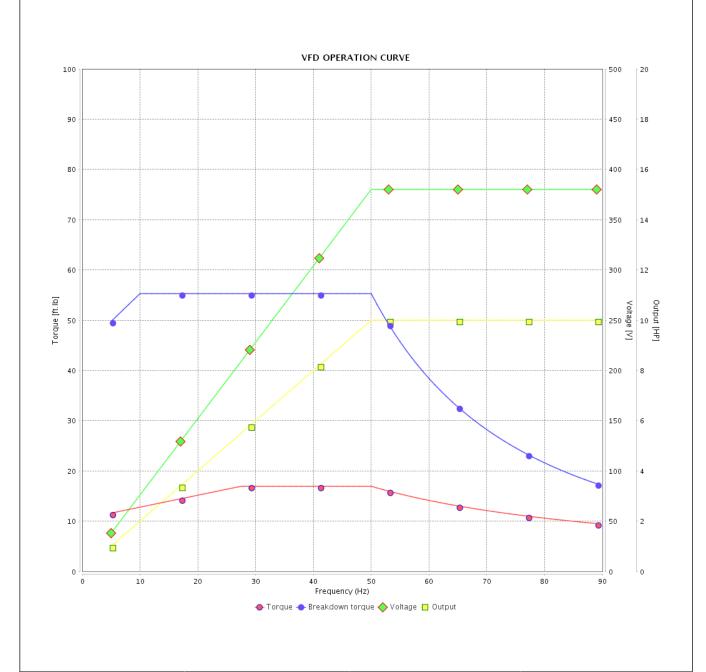


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	: 3	380 V 50 Hz 2P IE3				
Rated current	: '	14.5 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 6	3.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	17.8 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	200 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 3	310 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	2945 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product co

Phase

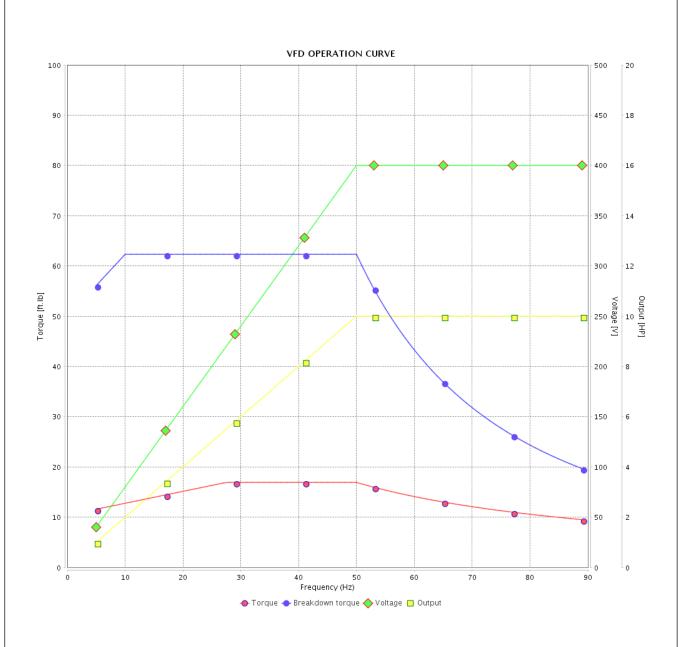
Product code: 12447060

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Revision



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 7.5 : 17.8 ft.lb : 229 % : 350 % : 2950 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 1.26 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

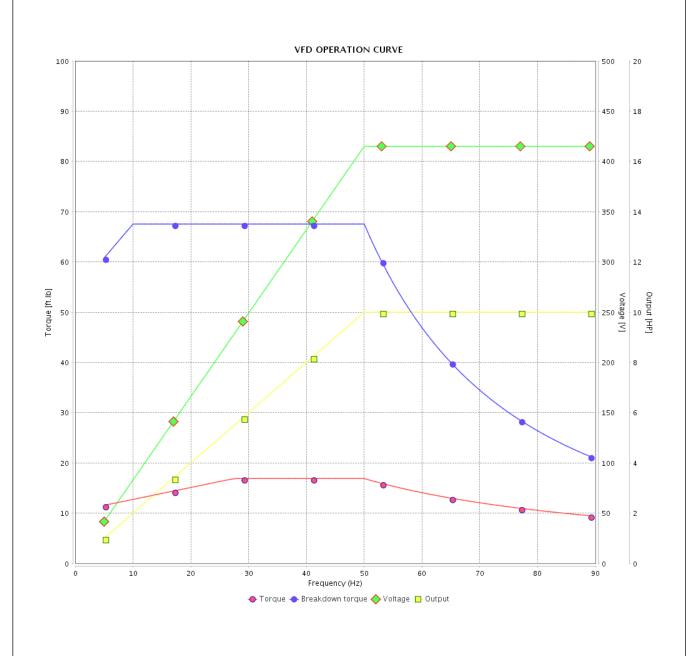


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 1	3.7 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 7	.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:1	7.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	50 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	80 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	955 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

Product line : NEMA Premium Efficiency Three- Product

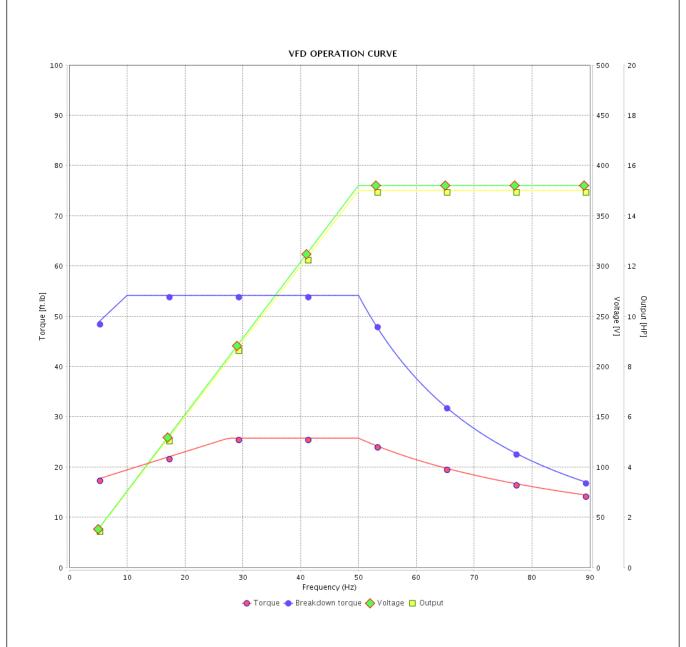
Phase

Product code: 12447060

Catalog #: 01536ET3E254TC-W22

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Performance : 380 V 50 Hz 2P IE2 Rated current : 20.7 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class : 27.1 ft.lb : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

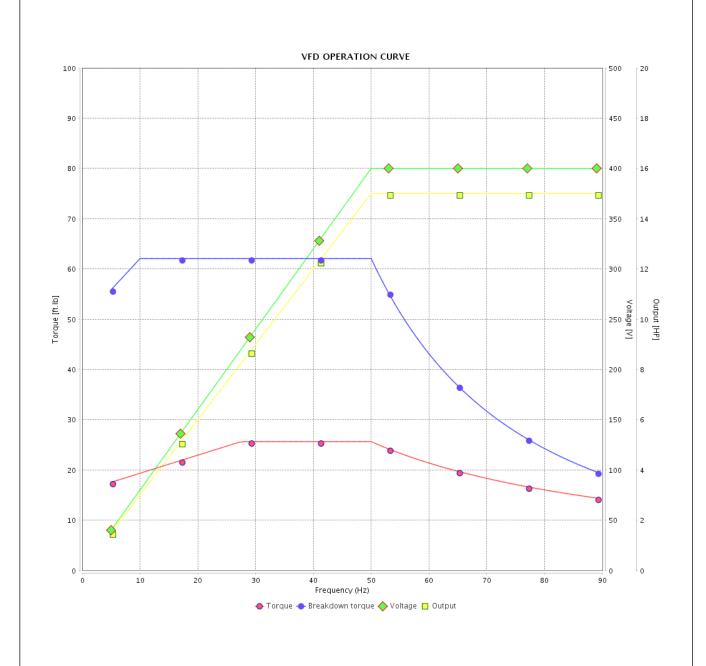


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447060

Phase

Catalog #: 01536ET3E254TC-W22



Performance	:	400 V 50 Hz 2P IE2				
Rated current	:	19.6 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	:	5.5	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	27.0 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	229 %	Temperati	ıre rise	: 80 K	
Rated speed	:	2920 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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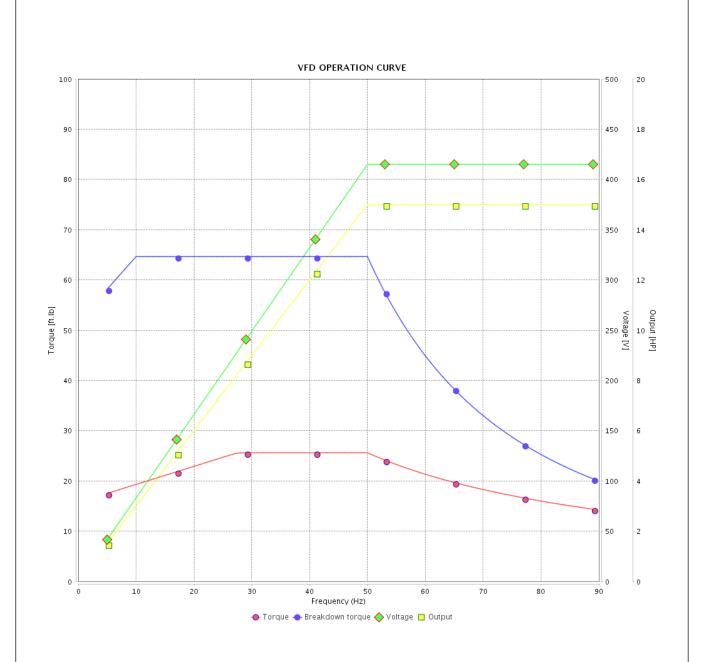
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12447060

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Performance : 415 V 50 Hz 2P IE2 : 19.1 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : 26.9 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

