### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22

Frame : 254/6TC 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> : 318 lb

/ tititude		. 1000 III.a.	J.1.	/ \ppi 0/	v. weigin	. 0	10 10	
Protection degree		: IP55		Momer	nt of inertia (J)	) : 2	.62 sq.ft.lb	
Design		: B						
Output [HP]		15	10	10	10	15	15	15
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		36.0/18.0	15.2	14.8	14.5	21.5	20.5	20.0
L. R. Amperes [A]		230/115	109	115	120	105	111	118
LRC [A]		6.4x(Code	7.2x(Code J)	7.8x(Code J)	8.3x(Code K)	4.9x(Code E)	5.4x(Code F)	5.9x(Code
		G)						G)
No load current [A]		14.4/7.20	6.70	7.10	7.40	7.10	7.60	7.40
Rated speed [RPM]		1770	1475	1480	1480	1455	1460	1465
Slip [%]		1.67	1.67	1.33	1.33	3.00	2.67	2.33
Rated torque [ft.lb]		44.5	35.6	35.5	35.5	54.1	54.0	53.8
Locked rotor torque [%]		220	250	280	310	160	200	210
Breakdown torque	[%]	260	300	340	370	200	220	240
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	45s (cold)	39s (cold)	36s (cold)	27s (cold)	27s (cold)	27s (cold)
		17s (hot)	25s (hot)	22s (hot)	20s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level <sup>2</sup>		64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%							
Efficiency (0/)	50%	91.0	88.8	88.6	88.3	91.0	91.0	91.0
Efficiency (%)	75%	91.7	90.3	90.3	90.3	90.2	91.0	91.0
100%		92.4	90.4	90.6	90.8	90.2	91.0	91.0
	25%							
Dawer Foot-	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.69
Power Factor	75%	0.78	0.77	0.74	0.72	0.82	0.80	0.79
	100%	0.83	0.83	0.81	0.79	0.86	0.85	0.84

Drive end Non drive end Foundation loads

Bearing type : 6309 C3 6209 C3 Max. traction : 460 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 39.8A SF 1.15 SFA 45.8A

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



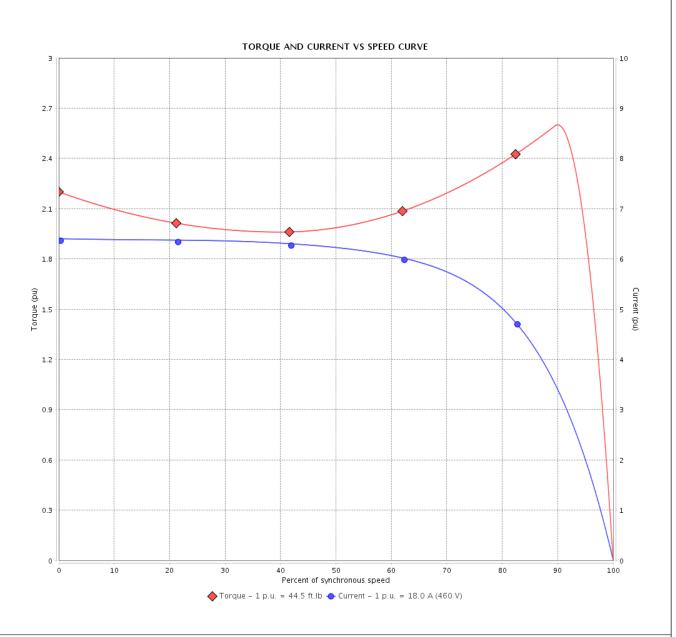
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12446945

Catalog #: 01518ET3E254TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 36.0/18.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12446945 Catalog #: 01518ET3E254TC-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

Performance : 380 V 50 Hz 4P IE3 Rated current : 15.2 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.6 ft.lb : F : 250 % Locked rotor torque Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

♦ Torque – 1 p.u. = 35.6 ft.lb ♦ Current – 1 p.u. = 15.2 A (380 V)

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

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#### Three Phase Induction Motor - Squirrel Cage

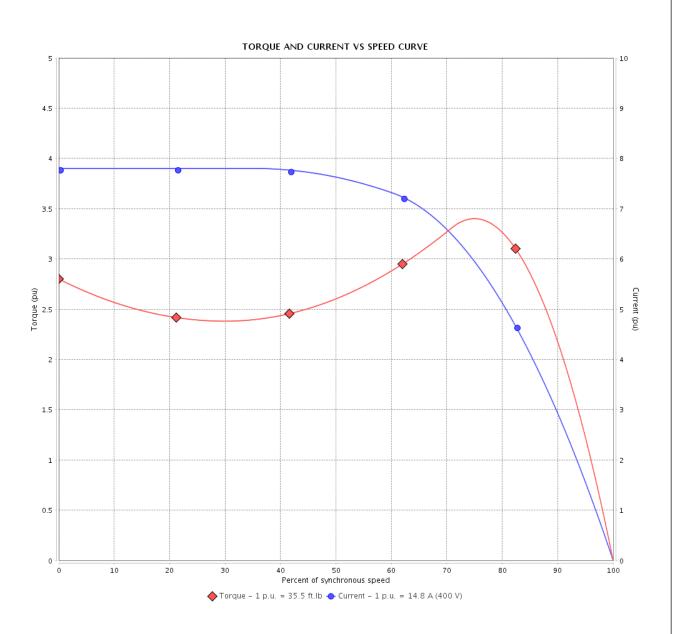


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01518ET3E254TC-W22

12446945



Performance : 400 V 50 Hz 4P IE3 Rated current : 14.8 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 35.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time

: 39s (cold) 22s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12446945 Catalog #: 01518ET3E254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ♦ Torque – 1 p.u. = 35.5 ft.lb ♦ Current – 1 p.u. = 14.5 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 14.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : 35.5 ft.lb Insulation class : F Rated torque : 310 % Locked rotor torque Service factor : 1.25 : 370 % Breakdown torque Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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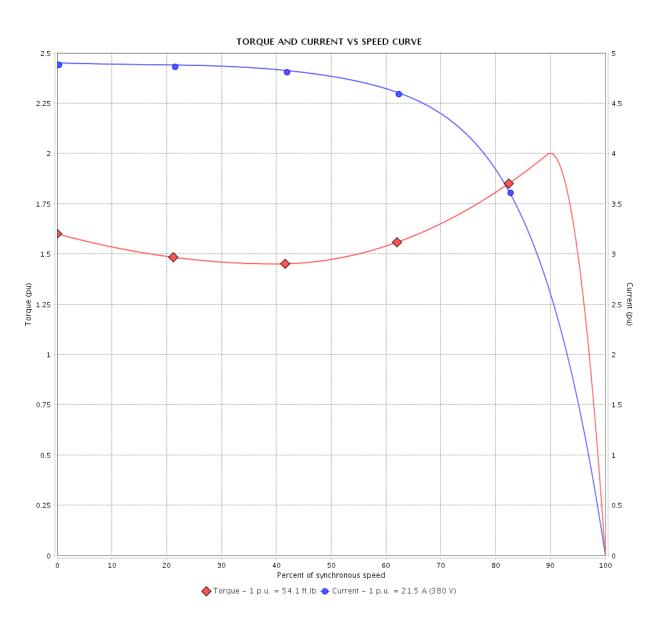
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12446945

Catalog #: 01518ET3E254TC-W22



Performance	: 380 V 50 Hz 4P IE2			
Rated current LRC	: 21.5 A : 4.9	Moment of inertia (J) Duty cycle	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 54.1 ft.lb : 160 % : 200 % : 1455 rpm	Insulation class Service factor Temperature rise Design	: F : 1.00 : 80 K : B	
Rated speed  Locked rotor time	: 27s (cold) 15s (hot)	Design	. D	

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1.5

(bd) 1.25

0.5

0.25



Current (pu)

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12446945 Catalog #: 01518ET3E254TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75

Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 54.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			
Davis	01	Dout our out	Ola a al ca al	D-4-

40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 54.0 ft.lb ◆ Current - 1 p.u. = 20.5 A (400 V)

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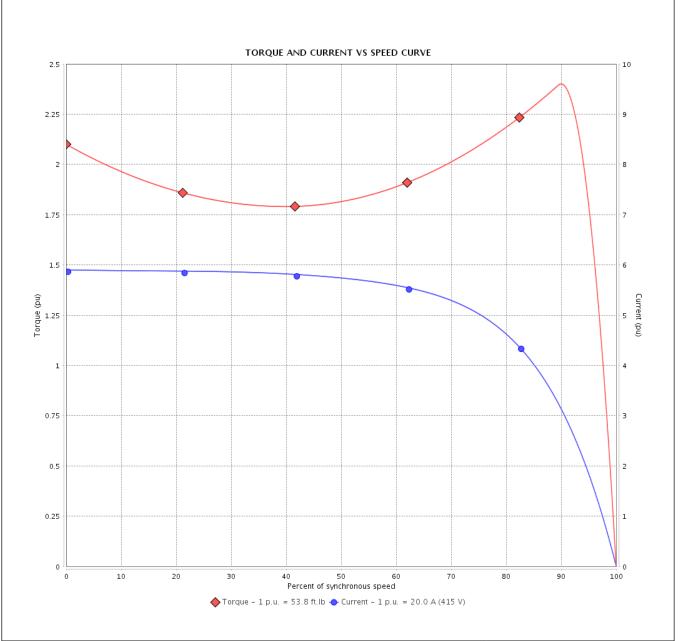


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 5.9 : 53.8 ft.lb : 210 % : 240 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Locked reter time	: 27s (cold) 15s (bot)		

Locked rotor time : 27s (cold) 15s (hot)

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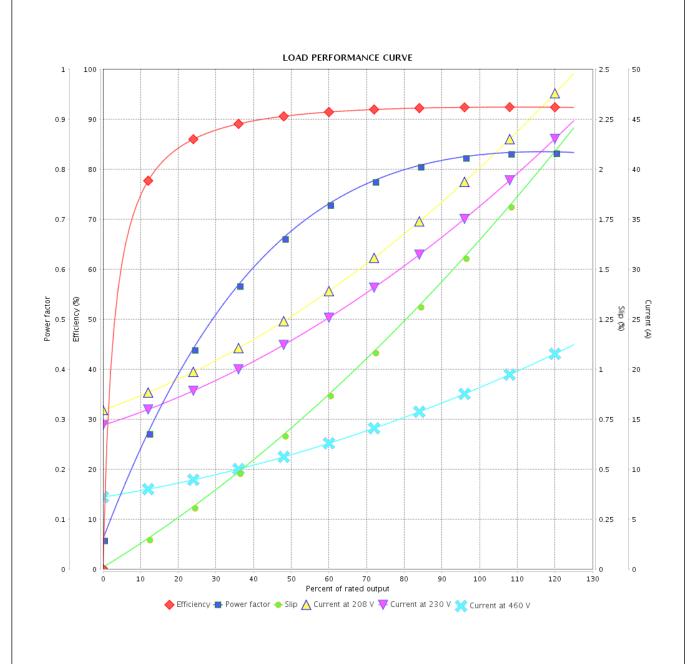


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 36.0/18.0 A		Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 4	14.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque :		260 %	Temperati	Temperature rise		
Rated speed	: 1	1770 rpm	Design		: B	
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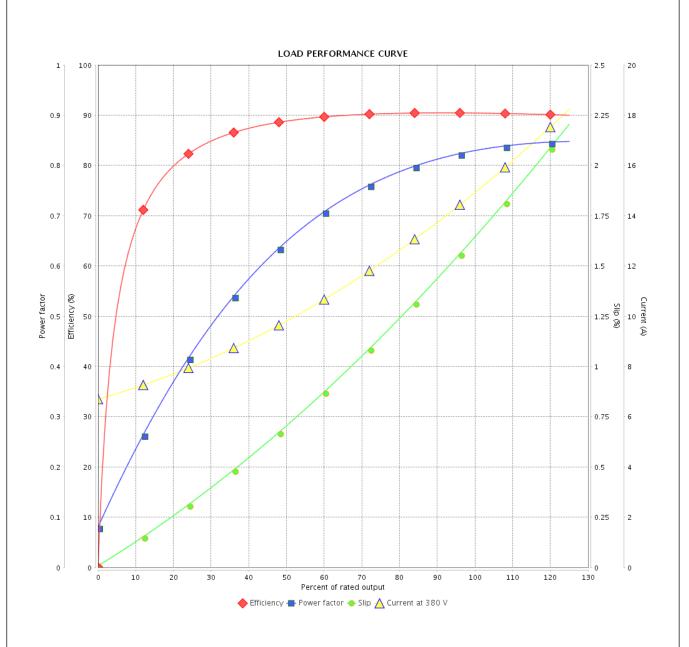
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12446945

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Performance	: 380 V 50 Hz 4P IE3				
Periormance	. 300 V 50 HZ 4P IE3				
Rated current	: 15.2 A	15.2 A Moment of inertia (J)		: 2.62 sq.ft.lb	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 35.6 ft.lb	Insulation class		: F	
Locked rotor torque : 250 %		Service factor		: 1.25	
Breakdown torque	down torque : 300 % Temperature rise		ise	: 80 K	
Rated speed	: 1475 rpm	Design		: B	
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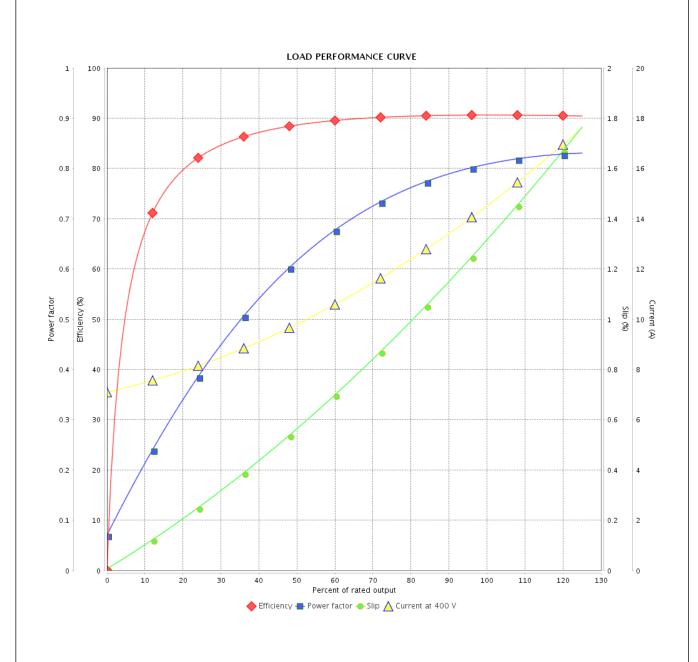
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.8 A : 7.8 : 35.5 ft.lb : 280 % : 340 % : 1480 rpm	Moment of in Duty cycle Insulation claservice factor Temperature Design	ass or	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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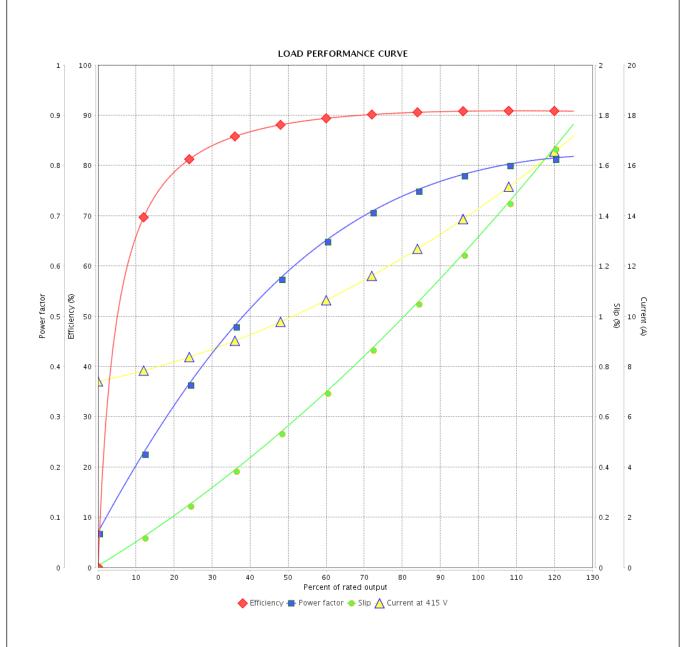
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12446945

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Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.5 A : 8.3 : 35.5 ft.lb : 310 % : 370 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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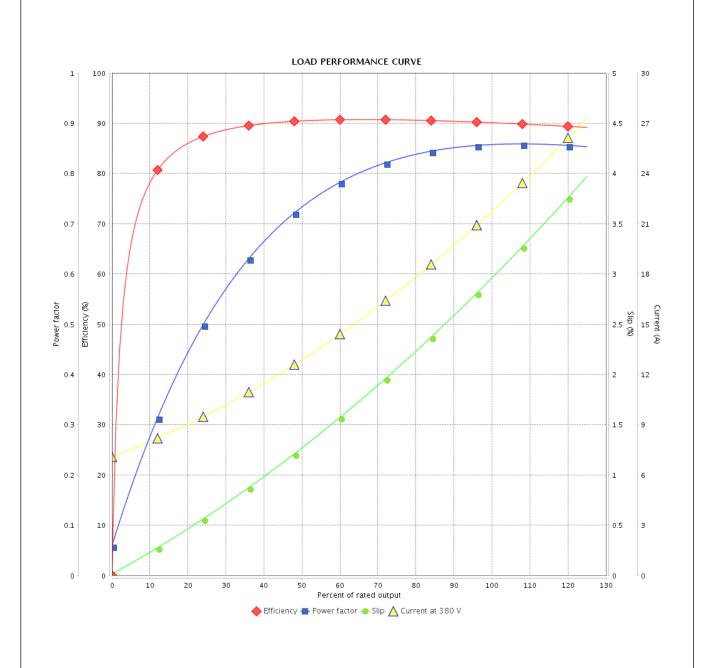


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance	: 3	380 V 50 Hz 4P IE2				
Rated current	: 2	21.5 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 4	4.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 5	54.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	160 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 %		Temperati	Temperature rise			
Rated speed	: 1	1455 rpm	Design		: B	
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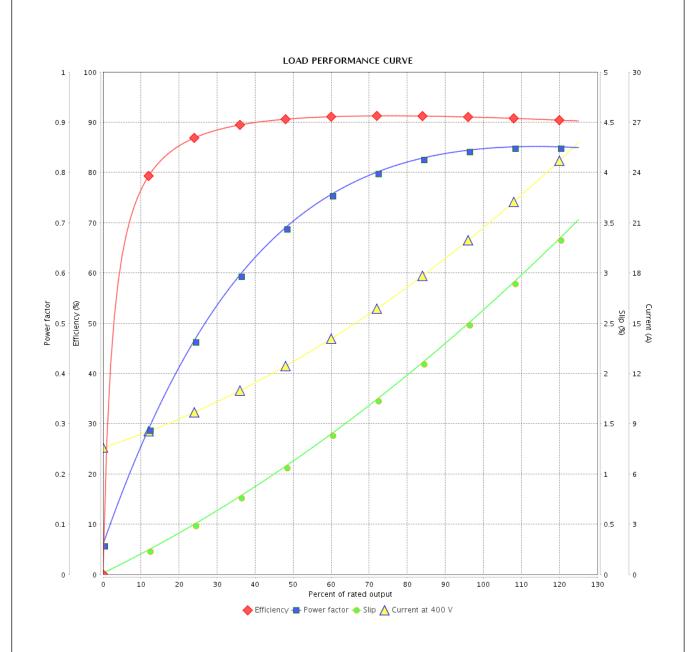
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Product line : NEMA Premium Efficiency Three- Product code : 12446945

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Performance : 400 V 50 Hz 4P IE2 Rated current : 20.5 A Moment of inertia (J) : 2.62 sq.ft.lb : 5.4 **LRC** Duty cycle : Cont.(S1) : 54.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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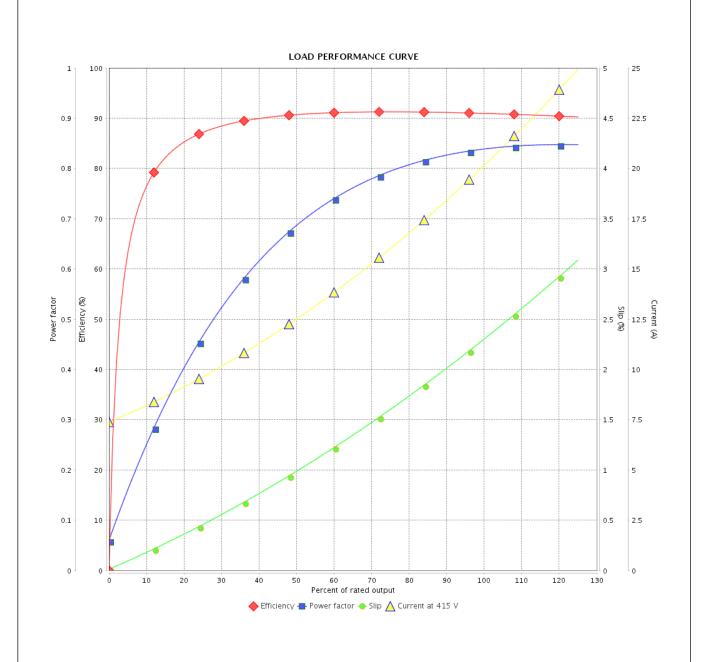


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Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 2	20.0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5	5.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 5	3.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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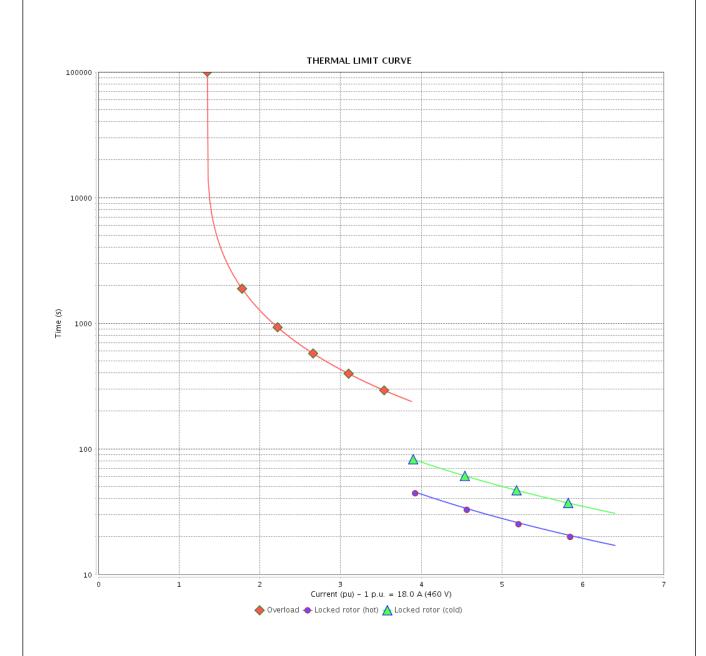


Customer	:					
Product line	: <b>1</b> P	NEMA Premium Efficiency 1 hase		Product code :	12446945 01518ET3E2	54TC-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 36 : 6. : 44 jue : 22 ie : 26	30/460 V 60 Hz 4P 6.0/18.0 A .4 4.5 ft.lb 20 % 60 % 770 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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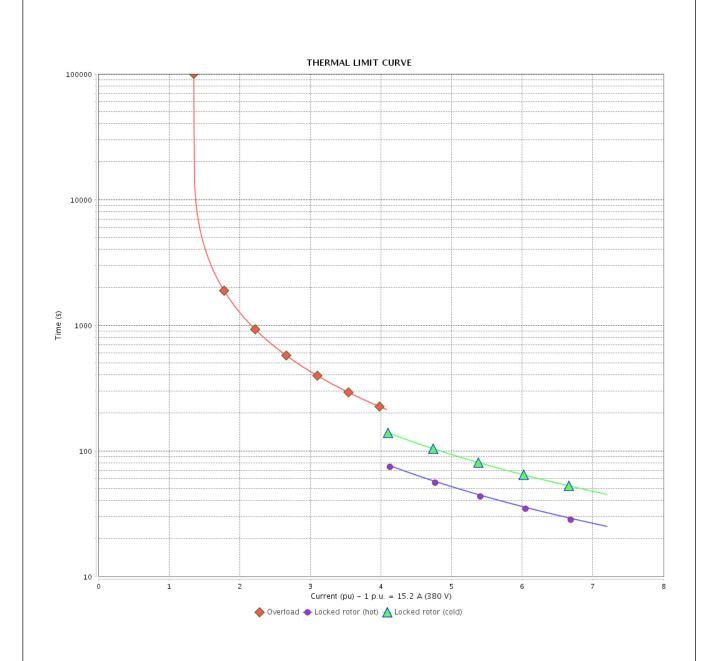


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12446945	
		Phase		Catalog # :	01518ET3E2	254TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 15.2 A		of inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque		: 7.2 : 35.6 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que :	: 250 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed	ie :	: 300 % : 1475 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant	t					
Cooling constant						
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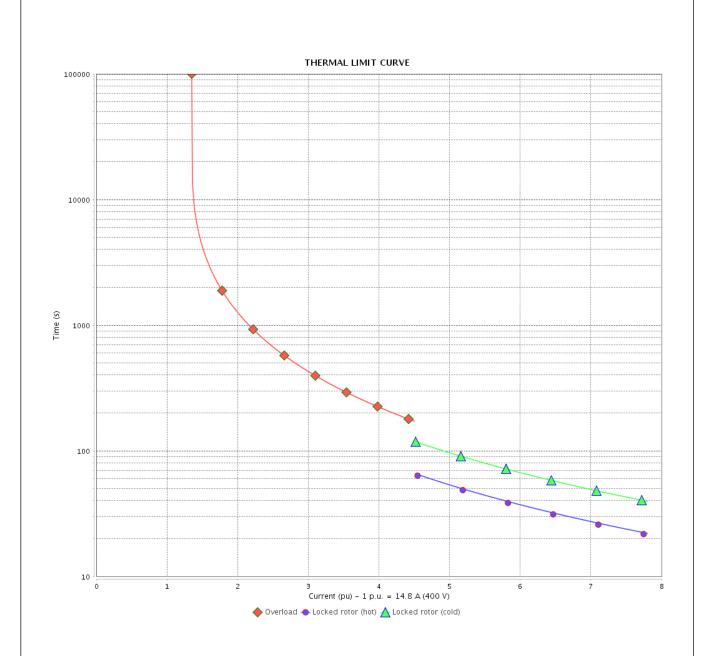


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12446945 01518ET3E25	54TC-W22
					01010210220	7110 1122
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 14.8 A : 7.8	Moment of Duty cycle	of inertia (J) e	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque		: 35.5 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 340 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Cummers		Dorform	Charles	Doto
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### Three Phase Induction Motor - Squirrel Cage



Customer



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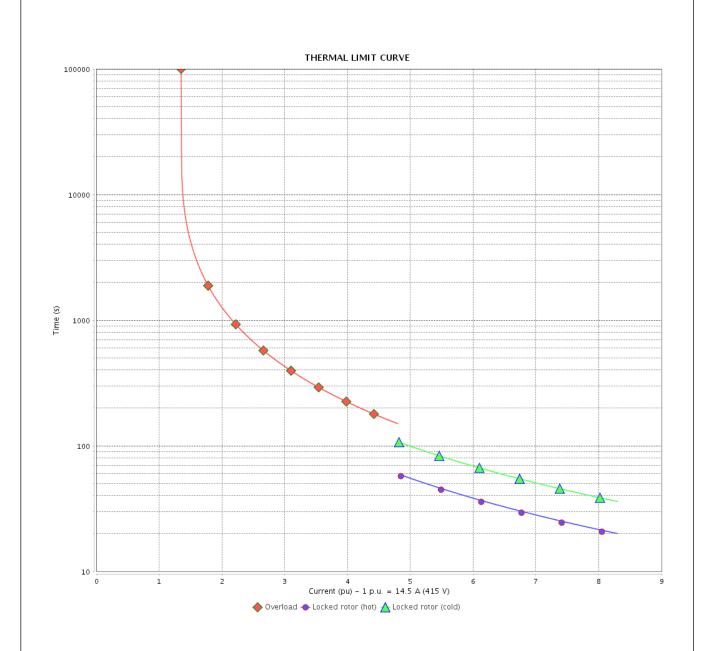


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12446945	
	Phase		Catalog # :	01518ET3E2	54TC-W22
				0.0.01	
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 14.5 A : 8.3	Moment o Duty cycle	f inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 310 %	Service fa		: 1.25	
Breakdown torque Rated speed	: 370 % : 1480 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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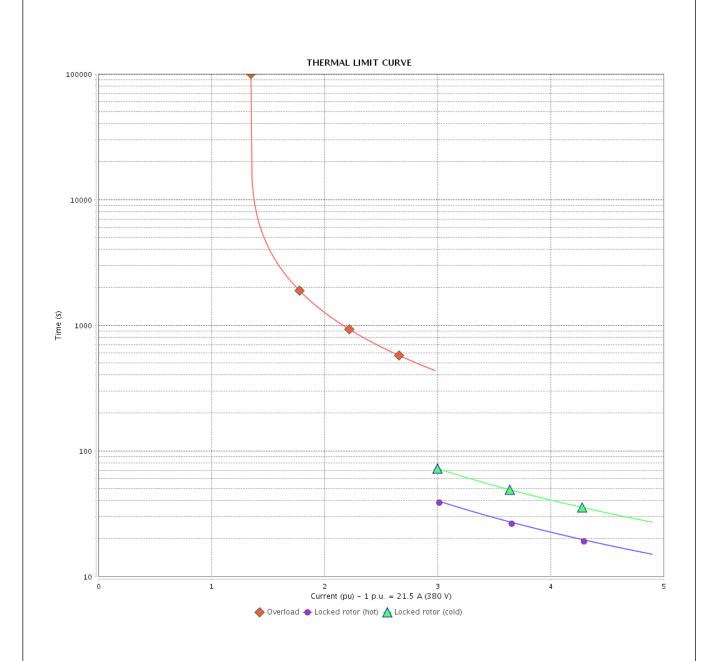


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12446945	
	P	hase	,	Catalog # :	01518ET3E2	54TC-W22
Performance	: 38	80 V 50 Hz 4P IE2				
Rated current	: 2	1.5 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque	: 4. : 5/	9 4.1 ft.lb	Duty cycle Insulation	<b>;</b>	: Cont.(S1) : F	
Locked rotor torque	e : 16	60 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperatu	ıre rise	: 80 K	
Rated speed	. 14	155 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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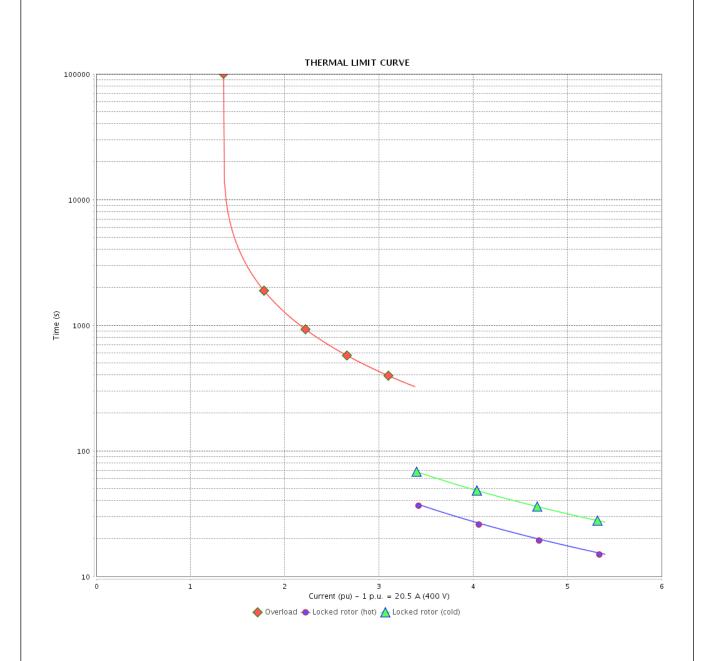


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12446945	
	PI	hase	1	Catalog # :	01518ET3E2	54TC-W22
Performance	: 40	00 V 50 Hz 4P IE2				
Rated current		).5 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque	: 5. : 5 <sup>2</sup>	4 4.0 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		20 % 460 rpm	Temperatu Design	ıre rise	: 80 K : 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

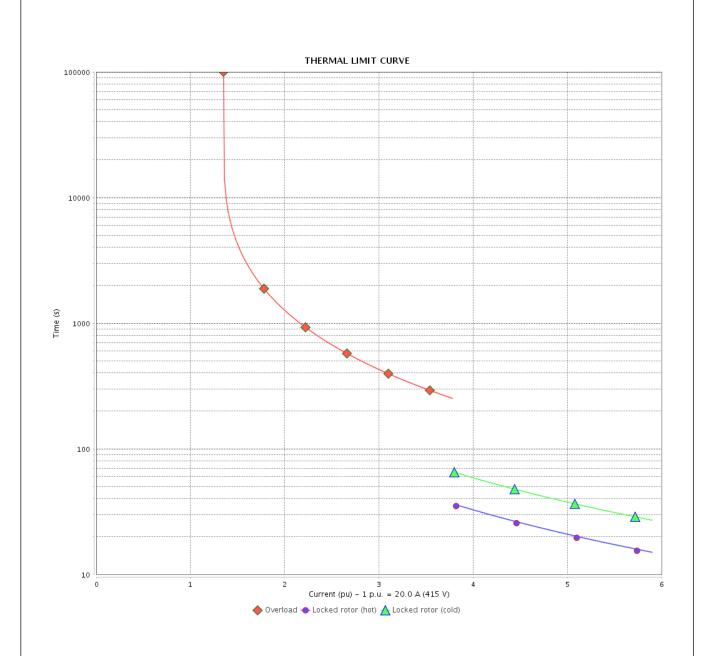


Customer	:					
Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	12446945	
				Catalog # :	01518ET3E2	54TC-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC	: 20 : 5.	).0 A 9	Moment o	f inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 40 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		465 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial		Dorform	Charles	Data
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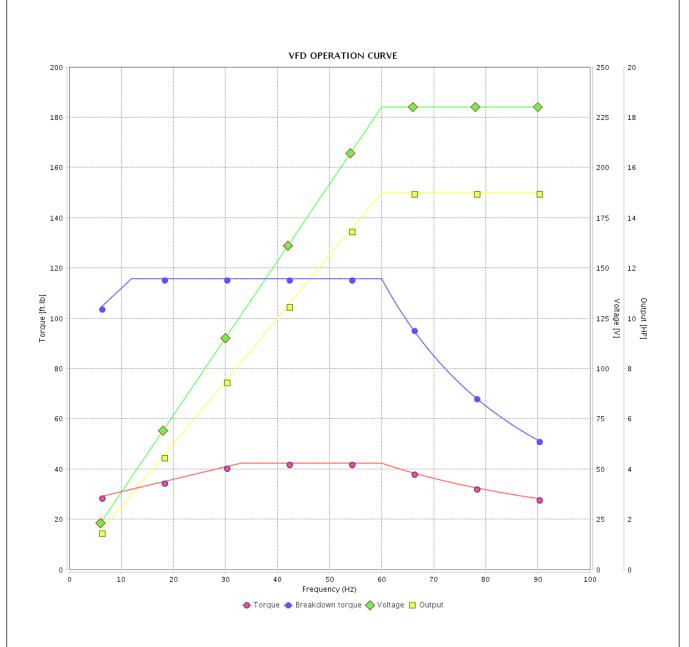
Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.0/18.0 A : 6.4 : 44.5 ft.lb : 220 % : 260 % : 1770 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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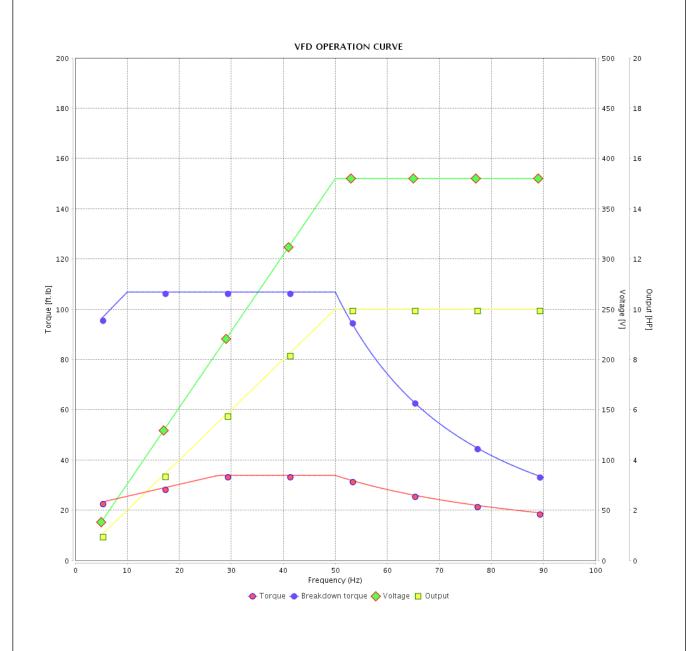
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446945

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 35.6 ft.lb : 250 % : 300 % : 1475 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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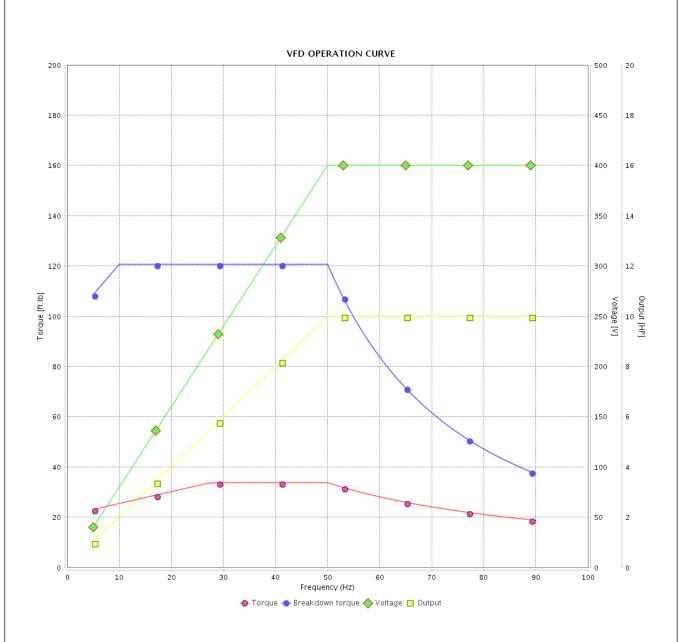
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12446945

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Performance : 400 V 50 Hz 4P IE3 : 14.8 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) Insulation class : 35.5 ft.lb : F Rated torque Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage

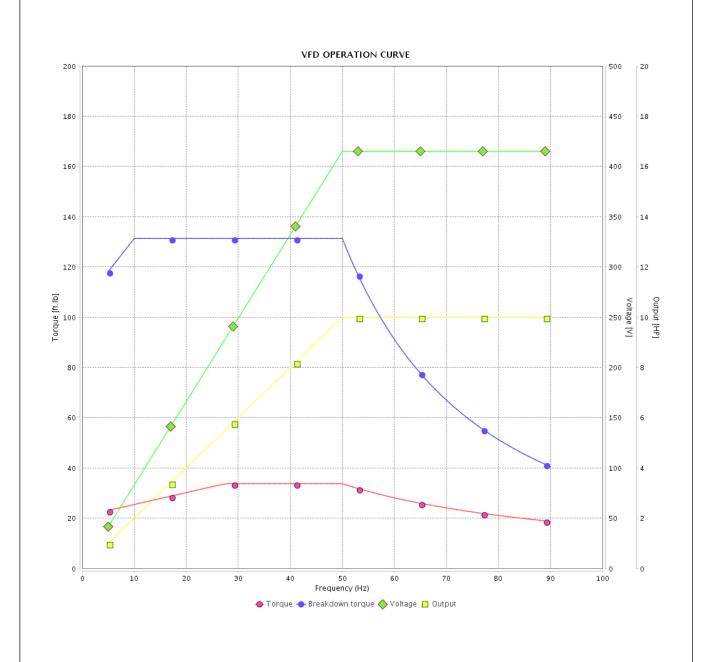


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Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance	:	415 V 50 Hz 4P IE3				
Rated current		14.5 A	Moment of	f inertia (J)	: 2.62 sq.ft.lb	
LRC	:	8.3	Duty cycle	)	: Cont.(S1)	
Rated torque	:	35.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	310 %	Service fa	ctor	: 1.25	
Breakdown torque	:	370 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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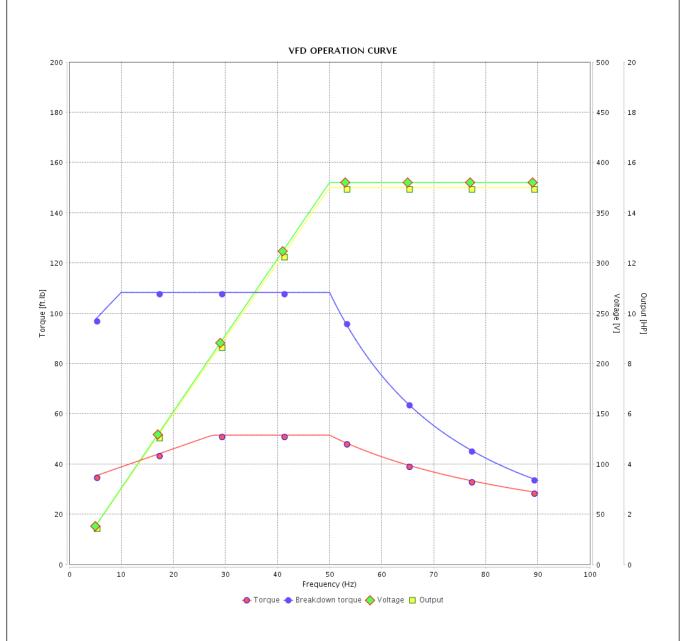
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.5 A : 4.9 : 54.1 ft.lb : 160 % : 200 % : 1455 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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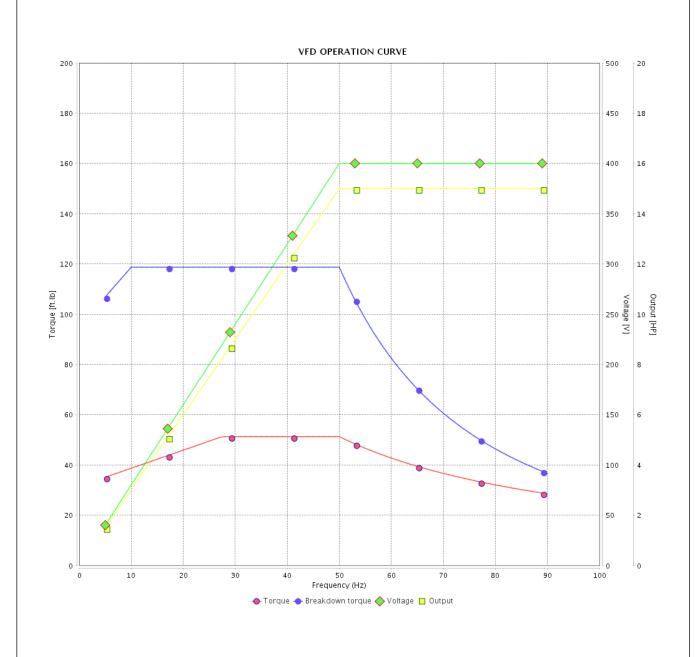


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12446945

Phase

Catalog #: 01518ET3E254TC-W22



Performance		: 400 V 50 Hz 4P IE2					
Rated current	: 2	: 20.5 A		Moment of inertia (J)		: 2.62 sq.ft.lb	
LRC	: 5	5.4 Duty cycle		<b>;</b>	: Cont.(S1)	: Cont.(S1)	
Rated torque	: 5	4.0 ft.lb	0 ft.lb Insulation class		: F		
Locked rotor torqu	ie : 2	00 %	Service factor		: 1.00		
Breakdown torque	: 2	0 % Temperature rise		: 80 K			
Rated speed	: 1	: 1460 rpm		Design			
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Product line : NEMA Premium Efficiency Three- Produ

Phase

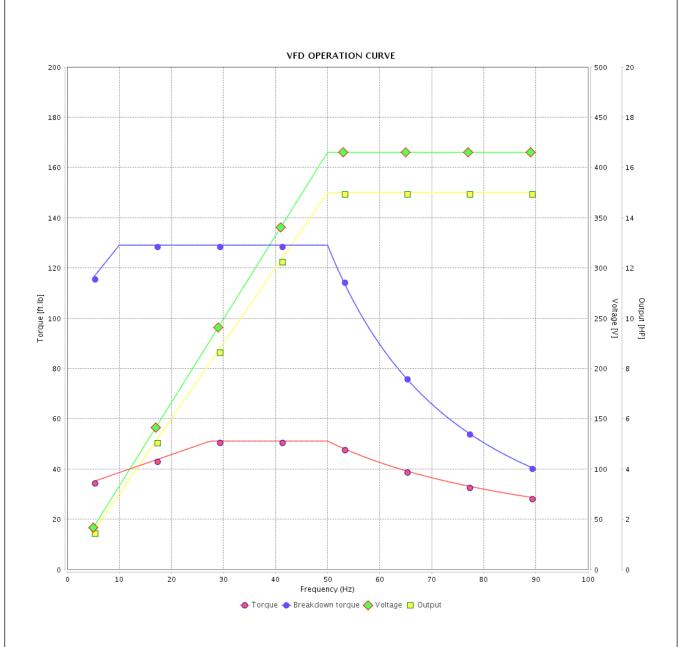
Product code: 12446945

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Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : 53.8 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

