### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11622394

01518ET3ER254TC-W22 Catalog #:

Frame : 254TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

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> Altitude : 307 lb

Protection degree Design		: IP55 : B		Momer	nt of inertia (J)	) : 2	2.62 sq.ft.lb	
Output [HP]		15	10	10	10	15	15	15
Poles		4	4	4	4	4	4	4
Frequency [Hz]	Frequency [Hz]		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 G)	7.2x(Code J)	7.8x(Code J)	8.3x(Code K)	4.9x(Code E)	5.4x(Code F)	5.9x(Code
No load current [A	1	14.4/7.20	6.70	7.10	7.40	7.10	7.60	G) 7.40
No load current [A] 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]			35.6	35.5	35.5	54.1	54.0	53.8
Locked rotor torqu		44.6 220	250	280	310	160	200	210
Breakdown torque			300	340	370	200	220	240
Service factor	[ /0]	260 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		55s (cold)	72s (cold)	63s (cold)	57s (cold)	43s (cold)	41s (cold)	37s (cold)
Locked fotol time		31s (hot)	40s (hot)	35s (hot)	32s (hot)	24s (hot)	23s (hot)	21s (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%	90.2	88.5	88.1	87.6	90.8	90.8	90.8
F(C)	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%	0.43	0.40	0.37	0.35	0.49	0.46	0.45
Danier Faut	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

Non drive end Foundation loads Drive end

Bearing type 6309 C3 6209 C3 Max. traction : 465 lb Sealing V'Ring V'Ring : 772 lb Max. compression Lubrication interval 18000 h 19000 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

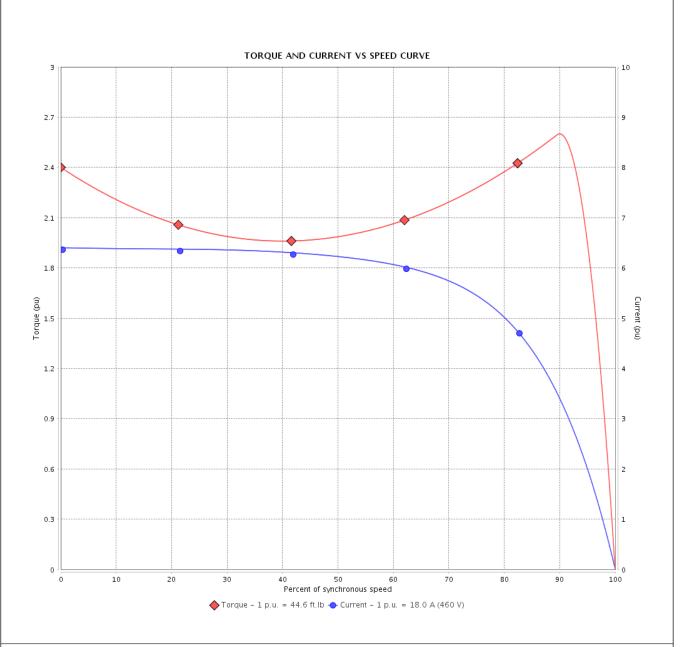


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01518ET3ER254TC-W22

11622394



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) : 44.6 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 : 55s (cold) 31s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11622394 Catalog #: 01518ET3ER254TC-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. = 35.6 ft.lb ◆ Current - 1 p.u. = 15.2 A (380 V) 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 Locked rotor time : 72s (cold) 40s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



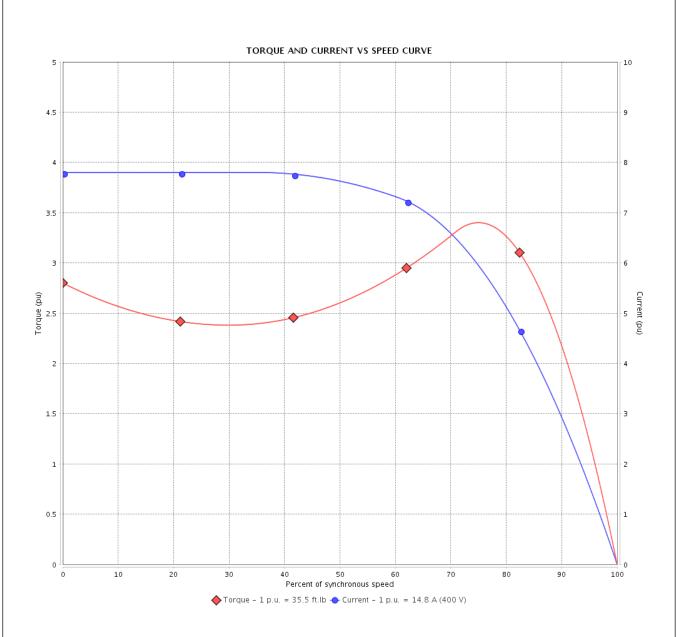
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518ET3ER254TC-W22

11622394



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 Service factor Locked rotor torque : 280 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 63s (cold) 35s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11622394 Catalog #: 01518ET3ER254TC-W22 TORQUE AND CURRENT VS SPEED CURVE

		•							
4									8
3.5						•		*	7
2.5		<b>•</b>							5
2.5									
2									4
1.5									3
1									2
0.5									1
۰	10	20	30	40	50 of synchronous speed	60	70 8	30 9	0 100

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)
Rated torque	: 35.5 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 57s (cold) 32s (hot)		

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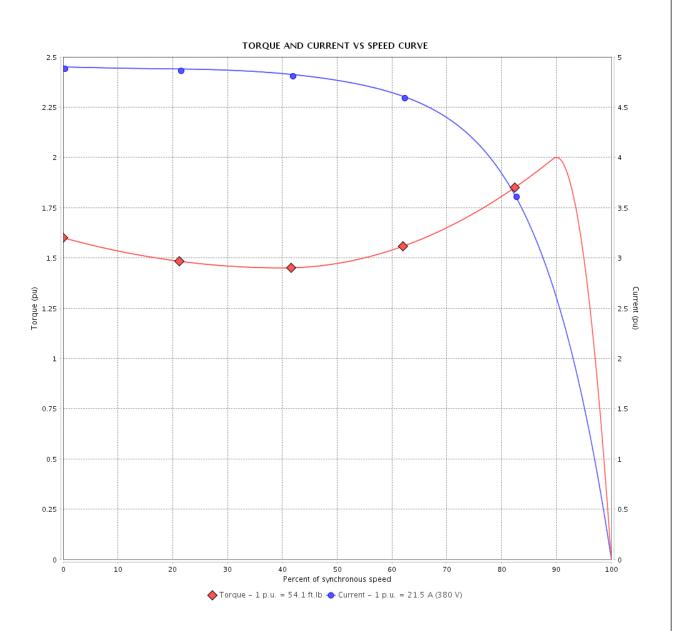
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11622394

Catalog #: 01518ET3ER254TC-W22

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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 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 rotor time	: 43s (cold) 24s (hot)		

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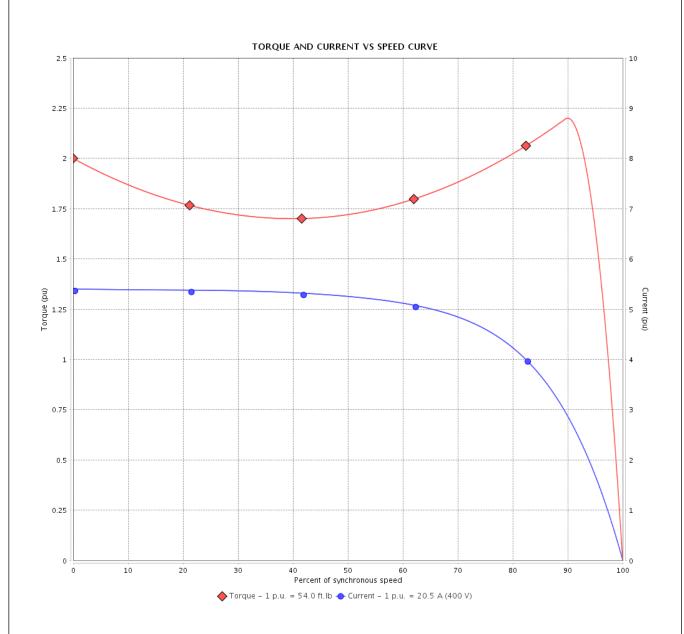
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11622394

Catalog #: 01518ET3ER254TC-W22



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 : 200 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 220 % Temperature rise : B Rated speed : 1460 rpm Design

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

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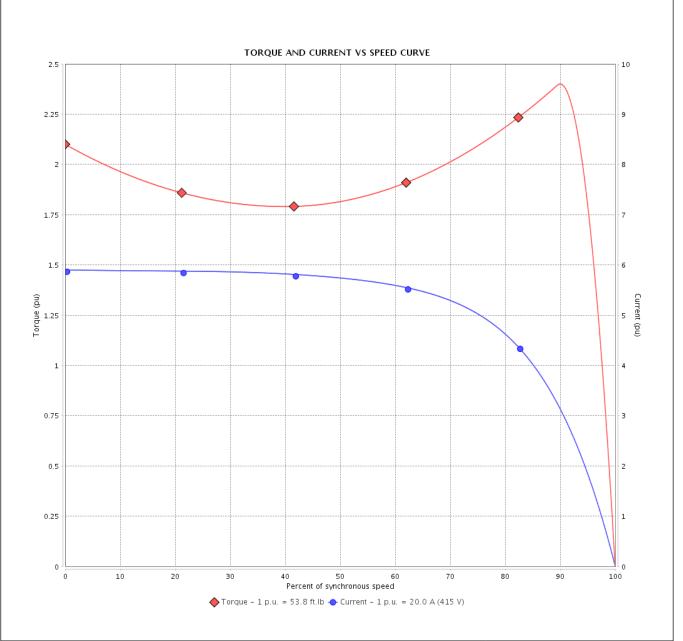
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

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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 Rated torque : 53.8 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 37s (cold) 21s (hot)

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### Three Phase Induction Motor - Squirrel Cage

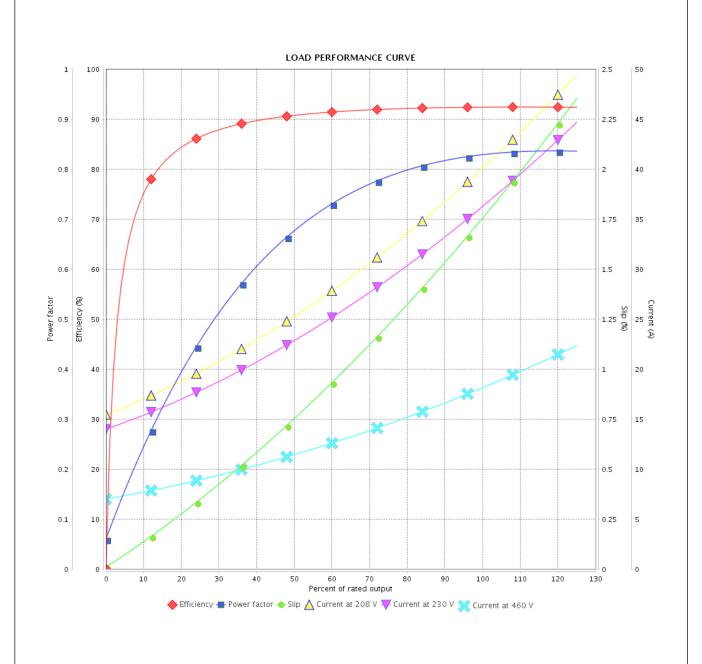


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

Catalog #: 01518ET3ER254TC-W22



Performance	rformance : 230/460 V 60 Hz 4P					
Rated current	: 3	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	14.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K	
Rated speed	: 1	1770 rpm Design			: B	
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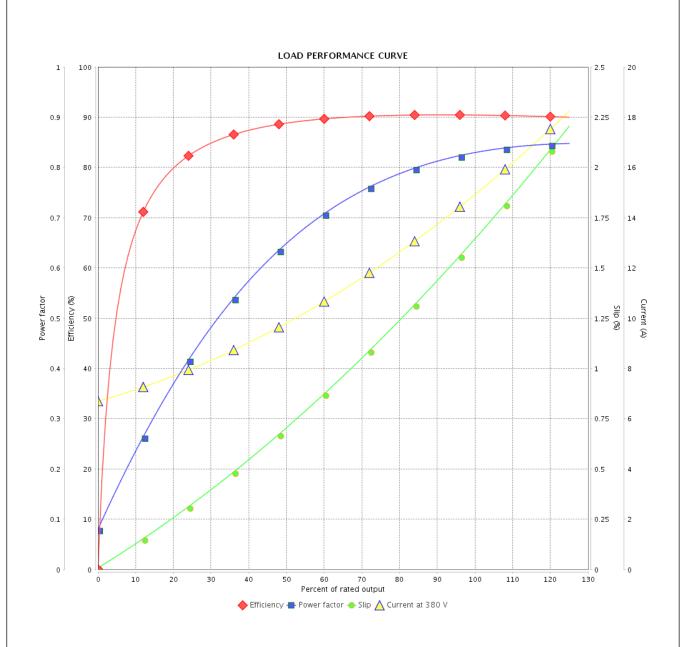
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: 38	80 V 50 Hz 4P IE3				
: 7. : 38 jue : 28 ie : 30	.2 5.6 ft.lb 50 % 00 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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í	: 1 : 7 : 3 que : 2 ie : 3	ie : 300 % : 1475 rpm	: 15.2 A	: 15.2 A  : 7.2  : 35.6 ft.lb  que  : 250 %  Insulation class Service factor Temperature rise : 1475 rpm  Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 15.2 A       Moment of inertia (J)       : 2.62 sq.ft.lb         : 7.2       Duty cycle       : Cont.(S1)         : 35.6 ft.lb       Insulation class       : F         que       : 250 %       Service factor       : 1.25         ie       : 300 %       Temperature rise       : 80 K         : 1475 rpm       Design       : B

### Three Phase Induction Motor - Squirrel Cage

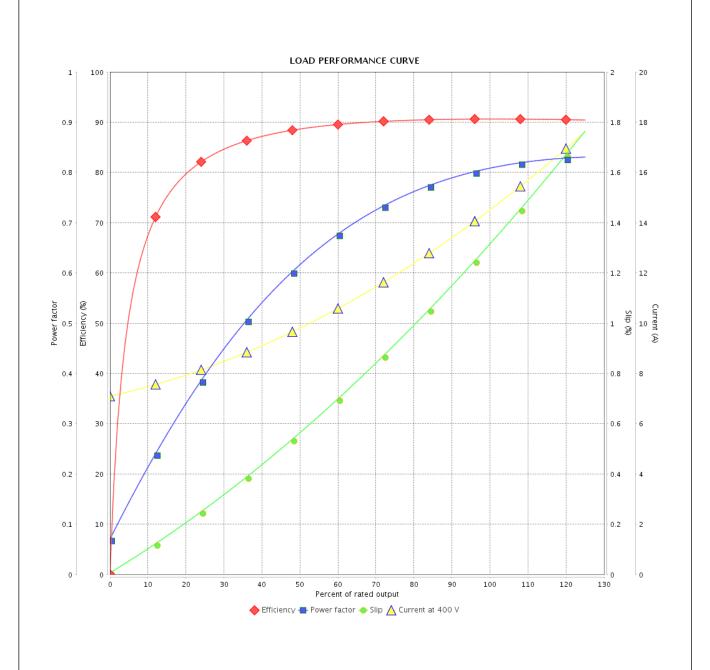


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

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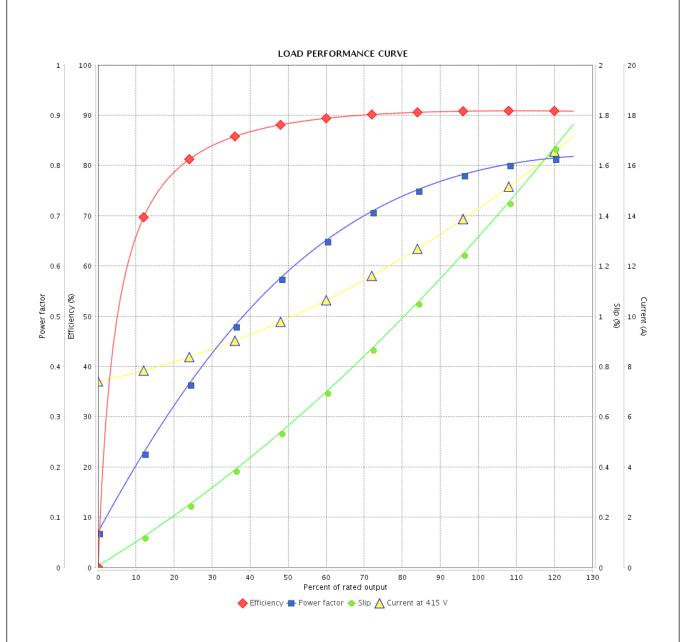
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Phase

Product code: 11622394

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

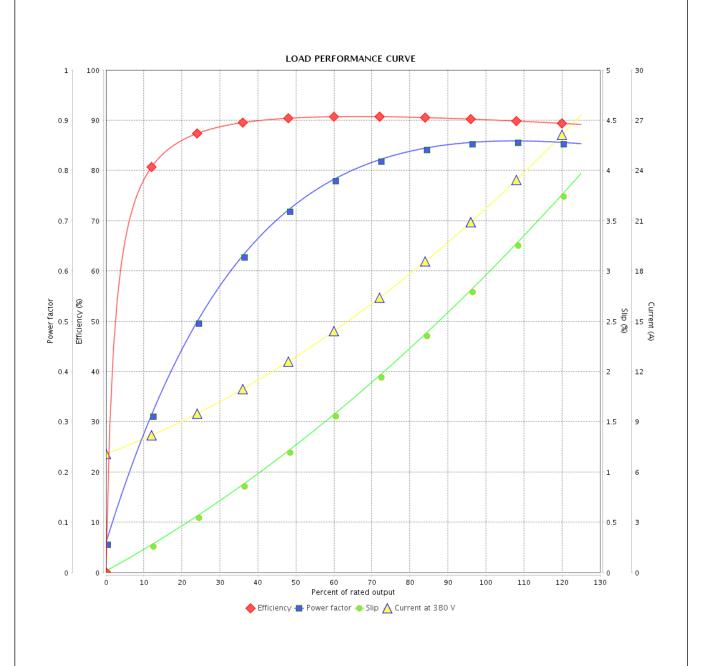


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

Catalog #: 01518ET3ER254TC-W22



Performance	:	380 V 50 Hz 4P IE2				
Rated current : 21.5 A		Moment o	f inertia (J)	: 2.62 sq.ft.lb		
LRC	:	4.9	Duty cycle	)	: Cont.(S1)	
Rated torque	:	54.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	160 %	Service fa	ctor	: 1.00	
Breakdown torque		: 200 % Tempe		ıre rise	: 80 K	
Rated speed	:	1455 rpm	Design		: B	
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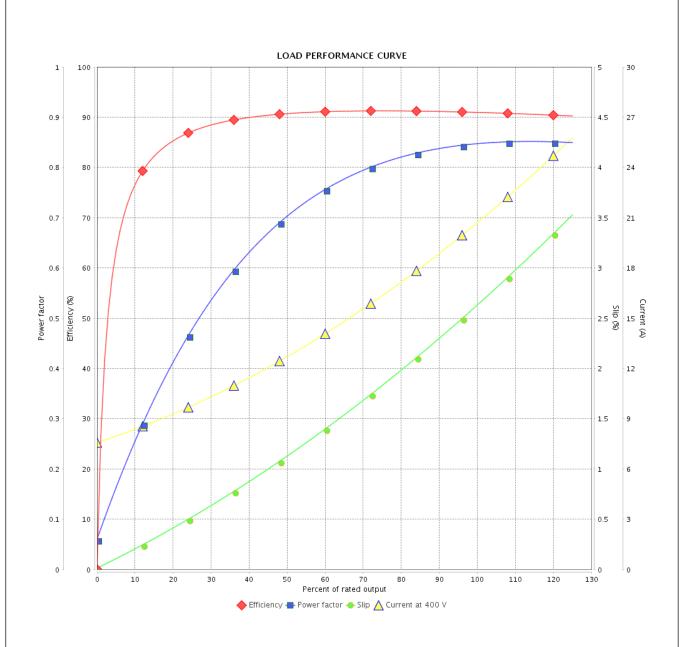
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Performance : 400 V 50 Hz 4P IE2 Rated current : 20.5 A Moment of inertia (J) : 2.62 sq.ft.lb : 5.4 **LRC** Duty cycle : Cont.(S1) : 54.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

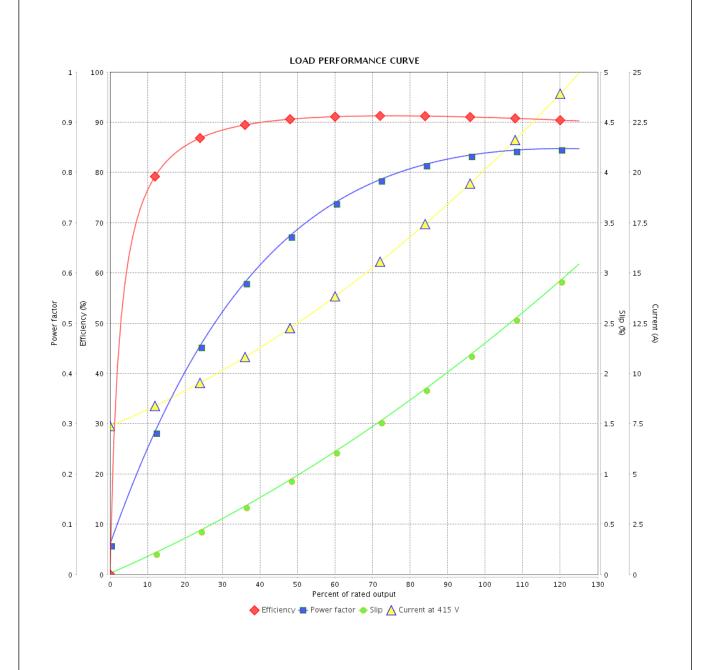


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Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

Catalog #: 01518ET3ER254TC-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	20.0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	:	5.9	Duty cycle	)	: Cont.(S1)	
Rated torque	:	53.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.00	
Breakdown torque	:	240 %	Temperature rise		: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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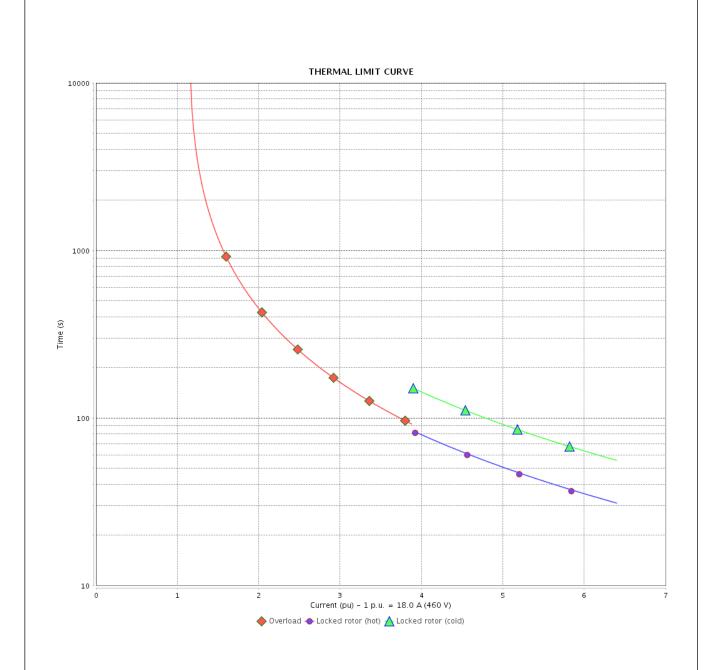


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code Catalog #:		R254TC-W22
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 36.0/18.0 A : 6.4	Moment of inertia (J) Duty cycle	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 44.6 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 260 % : 1770 rpm	Temperature rise Design	: 80 K : B	
Heating constant	·	-		
Cooling constant				
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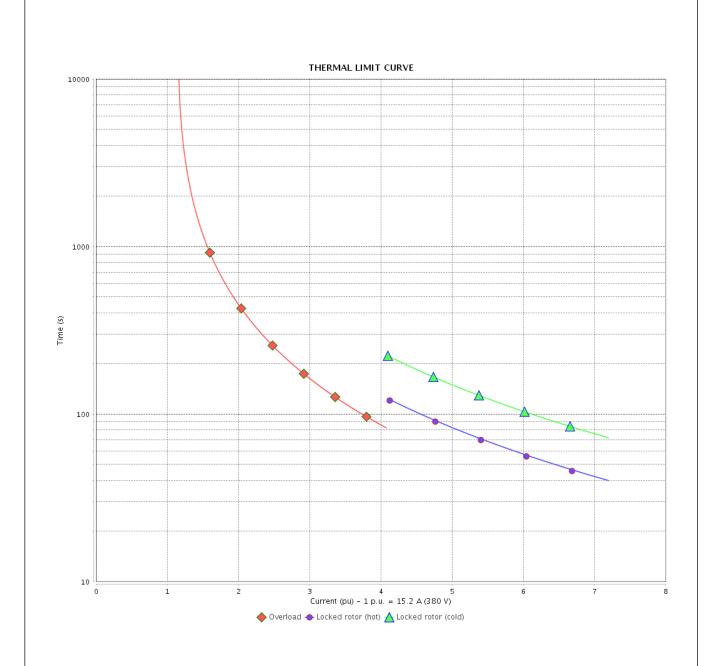


Customer	:				·	
Product line		NEMA Premium Efficiency <sup>*</sup> Phase		Product code :	11622394 01518ET3EF	254TC-W22
Dorformono		200 V 50 Hz 4D IF2				
Performance Rated current		380 V 50 Hz 4P IE3 15.2 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC		7.2	Duty cycle	:     <b>  </b>	: 2.62 \$q.11.10 : Cont.(\$1)	
Rated torque	: 3	35.6 ft.lb	Insulation	class	: F	
Locked rotor tord		250 % 300 %	Service fa		: 1.25 : 80 K	
Breakdown torqu Rated speed		300 % 1475 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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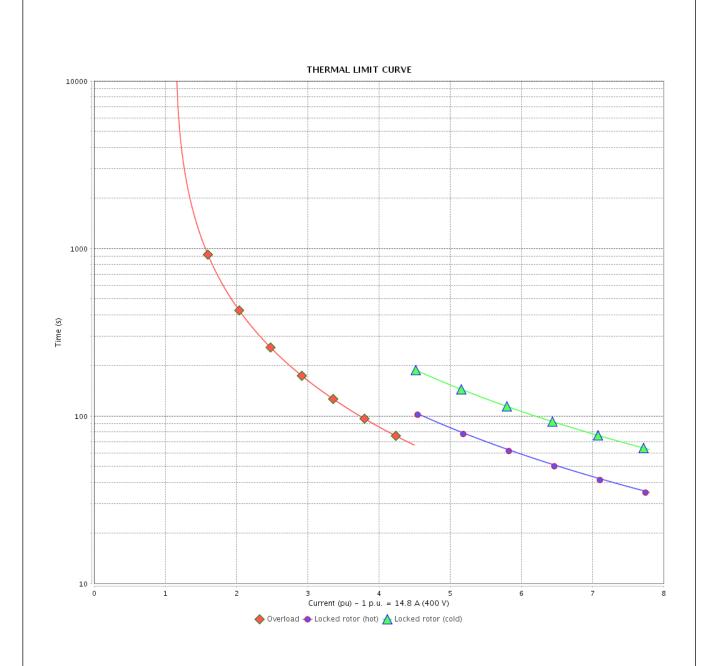


Customer	:				
Product line	: NEMA Premium Efficiency Phase		luct code :	11622394 01518ET3ER2	54TC-W22
			-		
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 14.8 A : 7.8	Moment of ine Duty cycle	rtia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation clas	s	: F	
Locked rotor torque Breakdown torque	: 280 % : 340 %	Service factor Temperature r	ise	: 1.25 : 80 K	
Rated speed	: 1480 rpm	Design		: B	
Heating constant					
Cooling constant					
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Customer



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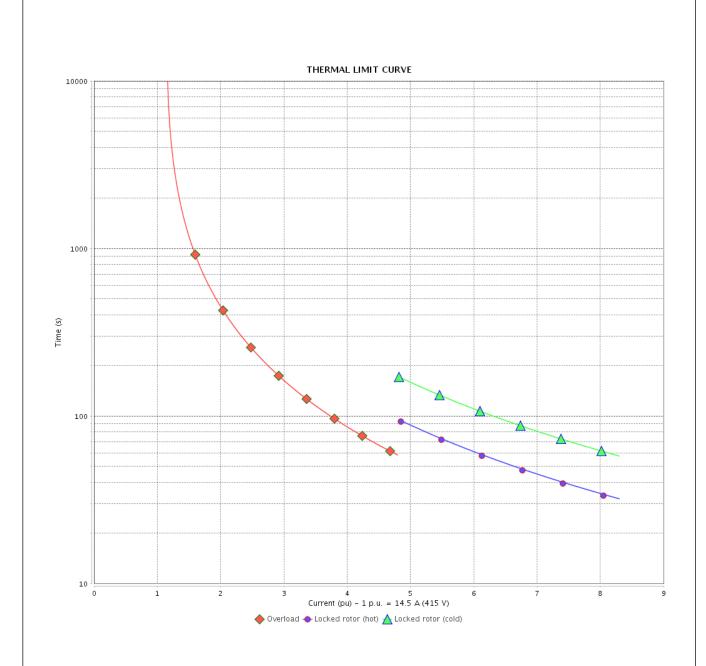


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11622394 01518ET3ER	254TC-W22
					01010210210	20110 W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 14.5 A : 8.3	Moment of Duty cycle	of inertia (J) e	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque		: 35.5 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 310 % : 370 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1480 rpm	Design	<u> </u>	: B	
Heating constan						
Cooling constant	t	Change - O		Do-t	Ob!!	D-4-
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### Three Phase Induction Motor - Squirrel Cage



Customer



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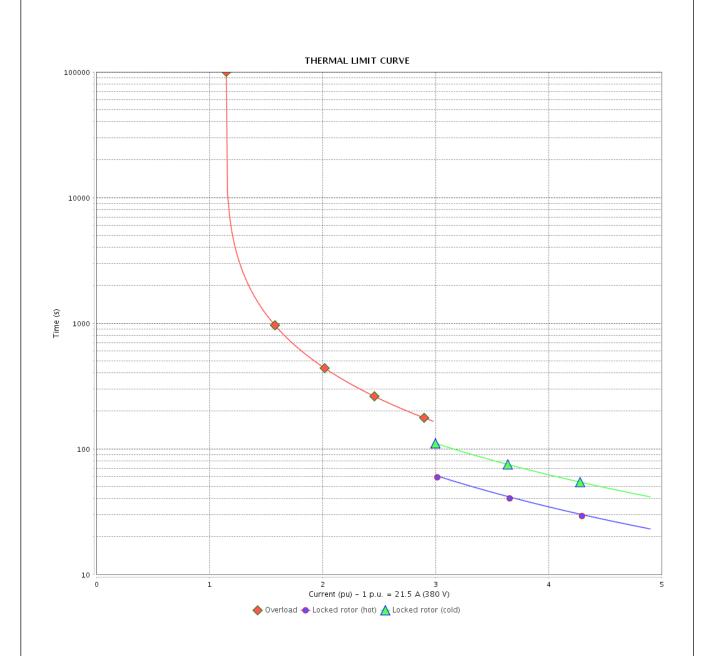


Customer	<u> </u>				
	•				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11622394	
	Phase				2054TO 14/00
			Catalog # :	U1518E13EF	R254TC-W22
Performance	: 380 V 50 Hz 4P IE2	- <del>.</del>			
Rated current	: 21.5 A		of inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque	: 4.9 : 54.1 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 160 %	Service fa	ictor	: 1.00	
Breakdown torque	: 200 % : 1455 rpm	Temperati	ure rise	: 80 K : B	
Rated speed	: 1455 rpm	Design		. D	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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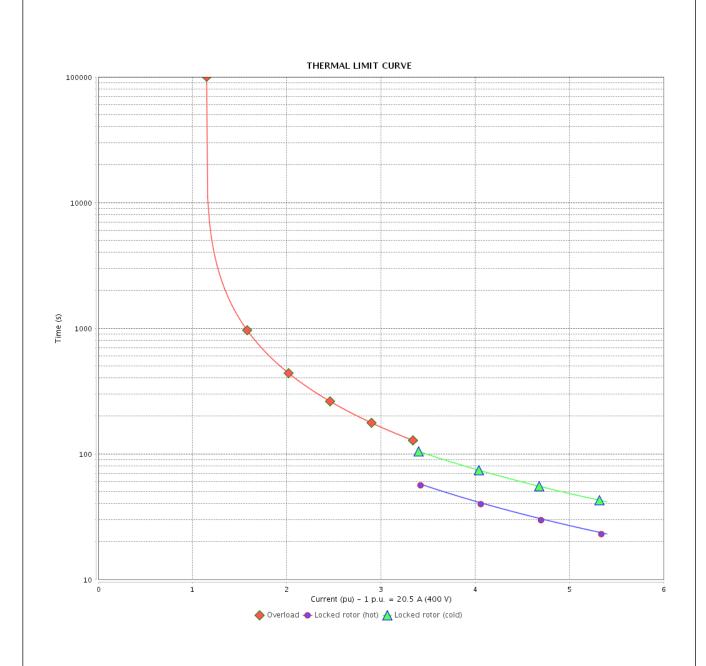


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code :	11622394 01518ET3EF	254TC-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	20.5 A 5.4 54.0 ft.lb 200 % 220 % 1460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.62 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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### Three Phase Induction Motor - Squirrel Cage



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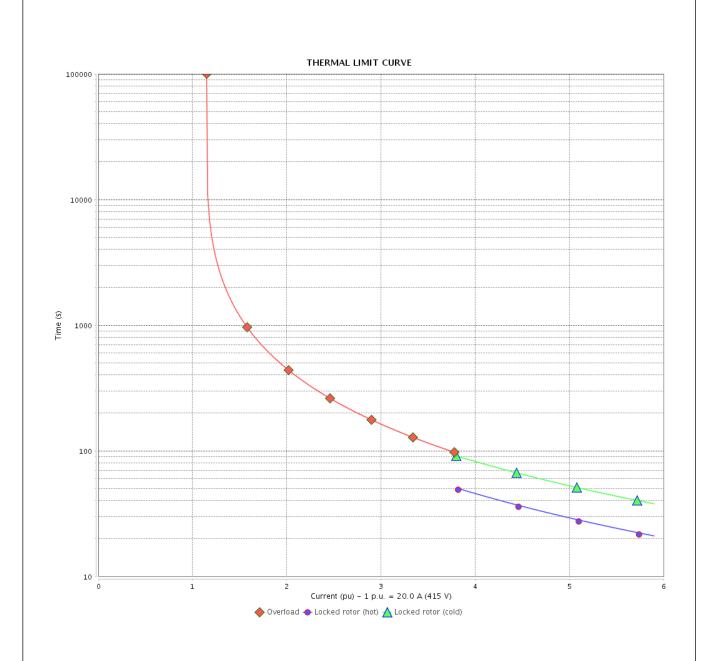


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11622394 01518ET3ER	254TC-W22
					01010210214	20110 W22
Performance		: 415 V 50 Hz 4P IE2	Τ			
Rated current LRC		: 20.0 A : 5.9	Moment of Duty cycle	of inertia (J) e	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 210 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1465 rpm	Design	· 	: B	
Heating constan					-	
Cooling constant	t	Characa Communication		De-re-	Ohl l	D-4-
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#### Three Phase Induction Motor - Squirrel Cage



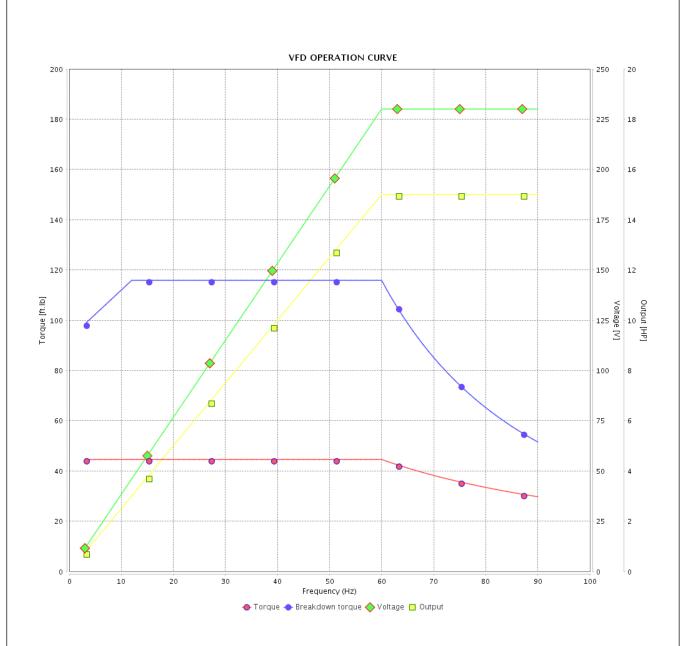
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11622394

Catalog #: 01518ET3ER254TC-W22



Performance : 230/460 V 60 Hz 4P : 36.0/18.0 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 44.6 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** 

### Three Phase Induction Motor - Squirrel Cage



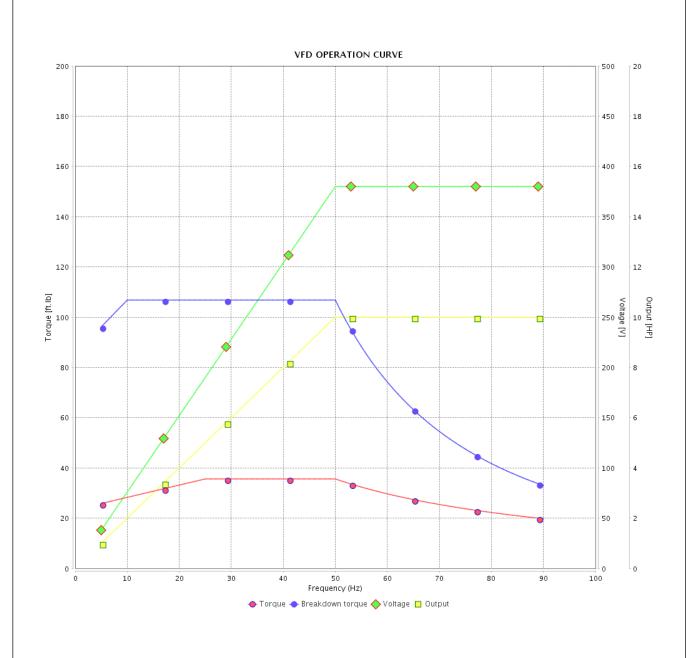
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

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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 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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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product c

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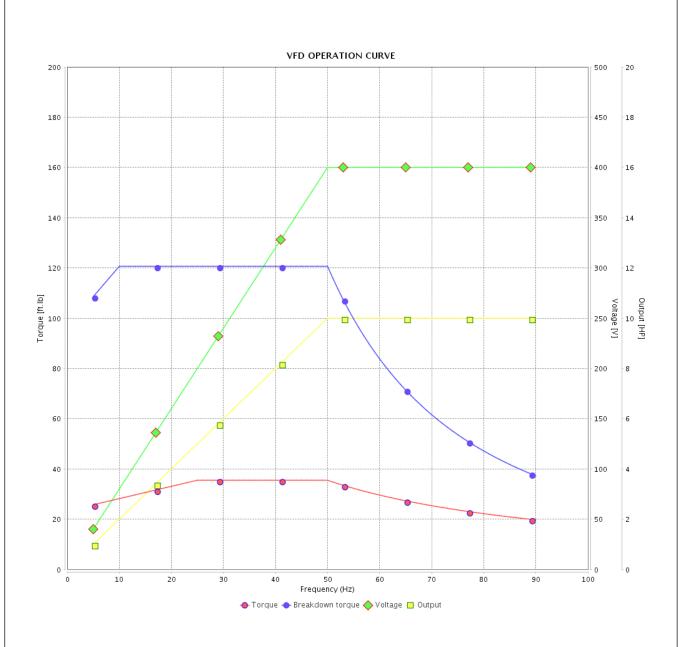
Product code: 11622394

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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 35 jue : 28 ie : 34	4.8 A .8 5.5 ft.lb 80 % 40 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

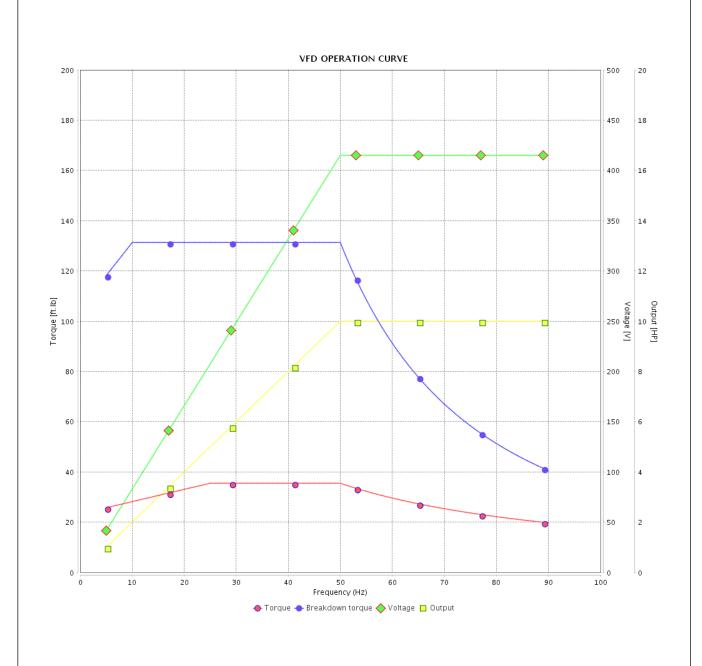


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

Catalog #: 01518ET3ER254TC-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	ated current : 14.5 A Mom		Moment of	of inertia (J)	: 2.62 sq.ft.lb	
LRC	: 8.	3	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 38	5.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 3 <sup>,</sup>	10 %	Service fa	actor	: 1.25	
Breakdown torque	Breakdown torque : 370 % Tempe		Temperati	Temperature rise : 80 K		
Rated speed	: 14	480 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

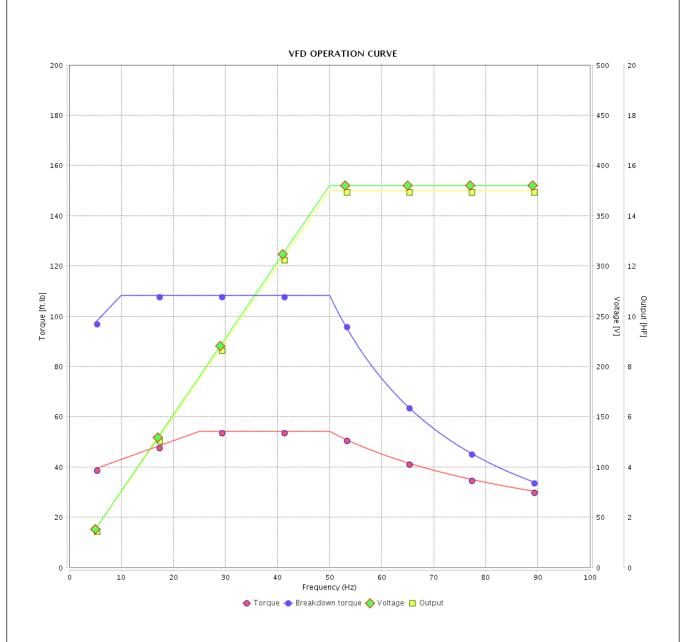
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Performance : 380 V 50 Hz 4P IE2 Rated current : 21.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



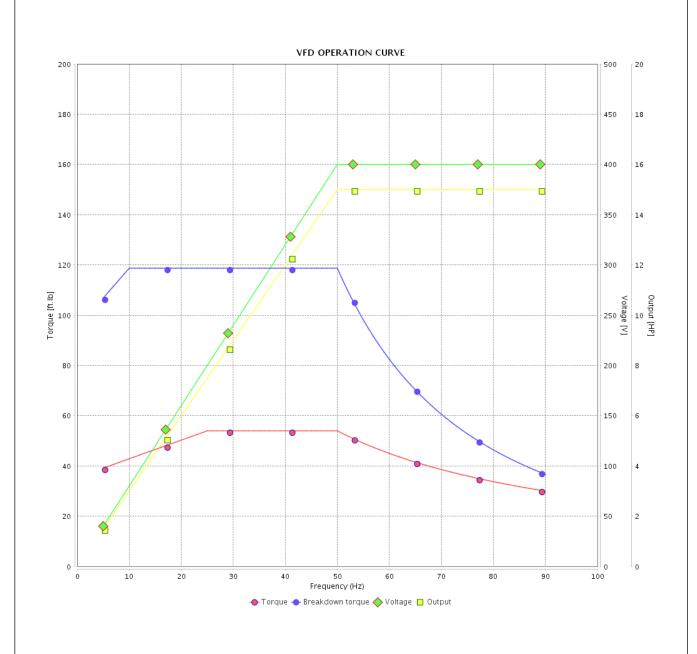
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Product line : NEMA Premium Efficiency Three- Product code : 11622394

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.5 A : 5.4 : 54.0 ft.lb : 200 % : 220 % : 1460 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	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 11622394

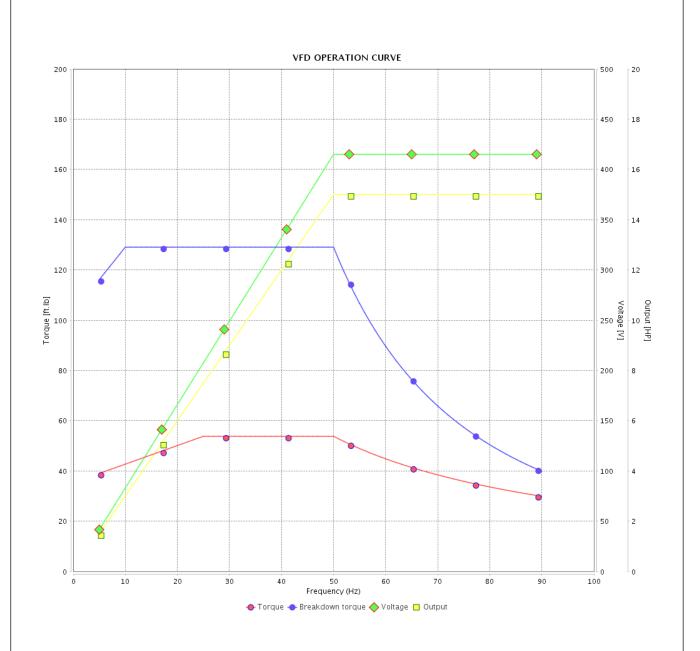
Phase

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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

