### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355724

Phase

Catalog #: 03009ET3E364T-W22

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : 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> : 812 lb

Protection degree : IP55 Moment of inertia (J) : 23.5 sq.ft lb

Protection degree		: IP55	Moment of inc	ertia (J) : 23.5	sq.ft.lb
Design		: B			
Output [HP]		30	30	30	30
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		75.2/37.6	45.5	42.7	42.2
L. R. Amperes [A]		466/233	223	235	249
LRC [A]		6.2x(Code G)	4.9x(Code E)	5.5x(Code F)	5.9x(Code G)
No load current [A]	]	29.4/14.7	14.4	15.3	16.0
Rated speed [RPN	1]	880	720	725	730
Slip [%]		2.22	4.00	3.33	2.67
Rated torque [ft.lb]			219	217	216
	Locked rotor torque [%]		120	140	150
Breakdown torque	Breakdown torque [%]		190	190	200
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time		64s (cold) 36s (hot)	48s (cold) 27s (hot)	48s (cold) 27s (hot)	48s (cold) 27s (hot)
Noise level <sup>2</sup>		60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%				
Efficiency (%)	50%	91.5	90.5	90.5	90.5
Linciency (70)	75%	91.7	90.6	90.6	90.6
	100%	91.7	89.5	90.6	90.6
	25%				
Power Factor	50%	0.63	0.70	0.66	0.63
I OWEI FACIOI	75%	0.73	0.79	0.76	0.75
	100%	0.80	0.82	0.82	0.80

Drive end Non drive end Foundation loads

Bearing type : 6314 C3 6314 C3 Max. traction : 1071 lb Sealing : WSeal WSeal Max. compression : 1883 lb

20000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 81.8A SF 1.10 SFA 90.0A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 21	

#### Three Phase Induction Motor - Squirrel Cage



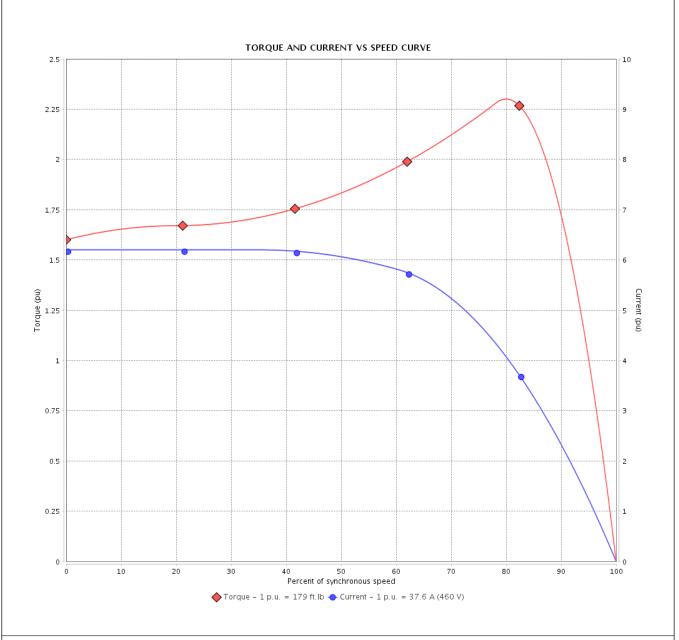
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355724

Catalog #: 03009ET3E364T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 75.2/37.6 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Service factor Locked rotor torque : 160 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355724 Catalog #: 03009ET3E364T-W22 TORQUE AND CURRENT VS SPEED CURVE

1.6										
				<b>•</b>						
1.4		<b>-</b>								
1.2										
1										;
0.8										-;
0.6										
0.4										
0.2										<u> </u>
0 0	10	20	30	40 Porcent	50 of synchronous	60	70	80	90	100

Performance	: 380 V 50 Hz 8P IE2		
Rated current	: 45.5 A	Moment of inertia (J)	: 23.5 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 219 ft.lb	Insulation class	:F
Locked rotor torque	: 120 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 720 rpm	Design	: B
Locked rotor time	: 48s (cold) 27s (hot)		-

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	14/04/2022			3 / 21	

#### Three Phase Induction Motor - Squirrel Cage



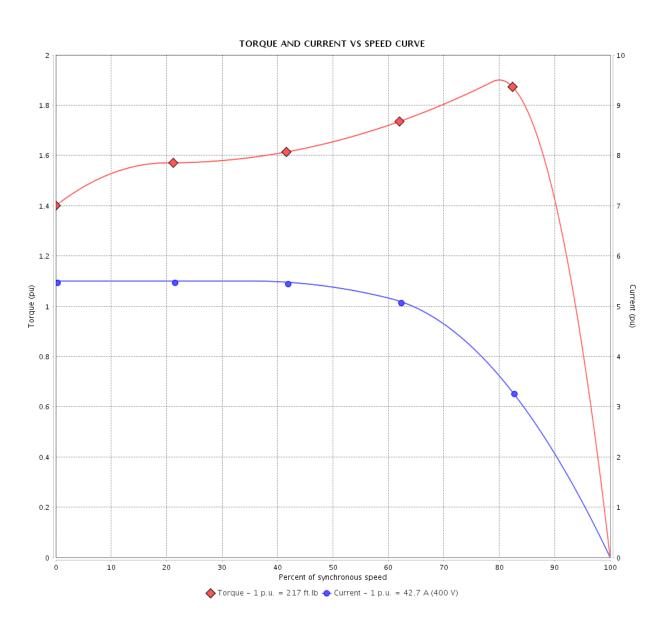
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11355724

Catalog #: 03009ET3E364T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 42.7 A	Moment of inertia (J)	: 23.5 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 217 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355724 Catalog #: 03009ET3E364T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (bd) 1.25 Current 0.5 0.25

Performance : 415 V 50 Hz 8P IE3 Rated current : 42.2 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 216 ft.lb Insulation class : F Rated torque : 150 % : 1.00 Locked rotor torque Service factor Breakdown torque : 200 % Temperature rise : 105 K : B Rated speed : 730 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 216 ft.lb ◆ Current - 1 p.u. = 42.2 A (415 V)

Locked rotor time : 48s (cold) 27s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	14/04/2022	7		5 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

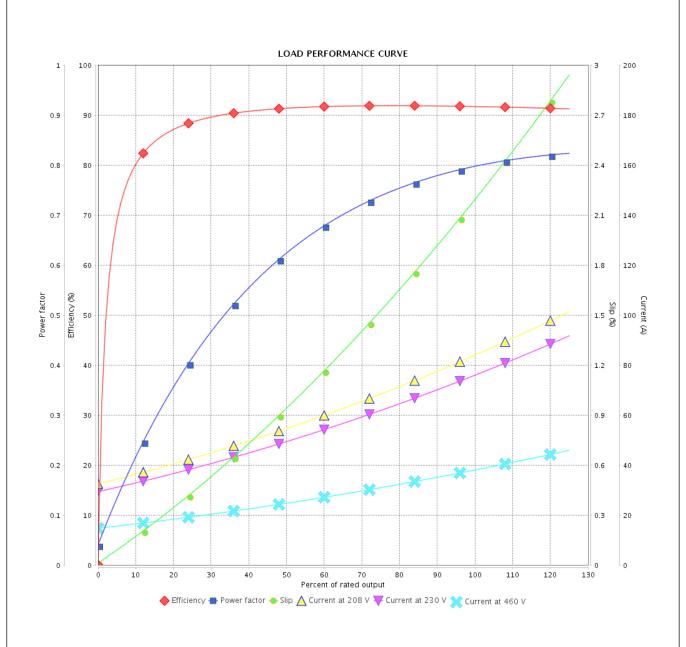
Product code: 11355724

Catalog #: 03009ET3E364T-W22

Page

6/21

Revision



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 75.2/37.6 A : 6.2 : 179 ft.lb : 160 % : 229 % : 880 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



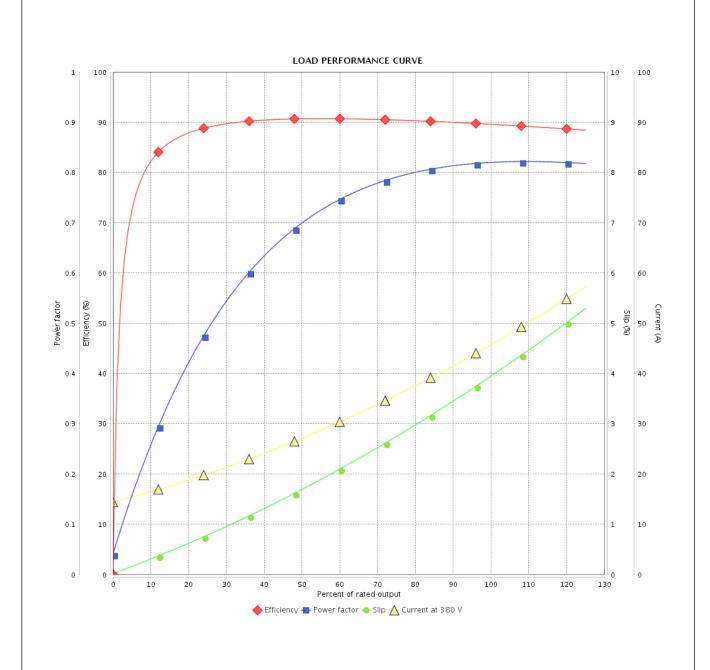
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355724

Phase

Catalog #: 03009ET3E364T-W22

7/21



	<u> </u>				
Performance	: 380 V 50 Hz 8P IE2				
Rated current	: 45.5 A	Moment of	f inertia (J)	: 23.5 sq.ft.lb	
LRC	: 4.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 219 ft.lb	Insulation	class	: F	
Locked rotor torque	: 120 %	Service fa	ctor	: 1.00	
Breakdown torque	: 190 %	Temperature rise		: 105 K	
Rated speed	: 720 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Darfarmed by					
Performed by					
Checked by				Page	Revision

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



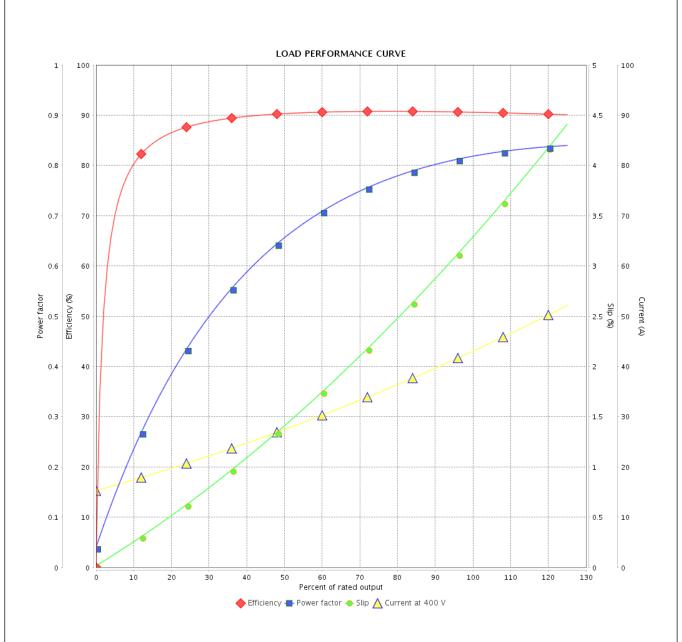
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11355724

Catalog #: 03009ET3E364T-W22



Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 42.7 A	Moment o	f inertia (J)	: 23.5 sq.ft.lb	
LRC	: 5.5	Duty cycle	)	: Cont.(S1)	
Rated torque	: 217 ft.lb	Insulation	class	: F	
Locked rotor torque	: 140 %	Service fa	ctor	: 1.00	
Breakdown torque	: 190 %	Temperature rise		: 105 K	
Rated speed	: 725 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

8 / 21

14/04/2022

Date

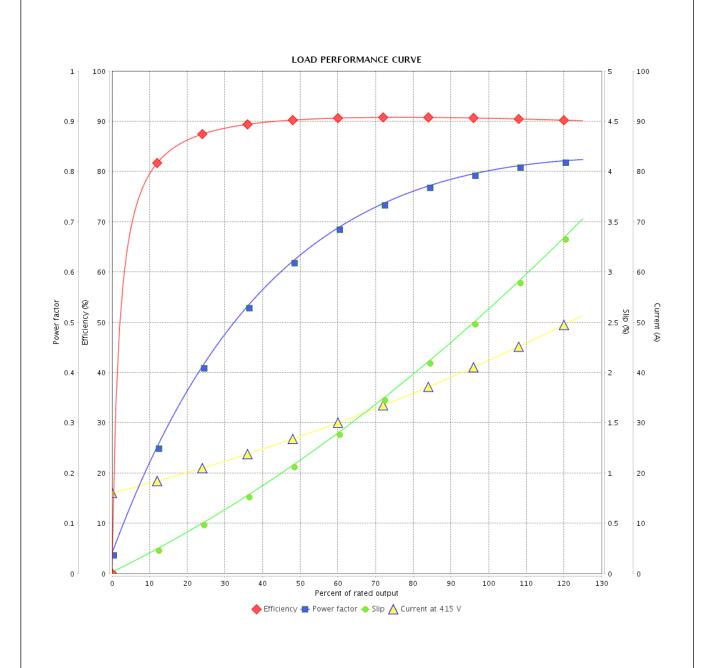
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11355724

Catalog #: 03009ET3E364T-W22



Performance	: 4	: 415 V 50 Hz 8P IE3				
Rated current : 42.2 A		Moment o	f inertia (J)	: 23.5 sq.ft.lb		
LRC	: 5	.9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	16 ft.lb	Insulation	class	: F	
Locked rotor torque :		50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperature rise		: 105 K	
Rated speed	: 7	730 rpm Design		: B		
Rev.		Changes Summary	I .	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	14/04/2022	1			9 / 21	

### Three Phase Induction Motor - Squirrel Cage

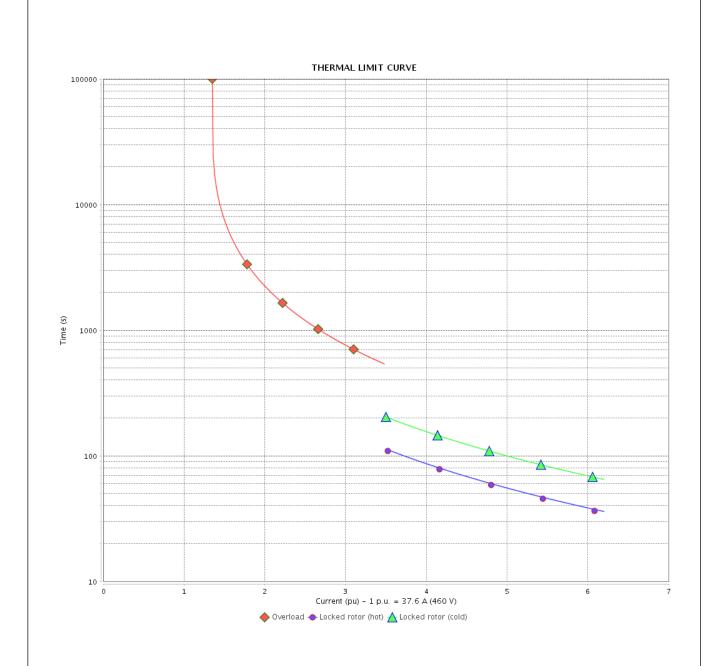


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	11355724	
			Catalog # :	03009ET3E3	64T-W22
Performance	: 230/460 V 60 Hz 8P	1	<b></b>	00.5 6.11	
Rated current LRC	: 75.2/37.6 A : 6.2	Moment of Duty cycle	of inertia (J) e	: 23.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 179 ft.lb	Insulation	class	: F	
Locked rotor torque	: 160 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 229 % : 880 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
Checked by				Page	Revision
Date 14	/0.4/2022			10 / 21	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			11 / 21	

### Three Phase Induction Motor - Squirrel Cage

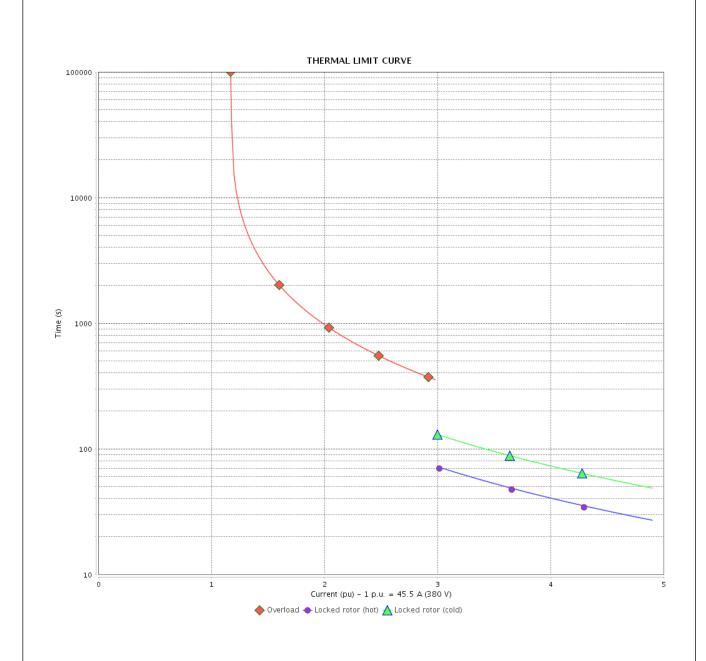


Customer	:				
Product line	: NEMA Premium Effi Phase	ciency Three-	Product code :	11355724	
			Catalog # :	03009ET3E3	64T-W22
Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 45.5 A : 4.9 : 219 ft.lb : 120 % : 190 %	Duty cycl Insulation Service for Temperation	n class actor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 720 rpm	Design		: B	
Heating constant					
Cooling constant					
Rev.	Changes Summary	'	Performed	Checked	Date
Performed by Checked by				Page	Revision
	14/04/2022			12 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 21	

### Three Phase Induction Motor - Squirrel Cage

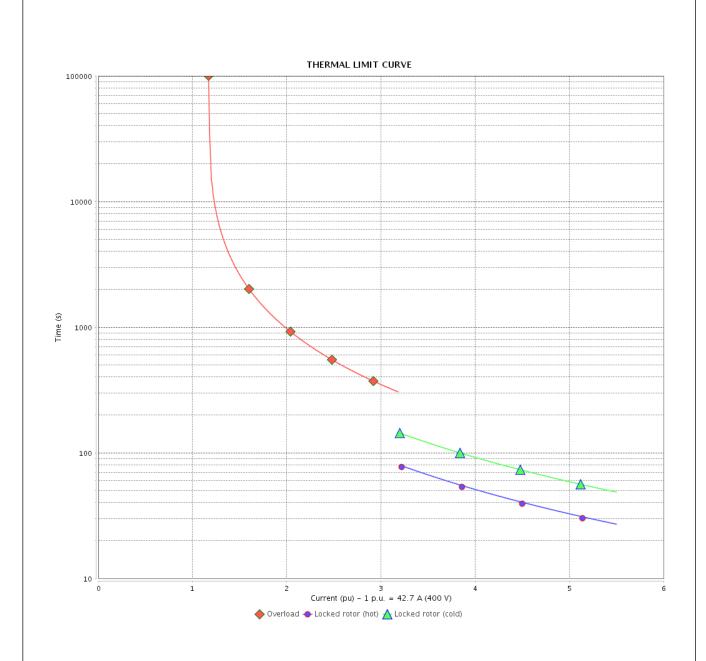


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355724 03009ET3E36	SAT W22
					03009213230	771-4422
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC		: 42.7 A : 5.5	Moment of Duty cycle	of inertia (J) e	: 23.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 217 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		: 140 % : 190 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		: 725 rpm	Design	<del></del>	: B	
Heating constant						
Cooling constant		01 0				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				14 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			15 / 21	

### Three Phase Induction Motor - Squirrel Cage

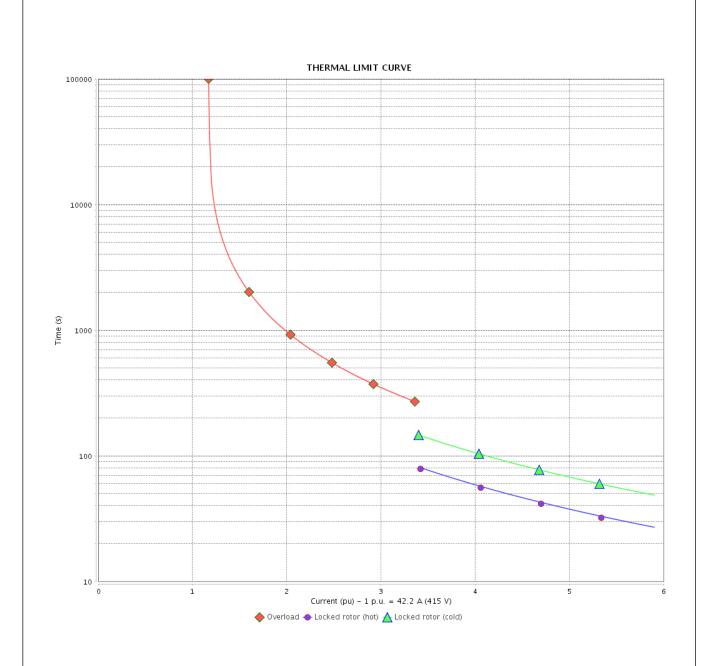


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355724 03009ET3E36	SAT_W22
				- Catalog // .		711 1122
Performance		: 415 V 50 Hz 8P IE3				
Rated current LRC		: 42.2 A : 5.9	Moment of Duty cycle	of inertia (J)	: 23.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 216 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 150 % : 200 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		: 730 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		Dest	Ob I - I	D-4-
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				16 / 21	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			17 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

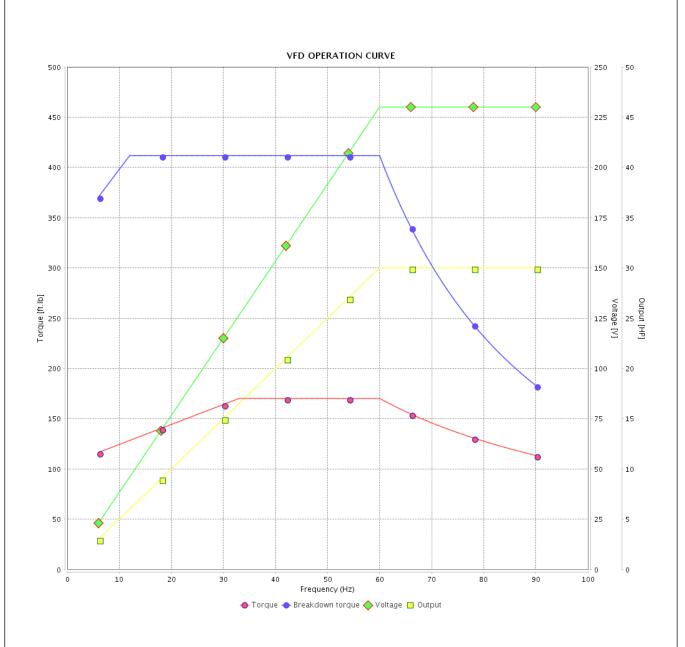
Product code: 11355724

Catalog #: 03009ET3E364T-W22

Page

18/21

Revision



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 75.2/37.6 A : 6.2 : 179 ft.lb : 160 % : 229 % : 880 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer

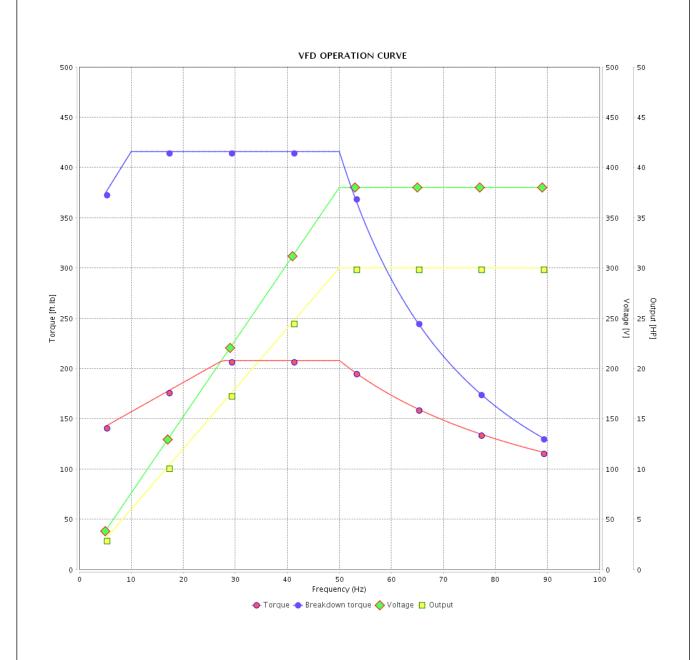
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03009ET3E364T-W22

11355724

19/21



Performance	rmance : 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 45.5 A : 4.9 : 219 ft.lb : 120 % : 190 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

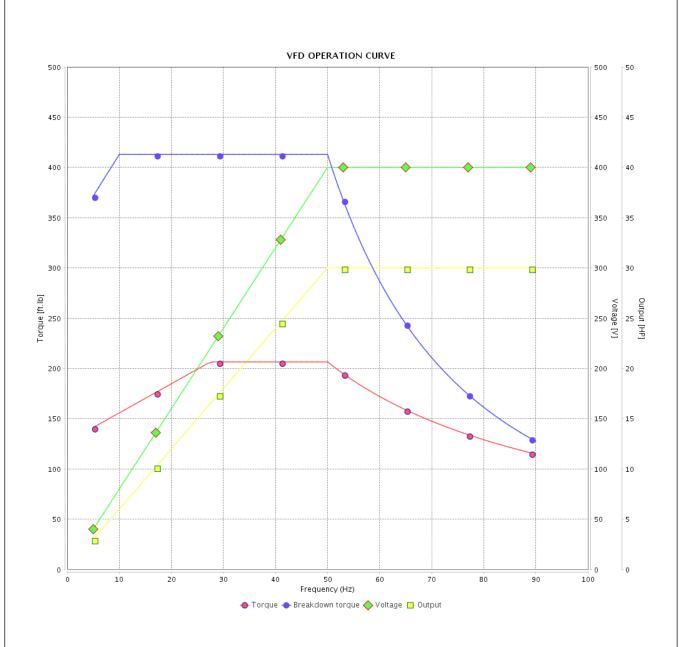
Product code: 11355724

Catalog #: 03009ET3E364T-W22

Page

20 / 21

Revision



Performance	:	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	: 42.7 A : 5.5 : 217 ft.lb : 140 % : 190 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

#### Three Phase Induction Motor - Squirrel Cage

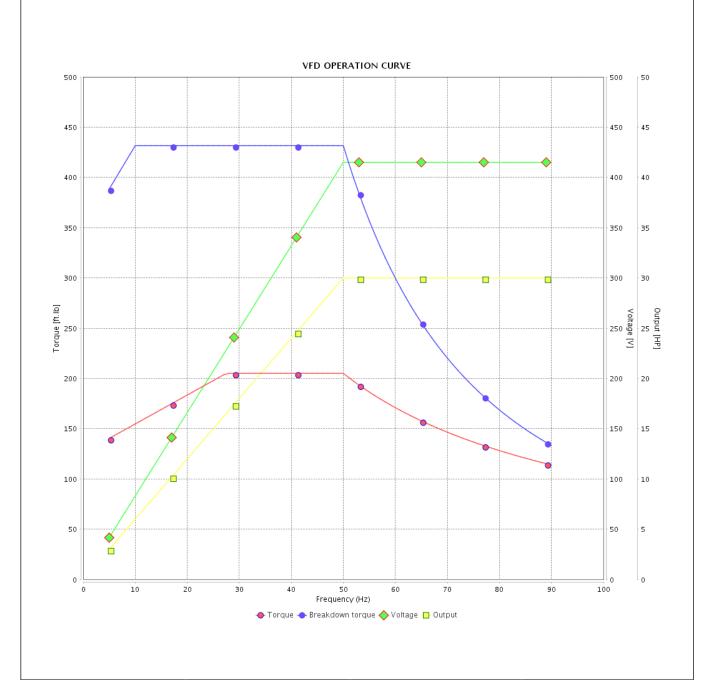


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355724

Phase

Catalog #: 03009ET3E364T-W22



Performance		: 415 V 50 Hz 8P IE3				
Rated current	: 4	: 42.2 A		of inertia (J)	: 23.5 sq.ft.lb	
LRC	: 5	: 5.9		cle	: Cont.(S1)	
Rated torque	: 2	216 ft.lb Insulation of		n class : F		
Locked rotor torqu	e :1	50 %	% Service factor		: 1.00	
Breakdown torque	: 2	00 %	Temperature rise		: 105 K	
Rated speed	: 7	: 730 rpm Des			: B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				21 / 21	

