### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : EXPLOSION PROOF Product code: 14406886

> Catalog #: 02036XT3E256T

Cooling method Frame : 256T : IC411 - TEFC

Insulation class Mounting : F : 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

Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 360 lb : 1.45 sq.ft.lb

Protection degree : IP55 Moment of inertia (J)

	: B			
Output [HP]		20	20	20
	2	2	2	2
	60	50	50	50
	230/460	380	400	415
	46.4/23.2	27.8	26.4	25.8
	288/144	136	145	157
	6.2x(Code G)	4.9x(Code D)	5.5x(Code F)	6.1x(Code G)
]	13.4/6.70	6.40	6.80	7.20
1]	3530	2900	2910	2920
	1.94	3.33	3.00	2.67
Rated torque [ft.lb]		36.2	36.1	36.0
Locked rotor torque [%]		140	160	180
Breakdown torque [%]		190	210	229
Service factor		1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K
	46s (cold) 26s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)
	75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
	90.0	89.9	89.9	89.9
50%	90.2	90.2	90.2	90.2
75%	91.0	91.0	91.0	91.0
100%	91.0	91.0	91.0	91.0
25%	0.55	0.61	0.58	0.55
	0.79	0.83	0.81	0.79
75%	0.86	0.88	0.87	0.86
	25% 50% 75% 100%	20 2 60 230/460 46.4/23.2 288/144 6.2x(Code G) 13.4/6.70 13530 1.94 29.8 e [%] 200 [%] 250 1.15 80 K 46s (cold) 26s (hot) 75.0 dB(A) 25% 90.0 50% 90.2 75% 91.0 100% 91.0 25% 0.55 50% 0.79	20 20 20 20 20 20 20 60 50 50 380 46.4/23.2 27.8 288/144 136 6.2x(Code G) 4.9x(Code D) 13.4/6.70 6.40 333 2900 1.94 3.33 29.8 36.2 e [%] 200 140 [%] 250 190 1.15 1.00 80 K 80 K 80 K 80 K 46s (cold) 26s (hot) 75.0 dB(A) 70.0 dB(A) 25% 90.0 91.0 91.0 100% 91.0 91.0 25% 0.55 0.61 50% 0.79 0.83	20   20   20   20   20   20   20   20

0.90

Drive end Non drive end Foundation loads

0.89

Bearing type 6309 C3 6209 C3 Max. traction : 217 lb Sealing Oil Seal Lip Seal Max. compression : 576 lb

Lubrication interval 15797 h 18447 h 9 g Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 50.6A SF 1.10 SFA 55.6A

100%

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.

0.90

0.89

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			1 / 18	

# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



_	
Customer	
Customer	

#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			2 / 18	

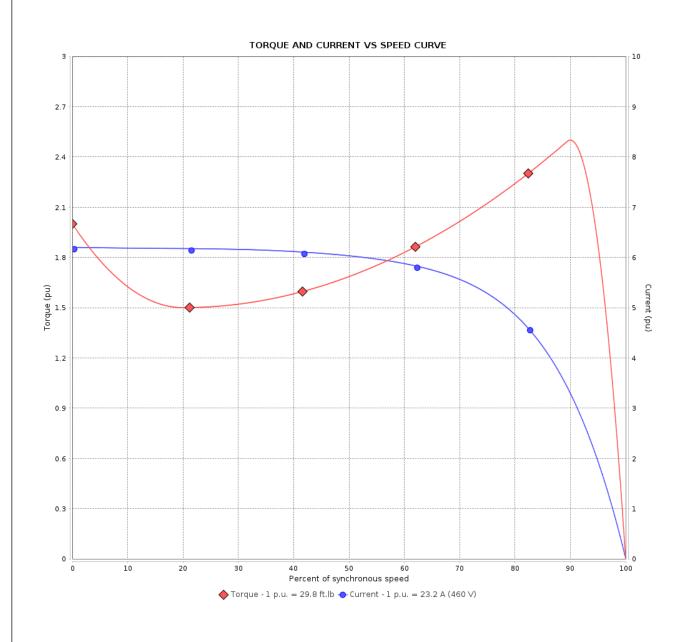
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 230/460 V 60 Hz 2P			
Rated current	: 46.4/23.2 A	Moment of inertia (J)	: 1.45 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 29.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 3530 rpm	Design	: B	

Locked rotor time : 46s (cold) 26s (hot)

		. , , , ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			3 / 18	

#### Three Phase Induction Motor - Squirrel Cage

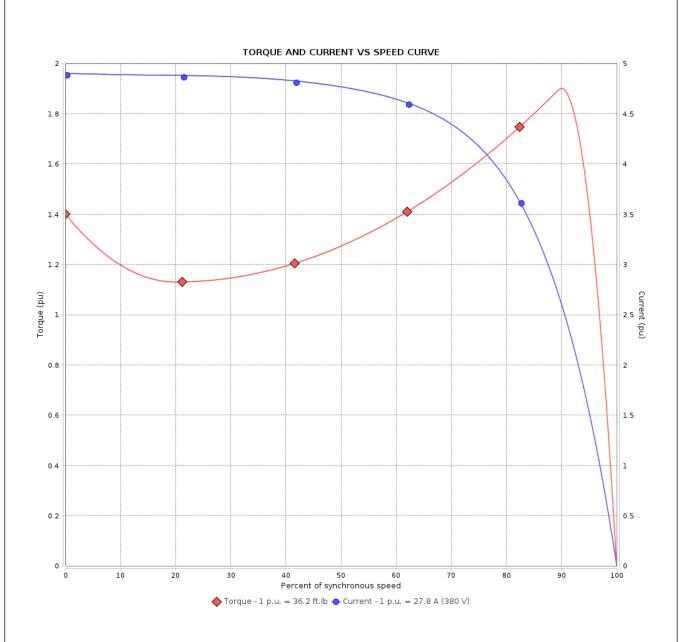


Customer	
Cusioniei	

Product line : EXPLOSION PROOF

Product code : Catalog # :

14406886 02036XT3E256T



Performance : 380 V 50 Hz 2P IE2 Rated current : 27.8 A Moment of inertia (J) : 1.45 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : F Rated torque : 36.2 ft.lb Insulation class Service factor Locked rotor torque : 140 % : 1.00 Breakdown torque : 190 % Temperature rise : 80 K : B Rated speed : 2900 rpm Design

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			4 / 18	

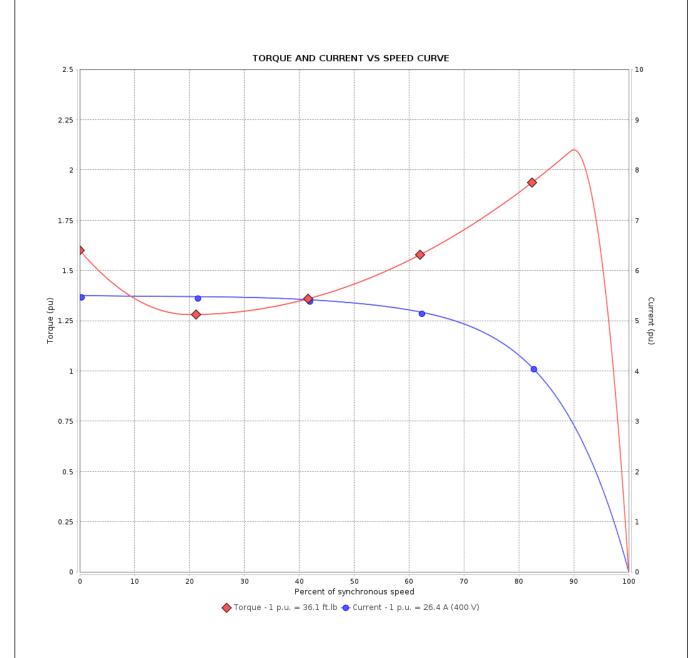
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 26.4 A	Moment of inertia (J)	: 1.45 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 36.1 ft.lb	Insulation class	:F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	

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

Lockou rotor tim		30 (0014) 170 (1101)			
Rev.		Changes Summary	Performed	Checked	Date
Darfarmad by					
Performed by					
Checked by				Page	Revision
Date	10/02/2023			5 / 18	

### Three Phase Induction Motor - Squirrel Cage

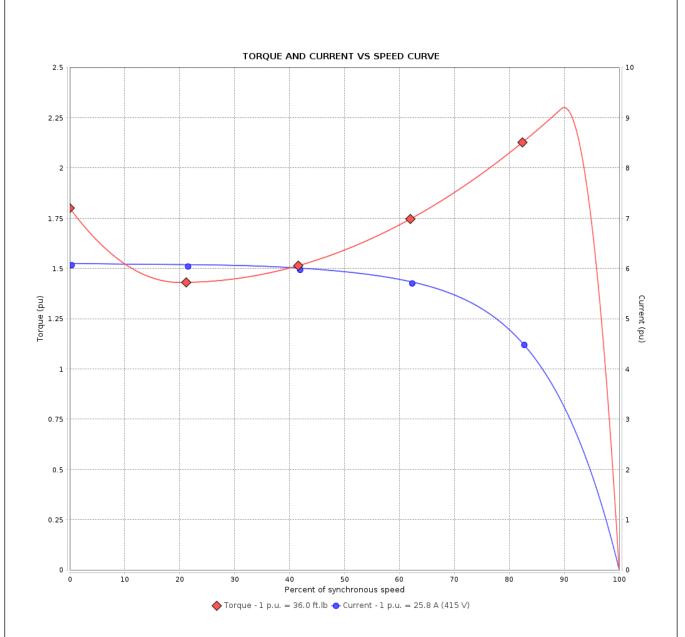


_	
Customer	

Product line : EXPLOSION PROOF

Product code : Catalog # :

14406886 02036XT3E256T



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 25.8 A	Moment of inertia (J)	: 1.45 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 36.0 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			6 / 18	

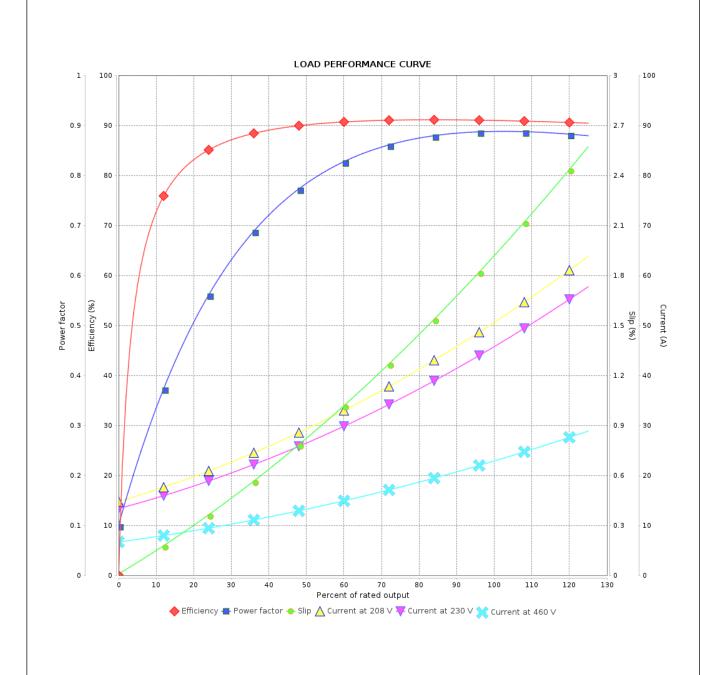
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 4	6.4/23.2 A	Moment o	f inertia (J)	: 1.45 sq.ft.lb	
LRC	: 6	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	9.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service factor		: 1.15	
Breakdown torque	: 2	50 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	530 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Dorformed by		T				
Performed by						
Checked by					Page	Revision
Date	10/02/2023				7 / 18	

### Three Phase Induction Motor - Squirrel Cage



Customer

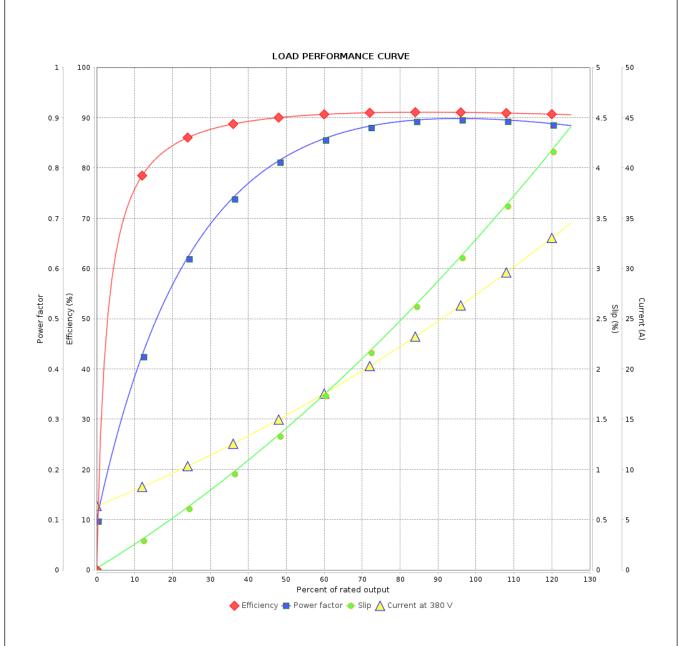
Checked by

Date

10/02/2023

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance		: 380 V 50 Hz 2I	P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 27.8 A : 4.9 : 36.2 ft.lb : 140 % : 190 % : 2900 rpm	Duty Insula Servi	cycle ation ce fa eratu	class	: 1.45 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Su	mmary		Performed	Checked	Date
Performed by							

Page

8 / 18

Revision

### Three Phase Induction Motor - Squirrel Cage



Customer :

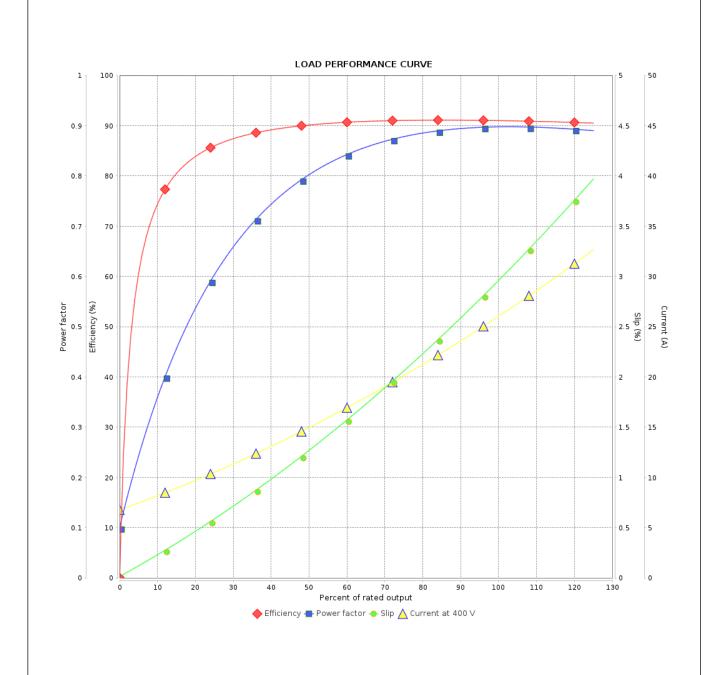
Checked by

Date

10/02/2023

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance		: 400 V 50 Hz 2P	IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 26.4 A : 5.5 : 36.1 ft.lb : 160 % : 210 % : 2910 rpm	Duty cyc Insulatio Service	n class	: 1.45 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Sum	nmary	Performed	Checked	Date
Performed by						

Page

9 / 18

Revision

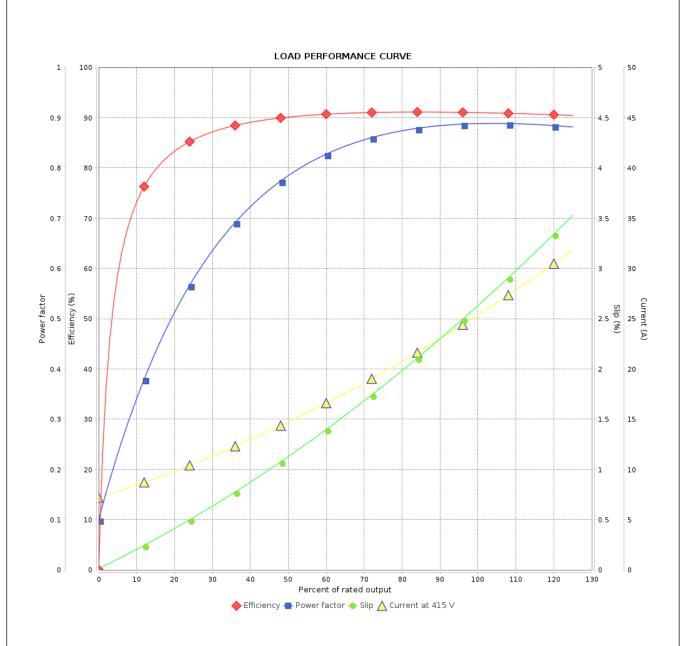
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 415 V 50 Hz 2P IE2				
Rated current	: 25.8 A	Moment of	inertia (J)	: 1.45 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 36.0 ft.lb	Insulation class Service factor Temperature rise		: F	
Locked rotor torque	: 180 %			: 1.00	
Breakdown torque	: 229 %			: 80 K	
Rated speed	: 2920 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Parformed by					
Performed by					
Checked by				Page	Revision

10 / 18

10/02/2023

Date

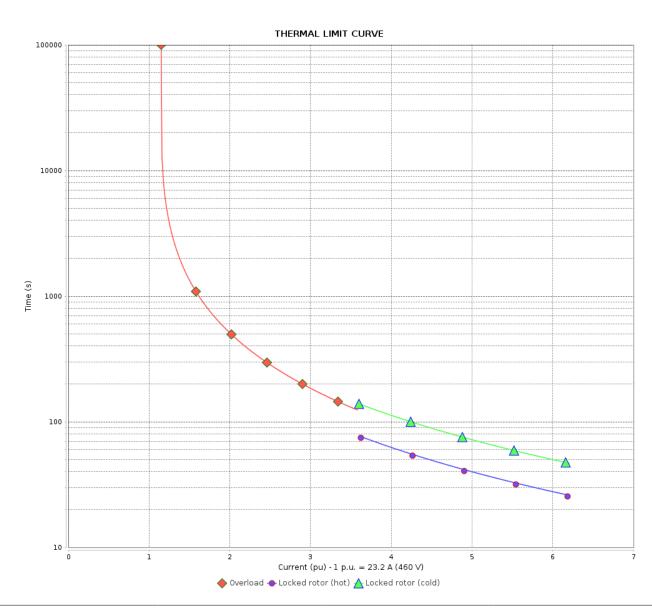
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : EXPLOSION PROOF Product code: 14406886

> Catalog #: 02036XT3E256T



Performance : 230/460 V 60 Hz 2P : 46.4/23.2 A Moment of inertia (J) : 1.45 sq.ft.lb Rated current **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : 29.8 ft.lb Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % : 80 K Temperature rise Rated speed : 3530 rpm Design : B Heating constant

Cooling constant

Cooling constant					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			11 / 18	

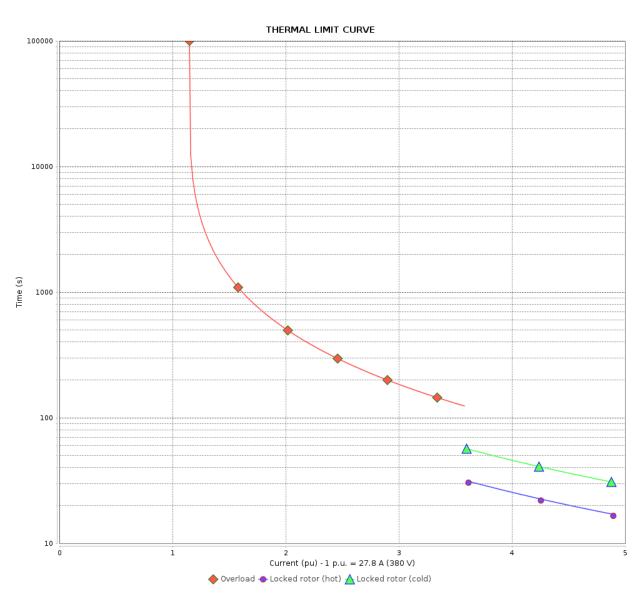
#### Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 380 V 50 Hz 2P IE2			
Rated current	: 27.8 A	Moment of inertia (J)	: 1.45 sq.ft.lb	
LRC	: 4.9	Duty cycle	: Cont.(S1)	
Rated torque	: 36.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 140 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 80 K	
Rated speed	: 2900 rpm	Design	: B	
Heating constant				

Heating constant Cooling constant

Rev. Changes Summary Performed Checked Date

Performed by
Checked by
Date 10/02/2023 Page Revision
12 / 18

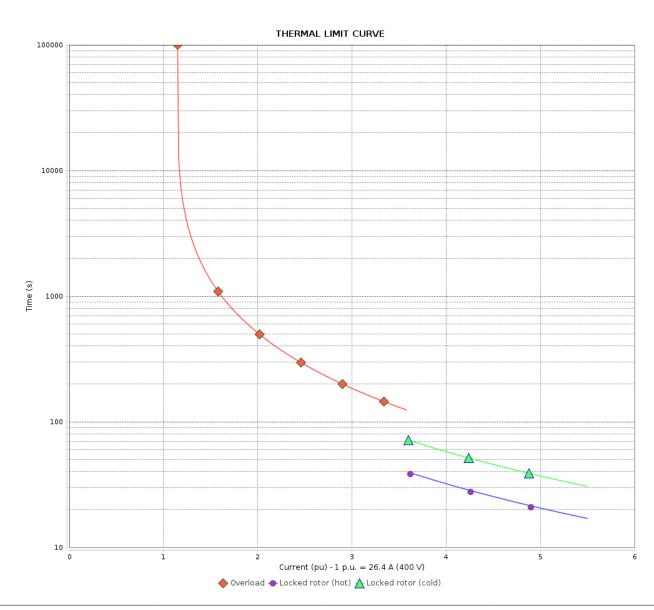
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : EXPLOSION PROOF Product code: 14406886

> Catalog #: 02036XT3E256T



: 400 V 50 Hz 2P IE2 Performance : 26.4 A Moment of inertia (J) : 1.45 sq.ft.lb Rated current **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.1 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 : 210 % : 80 K Breakdown torque Temperature rise Rated speed : 2910 rpm Design : B Heating constant

Cooling constant

Cooling constant	L				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			13 / 18	

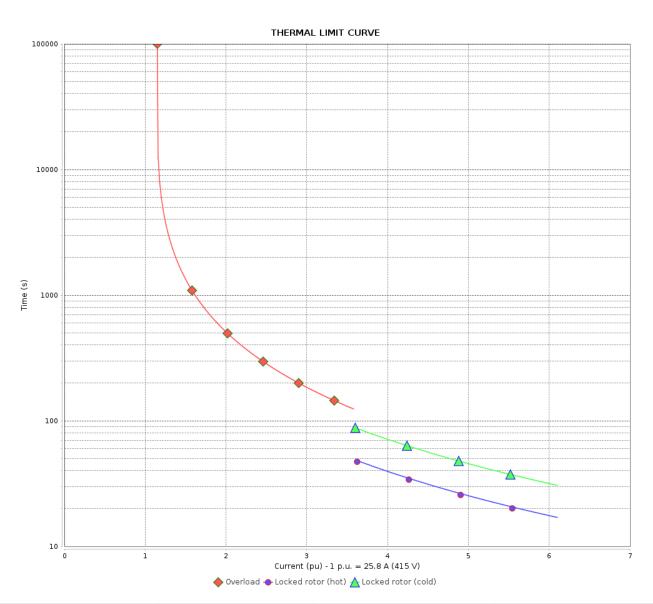
### Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Product line : EXPLOSION PROOF Product code: 14406886

02036XT3E256T Catalog #:



Performance	: 415 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 25.8 A : 6.1 : 36.0 ft.lb : 180 % : 229 % : 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.45 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	. 2920 19111	Design	. U	

Cooling constant

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/02/2023			14 / 18	

### Three Phase Induction Motor - Squirrel Cage



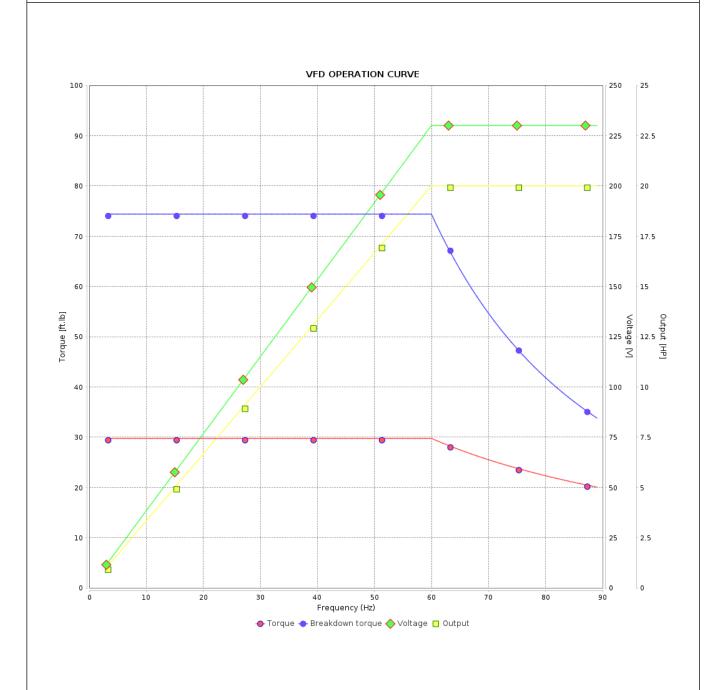
Customer :

Date

10/02/2023

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 46.4/23.2 A : 6.2 : 29.8 ft.lb : 200 % : 250 % : 3530 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.45 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

15 / 18

#### Three Phase Induction Motor - Squirrel Cage



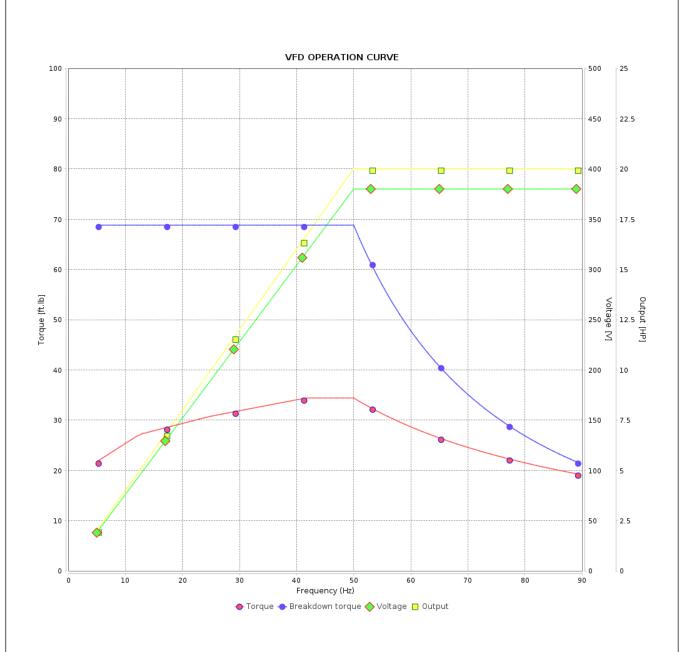
Customer :

Date

10/02/2023

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance : 380 V 50 Hz 2P IE2 Rated current : 27.8 A Moment of inertia (J) : 1.45 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.2 ft.lb : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

16 / 18

### Three Phase Induction Motor - Squirrel Cage



Customer :

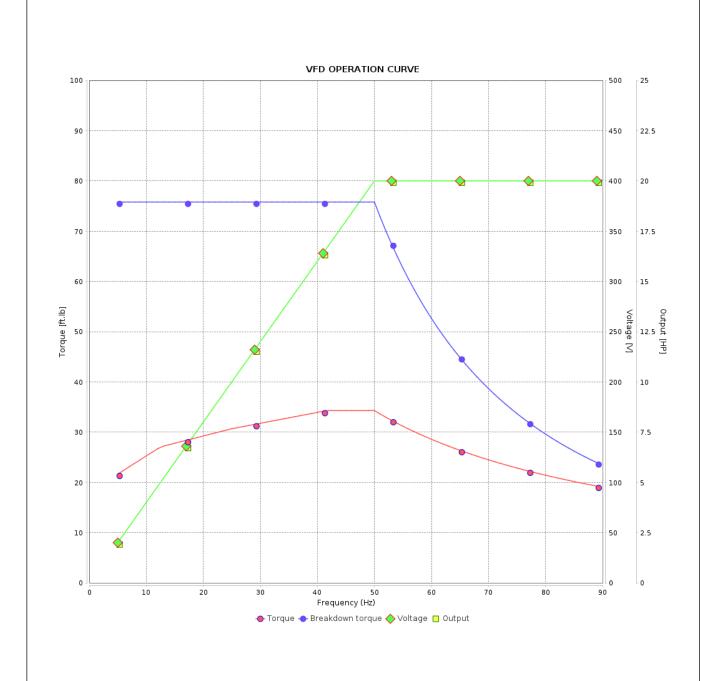
Checked by

Date

10/02/2023

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 400 V 50 Hz 2P IE2					
Rated current	: 26.4 A	Moment of inertia (J)		: 1.45 sq.ft.lb		
LRC	: 5.5	Duty cycle		: Cont.(S1)		
Rated torque	: 36.1 ft.lb	Insulation class		: F		
Locked rotor torque	: 160 %	Service factor		: 1.00		
Breakdown torque	: 210 %	Temperature rise		: 80 K		
Rated speed	: 2910 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by				•		

Page

17 / 18

Revision

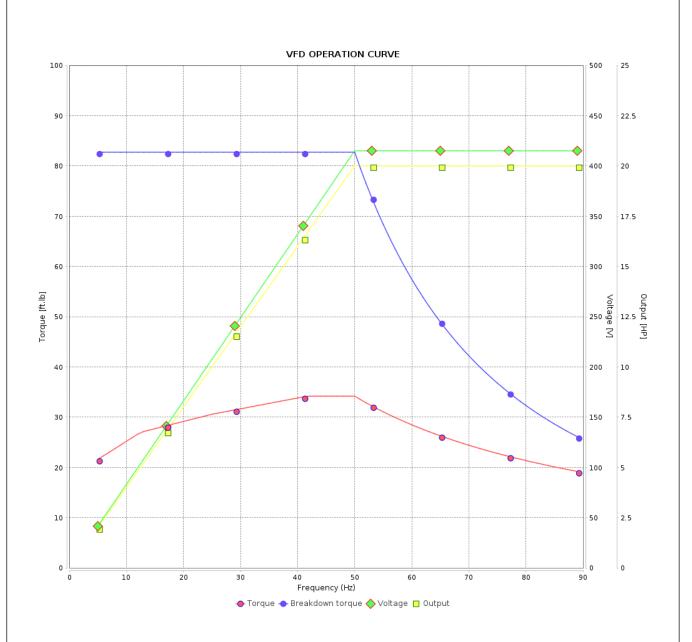
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : EXPLOSION PROOF Product code : 14406886

Catalog #: 02036XT3E256T



Performance	: 415 V 50 Hz 2P IE2						
Rated current	: 25.8 A	Moment of inertia (J)		: 1.45 sq.ft.lb			
LRC	: 6.1	Duty cycle		: Cont.(S1)			
Rated torque	: 36.0 ft.lb	Insulation class		: F			
Locked rotor torque	: 180 %	Service factor		: 1.00			
Breakdown torque	: 229 %	Temperature rise Design		: 80 K			
Rated speed	: 2920 rpm			: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

18 / 18

10/02/2023

Date

