## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408985

Catalog #: 06018XT3E364TC

: 20.8 sq.ft.lb

Frame : 364/5TC 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 Starting method Ambient temperature : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1024 lb Altitude

: IP55 Protection degree Moment of inertia (J)

Design		: B		. ,	·
Output [HP]		60	50	50	50
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		137/68.3	69.0	66.0	64.8
L. R. Amperes [A]		956/478	449	482	505
LRC [A]		7.0x(Code H)	6.5x(Code G)	7.3x(Code H)	7.8x(Code J)
No load current [A]		44.0/22.0	21.7	23.5	24.9
Rated speed [RPM	1]	1780	1480	1480	1480
Slip [%]		1.11	1.33	1.33	1.33
Rated torque [ft.lb]		177	177	177	177
Locked rotor torque [%]		250	210	250	270
Breakdown torque [%]		250	229	260	290
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
	25%	93.5	94.5	93.5	93.1
Efficiency (%)	50%	94.1	94.1	93.6	93.6
Liliciency (70)	75%	94.5	94.1	94.1	94.1
	100%	95.0	93.6	94.1	94.5
	25%	0.48	0.49	0.45	0.43
Power Factor	50%	0.72	0.72	0.69	0.66
I OWELL ACIO	75%	0.82	0.82	0.80	0.78
	100%	0.87	0.87	0.86	0.84

**Drive** end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1251 lb Sealing Oil Seal Lip Seal Max. compression : 2275 lb

Lubrication interval 9789 h 9789 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 151A SF 1.00 SFA 151A

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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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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#### Thermal protection

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

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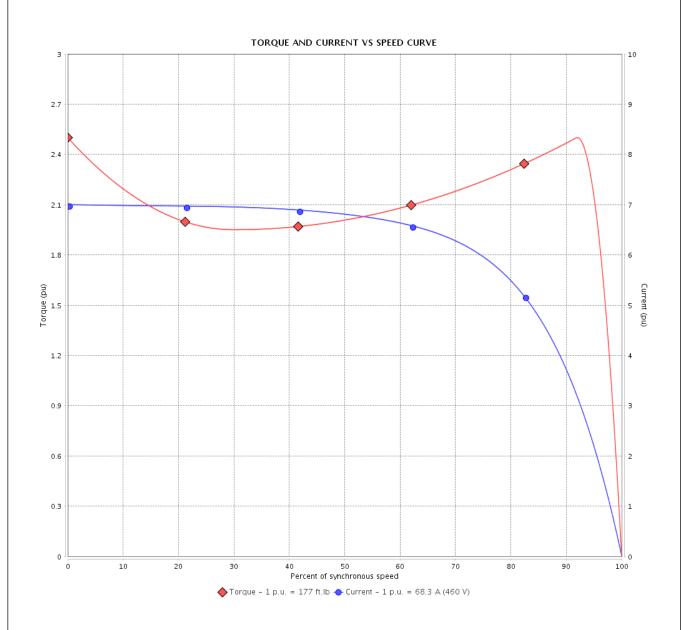


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 137/68.3 A	Moment of inertia (J)	: 20.8 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B
Locked rotor time	: 36s (cold) 20s (hot)		

Locked rotor time : 36s (cold) 20s (hot)

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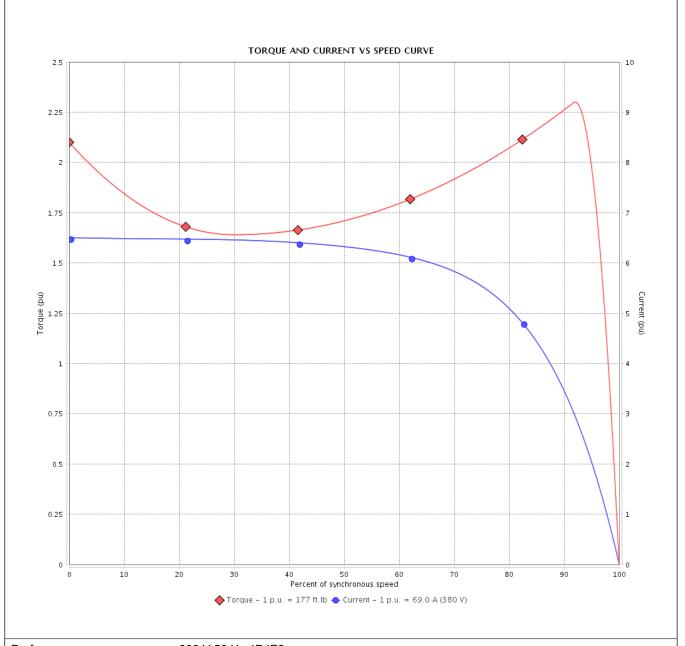
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408985

Catalog #: 06018XT3E364TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 69.0 A Moment of inertia (J) : 20.8 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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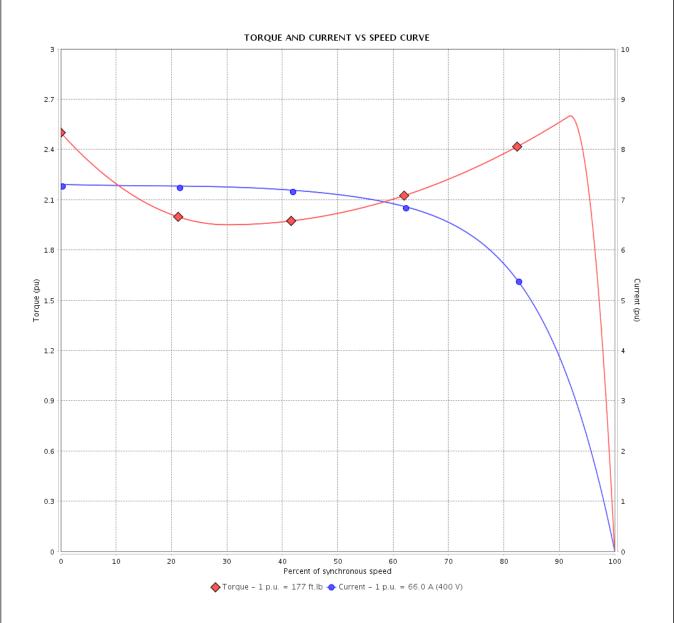
## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408985

Catalog #: 06018XT3E364TC



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 66.0 A	Moment of inertia (J)	: 20.8 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 39s (cold) 22s (hot)		-

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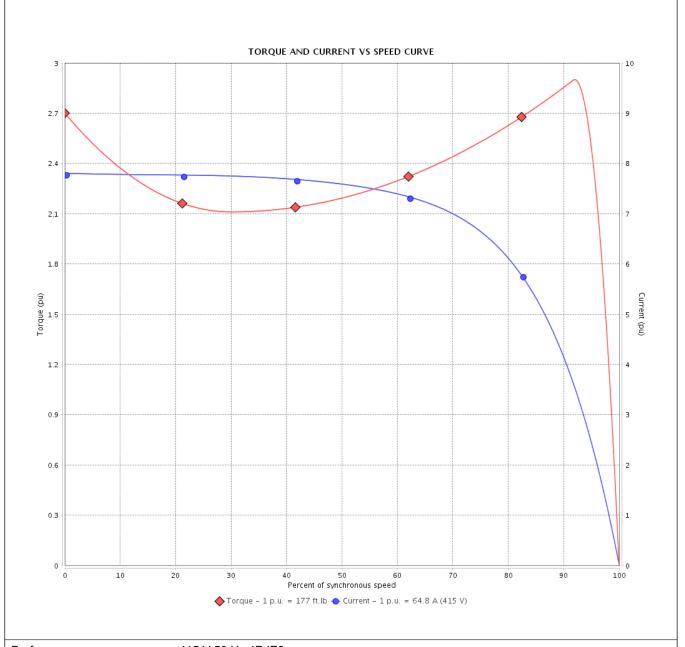
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408985

Catalog #: 06018XT3E364TC



 Performance
 : 415 V 50 Hz 4P IE3

 Rated current
 : 64.8 A
 Moment of inertia (J)
 : 20.8 sq.ft.lb

 LRC
 : 7.8
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 177 ft.lb
 Insulation class
 : F

Locked rotor torque: 270 %Service factor: 1.00Breakdown torque: 290 %Temperature rise: 80 KRated speed: 1480 rpmDesign: B

Locked rotor time : 39s (cold) 22s (hot)

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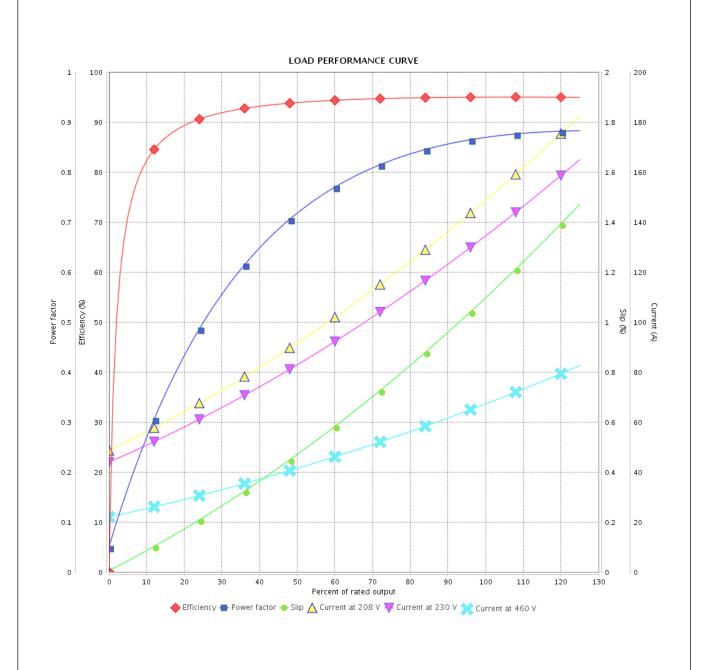


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	137/68.3 A	Moment o	f inertia (J)	: 20.8 sq.ft.lb	
LRC	:	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	1780 rpm	Design		: B	
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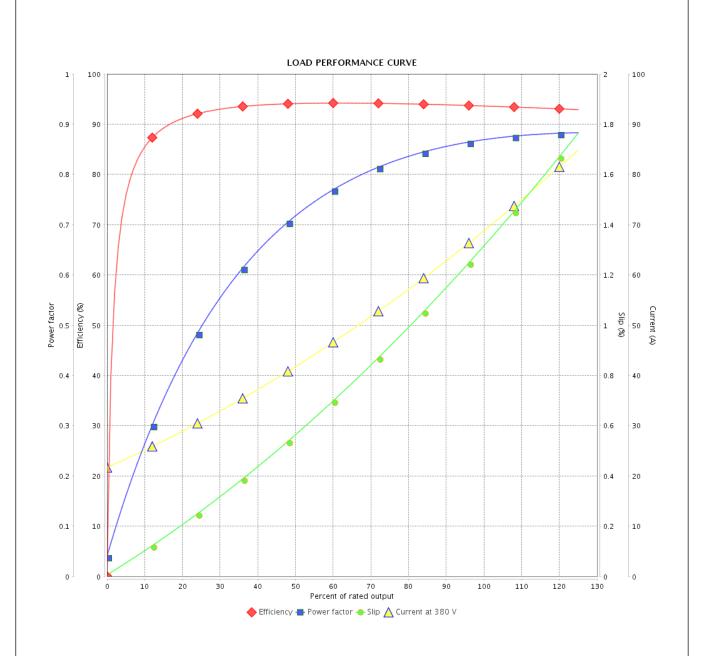
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Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	: 3	80 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	9.0 A .5 77 ft.lb 10 % 29 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 20.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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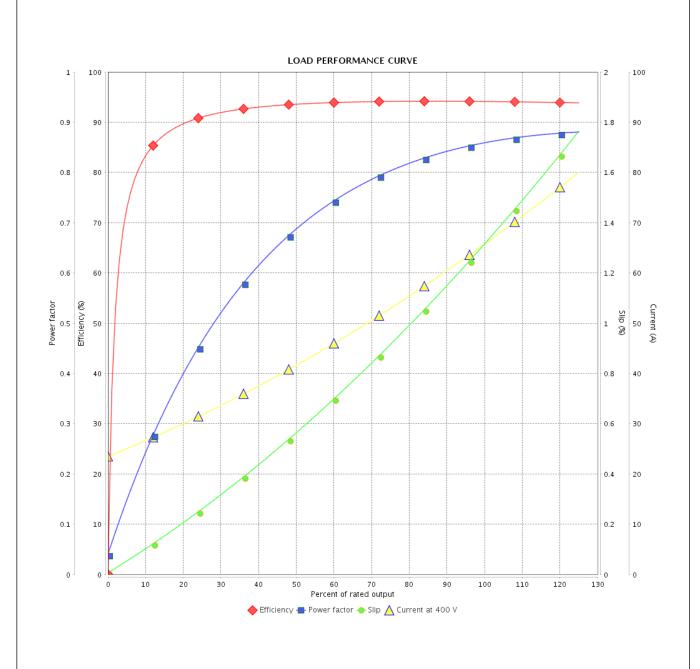


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	66.0 A	Moment o	f inertia (J)	: 20.8 sq.ft.lb	
LRC	:	7.3	Duty cycle	)	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	:	260 %	Temperati	Temperature rise		
Rated speed	:	1480 rpm	Design		: B	
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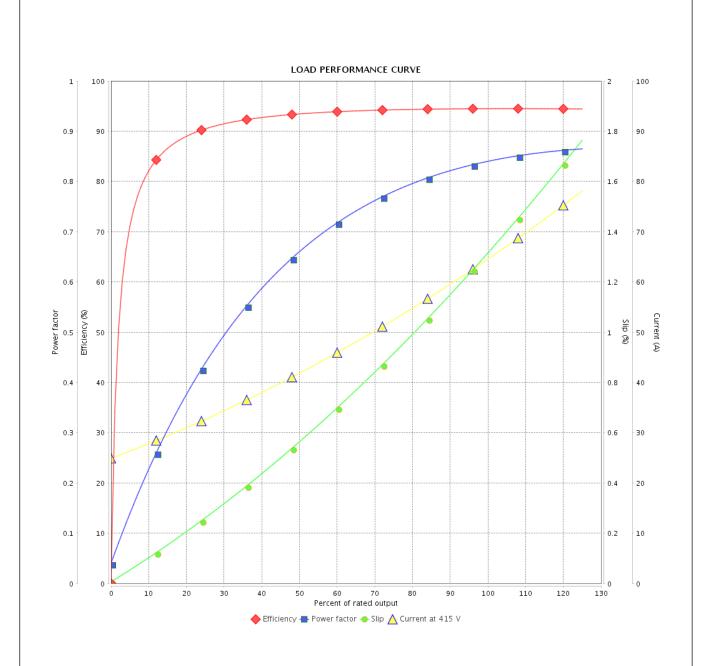
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Phase

Catalog #: 06018XT3E364TC

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 64.8 A : 7.8 : 177 ft.lb : 270 % : 290 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 20.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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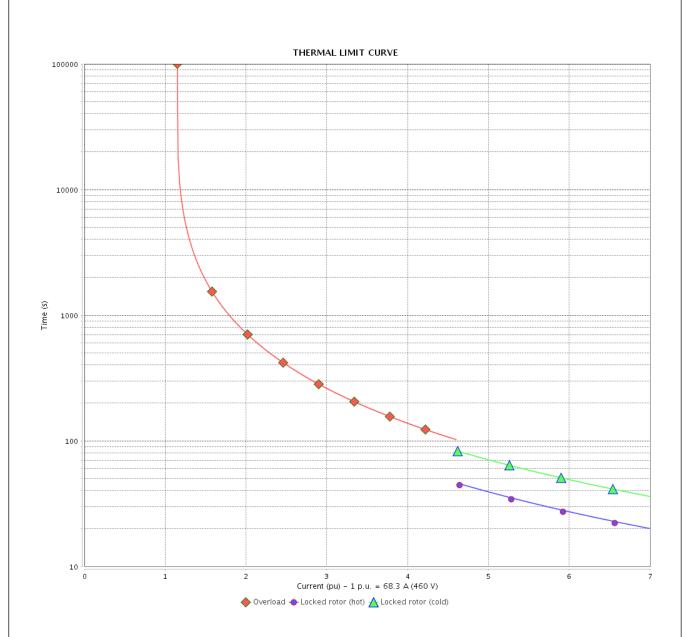


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Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	12408985 06018XT3E3	364TC
Performance Rated current LRC Rated torque Locked rotor tord	: 13 : 7. : 17 que : 28	77 ft.lb 50 %	Duty cycle Insulation Service fa	class actor	: 20.8 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed Heating constant	: 17	50 % 780 rpm	Temperati Design	ure rise	: 80 K : B	
Cooling constant						
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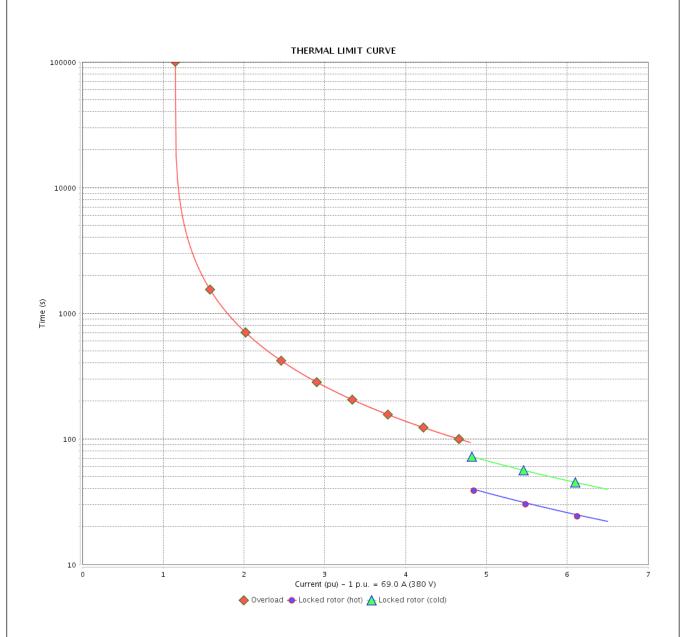


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Product line		NEMA Premium Efficiency hase	Three-	Product code :	12408985	
	•	ndoo		Catalog # :	06018XT3E3	364TC
Performance Rated current RC Rated torque	: 6: : 6: : 1:	77 ft.lb	Duty cycle Insulation	class	: 20.8 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie : 22	10 % 29 % 480 rpm	Service fa Temperat Design		: 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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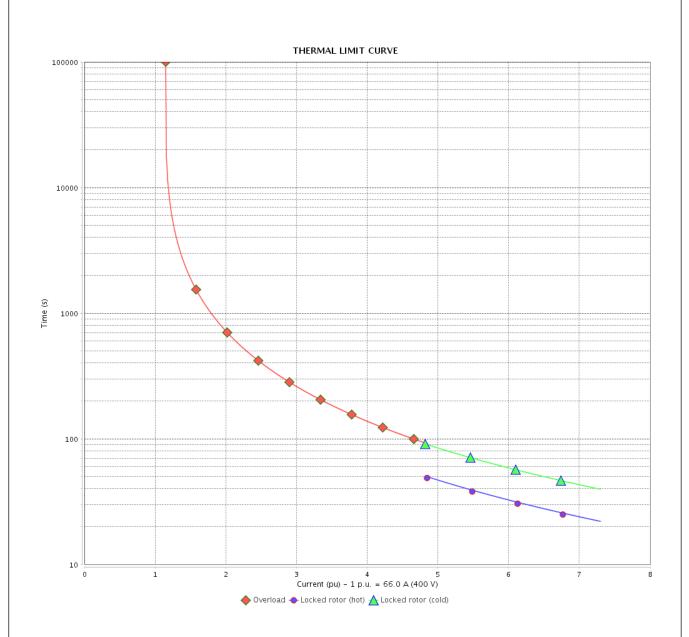


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Product line	:	NEMA Premium Efficiency	Three-	Product code :	12408985	
	P	hase		Catalog # :	06018XT3E3	364TC
Performance Rated current LRC Rated torque Locked rotor torque Rated speed	: 6 : 7 : 1 jue : 2 ie : 2	00 V 50 Hz 4P IE3 6.0 A .3 77 ft.lb 50 % 60 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 20.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant		01 0				
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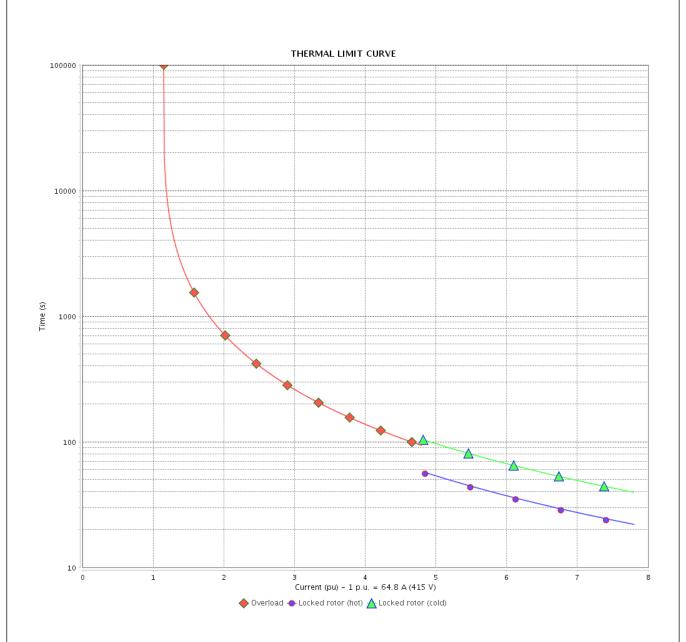


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12408985	
				Catalog # :	06018XT3E3	B64TC
Performance		15 V 50 Hz 4P IE3				
Rated current .RC	: 64 : 7.	4.8 A 8	Moment o   Duty cycle	of inertia (J)	: 20.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
_ocked rotor tord Breakdown torqu		70 % 90 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		480 rpm	Design	uie lise	: B	
Heating constan	t					
Cooling constant						
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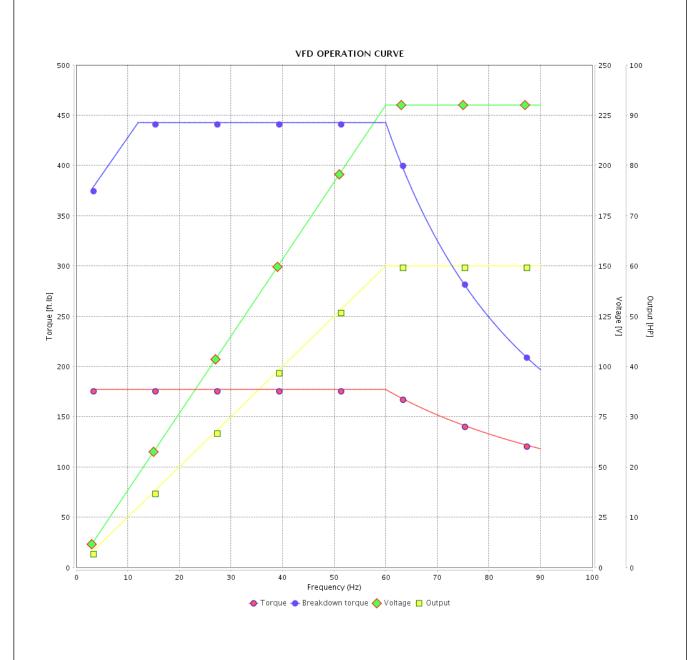


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	: 2:	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7 : 1 e : 2	37/68.3 A .0 77 ft.lb 50 % 50 % 780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 20.8 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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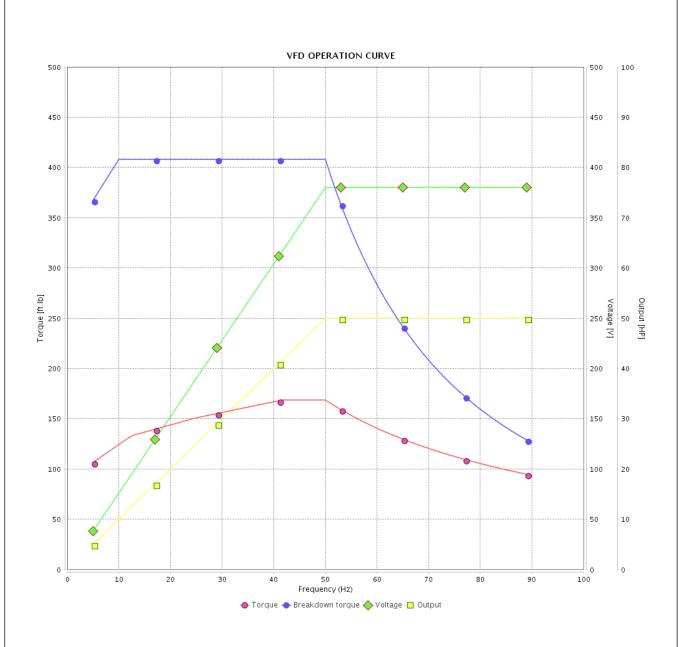
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Phase

Product code: 12408985

Catalog #: 06018XT3E364TC



Performance	: 3	880 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 2	9.0 A 6.5 77 ft.lb 110 % 129 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 20.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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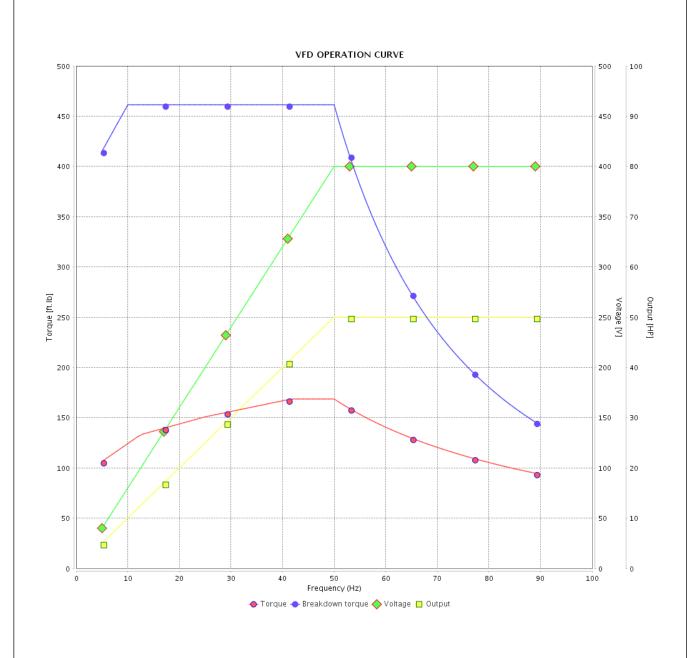


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408985

Phase

Catalog #: 06018XT3E364TC



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.0 A : 7.3 : 177 ft.lb : 250 % : 260 % : 1480 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design	,	: 20.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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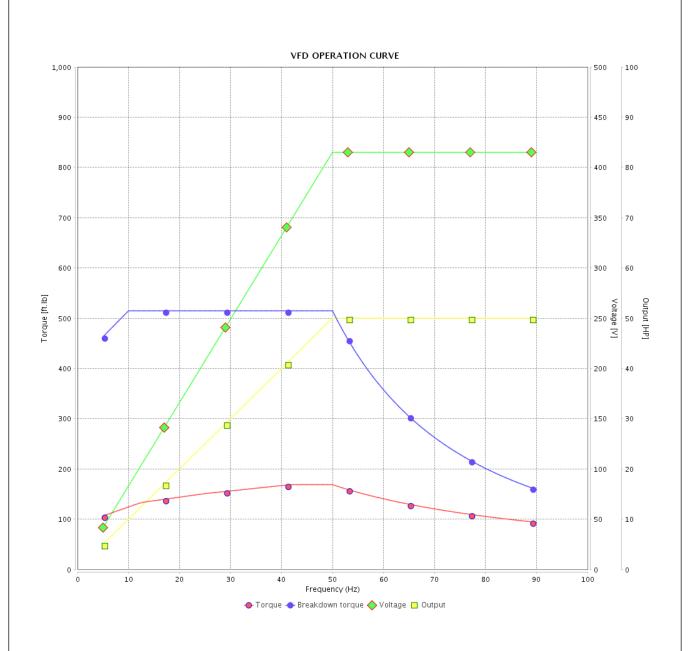
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Phase

Product code: 12408985

Catalog #: 06018XT3E364TC



Performance	: 415 V 50 Hz 4P IE3						
Rated current	: 64.8 A Moment of inertia (J)		: 20.8 sq.ft.lb				
LRC	: 7.8	Duty cycle	: Cont.(S1)				
Rated torque	: 177 ft.lb Insulation class		: F	* *			
Locked rotor torque	: 270 %	Service factor	: 1.00				
Breakdown torque	: 290 %	Temperature rise	: 80 K				
Rated speed	: 1480 rpm	Design	: B				
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