DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13163406

Catalog #: 00736OT3E184TC-SG

Frame : 182/4TC Cooling method : IC01 - ODP

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 69.9 lb
Design		: B	Moment of inertia (J)	: 0.1818 sq.ft.lb
Output [HP]		7.5	7.5	7.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		17.3/8.67	21.4/10.7	19.2/10.2
L. R. Amperes [A]		128/64.2	120/59.9	121/64.3
LRC [A]		7.4x(Code H)	5.6x(Code F)	6.3x(Code G)
No load current [A]	6.43/3.22	6.33/3.17	6.59/3.49
Rated speed [RPN	<i>/</i> I]	3500	2865	2880
Slip [%]		2.78	4.50	4.00
Rated torque [ft.lb]		11.3	13.7	13.7
Locked rotor torqu	e [%]	180	150	170
Breakdown torque	[%]	290	210	240
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	88.3	91.3	90.6
Efficiency (%)	50%	88.5	88.9	88.8
Liliciency (70)	75%	88.5	87.4	87.9
	100%	88.5	84.7	85.7
	25%	0.49	0.55	0.51
Power Factor	50%	0.76	0.82	0.79
I OWELL ACIOI	75%	0.85	0.89	0.87
	100%	0.90	0.92	0.91

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6205 ZZ Max. traction : 175 lb Sealing Without Without Max. compression : 244 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 19.2A SF 1.00 SFA 19.2A

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



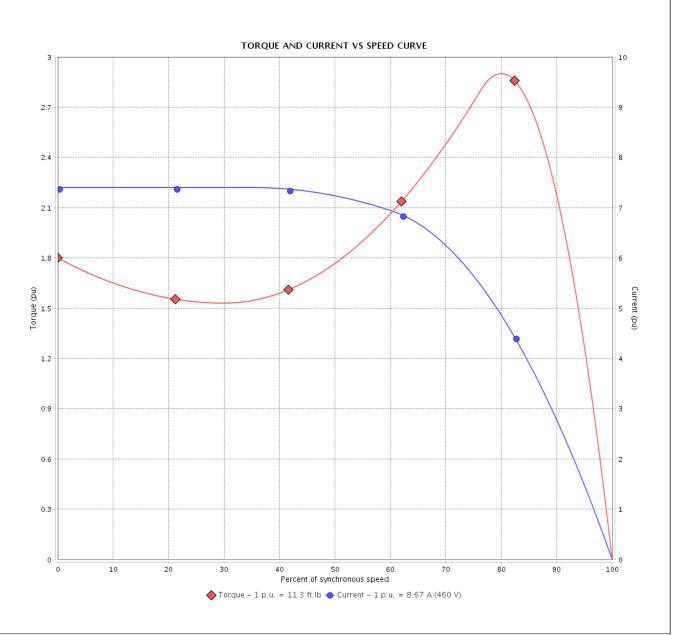
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13163406

Catalog #: 00736OT3E184TC-SG



Performance : 230/460 V 60 Hz 2P Rated current : 17.3/8.67 A Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 11.3 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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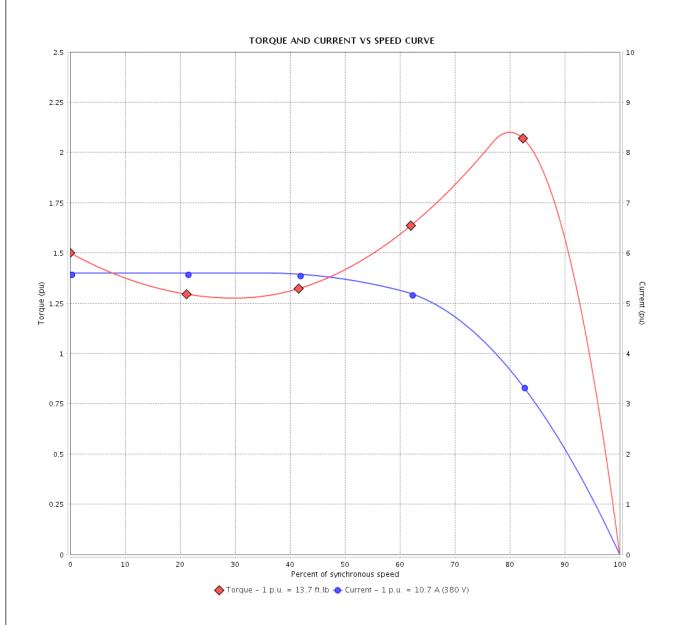
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13163406

Catalog #: 00736OT3E184TC-SG



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 21.4/10.7 A	Moment of inertia (J)	: 0.1818 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 13.7 ft.lb	Insulation class	:F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2865 rpm	Design	: B
Locked rotor time	: 0s (cold) 0s (hot)		

LOCKCU TOTOL TITLE	. 0	3 (cold) 03 (1101)			
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TORQUE AND CURRENT VS SPEED CURVE

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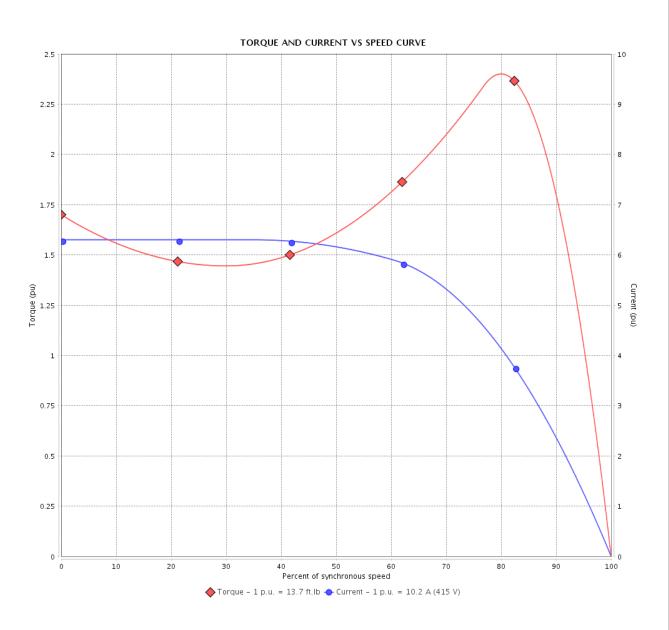


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 13163406

Catalog #: 00736OT3E184TC-SG



Performance : 220/415 V 50 Hz 2P Rated current : 19.2/10.2 A Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 13.7 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2880 rpm Design : B Locked rotor time

: 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

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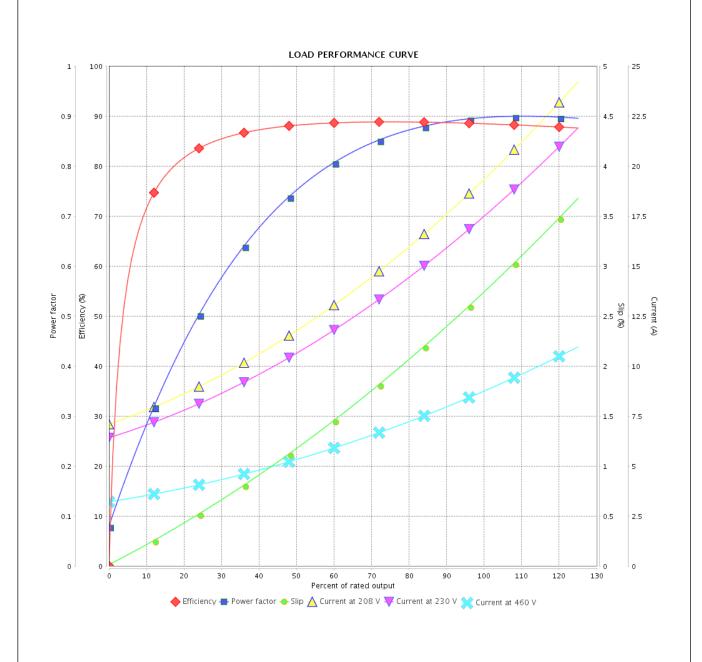


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13163406

Phase

Catalog #: 00736OT3E184TC-SG



Performance	::	230/460 V 60 Hz 2P				
Rated current	:	17.3/8.67 A	Moment o	f inertia (J)	: 0.1818 sq.ft.	lb
LRC	: '	7.4	Duty cycle	:	: Cont.(S1)	
Rated torque	:	11.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	180 %	Service fa	ctor	: 1.15	
Breakdown torque	::	290 %	Temperati	Temperature rise		
Rated speed		3500 rpm	Design		: B	
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Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

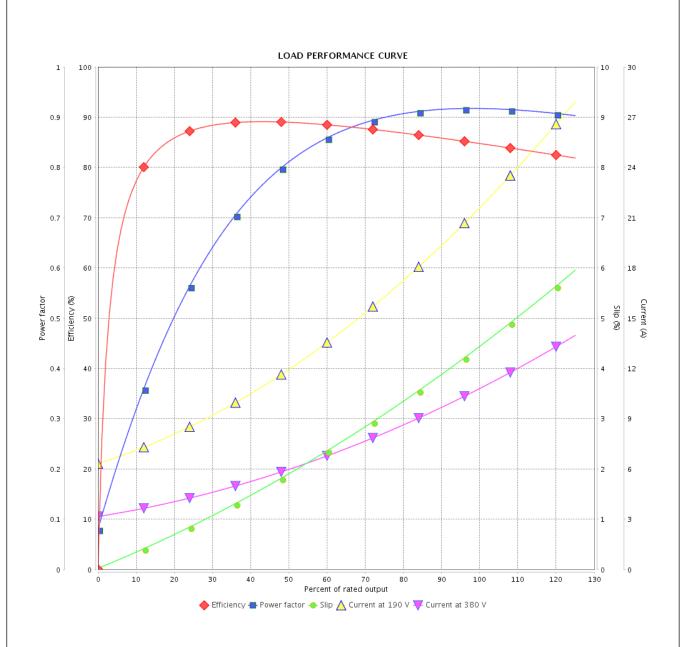
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Performance : 190/380 V 50 Hz 2P : 21.4/10.7 A Rated current Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.6 Insulation class Rated torque : 13.7 ft.lb : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2865 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



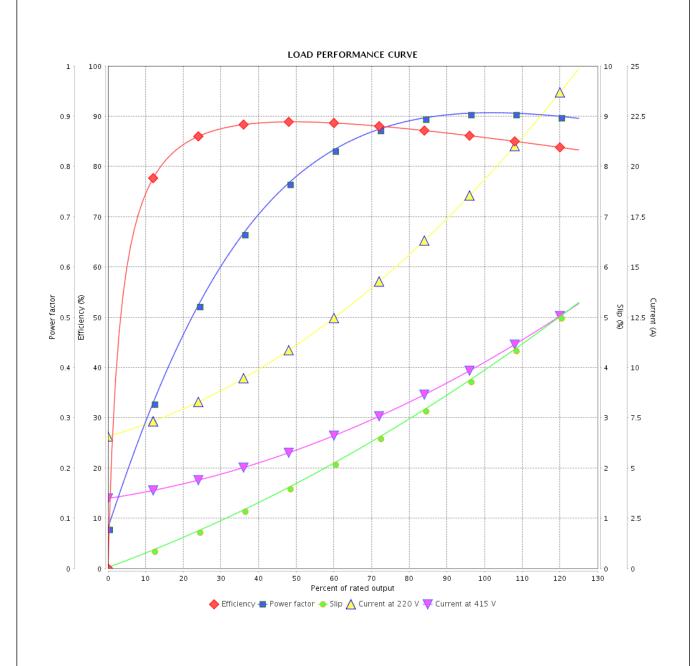
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736OT3E184TC-SG

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Performance : 220/415 V 50 Hz 2P						
Rated current	Rated current : 19.2/10.2 A		Moment of	Moment of inertia (J)		.lb
LRC	: 6	.3	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	3.7 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	70 %	Service fa	octor	: 1.00	
		40 %	Temperat	Temperature rise		
Rated speed	: 2	880 rpm	Design		: B	
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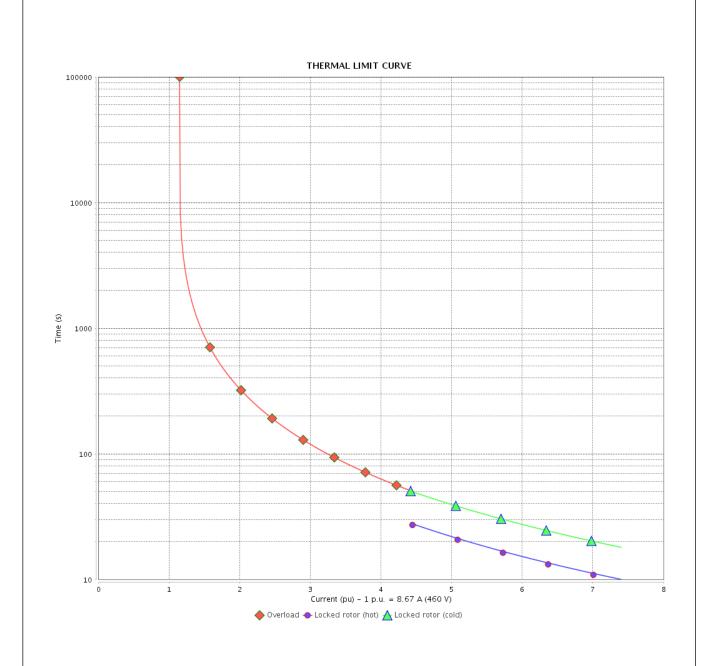


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13163406	
	Р	hase		Catalog # :	00736OT3E ²	184TC-SG
Performance	• 2:	30/460 V 60 Hz 2P				
Rated current		7.3/8.67 A	Moment o	f inertia (J)	: 0.1818 sq.ft.l	b
LRC	: 7.	4	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		1.3 ft.lb 30 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 29	90 %	Temperatu		: 80 K	
Rated speed	: 35	500 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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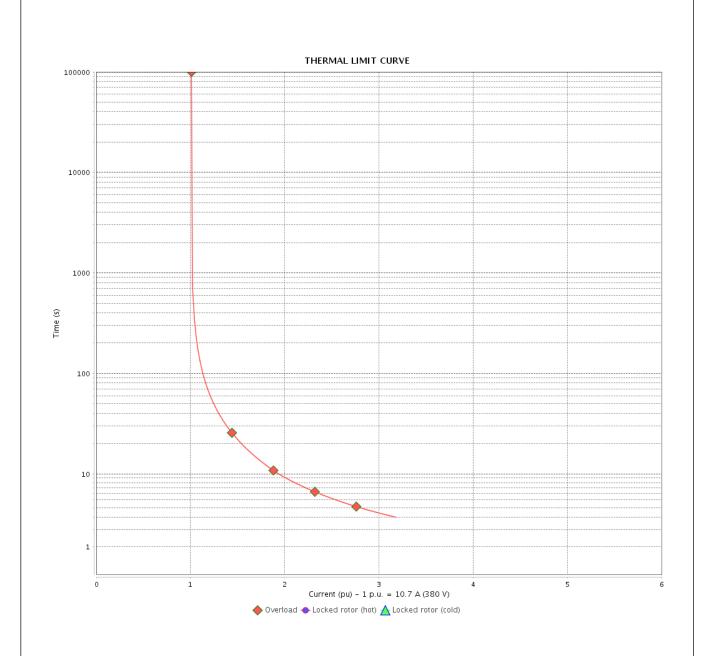


Customer	:					
Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	13163406 00736OT3E	184TC-SG
Performance Rated current	: 2	190/380 V 50 Hz 2P 21.4/10.7 A	Moment o	f inertia (J)	: 0.1818 sq.ft.	Ib
LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: t que : 7 ue : 2	5.6 13.7 ft.lb 150 % 210 % 2865 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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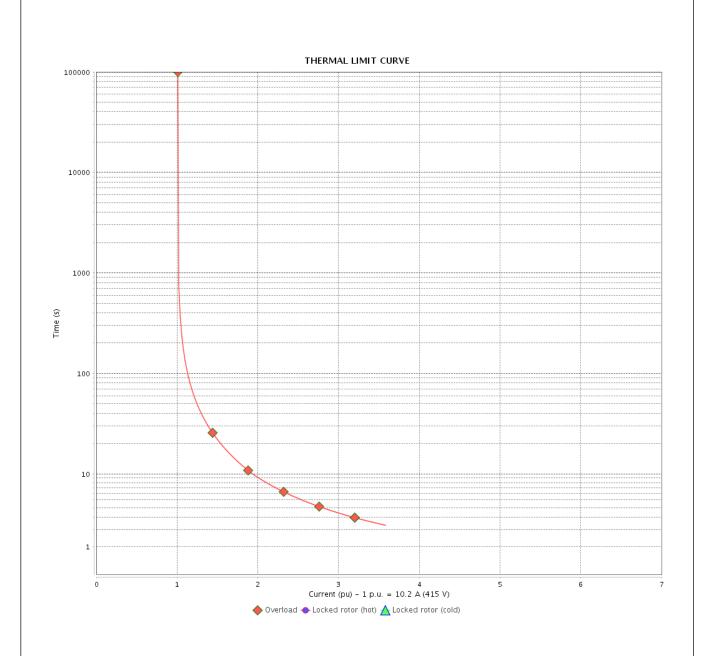


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13163406	
	P	hase		Catalog # :	00736OT3E	184TC-SG
Performance	: 22	20/415 V 50 Hz 2P				
Rated current		9.2/10.2 A	Moment o	f inertia (J)	: 0.1818 sq.ft.l	b
LRC Rated torque	: 6. : 13	.3 3.7 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	e : 17	70 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		40 % 880 rpm	Temperatu Design	ıre rise	: 105 K : B	
Heating constant		•				
Cooling constant						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

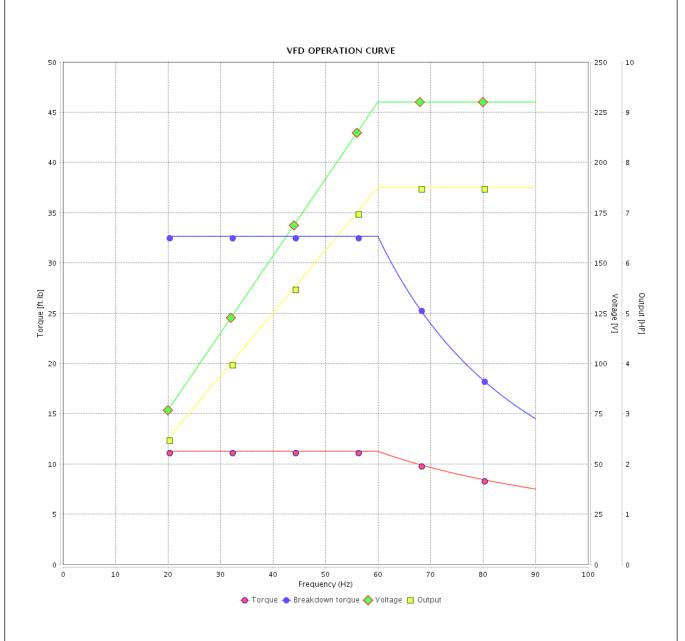
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Phase

Product code: 13163406

Catalog #: 00736OT3E184TC-SG

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Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.3/8.67 A : 7.4 : 11.3 ft.lb : 180 % : 290 % : 3500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1818 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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Date

