DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22

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

Insulation class : F 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. weight³ : 893 lb

Protection degree	Э	: IP55		Momer	nt of inertia (J)	: 2	1.8 sq.ft.lb	
Design		: B						
Output [HP]		40	30	30	30	40	40	40
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		93.0/46.5	42.0	40.2	39.6	56.5	53.9	52.2
L. R. Amperes [A]		595/298	269	289	305	277	296	313
LRC [A]		6.4x(Code	6.4x(Code	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]		34.0/17.0	16.8	17.9	18.7	16.8	17.9	18.7
Rated speed [RPM	1]	1185	985	985	990	980	980	985
Slip [%]		1.25	1.50	1.50	1.00	2.00	2.00	1.50
Rated torque [ft.lb]		177	160	160	159	214	214	213
Locked rotor torqu	e [%]	200	210	240	270	160	180	200
Breakdown torque	[%]	240	250	280	310	190	210	229
Service factor		1.25	1.00	1.00	1.00	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		37s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		21s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	93.6	92.4	92.3	91.9	93.0	93.0	93.0
Efficiency (%)	75%	93.6	92.8	93.1	93.0	92.4	93.0	93.0
	100%	94.1	92.5	93.0	93.2	91.7	92.4	93.0
	25%							
Dower Factor	50%	0.73	0.68	0.66	0.63	0.78	0.76	0.73
Power Factor	75%	0.82	0.80	0.79	0.76	0.85	0.84	0.82
	100%	0.86	0.86	0.85	0.83	0.88	0.87	0.86

Drive end Non drive end Foundation loads

Bearing type : 6314 C3 6314 C3 | Max. traction : 1232 lb Sealing : WSeal WSeal Max. compression : 2125 lb Lubrication interval : 17000 h

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

Notes

USABLE @208V 103A SF 1.10 SFA 113A

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



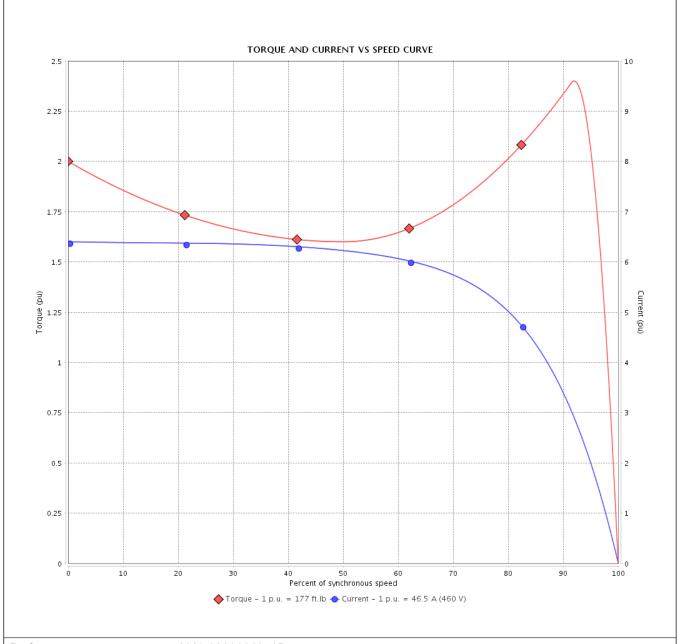
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



: 230/460 V 60 Hz 6P Performance Rated current : 93.0/46.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 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: 11165470 Catalog #: 04012ET3E364T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 160 ft.lb ◆ Current - 1 p.u. = 42.0 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 42.0 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



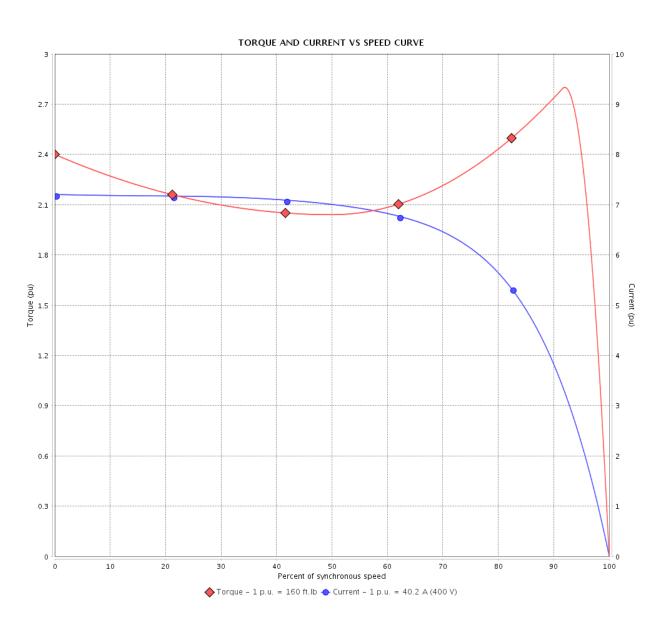
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



: 400 V 50 Hz 6P IE3 Performance Rated current : 40.2 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11165470 Catalog #: 04012ET3E364T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 159 ft.lb ◆ Current - 1 p.u. = 39.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 39.6 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 159 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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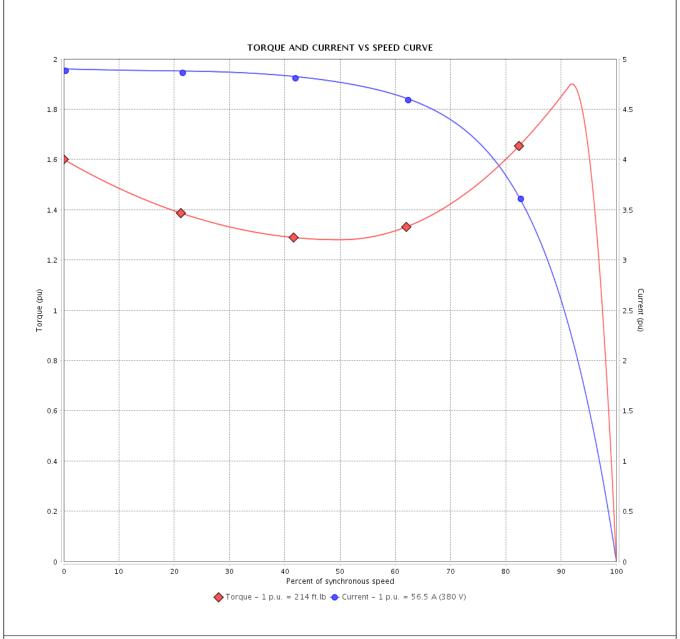
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance : 380 V 50 Hz 6P IE2 Rated current : 56.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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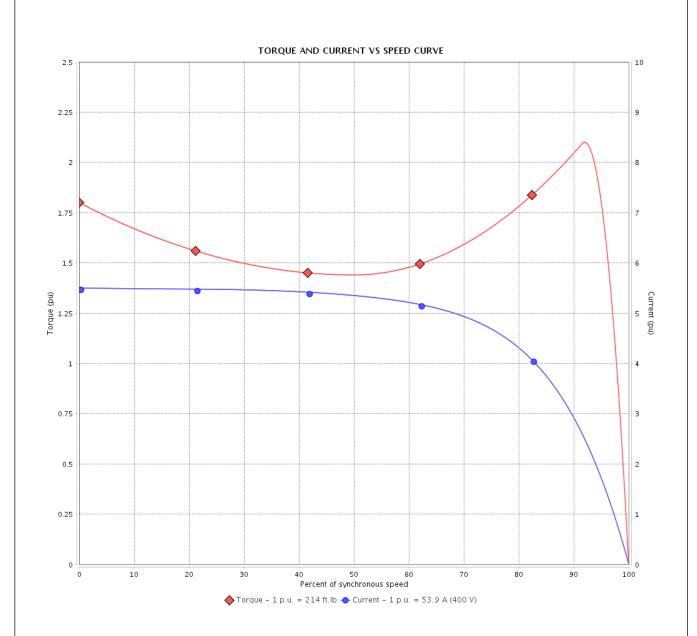
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04012ET3E364T-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 11165470

Catalog #:



Performance : 400 V 50 Hz 6P IE2 Rated current : 53.9 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K : B Rated speed : 980 rpm Design Locked rotor time : 32s (cold) 18s (hot)

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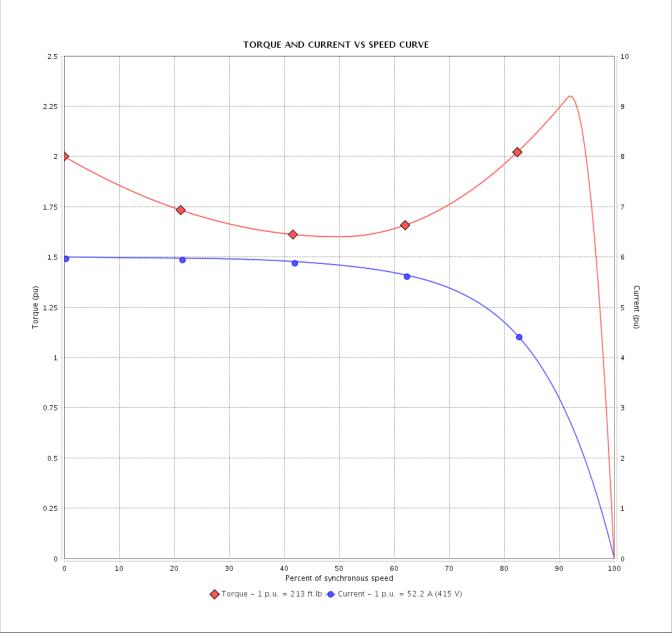
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance : 415 V 50 Hz 6P IE3 Rated current : 52.2 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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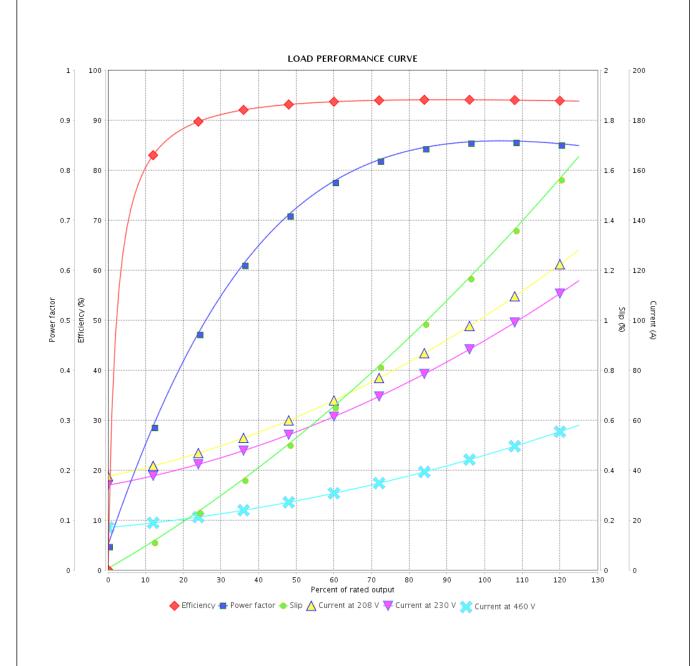


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance	: 2	30/460 V 60 Hz 6P				
Locked rotor torque		3.0/46.5 A .4 77 ft.lb 00 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor		
Rated speed		40 % 185 rpm	Temperature rise Design		: 80 K : B	
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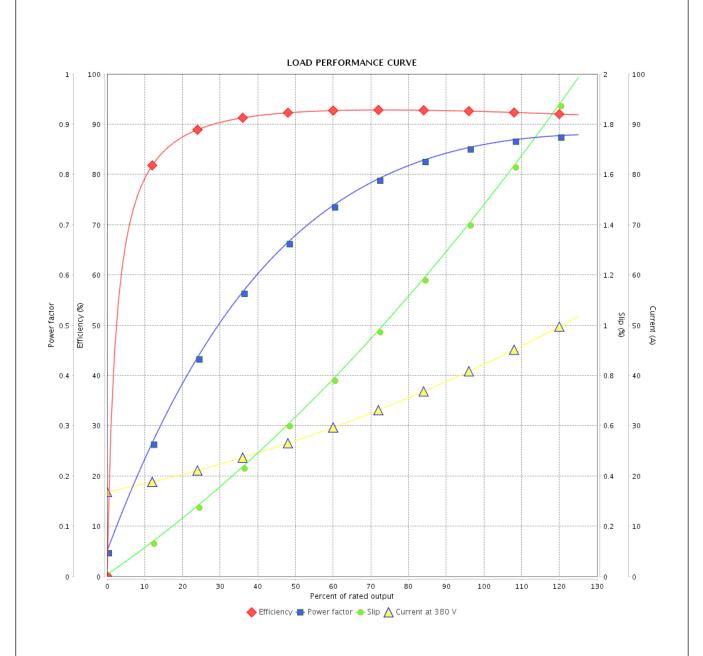
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ET3E364T-W22

11165470

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 42.0 A : 6.4 : 160 ft.lb : 210 % : 250 %	Duty cycle Insulation Service fa Temperate	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Rev.	: 985 rpm Changes Summary	Design	Performed	: B Checked	Date
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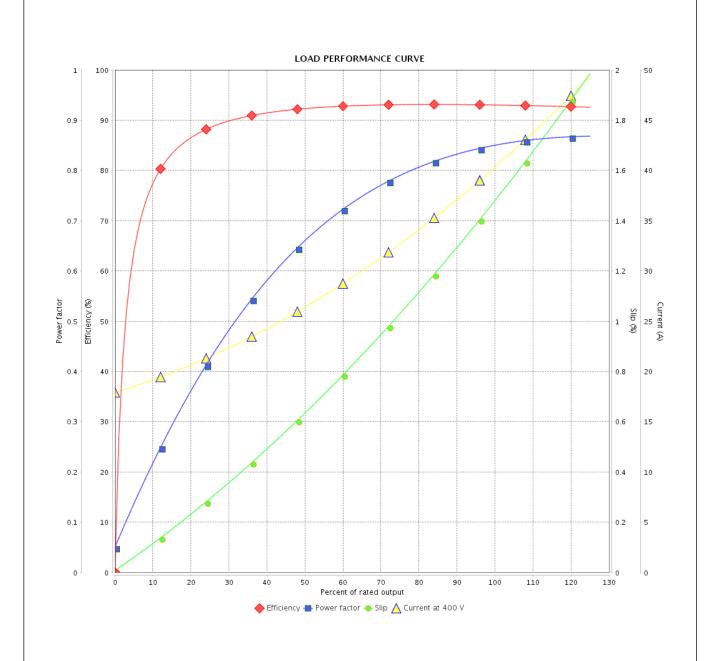


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22



Performance	: •	: 400 V 50 Hz 6P IE3				
Rated current	: •	40.2 A	Moment o	Moment of inertia (J)		
LRC		7.2	Duty cycle	}	: Cont.(S1)	
Rated torque		160 ft.lb	Insulation	class	: F	
Locked rotor torque		240 %	Service fa	ctor	: 1.00	
Breakdown torque	::	280 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
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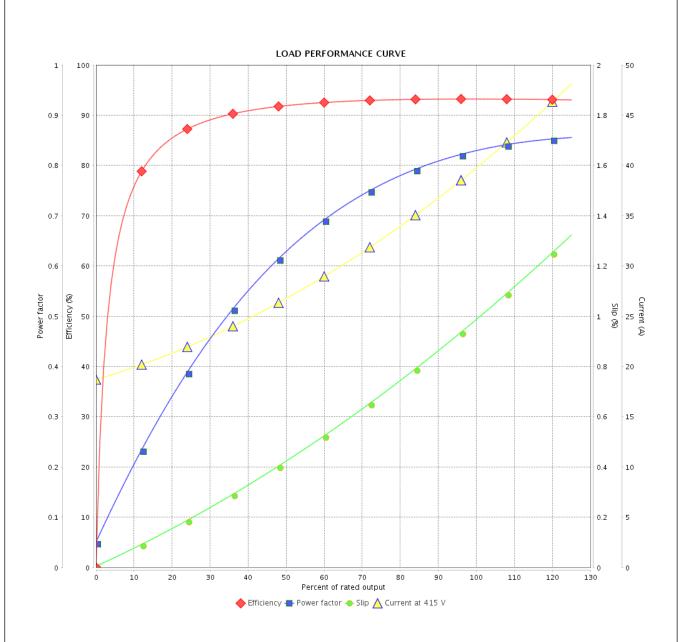
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 39.6 A	Moment of inertia (J)		: 21.8 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 159 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 990 rpm	Design		: B	
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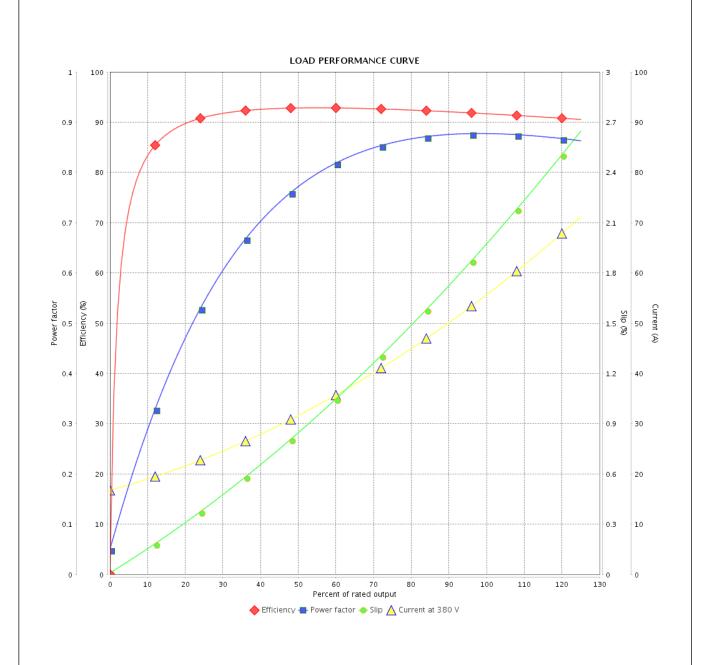


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22



Performance	: 380 V 50 Hz 6P IE2					
Rated current : 56		6.5 A	Moment o	Moment of inertia (J)		
LRC	: 4	9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	60 %	Service fa	ctor	: 1.00	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 9	980 rpm	Design		: B	
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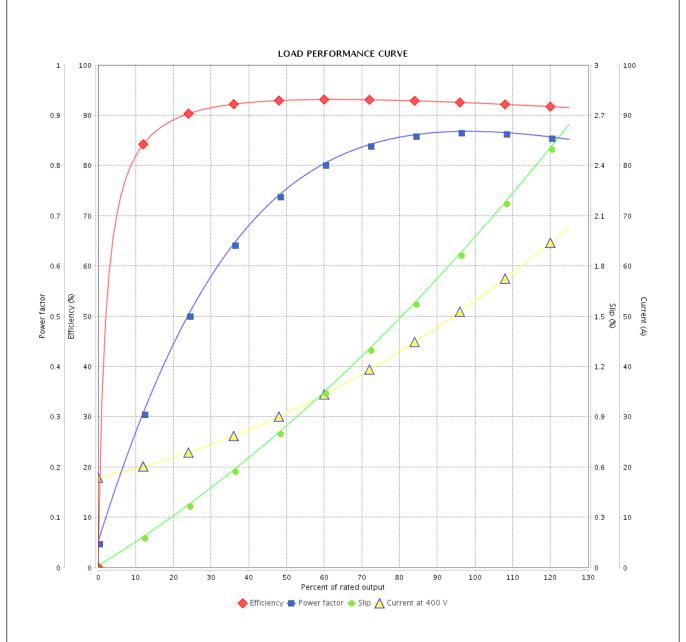
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance	: 400 V 50 Hz 6P IE2				
Rated current	: 53.9 A	Moment of	inertia (J)	: 21.8 sq.ft.lb	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class		: F	
Locked rotor torque : 180 %		Service factor		: 1.00	
Breakdown torque	: 210 %	Temperature rise		: 80 K	
Rated speed	: 980 rpm	Design		: B	
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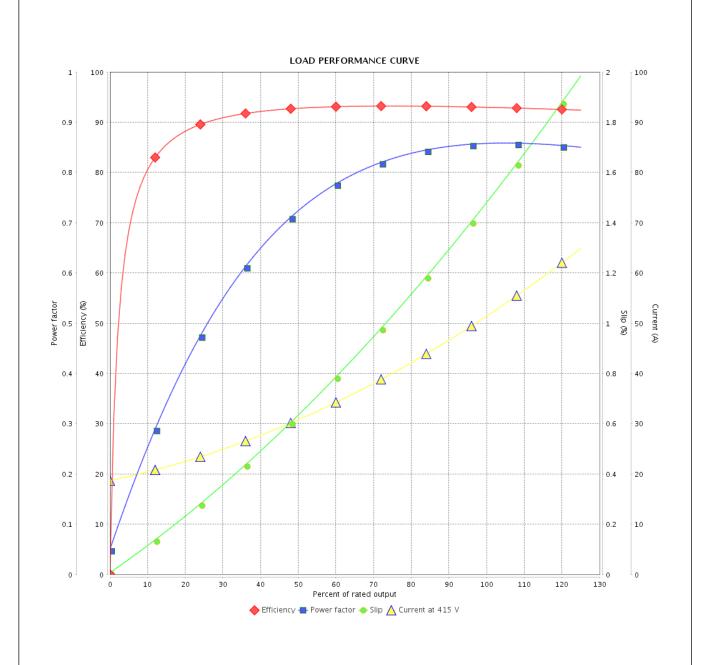


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 5	2.2 A Moment of inertia (f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	00 %	Service factor		: 1.00	
Breakdown torque	: 2	29 %	6 Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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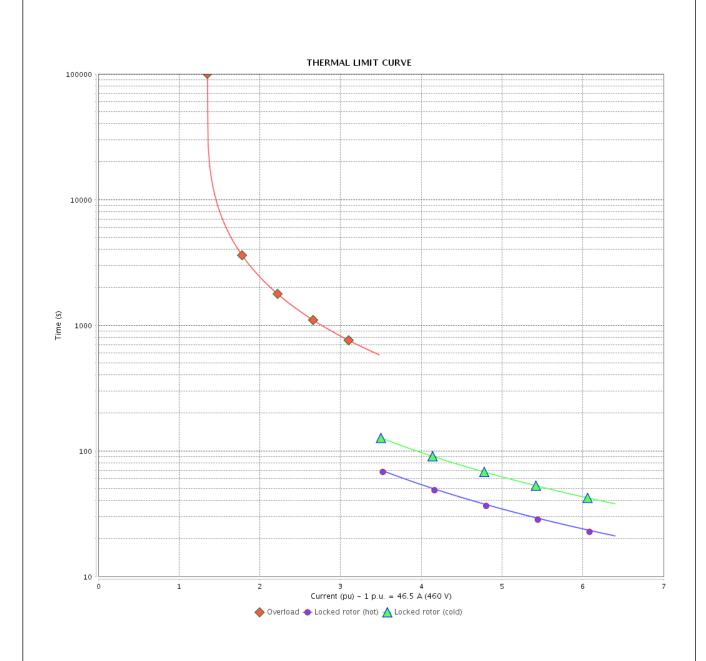


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11165470	
		i nasc		Catalog # :	04012ET3E36	64T-W22
Performance		230/460 V 60 Hz 6P				
Rated current		93.0/46.5 A	Moment o	of inertia (J)	: 21.8 sq.ft.lb	
LRC	:	6.4	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torque		177 ft.lb 200 %	Insulation Service fa		: F : 1.25	
Breakdown torque		240 %	Temperat		: 80 K	
Rated speed		1185 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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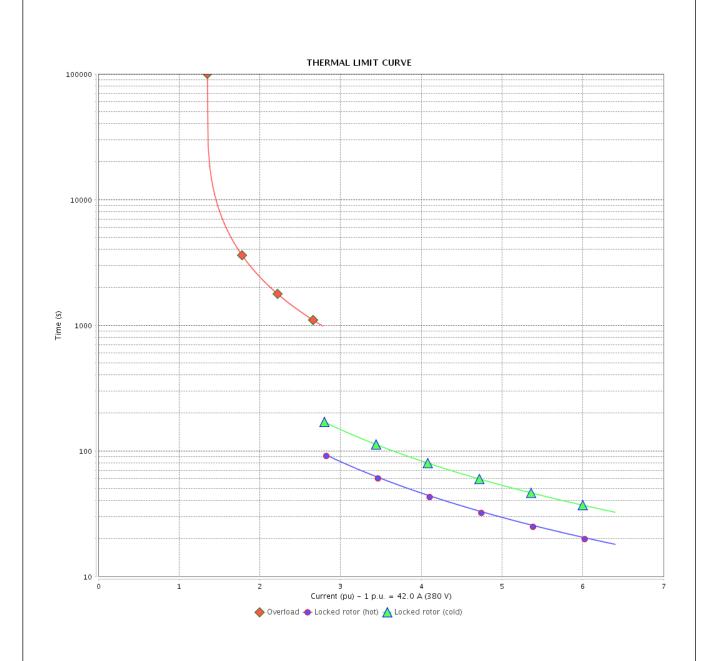


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Product line		NEMA Premium Efficiency hase		Product code :	11165470 04012ET3E36	64T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 42 : 6. : 16 ue : 2' e : 25 : 98	80 V 50 Hz 6P IE3 2.0 A 4 60 ft.lb 10 % 50 % 85 rpm Changes Summary	Moment or Duty cycle Insulation Service far Temperatu Design	class	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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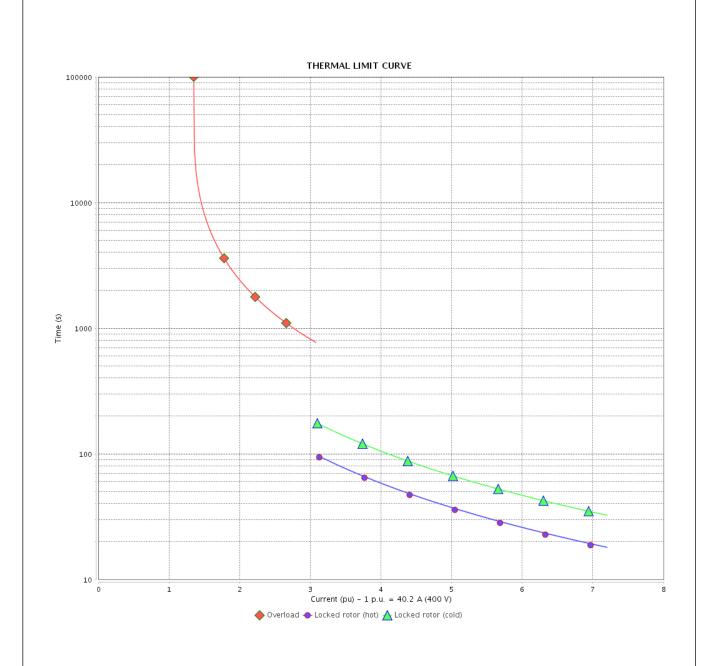


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Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11165470	
		(Catalog # :	04012ET3E3	64T-W22
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 40.2 A : 7.2 : 160 ft.lb : 240 % : 280 % : 985 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 21.8 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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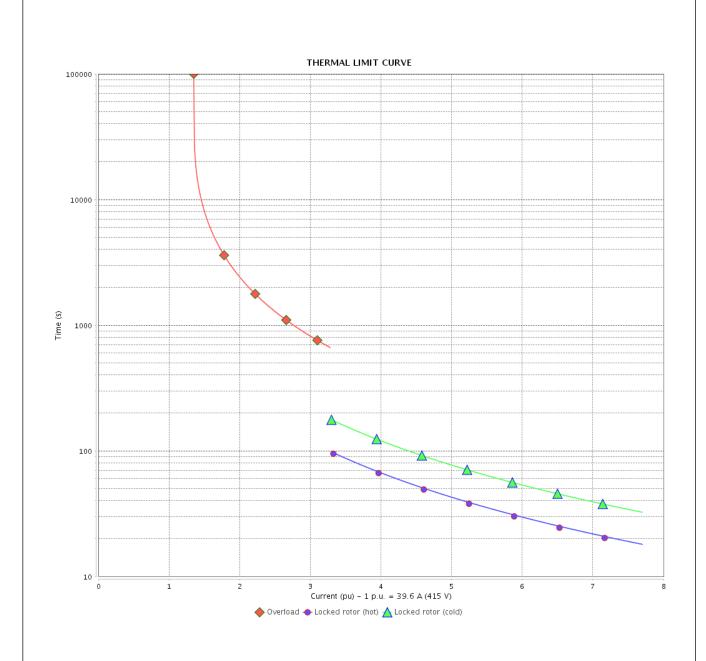


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11165470	
	P	hase		Catalog # :	04012ET3E36	64T-W22
Performance		15 V 50 Hz 6P IE3	Moment	finartia (I)	. 21 0 og filb	
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		59 ft.lb 70 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	e : 3°	10 %	Temperatu		: 80 K	
Rated speed	: 99	90 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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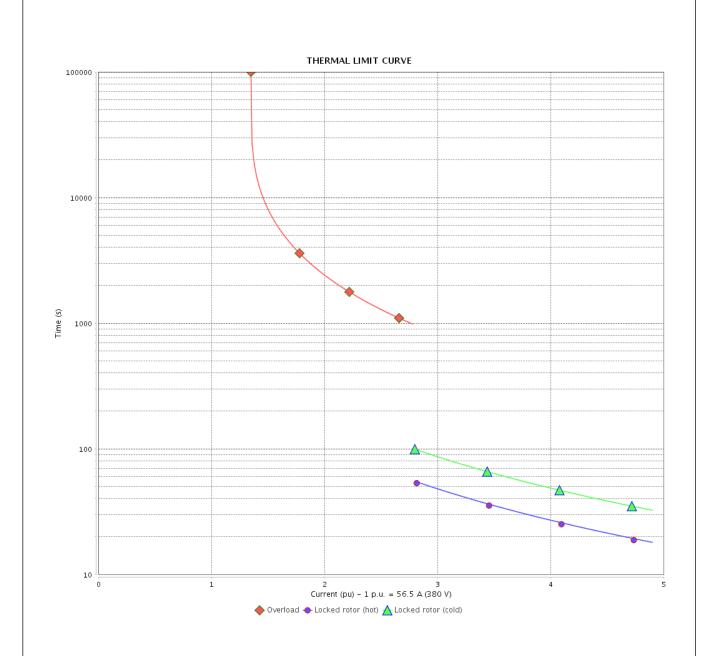


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11165470	
		1 11000		Catalog # :	04012ET3E36	4T-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current LRC		: 56.5 A : 4.9	Moment of Duty cycle	of inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		: 214 ft.lb	Insulation	class	: F	
Locked rotor torq		: 160 % : 190 %	Service fa		: 1.00 : 80 K	
Breakdown torque Rated speed		: 190 % : 980 rpm	Temperate Design	ure rise	: 80 K	
Heating constant			-			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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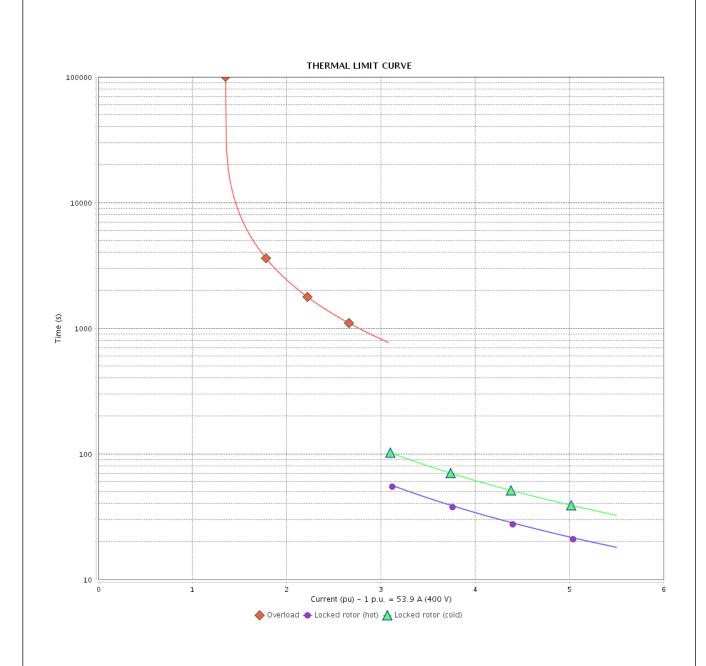


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11165470	
	P	hase	,	Catalog # :	04012ET3E36	64T-W22
Performance	: 40	00 V 50 Hz 6P IE2				
Rated current		3.9 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC Rated torque	: 5. : 2	5 14 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ue : 18	30 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		10 % 30 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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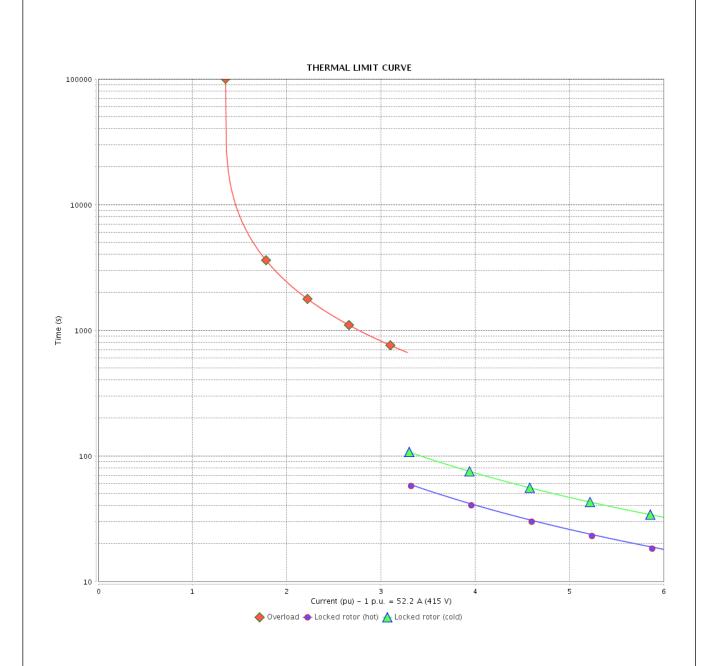


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	11165470 04012ET3E3	64T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 6P IE3 : 52.2 A : 6.0 : 213 ft.lb : 200 % : 229 % : 985 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class actor	: 21.8 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



Customer :

Date

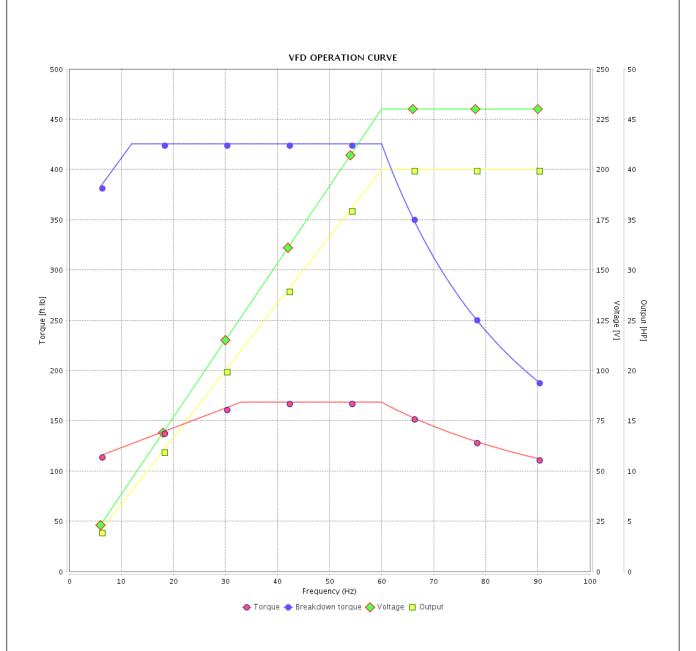
12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165470

Catalog #: 04012ET3E364T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 93.0/46.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage



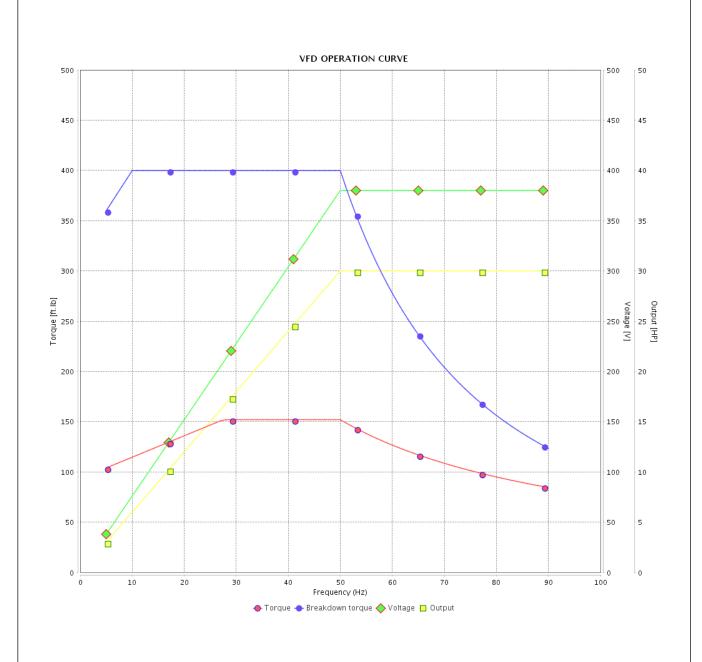
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.0 A : 6.4 : 160 ft.lb : 210 % : 250 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

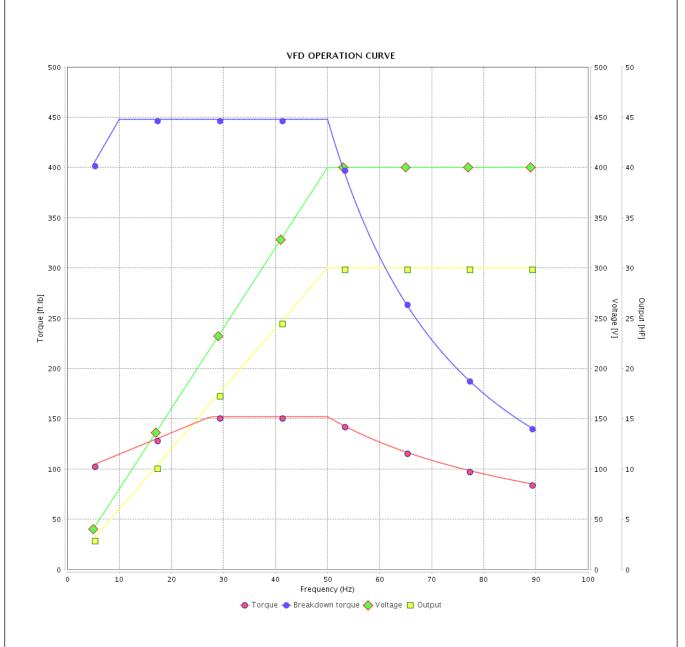
Product code: 11165470

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Performance		: 400 V 50 Hz	6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 40.2 A : 7.2 : 160 ft.lb : 240 % : 280 % : 985 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

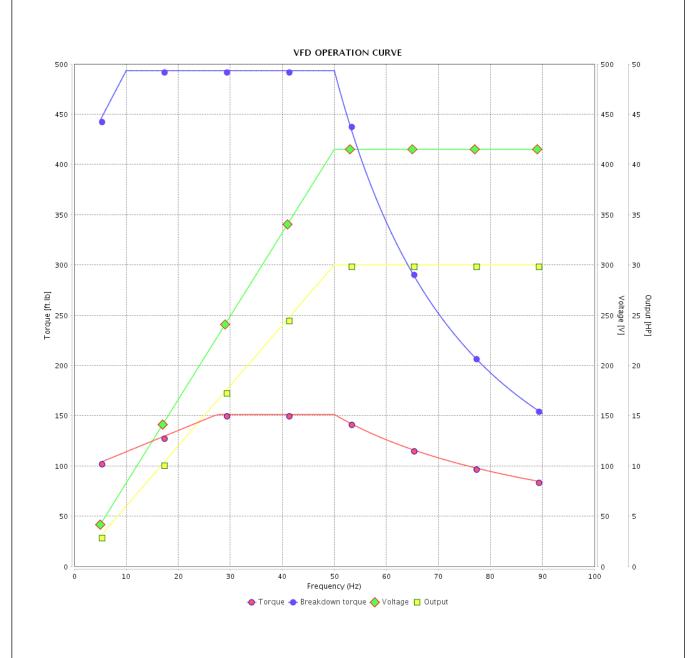


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165470

Phase

Catalog #: 04012ET3E364T-W22



D (45.750.11.00.150	·			
Performance		15 V 50 Hz 6P IE3	,			
Rated current	: 39	9.6 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 7.	7	Duty cycle	;	: Cont.(S1)	
Rated torque		59 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 27	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3) % Temperature rise		ıre rise	: 80 K	
Rated speed	: 99	90 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

Phase

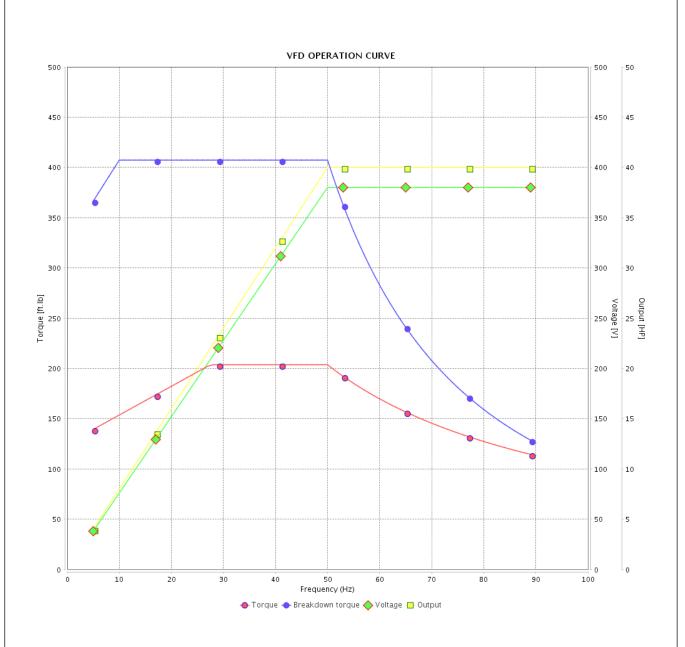
Product code: 11165470

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.5 A : 4.9 : 214 ft.lb : 160 % : 190 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 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



Customer

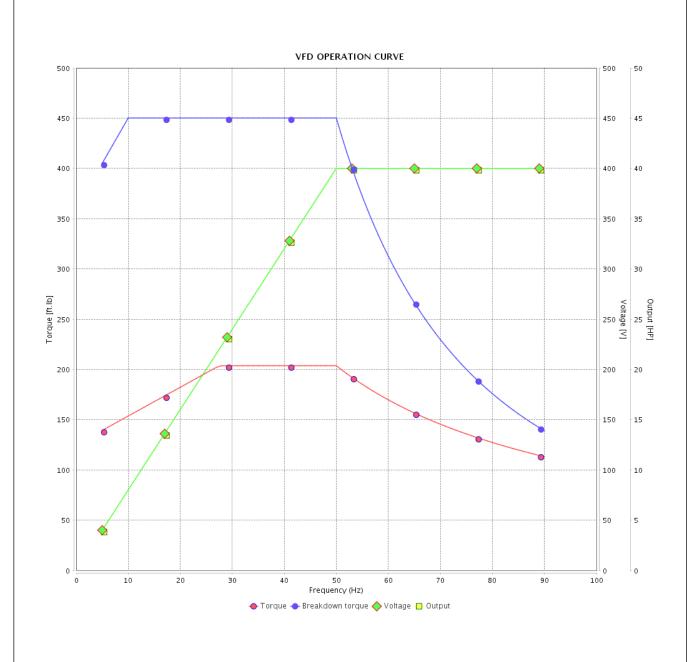
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ET3E364T-W22

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.9 A : 5.5 : 214 ft.lb : 180 % : 210 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Pr

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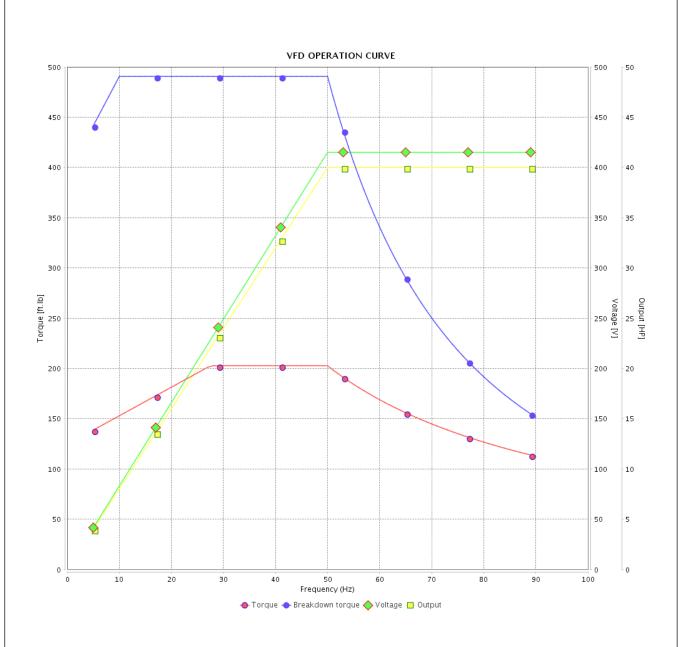
Product code: 11165470

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.2 A : 6.0 : 213 ft.lb : 200 % : 229 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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