DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22

Frame : 324/6T 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 : 573 lb

Protection degree	е	: IP55		Momer	nt of inertia (J)	: 9	.16 sq.ft.lb	
Design		: B						
Output [HP]		40	30	30	30	40	40	40
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		94.2/47.1	42.8	41.6	41.1	57.4	54.1	52.8
L. R. Amperes [A]		575/287	282	304	316	287	303	317
LRC [A]		6.1x(Code	6.6x(Code	7.3x(Code H)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]]	34.0/17.0	16.8	17.3	18.6	16.8	17.3	18.6
Rated speed [RPN	/ 1]	1770	1475	1480	1480	1460	1465	1470
Slip [%]		1.67	1.67	1.33	1.33	2.67	2.33	2.00
Rated torque [ft.lb]		119	107	106	106	144	143	143
Locked rotor torqu	e [%]	229	240	270	280	170	190	210
Breakdown torque	[%]	240	260	290	310	180	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	105 K	105 K	80 K
Locked rotor time		36s (cold)	25s (cold)	27s (cold)	27s (cold)	25s (cold)	27s (cold)	27s (cold)
		20s (hot)	14s (hot)	15s (hot)	15s (hot)	14s (hot)	15s (hot)	15s (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	92.9	92.4	91.7	93.6	93.6	93.0
Efficiency (70)	75%	94.1	93.1	93.0	92.6	93.0	93.0	93.0
	100%	94.1	93.0	93.2	93.1	92.4	93.0	93.0
	25%							
Power Factor	50%	0.72	0.68	0.64	0.62	0.78	0.74	0.72
FUWEI FACIOI	75%	0.80	0.78	0.75	0.73	0.84	0.82	0.80
	100%	0.85	0.84	0.82	0.80	0.86	0.86	0.85

Drive end Non drive end Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 975 lb Sealing : V'Ring V'Ring Max. compression : 1548 lb

Lubrication interval:20000 h20000 hLubricant amount:21 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 104A SF 1.15 SFA 120A

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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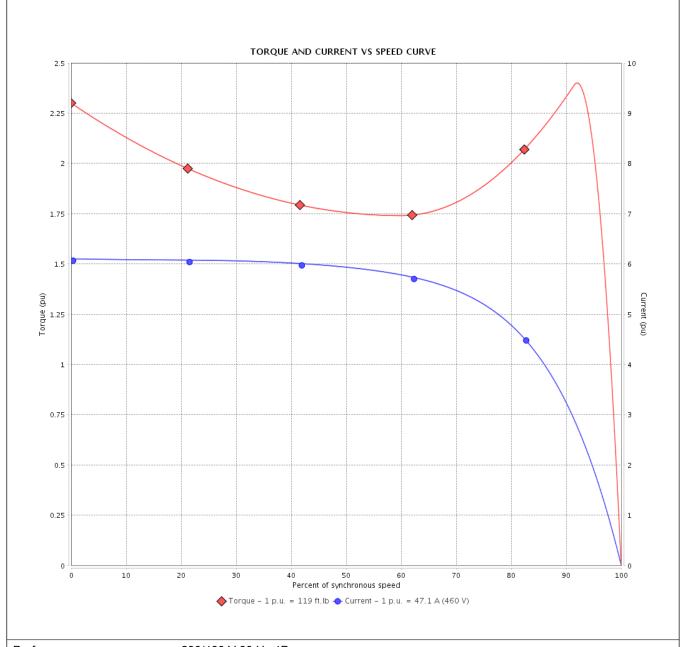
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 94.2/47.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 119 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25

Breakdown torque : 240 % Temperature rise : 80 K
Rated speed : 1770 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11723922 Catalog #: 04018ET3E324T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 42.8 A (380 V) : 380 V 50 Hz 4P IE3 Performance Rated current : 42.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Rated torque : 107 ft.lb Insulation class : F Locked rotor torque : 240 % : 1.00 Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 1475 rpm Design

Locked rotor time	e : 25	5s (cold) 14s (hot)			
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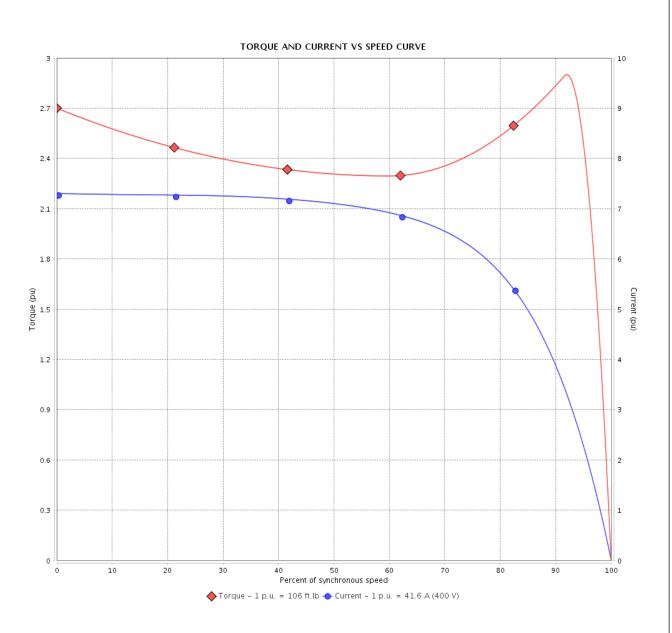
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 41.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 106 ft.lb : F Service factor Locked rotor torque : 270 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11723922 Catalog #: 04018ET3E324T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 106 ft.lb ◆ Current - 1 p.u. = 41.1 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 41.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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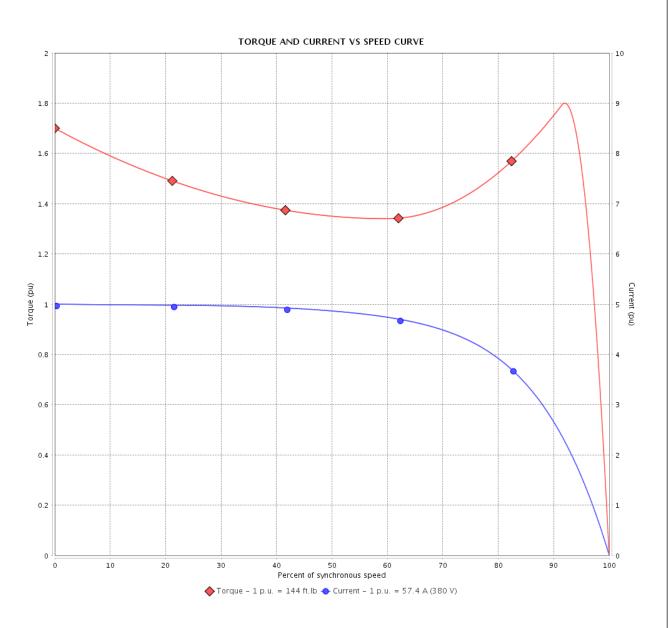
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 57.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 144 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11723922 Catalog #: 04018ET3E324T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 143 ft.lb ◆ Current - 1 p.u. = 54.1 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 54.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F : 190 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 1465 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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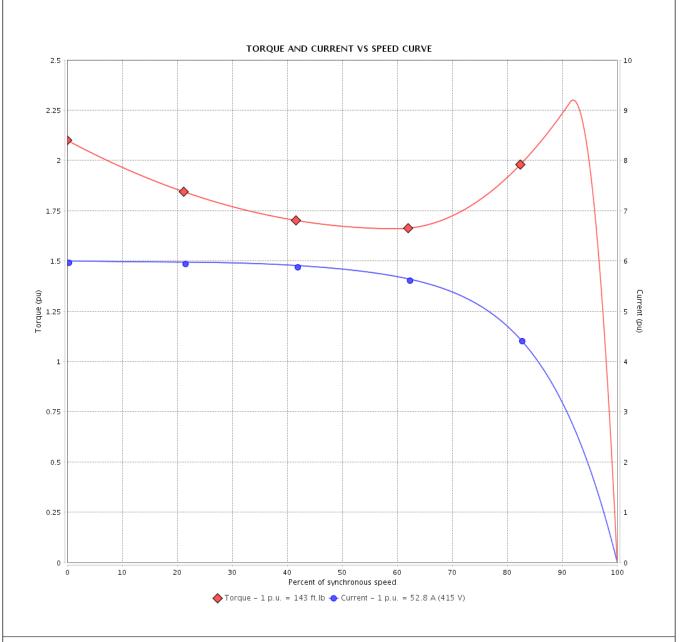
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 52.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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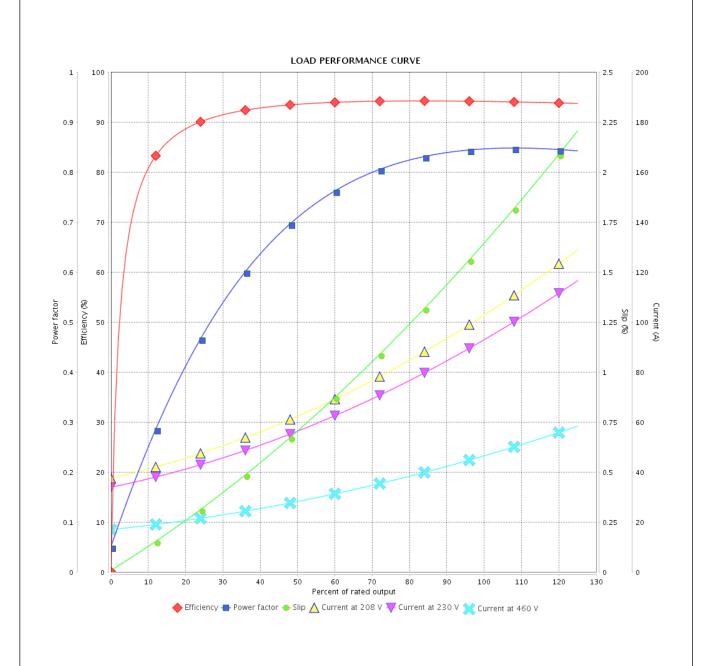


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance	: 2	: 230/460 V 60 Hz 4P					
Rated current	Rated current : 94.2/47.1 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	RC : 6.1		Duty cycle)	: Cont.(S1)		
Rated torque : 11		19 ft.lb	Insulation	class	: F		
Locked rotor torque ::		29 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	40 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	770 rpm	Design		: B		
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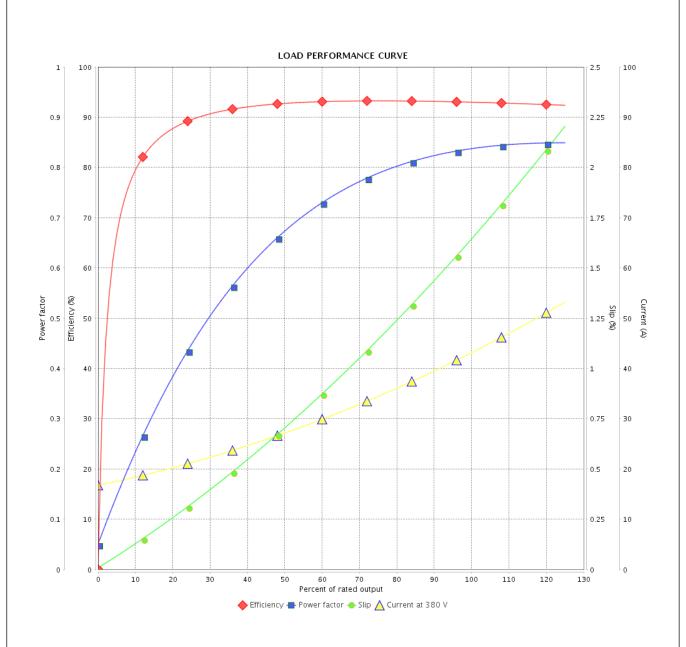
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Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 42.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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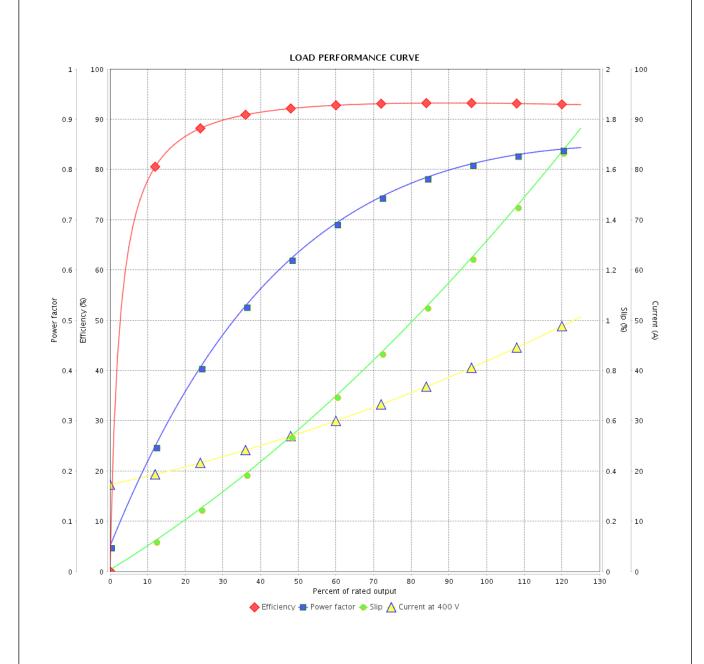


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Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance	: 4	100 V 50 Hz 4P IE3					
Rated current	ated current : 41.6 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC : 7.3		7.3	Duty cycle	}	: Cont.(S1)		
Rated torque : 10		106 ft.lb	Insulation	class	: F		
Locked rotor torque :		270 %	Service fa	ctor	: 1.00		
Breakdown torque		290 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B		
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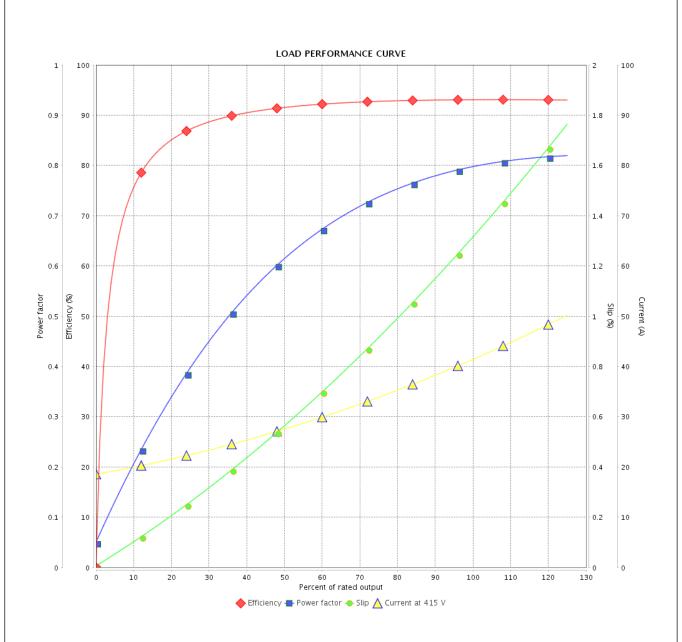
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D (445.7750.11.40.150				
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque	: 41.1 A : 7.7 : 106 ft.lb : 280 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 310 % : 1480 rpm	Temperature rise Design		: 80 K : B	
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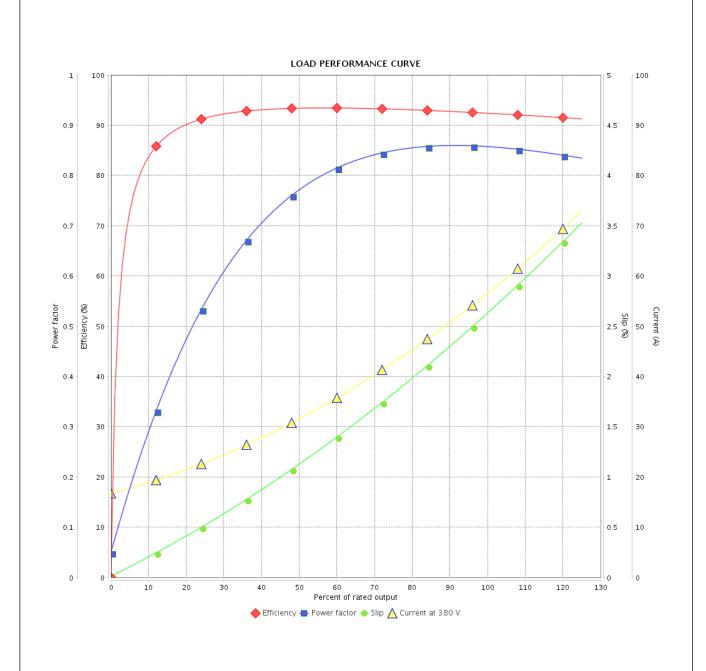


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Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance	: 380 V 50 Hz 4P IE2					
Rated current : 5		7.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	_RC : 5.0		Duty cycle	;	: Cont.(S1)	
Rated torque : 144 ft		44 ft.lb	Insulation	class	: F	
Locked rotor torque		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	80 %	Temperati	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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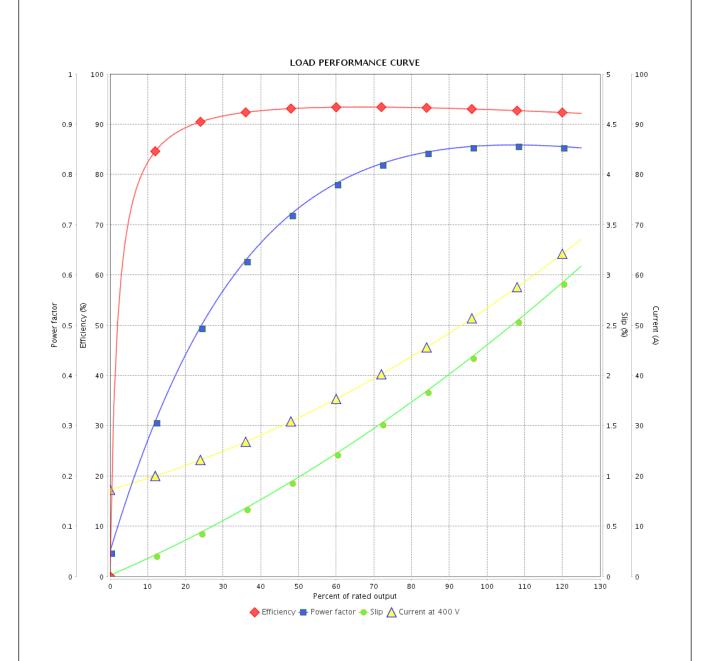


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance	: 4	00 V 50 Hz 4P IE2	2			
Rated current	: 5	i4.1 A	Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC	: 5	5.6	Duty cycle		: Cont.(S1)	
Rated torque	: 1	43 ft.lb	Insulation class		: F	
Locked rotor torq	ue : 1	90 %	Service fa	Service factor Temperature rise		
Breakdown torqu		210 %	Temperati			
Rated speed	: 1	465 rpm	Design		: B	
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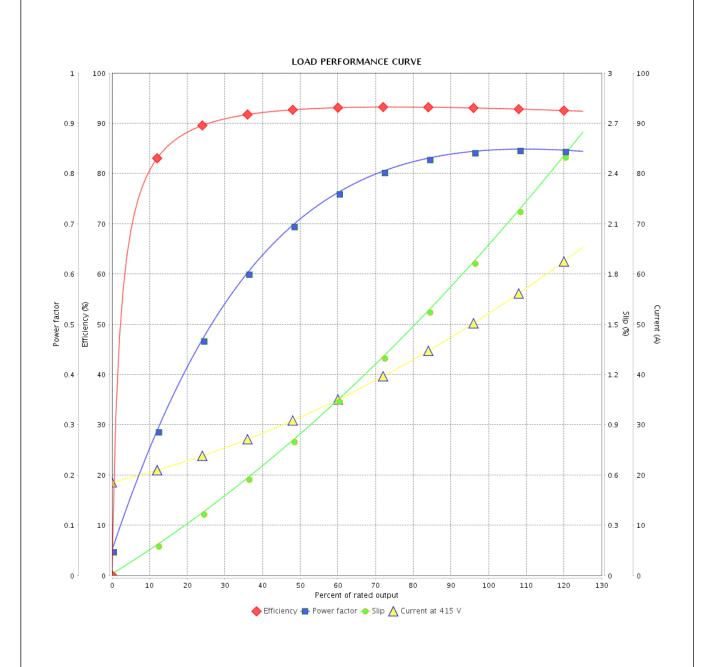


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	52.8 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	6.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	143 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	210 %	Service factor		: 1.00	
Breakdown torque	e :	229 %	6 Temperature rise		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
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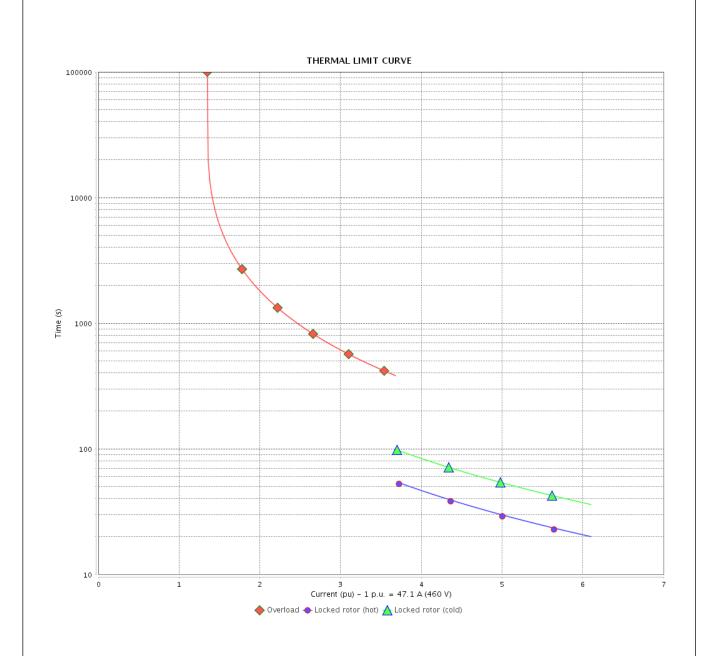


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11723922	
	Phase		Catalog # :	04018ET3E3	24T-W22
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 94.2/47.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6.1 : 119 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 240 % : 1770 rpm	Temperatu Design	ure rise	: 80 K : B	
	· · · · · · · · · · · · · · · · · · ·				
Heating constant Cooling constant					
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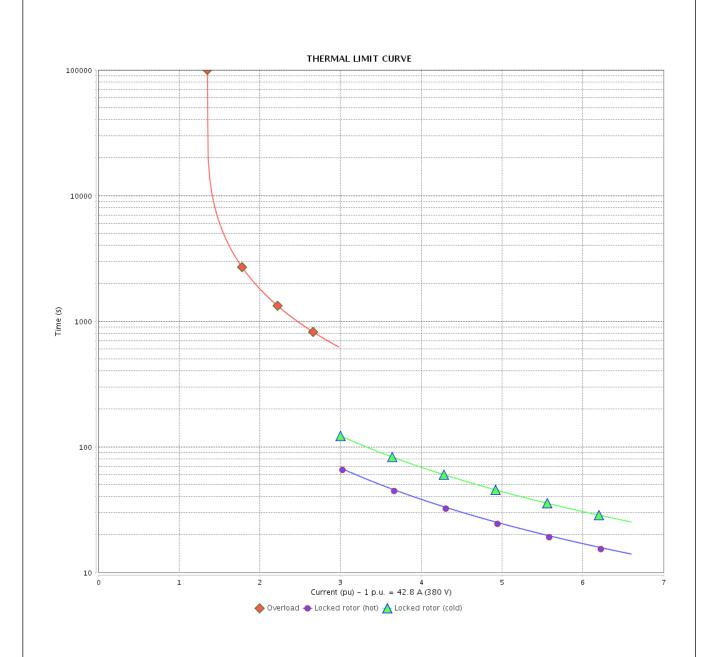


Customer	:				
Product line	: NEMA Premium Efficier	cy Three-	Product code :	11723922	
	Phase		Catalog # :	04018ET3E3	24T-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 42.8 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6.6 : 107 ft.lb	Duty cycle Insulation	e ı class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1475 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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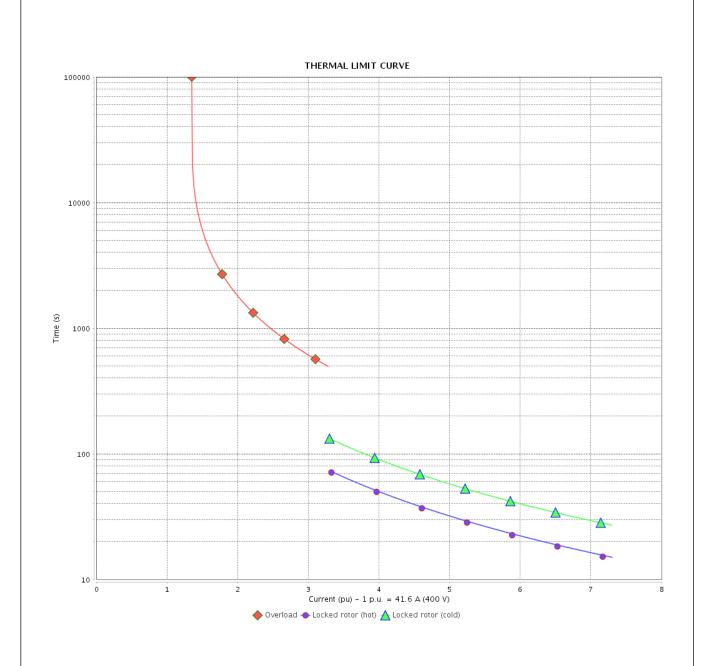


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Product line		: NEMA Premium Efficiency Phase		Product code :	11723922	
				Catalog # :	04018ET3E32	24T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 41.6 A	Moment	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		: 7.3 : 106 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 270 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 290 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
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Heating constant Cooling constant						
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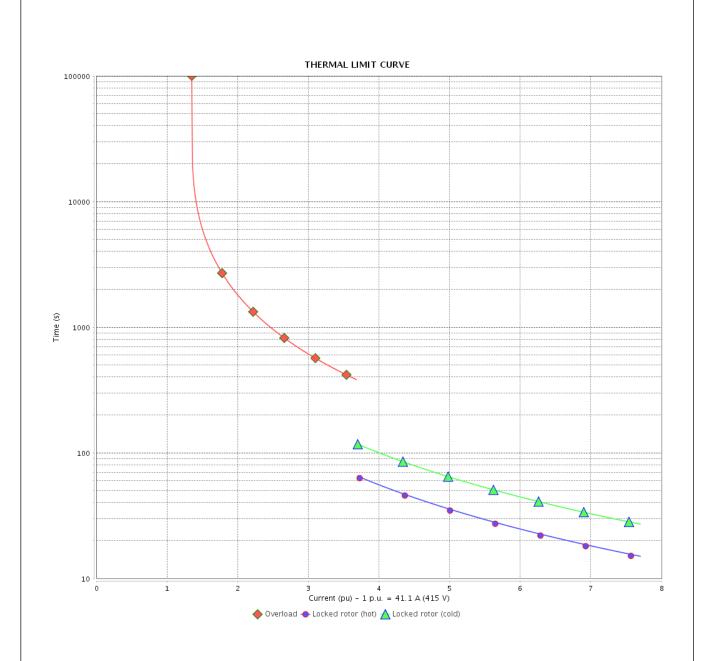


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11723922	
				Catalog # :	04018ET3E32	24T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 41.1 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 7.7 : 106 ft.lb	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		: 106 π.ib : 280 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		Do-t	Ob l !	D-4-
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Three Phase Induction Motor - Squirrel Cage



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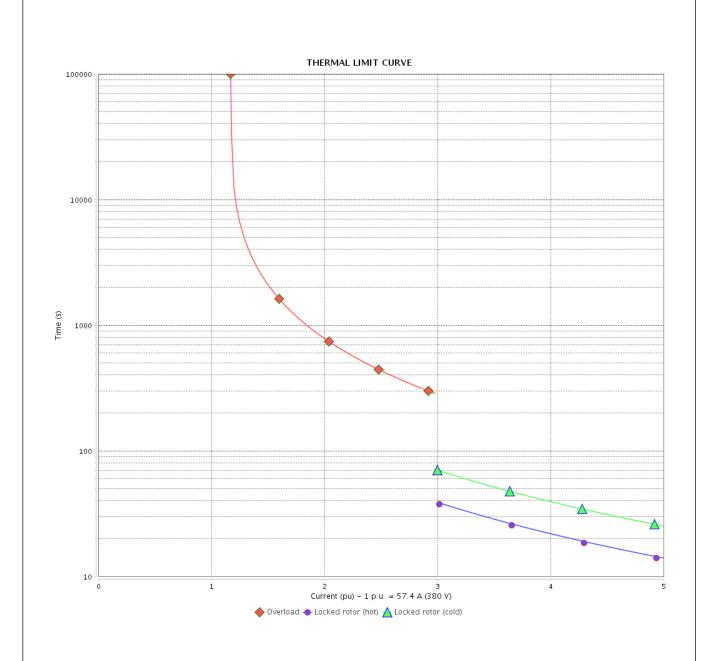


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11723922	
		Phase		Catalog # :	04018ET3E32	P4T-W22
				-		
Performance		: 380 V 50 Hz 4P IE2				
Rated current		: 57.4 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 5.0	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 144 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie	: 180 %	Temperat		: 105 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Comment		Dorformed	Chadrad	Dota
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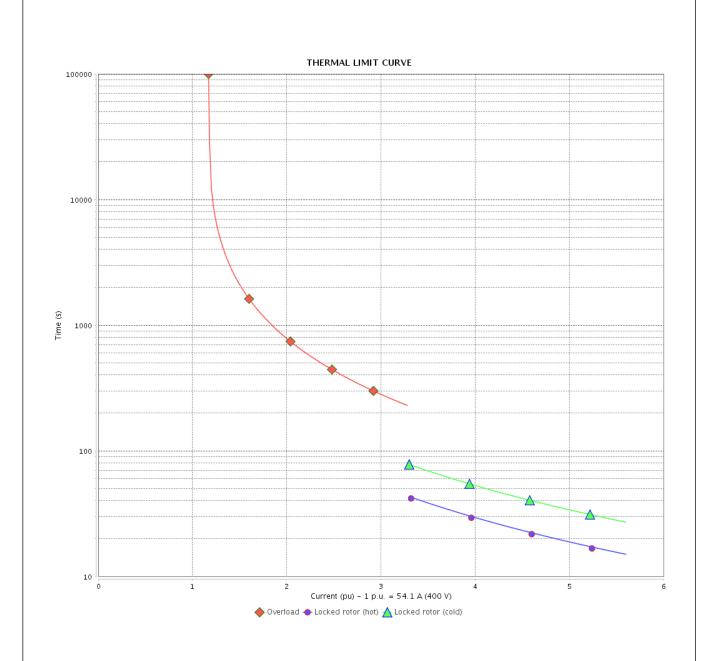


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11723922	
	PI	hase	1	Catalog # :	04018ET3E32	24T-W22
Performance		00 V 50 Hz 4P IE2				
Rated current LRC	: 5 ² : 5.	4.1 A 6	Moment o Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		43 ft.lb	Insulation	class	: F : 1.00	
Locked rotor torque Breakdown torque		90 % 10 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed	: 14	465 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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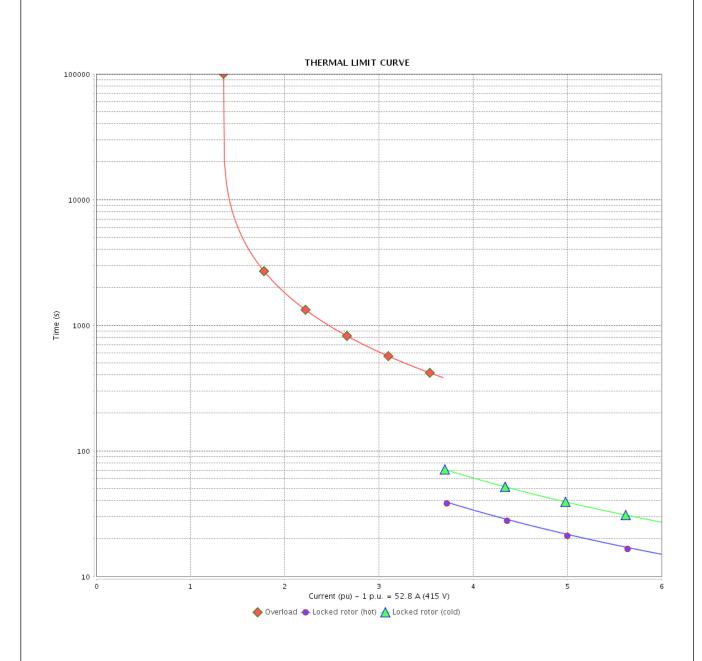


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11723922	
	Filase		Catalog # :	04018ET3E32	24T-W22
Performance	: 415 V 50 Hz 4P IE2	Moment =	finartic (I)	. 0.46 00 4 15	
Rated current LRC	: 52.8 A : 6.0	Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 143 ft.lb : 210 %	Insulation Service fa	class	: F : 1.00	
Breakdown torque	: 229 %	Temperatu		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

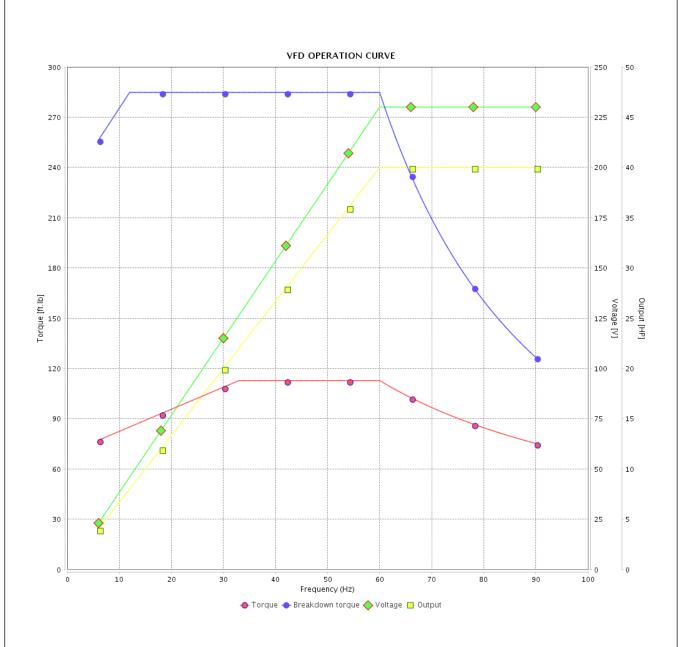
Product code: 11723922

Catalog #: 04018ET3E324T-W22

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Performance		: 230/460 V 60 Hz	4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 94.2/47.1 A : 6.1 : 119 ft.lb : 229 % : 240 % : 1770 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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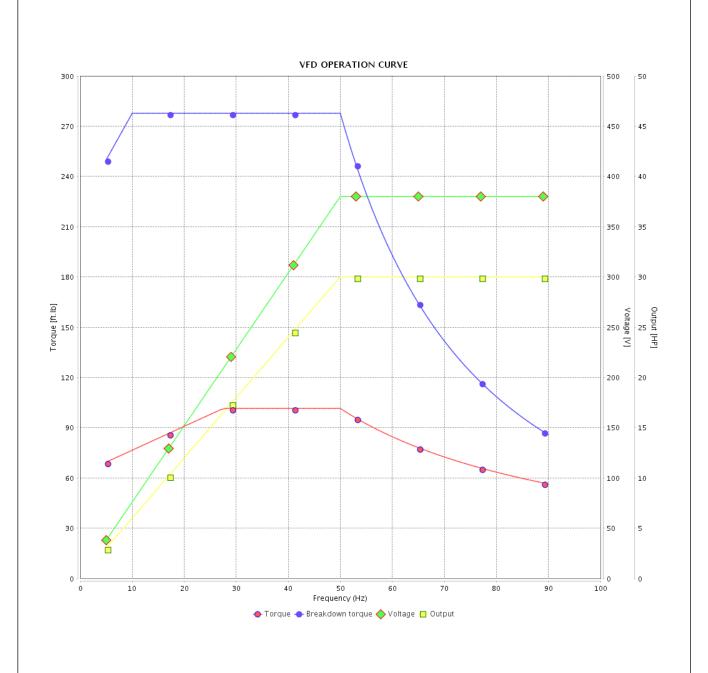
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current		42.8 A	Moment o	Moment of inertia (J)		
LRC	: 6	3.6	Duty cycle	Duty cycle		
Rated torque	: 1	107 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	240 %	Service fa	Service factor		
Breakdown torque	: 2	260 %	Temperati	Temperature rise		
Rated speed	: ′	1475 rpm	Design		: B	
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Customer :

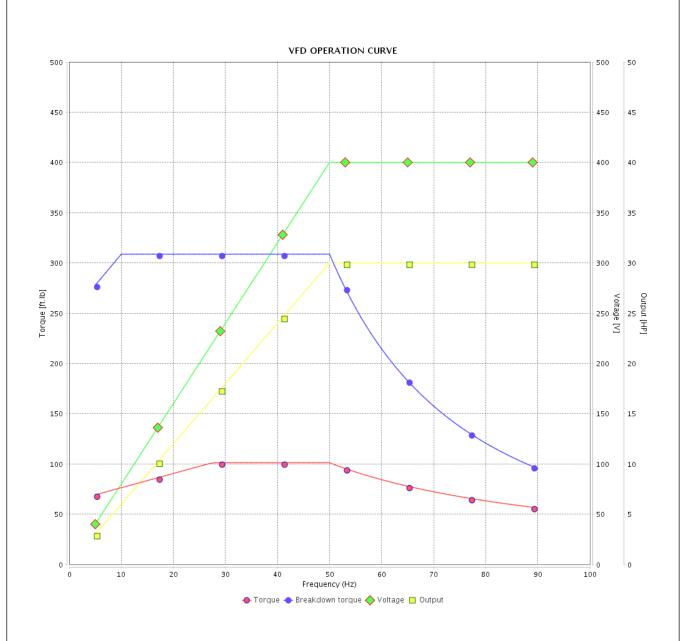
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723922

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 41.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb		
LRC	: 7.3	Duty cycle	: Cont.(S1)		
Rated torque	: 106 ft.lb	Insulation class	: F		
Locked rotor torque	: 270 %	Service factor	: 1.00	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K		
Rated speed	: 1480 rpm	Design	: B		
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Three Phase Induction Motor - Squirrel Cage

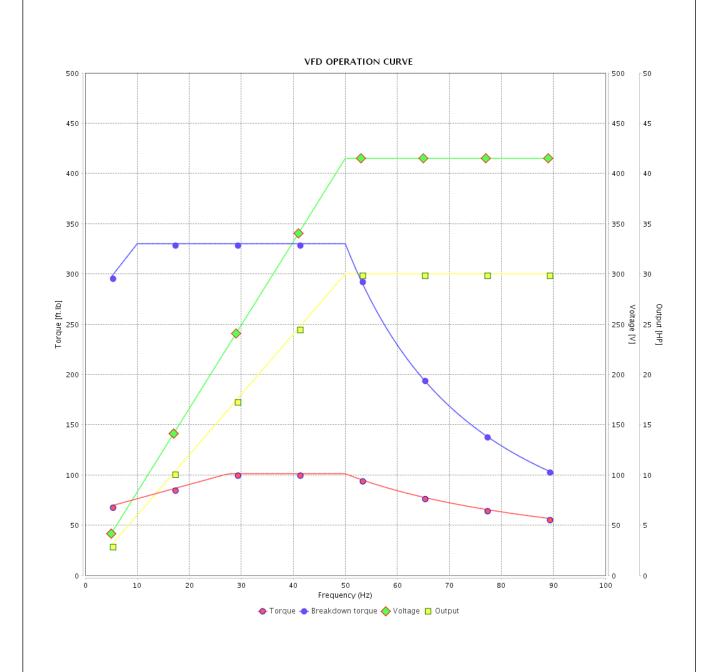


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11723922

Phase

Catalog #: 04018ET3E324T-W22



Performance :		15 V 50 Hz 4P IE3				
Rated current : 4		1.1 A	Moment of	Moment of inertia (J)		
LRC : 7.7		.7	Duty cycle	Duty cycle		
Rated torque	: 1	06 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ie : 2	80 %	Service fa	Service factor		
Breakdown torque	: 3	10 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Date

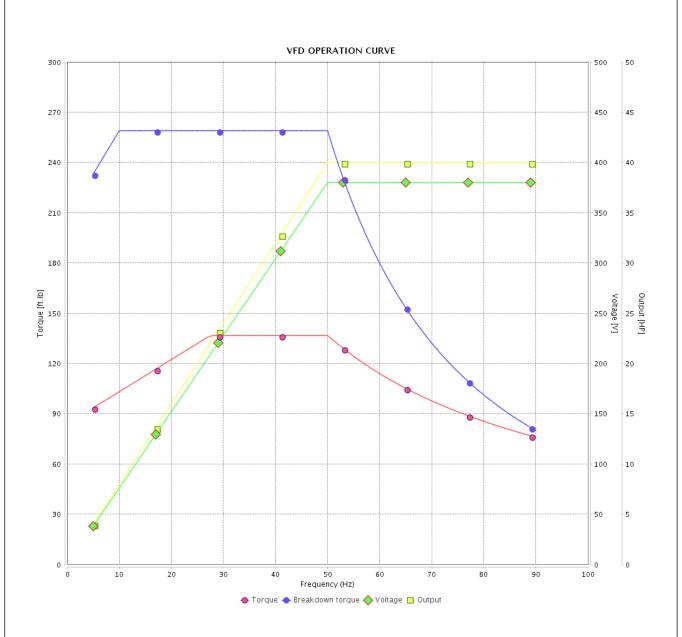
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 57.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.0 : 144 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 1460 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



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Product line : NEMA Premium Efficiency Three- Product code :

Phase

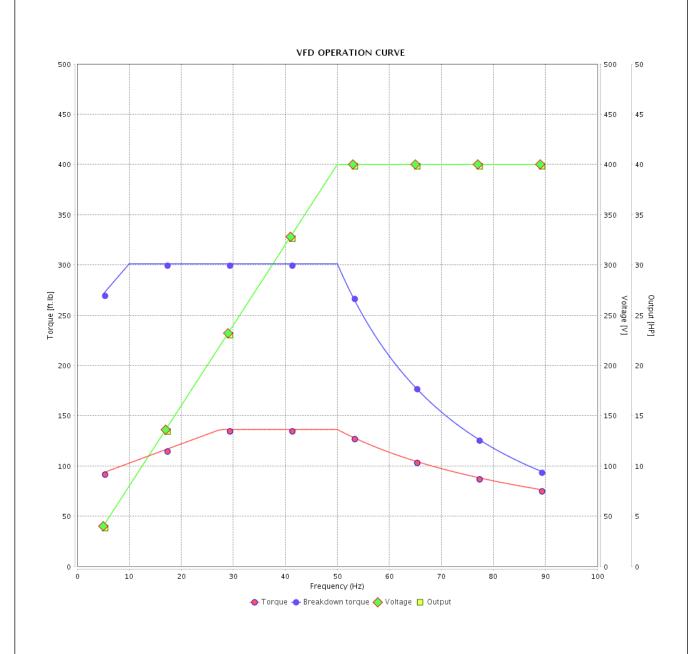
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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.1 A : 5.6 : 143 ft.lb : 190 % : 210 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 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 :

Date

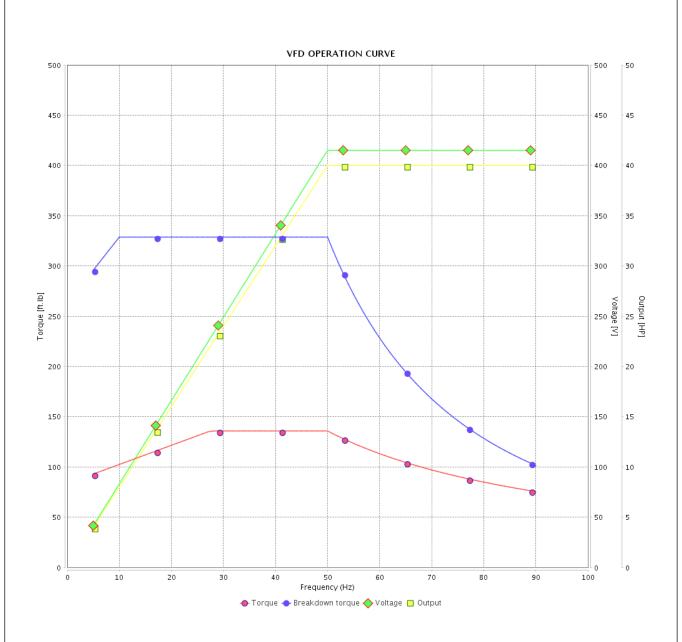
12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11723922

Catalog #: 04018ET3E324T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 52.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 Insulation class : 143 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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