DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-W22

Frame : 324/6TS 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 : 569 lb
Protection degree : IP55 Moment of inertia (J) : 9.16 sg.ft.lb

Design	е	: IP55 : B		Momer	it of inertia (J)	: 9	.16 sq.π.lb	
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 G)	6.6x(Code G)	7.3x(Code H)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	6.0x(Code G)
No load current [A]	34.0/17.0	16.8	17.3	18.6	16.8	17.3	18.6
Rated speed [RPN	/ []	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%	93.4	92.8	92.1	91.1	94.0	93.5	92.8
Efficiency (%)	50%	93.6	92.9	92.4	91.7	93.6	93.6	93.0
Liliciency (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%	0.46	0.43	0.40	0.38	0.53	0.49	0.47
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

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 977 lb Sealing : V'Ring V'Ring Max. compression : 1546 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant 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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Three Phase Induction Motor - Squirrel Cage

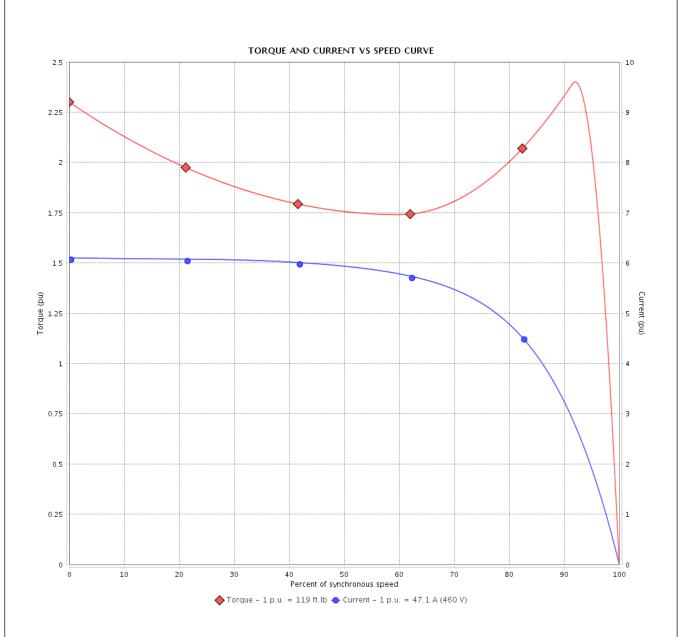


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-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

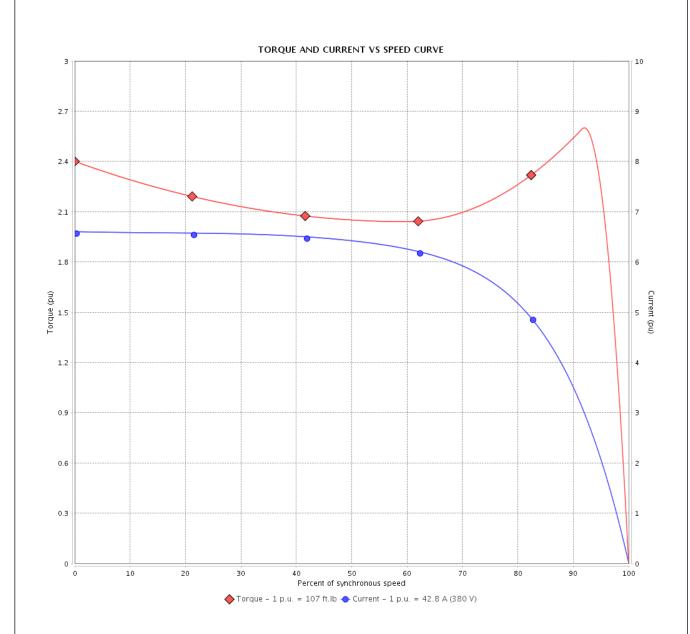
Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12448085 Catalog #: 04018ET3E324TS-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 42.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F : 1.00 Locked rotor torque : 240 % Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 1475 rpm Design Locked rotor time : 25s (cold) 14s (hot)

LOCKCU TOLOT LITT	. 2	55 (COId) 145 (HOL)			
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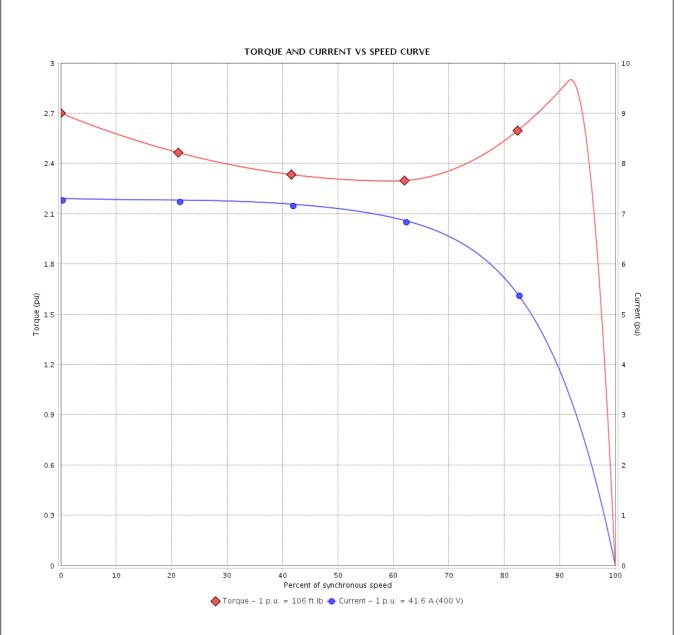


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-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: 12448085 Catalog #: 04018ET3E324TS-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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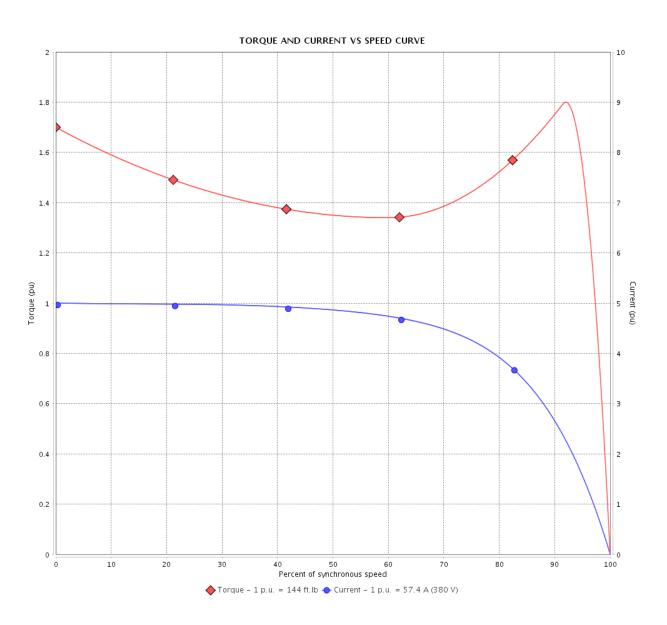


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-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)
Rated torque	: 144 ft.lb	Insulation class	: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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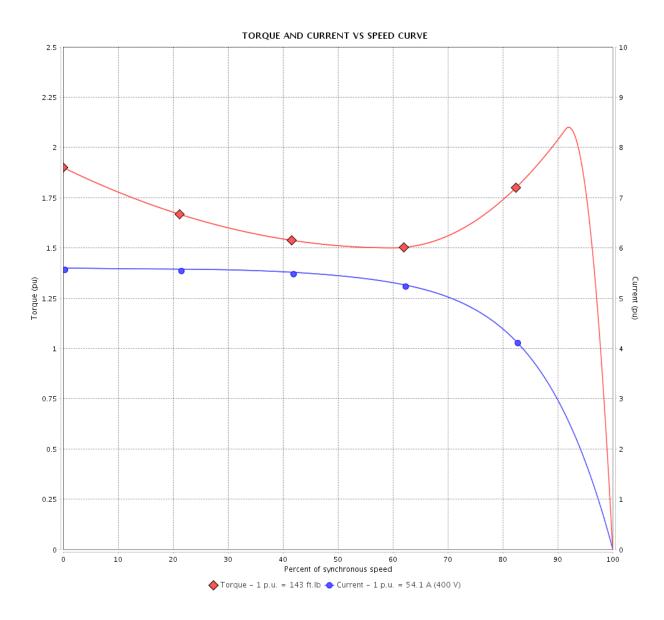


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Product line : NEMA Premium Efficiency Three- Product code : 12448085

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Catalog #: 04018ET3E324TS-W22



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)	
Rated torque	: 143 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 1465 rpm	Design	: B	

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

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (flot)			
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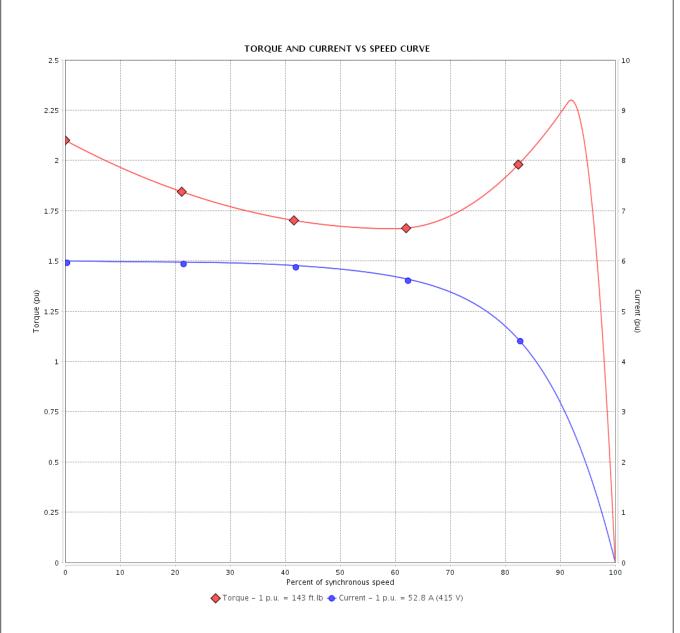
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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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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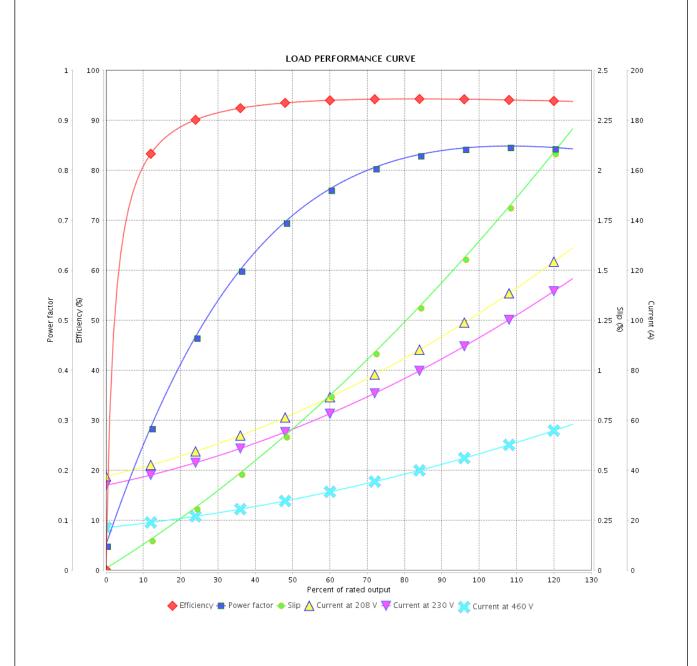


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12448085

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Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 9	94.2/47.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	3.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	119 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	229 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1770 rpm	Design		: B	
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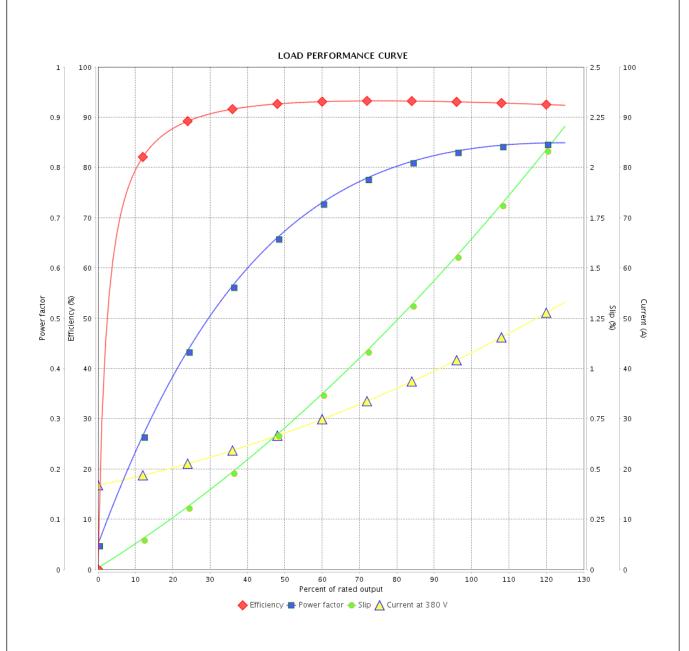
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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 42.8 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.6	Duty cycle	e	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ictor	: 1.00	
Breakdown torque	: 260 %	Temperat	ure rise	: 80 K	
Rated speed	: 1475 rpm	Design		: B	
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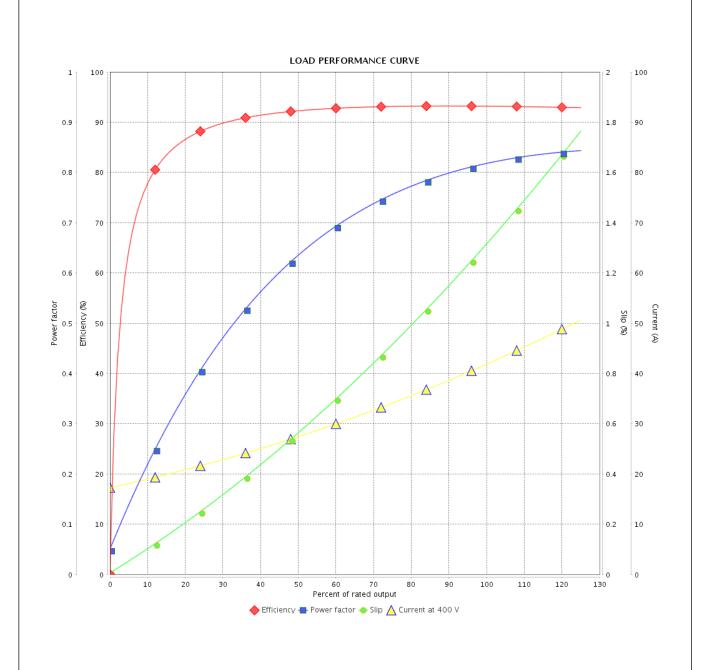


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Phase

Catalog #: 04018ET3E324TS-W22



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	41.6 A	Moment o	f 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	e :	270 %	Service fa	ctor	: 1.00	
Breakdown torque		290 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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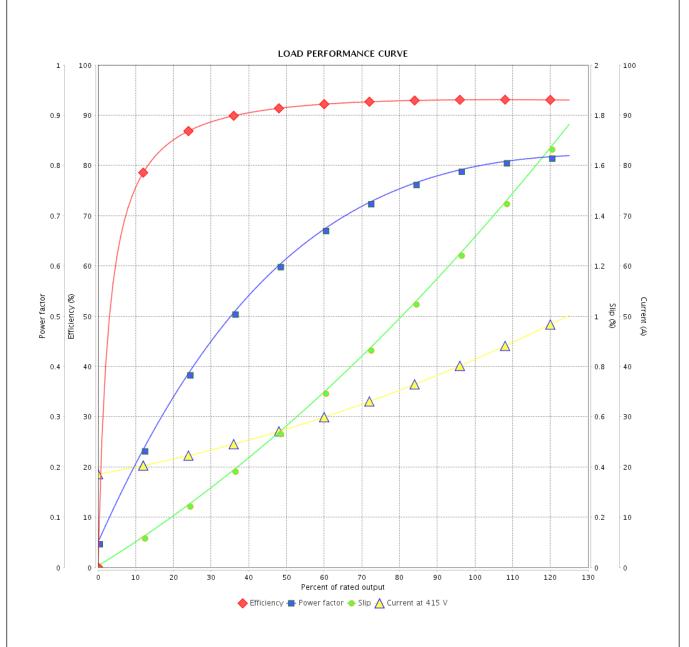
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Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 7.7 : 106 ft.lb : 280 % : 310 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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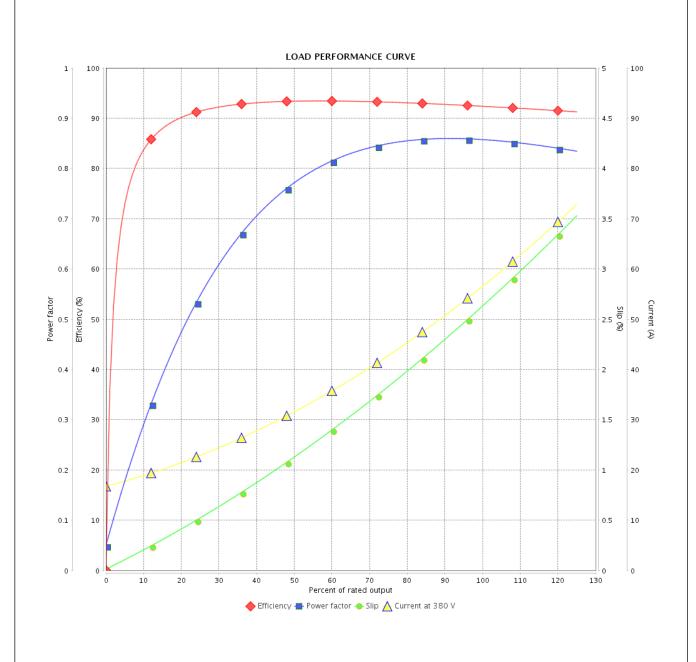


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-W22



Performance	: 3	880 V 50 Hz 4P IE2				
Rated current	: 5	57.4 A	7.4 A Moment of ine		: 9.16 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	44 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 1	70 %	Service factor		: 1.00	
Breakdown torque	: 1	80 %	% Temperature rise		: 105 K	
Rated speed	: 1	460 rpm	Design		: B	
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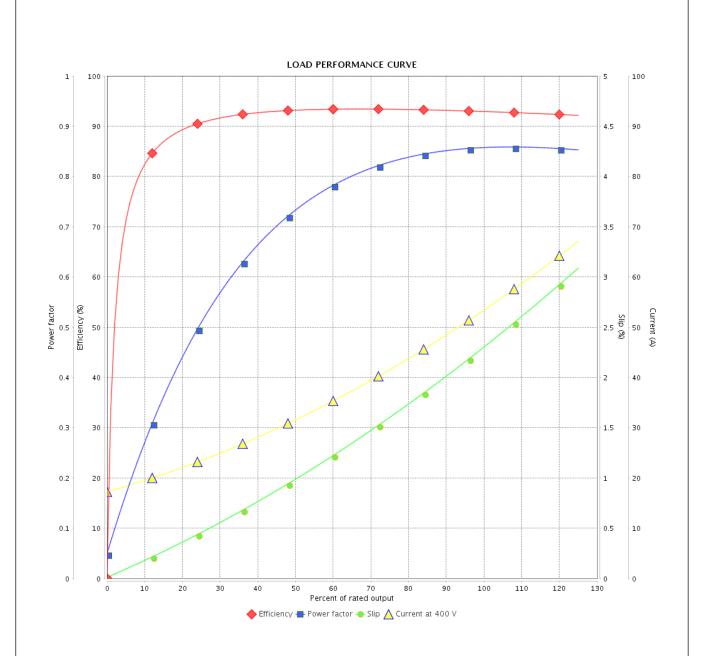


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 54.1 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.6	Duty cycle		: Cont.(S1)	
Rated torque : 143 ft.lb		Insulation	class	: F	
Locked rotor torque	: 190 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 210 %			: 105 K	
Rated speed	: 1465 rpm	Design		: B	
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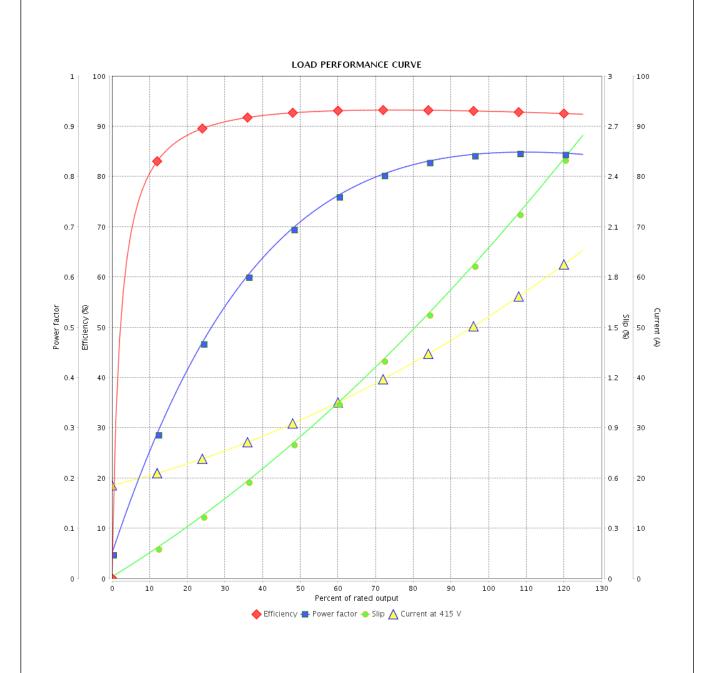


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

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Performance	: 4	415 V 50 Hz 4P IE2				
Rated current	:	52.8 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	6.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	143 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torque : 229 %		229 %	Temperature rise		: 80 K	
Rated speed	: '	1470 rpm	Design		: B	
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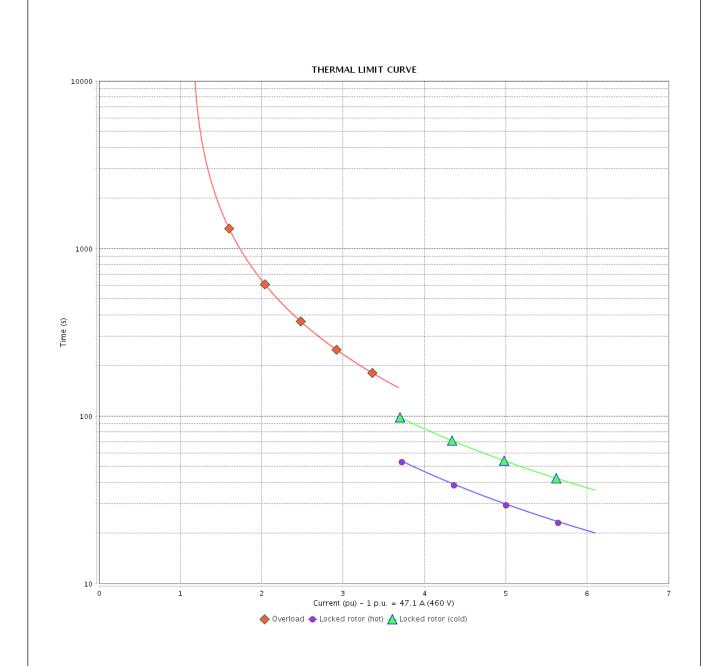


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12448085 04018ET3E32	24TS-W22
Performance		30/460 V 60 Hz 4P	N4	f :	. 0 40 # 11-	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		19 ft.lb 29 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 24	40 %	Temperatu		: 80 K	
Rated speed	: 1,	770 rpm	Design		: B	
Heating constant Cooling constant						
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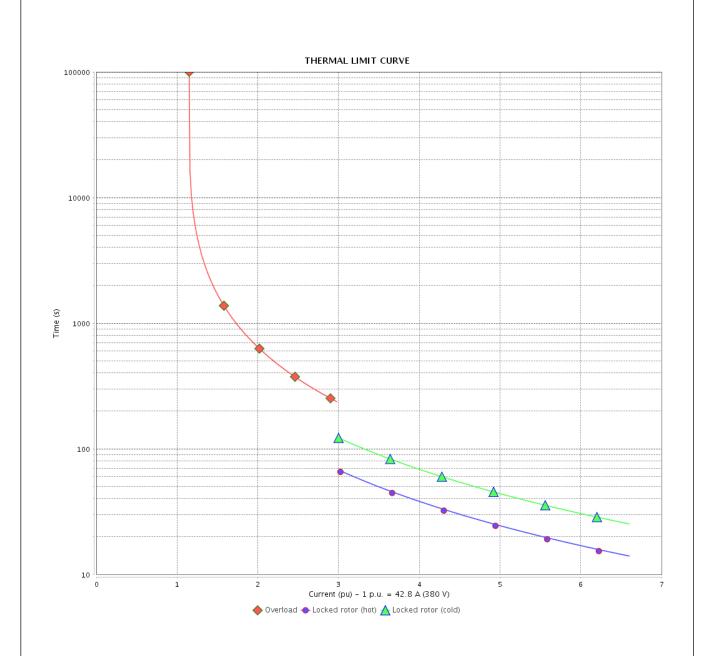


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448085 04018ET3E32	24TS-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 42.8 A : 6.6	Moment of Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 107 ft.lb : 240 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 260 %	Temperat		: 80 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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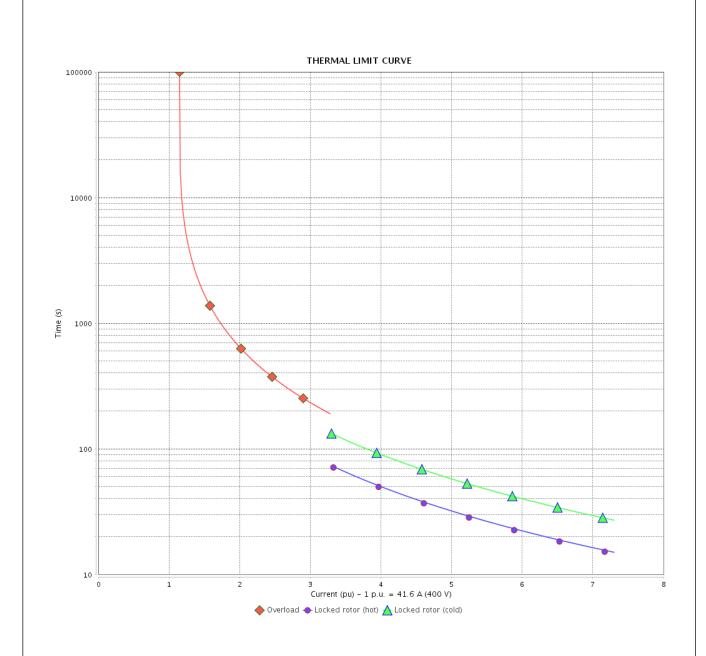


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448085 04018ET3E32	24TS-W22
- ·		400.14.50.11.45.150				
Performance Rated current		: 400 V 50 Hz 4P IE3 : 41.6 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 7.3	Duty cycle	е	: Cont.(S1)	
Rated torque		: 106 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 270 % : 290 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
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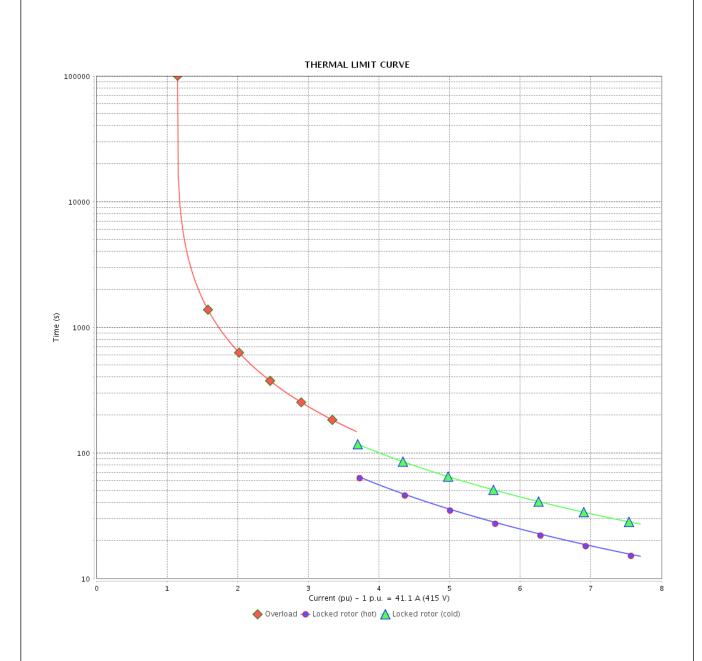


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Product line		NEMA Premium Efficiency hase		Product code :	12448085 04018ET3E32	24TS-W22
Performance	: 4	15 V 50 Hz 4P IE3			<u> </u>	
Rated current LRC	: 4´ : 7.	1.1 A 7	Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		06 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 10 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant						
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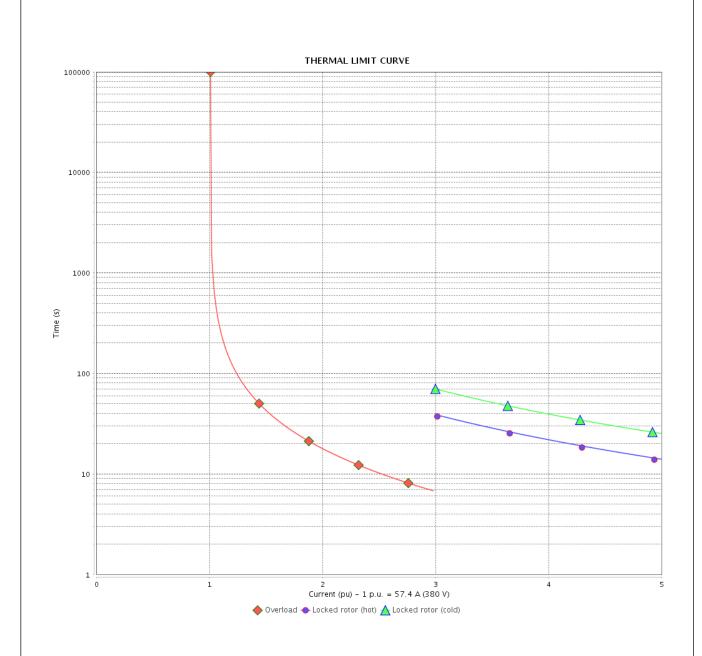


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Product line		NEMA Premium Efficiency	Γhree- I	Product code :	12448085	
	Pł	nase	(Catalog # :	04018ET3E32	24TS-W22
Performance	: 38	30 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord	: 5. : 14 jue : 17	7.4 A 0 44 ft.lb 70 % 30 %	Moment or Duty cycle Insulation Service fac	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Breakdown torqu Rated speed		160 rpm	Temperatu Design	116 1196	: 105 K : B	
Heating constant	<u> </u>					
Cooling constant			Т			
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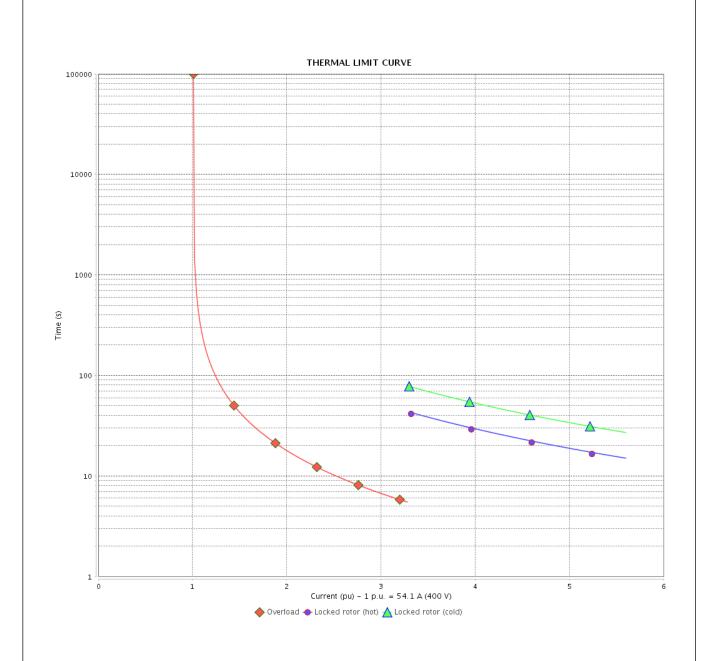


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448085 04018ET3E32	24TS-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 54.1 A : 5.6	Moment of	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 143 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 190 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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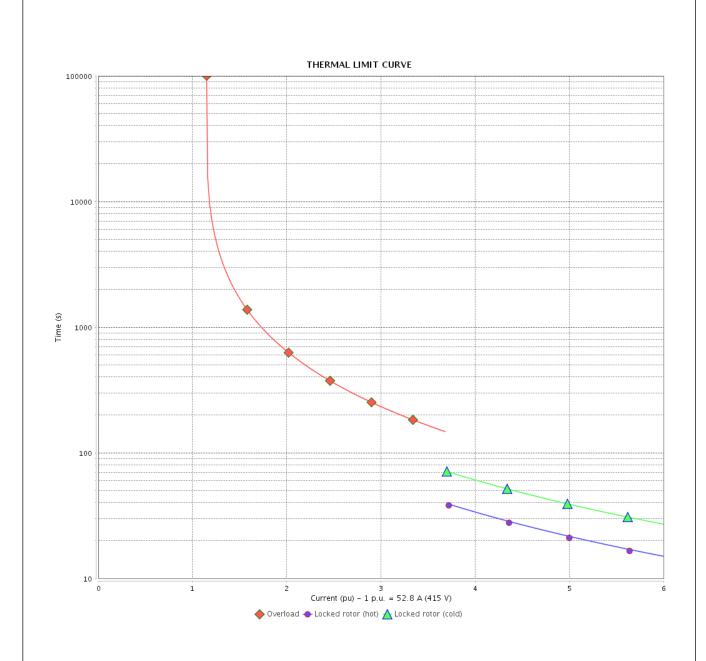


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12448085 04018ET3E32	4TS-W22
Performance		415 V 50 Hz 4P IE2			2.12 6.11	
Rated current LRC	:	52.8 A 6.0	Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		143 ft.lb 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		229 %	Temperati		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
Heating constant Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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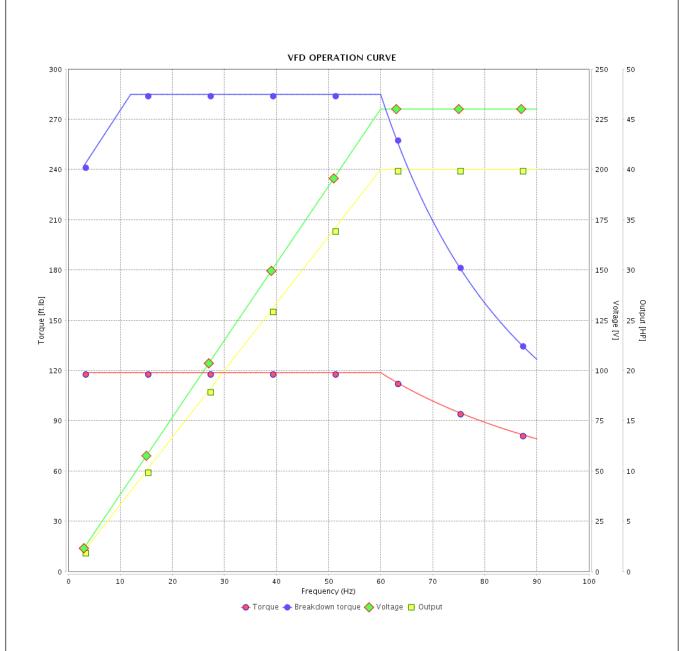
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12448085

Catalog #: 04018ET3E324TS-W22

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Performance : 230/460 V 60 Hz 4P Rated current : 94.2/47.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 119 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

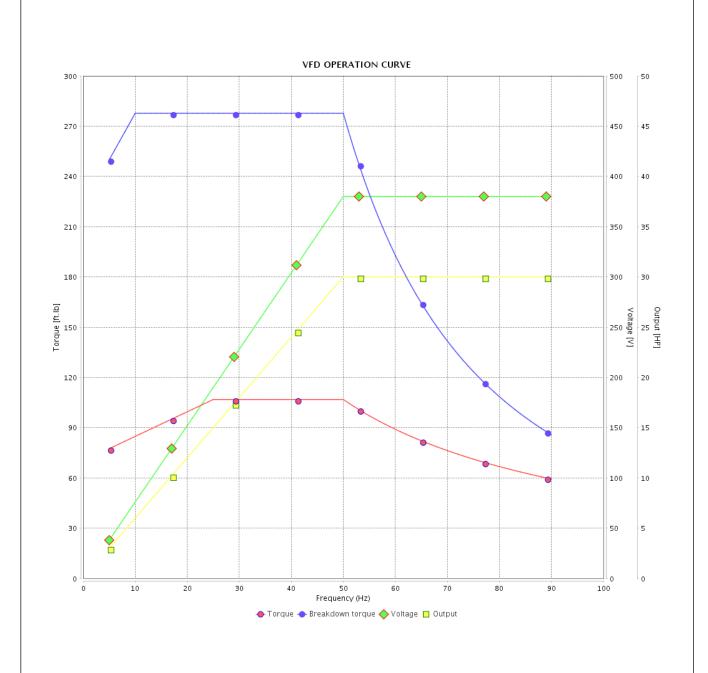
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12448085

Catalog #: 04018ET3E324TS-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current : 42.8 A		Moment of	Moment of inertia (J)			
LRC	: 6	3.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1	107 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	240 %	Service fa	ctor	: 1.00	
Breakdown torque	orque : 260 % Temperature rise		: 80 K			
Rated speed	: 1	1475 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product

Phase

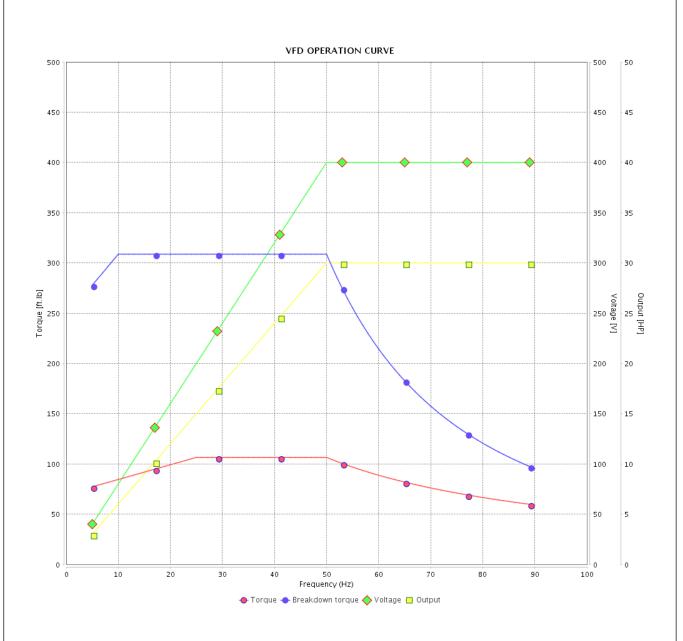
Product code: 12448085

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



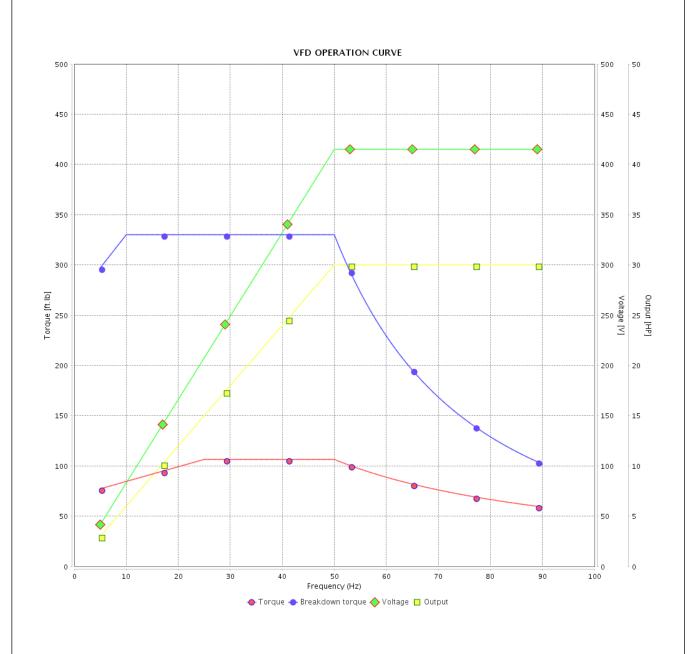
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-W22

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 7.7 : 106 ft.lb : 280 % : 310 % : 1480 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 9.16 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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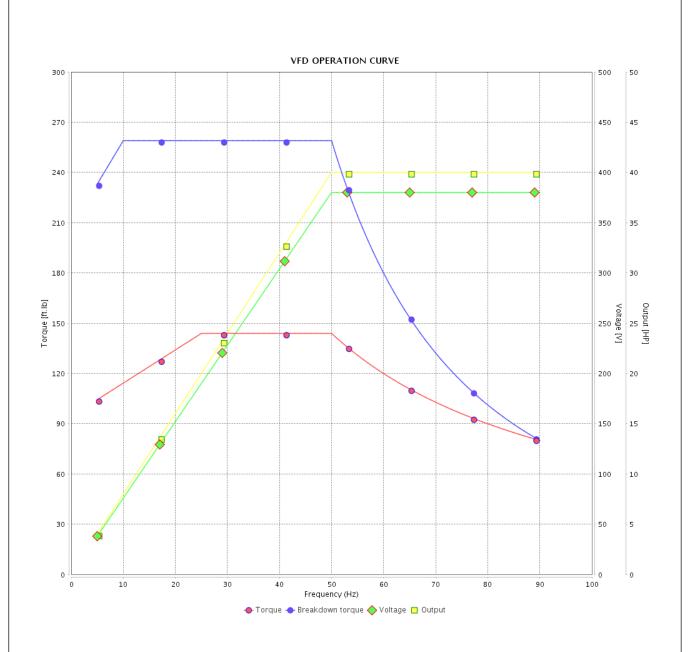
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04018ET3E324TS-W22

12448085

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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

Three Phase Induction Motor - Squirrel Cage

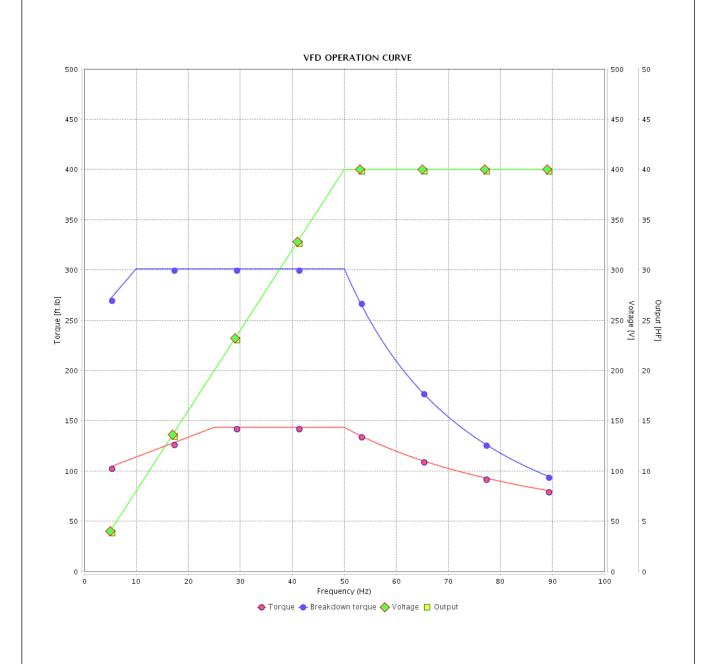


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Product line : NEMA Premium Efficiency Three- Product code : 12448085

Phase

Catalog #: 04018ET3E324TS-W22



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		4.1 A 6 43 ft.lb 90 % 10 % 465 rpm	Duty cycle : Countries : For Service factor : 1.		: 1.00 : 105 K	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product

Phase

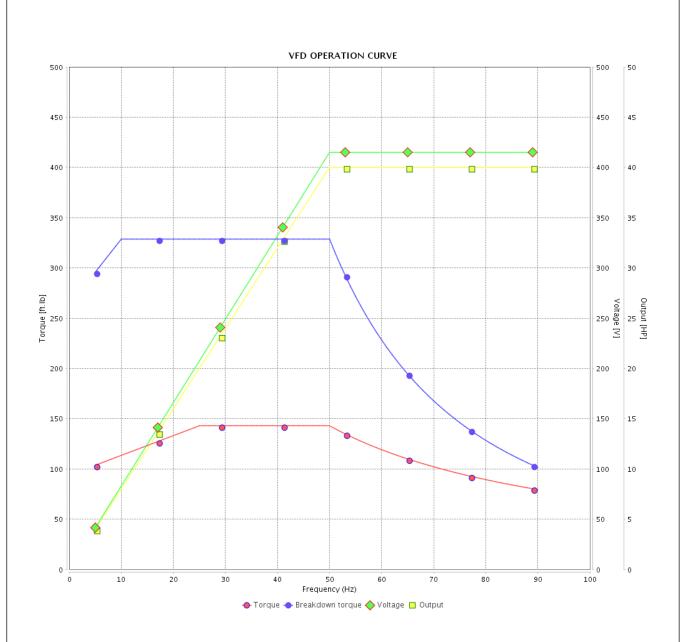
Product code: 12448085

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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

