DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

Catalog #: 04018ST3QIE324T-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 : 572 lb
Protection degree : IP55 Moment of inertia (J) : 9.16 sq.ft.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]		460	380	400	415	380	400	415
Rated current [A]		47.1	42.8	41.6	41.1	57.4	54.1	52.8
L. R. Amperes [A]		287	291	308	316	287	303	317
LRC [A]		,	6.8x(Code H)	7.4x(Code J)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	,
		G)						G)
No load current [A]		17.0	16.8	17.3	18.6	16.8	17.3	18.6
Rated speed [RPN	1]	1775	1477	1480	1481	1460	1465	1470
Slip [%]		1.39	1.53	1.33	1.27	2.67	2.33	2.00
Rated torque [ft.lb]		118	107	106	106	144	143	143
Locked rotor torqu	e [%]	229	240	270	280	170	190	210
Breakdown torque	[%]	240	250	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	105 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
Elliciency (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%							
Dower Footer	50%	0.72	0.68	0.64	0.62	0.78	0.74	0.72
Power Factor	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 : 975 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 1547 lb

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

Notes

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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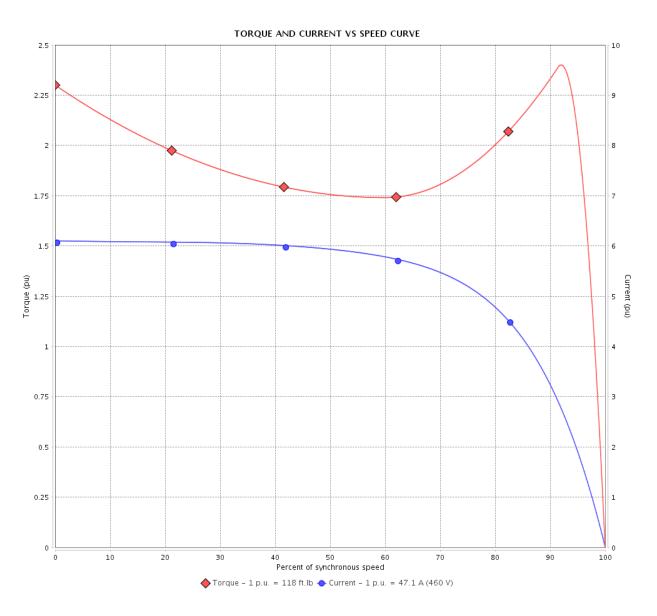
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12447812

Catalog # : 04018ST3QIE324T-W22



Performance : 460 V 60 Hz 4P Rated current : 47.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 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: 12447812 Catalog #: 04018ST3QIE324T-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. = 107 ft.lb ◆ Current - 1 p.u. = 42.8 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 42.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Performed Checked Date Rev. **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



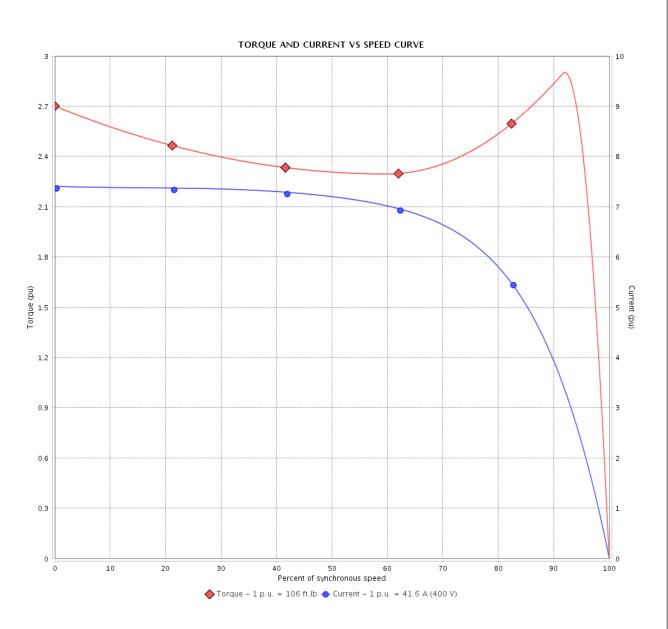
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04018ST3QIE324T-W22

12447812



: 400 V 50 Hz 4P IE3 Performance Rated current : 41.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : 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: 12447812 Catalog #: 04018ST3QIE324T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 106 ft.lb ◆ Current - 1 p.u. = 41.1 A (415 V)

Rated current	: 41.1 A	NA (. 6 * (* / 1)		
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.7 : 106 ft.lb : 280 % : 310 % : 1481 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	
Locked rotor time	: 27s (cold) 15s (hot)			

Lookou rotor time		5 (661d) 166 (116t)			
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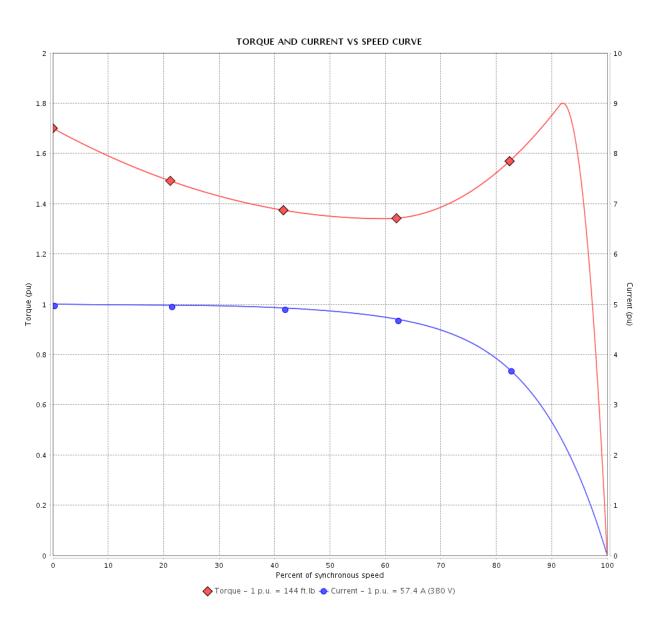
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 04018ST3QIE324T-W22

12447812



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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12447812 Catalog #: 04018ST3QIE324T-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 Locked rotor torque : 190 % Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 1465 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

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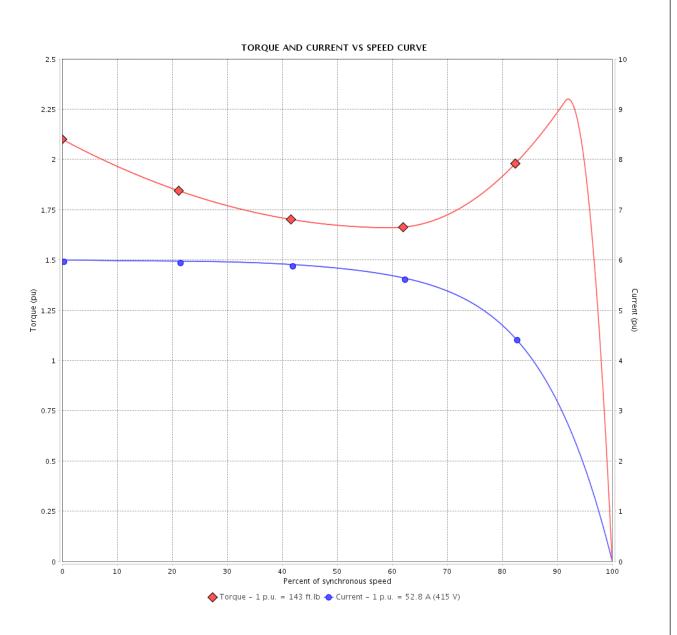
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04018ST3QIE324T-W22

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Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.8 A : 6.0 : 143 ft.lb : 210 % : 229 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 27s (cold) 15s (hot)			

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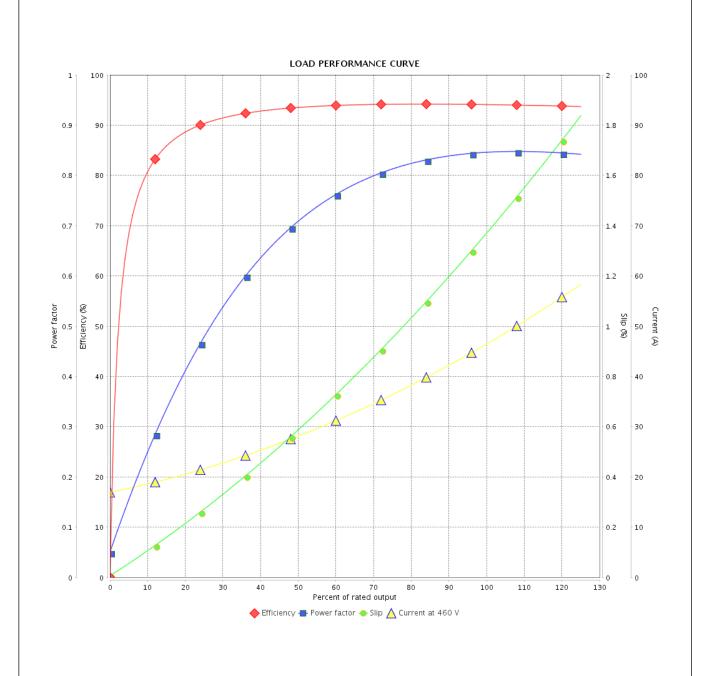


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

Catalog #: 04018ST3QIE324T-W22



Performance	: 4	460 V 60 Hz 4P				
Rated current	: 4	47.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: (3.1	Duty cycle)	: Cont.(S1)	
Rated torque	: '	118 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	229 %	Service fa	ctor	: 1.25	
Breakdown torqu	e : 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1775 rpm	Design		: B	
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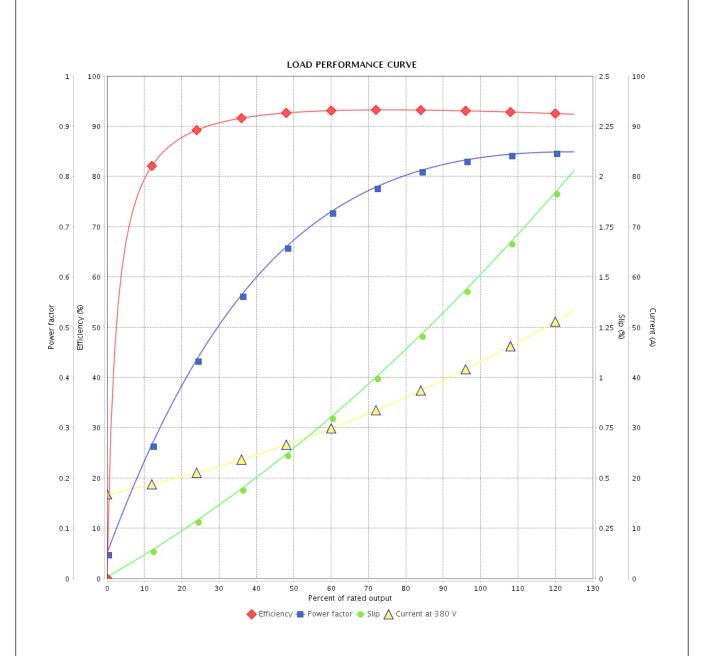
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 42.8 A	Moment of	inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 240 %	Service fac	tor	: 1.00	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1477 rpm	Design		: B	
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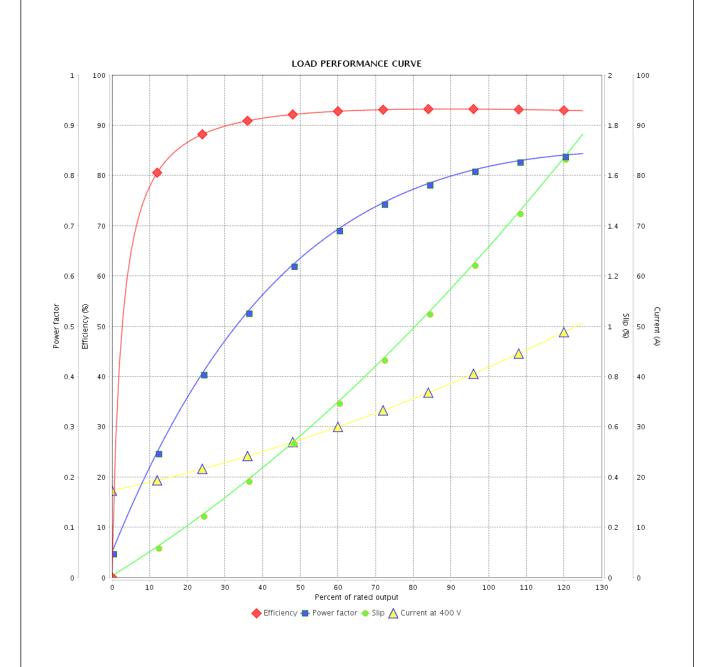
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Product line : NEMA Premium Efficiency Three- Product code : 12447812

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.6 A : 7.4 : 106 ft.lb : 270 % : 290 % : 1480 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	class tor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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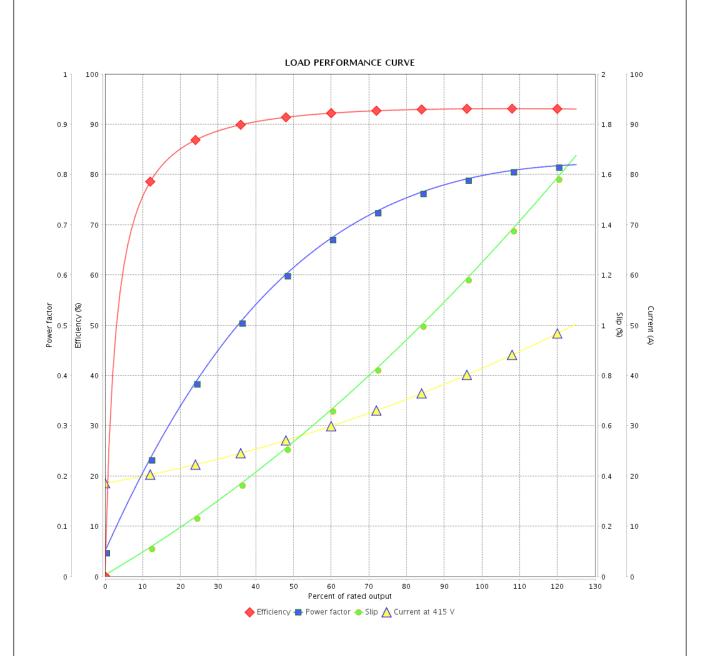
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Product line : NEMA Premium Efficiency Three- Product code : 12447812

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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 % : 1481 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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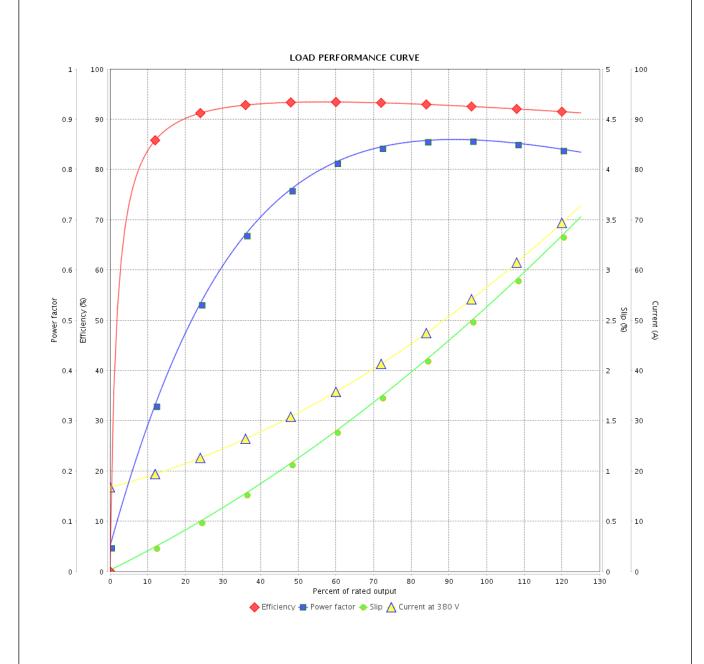


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

Catalog #: 04018ST3QIE324T-W22



Performance	: 3	380 V 50 Hz 4P IE2				
Rated current	:	57.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	144 ft.lb	Insulation	class	: F	
Locked rotor torque	e : <i>"</i>	170 %	Service factor		: 1.00	
Breakdown torque	: '	180 %	Temperati	Temperature rise		
Rated speed	: '	1460 rpm	Design		: B	
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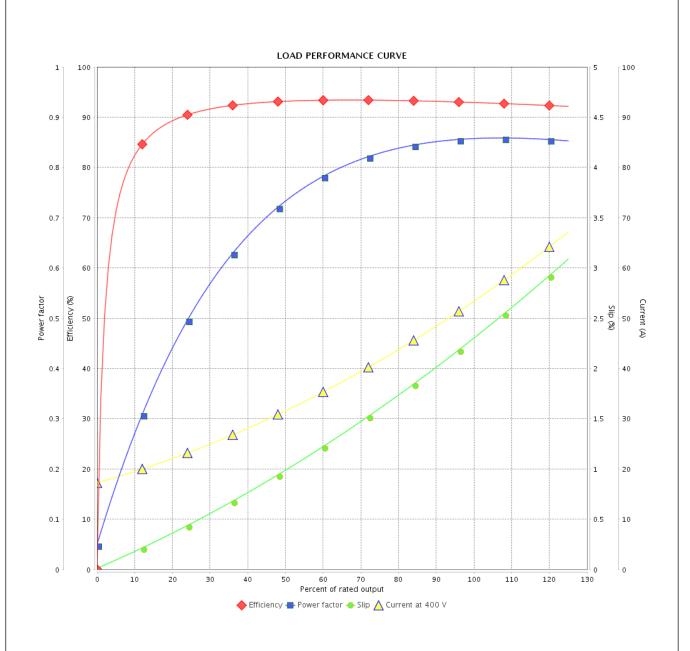
Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12447812

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Performance	: 400 V 50 Hz 4P IE2				
Periormance	. 400 V 50 HZ 4P IEZ				
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			or	: 1.00	
Breakdown torque	: 210 %	Temperature rise		: 105 K	
Rated speed	: 1465 rpm	Design		: B	
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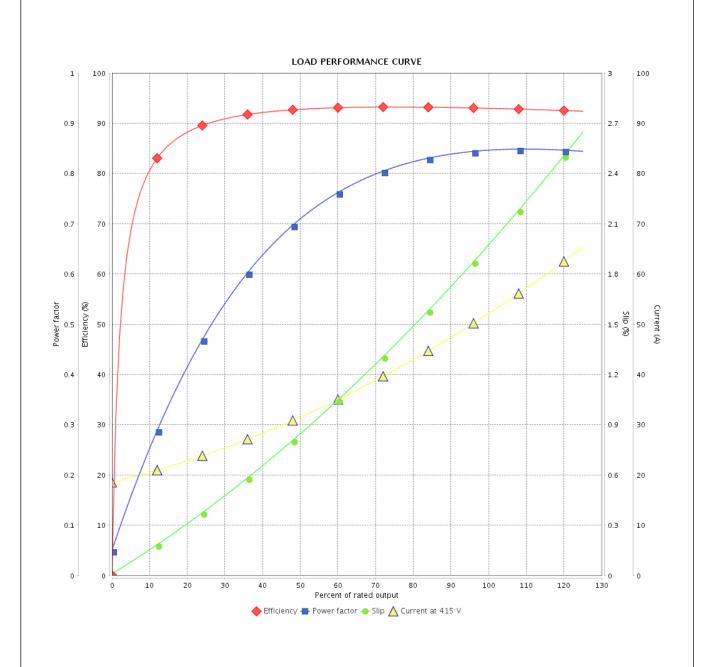


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

Catalog #: 04018ST3QIE324T-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 torque	e :	210 %	Service factor		: 1.00	
Breakdown torque	:	229 %	Temperature rise		: 105 K	
Rated speed	:	1470 rpm	Design		: B	
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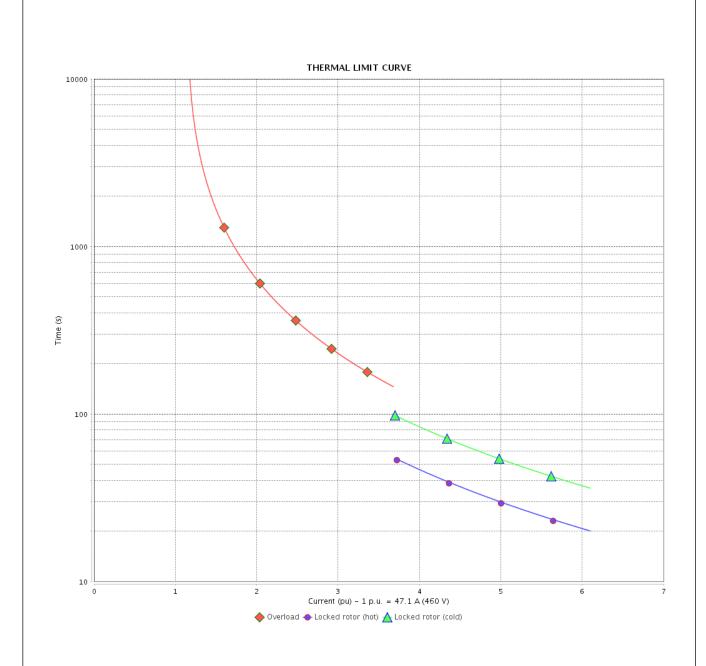


Customer	:				_	
Product line		NEMA Premium Efficiency hase		Product code :	12447812 04018ST3QIE	:324T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 47 : 6. : 11 : : 22 : 24 : 17	60 V 60 Hz 4P 7.1 A 1	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	Date
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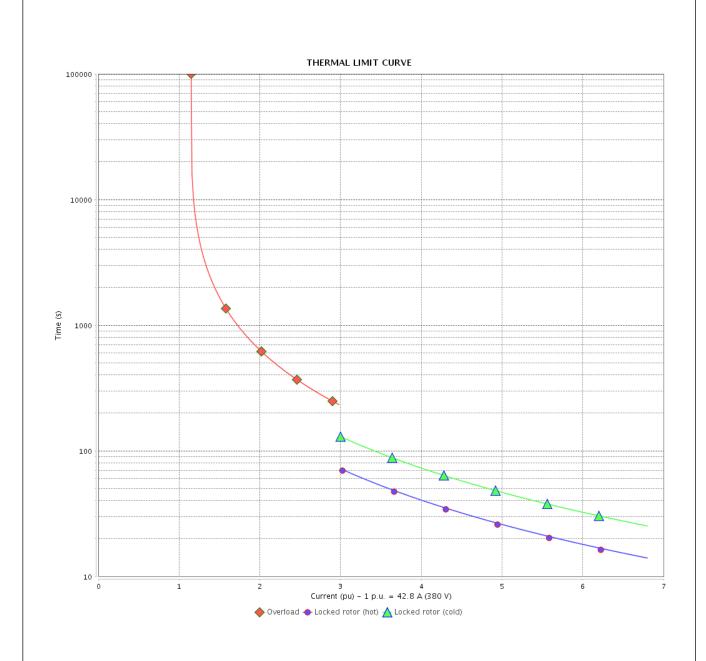


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447812 04018ST3QIE	:324T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 42.8 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 6.8 : 107 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Rated torque Locked rotor torq		: 107 π.ib : 240 %	Service fa		: F : 1.00	
Breakdown torqu	e :	: 250 %	Temperat		: 80 K	
Rated speed		: 1477 rpm	Design		: B	
Heating constant Cooling constant						
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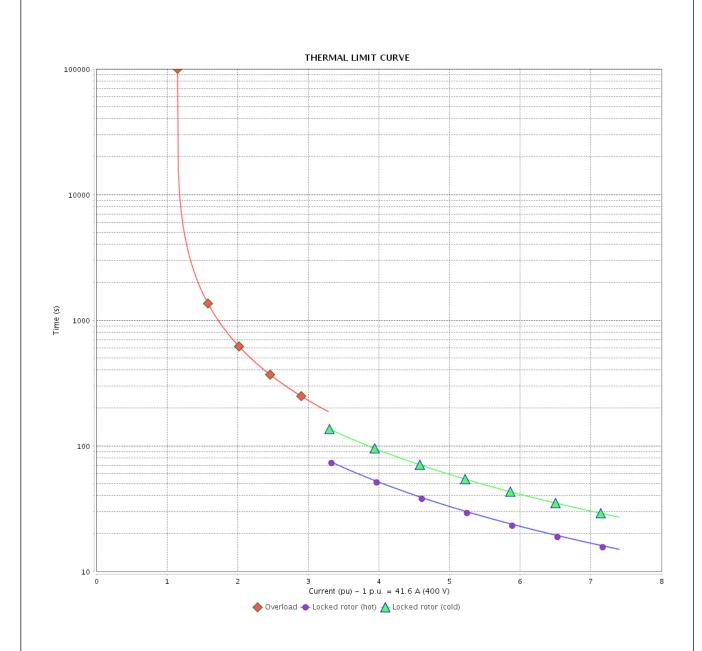


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447812 04018ST3QIE	:324T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 41.6 A : 7.4	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 106 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 270 % : 290 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	τ 	Changes Summary		Performed	Checked	Date
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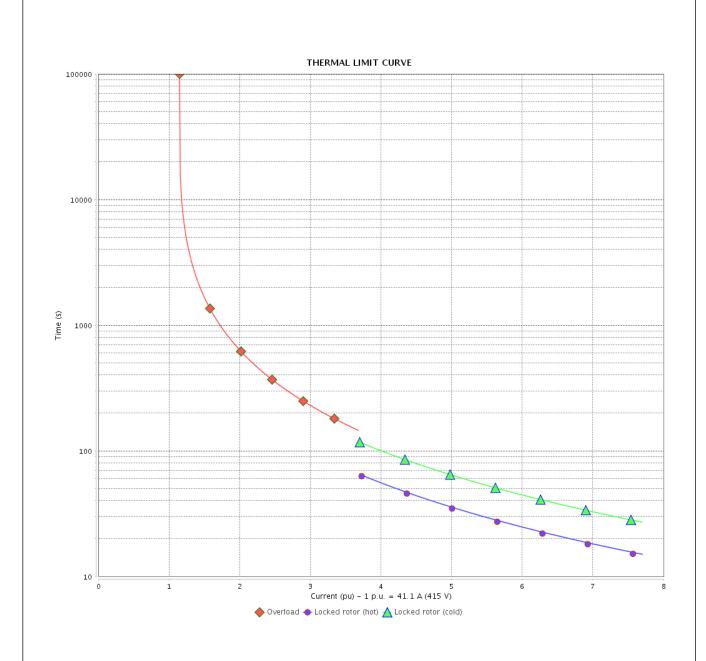


Customer	:					
Product line		NEMA Premium Efficiency ⁻ nase	Three- I	Product code :	12447812	
	Г	idse	(Catalog # :	04018ST3QIE	324T-W22
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current	: 41	I.1 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 7. : 10	7 06 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	μe : 28	30 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		10 % 181 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant Cooling constant						
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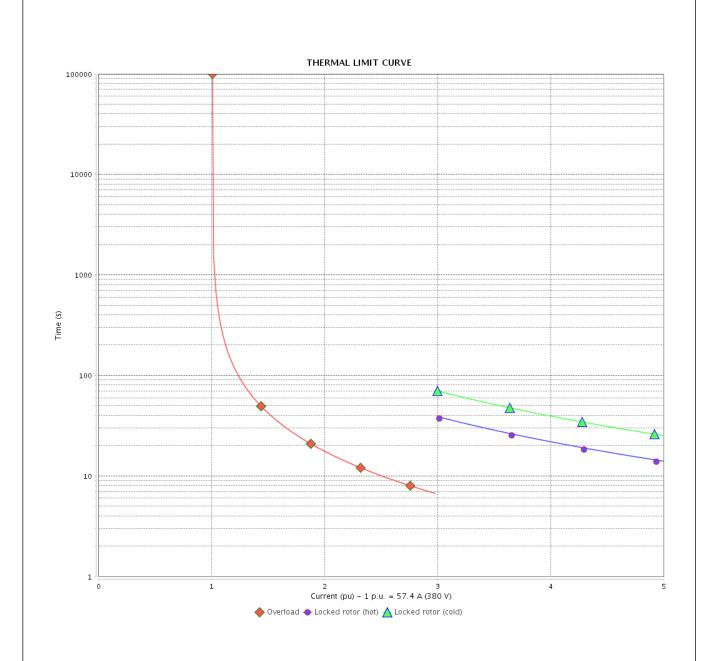


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447812 04018ST3QIE	:324T-W22
				-		
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 57.4 A : 5.0	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 144 ft.lb	Insulation	class	: F	
Locked rotor tord		: 170 % : 180 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 1460 % : 1460 rpm	Temperat Design	u10 110C	: 105 K : B	
Heating constan						
Cooling constant	t					_
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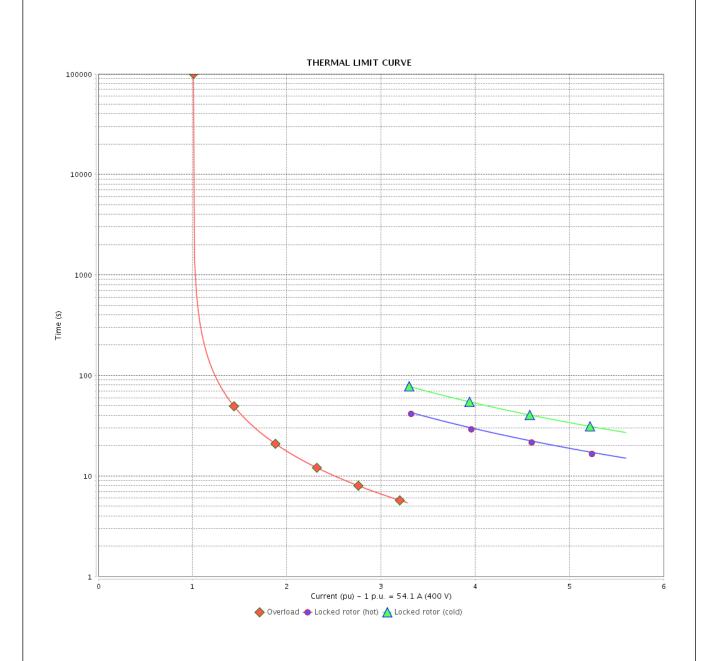


Customer		:				
Product line		: NEMA Premium Efficiency `Phase		Product code :	12447812 04018ST3QI	E324T-W22
Performance		400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	54.1 A 5.6 143 ft.lb 190 % 210 % 1465 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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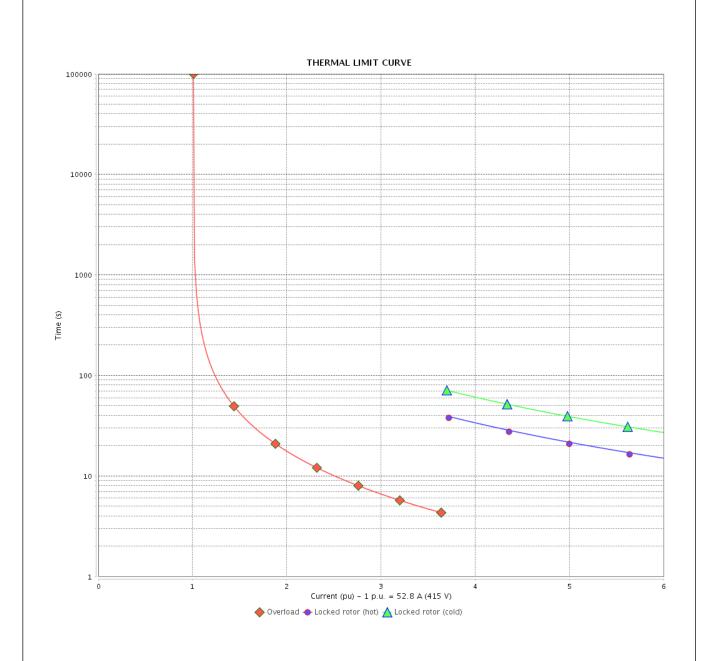


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447812 04018ST3QIE	324T-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 52.8 A : 6.0	Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 143 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 105 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Customer :

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Date

Product line : NEMA Premium Efficiency Three- Product

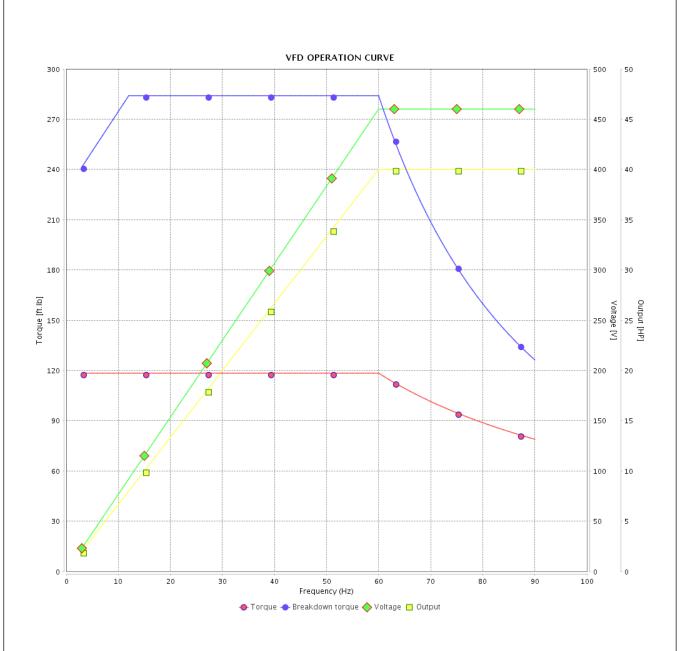
Phase

Product code: 12447812

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Performance : 460 V 60 Hz 4P Rated current : 47.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 118 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



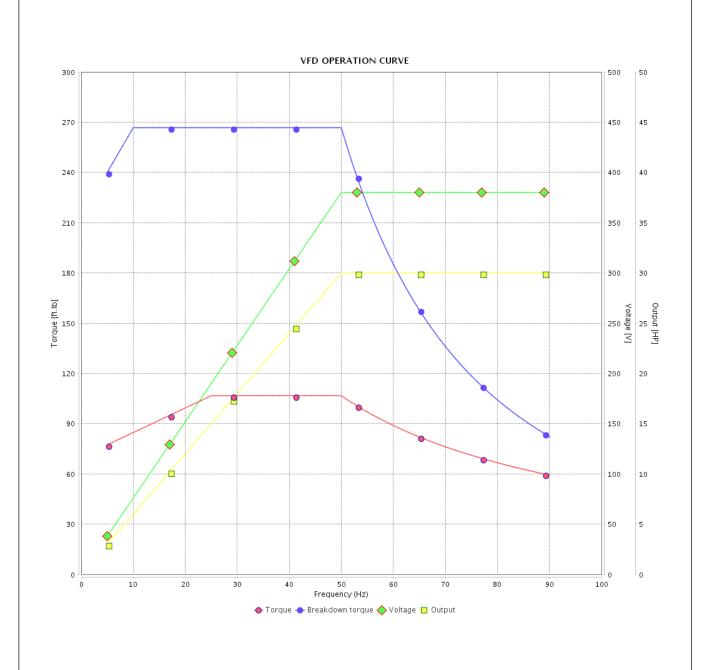
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Product line : NEMA Premium Efficiency Three- Product code : 12447812

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Performance	: 380 V 50 Hz 4P IE3	4P IE3				
Rated current	: 42.8 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 6.8	Duty cycle	;	: Cont.(S1)		
Rated torque	: 107 ft.lb			: F		
Locked rotor torque	: 240 %			: 1.00		
Breakdown torque	: 250 %			: 80 K		
Rated speed	: 1477 rpm	Design		: B		
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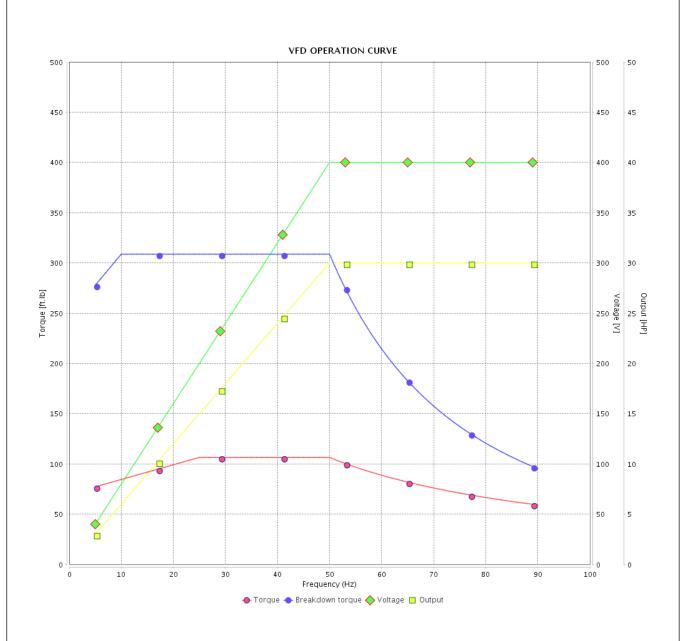
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Phase

Product code: 12447812

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Performance	: 400 V 50 Hz 4P IE3	00 V 50 Hz 4P IE3			
Rated current	: 41.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb		
LRC	: 7.4	Duty cycle	: Cont.(S1)		
Rated torque	: 106 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		
Rev.	Changes Summary	Performed	Checked	Date	
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Three Phase Induction Motor - Squirrel Cage



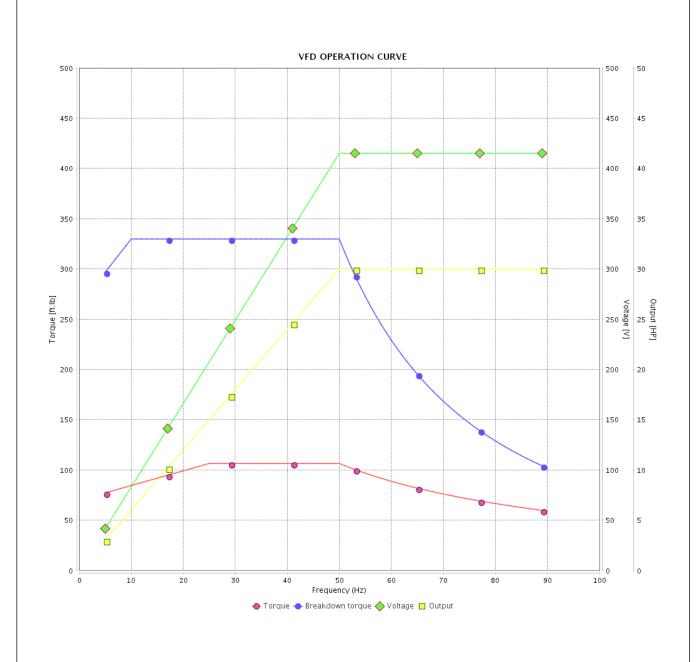
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Product line : NEMA Premium Efficiency Three- Product code : 12447812

Phase

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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 % : 1481 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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Product line : NEMA Premium Efficiency Three-

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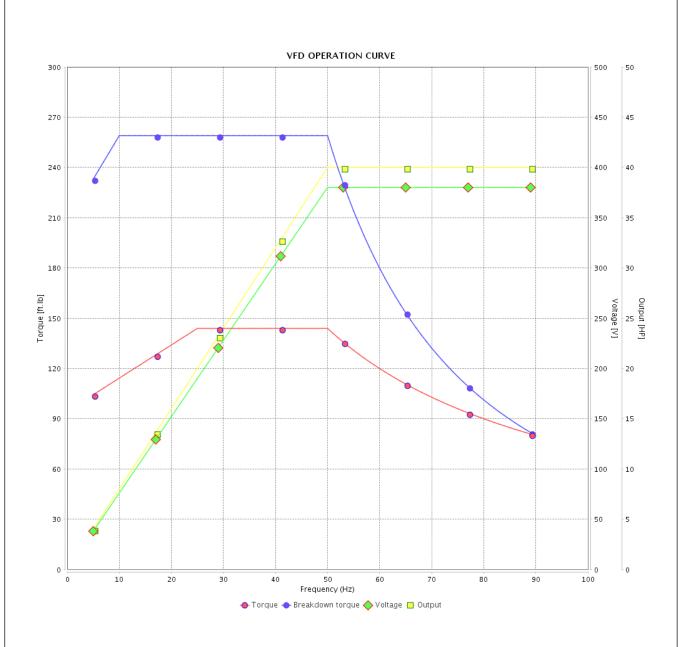
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Performance		: 380 V 50 H	z 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 57.4 A : 5.0 : 144 ft.lb : 170 % : 180 % : 1460 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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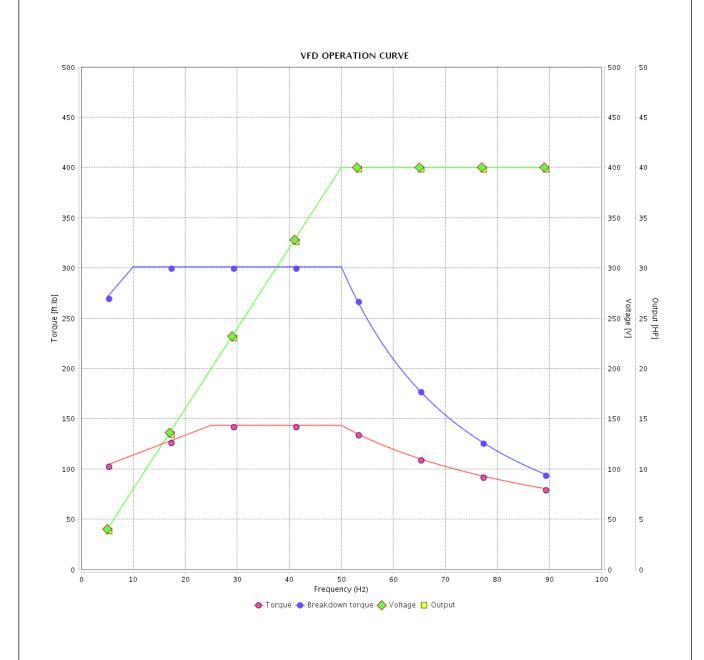
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Product line : NEMA Premium Efficiency Three- Product code : 12447812

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three- Prod

Phase

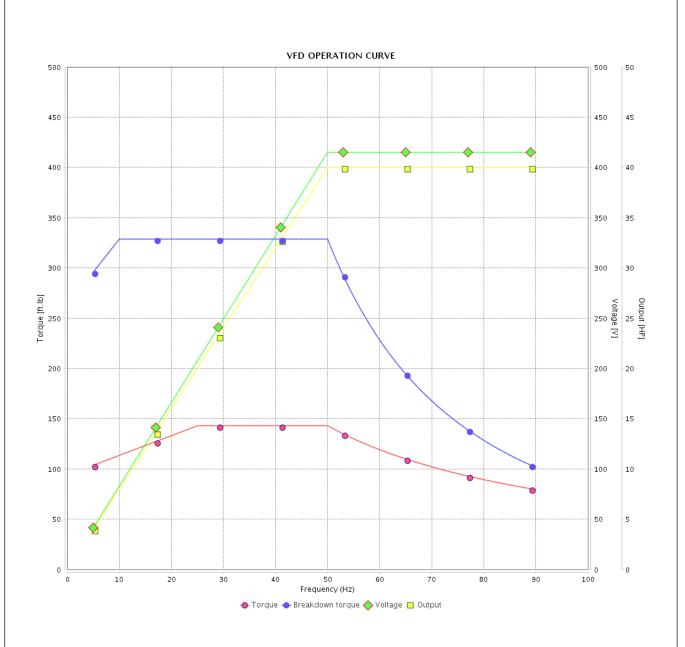
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Performance		: 415 V 50 Hz 4I	P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 52.8 A : 6.0 : 143 ft.lb : 210 % : 229 % : 1470 rpm	D Ir S To	floment of Outy cycle Insulation Service faction Semperatures	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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