DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

2.22

Catalog #: 02009ST3QIE324TC-W22

3.33

115

2.67

Frame : 324/6TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

2.67

100

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 : 452 lb
Protection degree : IP55 Moment of inertia (J) : 9.37 sq.ft.lb

Design : B

Design	. 5						
Output [HP]	20	15	15	15	20	20	20
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	28.3	26.5	26.4	27.1	33.4	32.6	32.7
L. R. Amperes [A]	142	133	142	152	134	143	150
LRC [A]	5.0x(Code	5.0x(Code	5.4x(Code H)	5.6x(Code J)	4.0x(Code D)	4.4x(Code E)	4.6x(Code
	G)	G)					
No load current [A]	16.0	15.7	17.6	19.3	15.7	17.6	19.3
Rated speed [RPM]	880	730	730	735	725	725	730

2.67

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2.00

107

3.33

115

Rated torque [it.ib]]	119	108	108	107	145	145	144
Locked rotor torqu	ıe [%]	190	190	210	240	140	160	180
Breakdown torque	: [%]	220	229	260	280	170	190	210
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	80 K
Locked rotor time		48s (cold)	36s (cold)					
		27s (hot)	20s (hot)					
Noise level ²		56.0 dB(A)						
	25%	89.2	88.3	86.8	85.6	90.2	89.1	88.0
Efficiency (%)	50%	89.5	88.5	87.4	86.3	89.5	88.5	87.5
Efficiency (70)	75%	91.0	89.6	89.0	88.5	89.5	89.5	89.5
	100%	91.0	89.5	89.3	89.0	88.5	88.5	88.5
	25%	0.31	0.29	0.25	0.23	0.36	0.32	0.29
Power Factor	50%	0.54	0.51	0.46	0.42	0.61	0.56	0.52
FOWEI FACIOI	75%	0.66	0.64	0.60	0.56	0.72	0.68	0.65
Temperature rise Locked rotor time	100%	0.73	0.72	0.69	0.65	0.77	0.75	0.72

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

Notes

Slip [%]

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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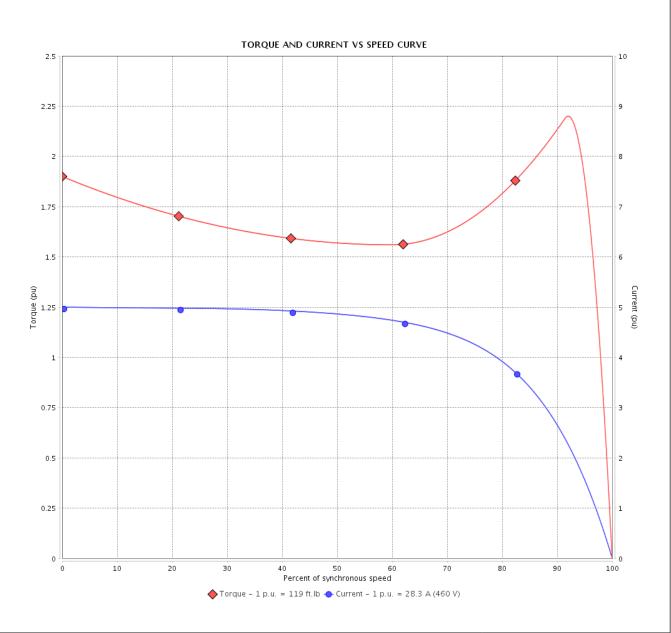
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14325516

Catalog #: 02009ST3QIE324TC-W22



Performance	: 460 V 60 Hz 8P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.3 A : 5.0 : 119 ft.lb : 190 % : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K
Rated speed	: 880 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

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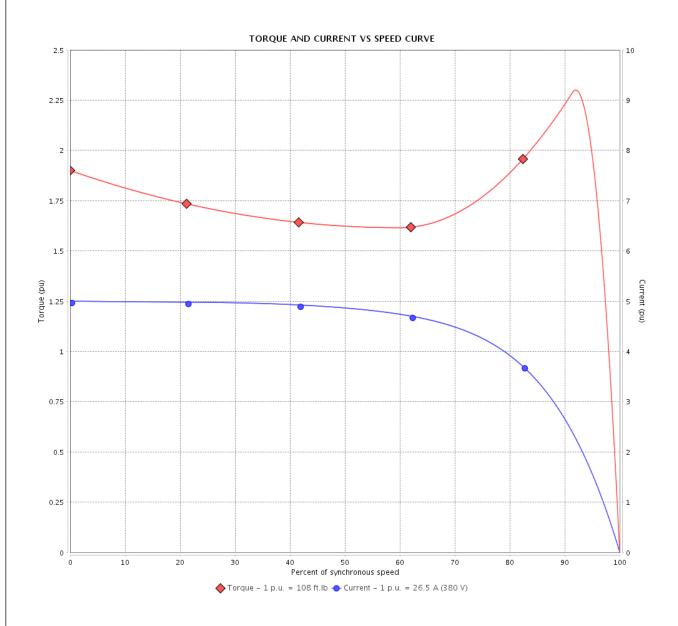
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Catalog #: 02009ST3QIE324TC-W22



Performance	: 380 V 50 Hz 8P IE3			
Rated current	: 26.5 A	Moment of inertia (J)	: 9.37 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 730 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (bot)			

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

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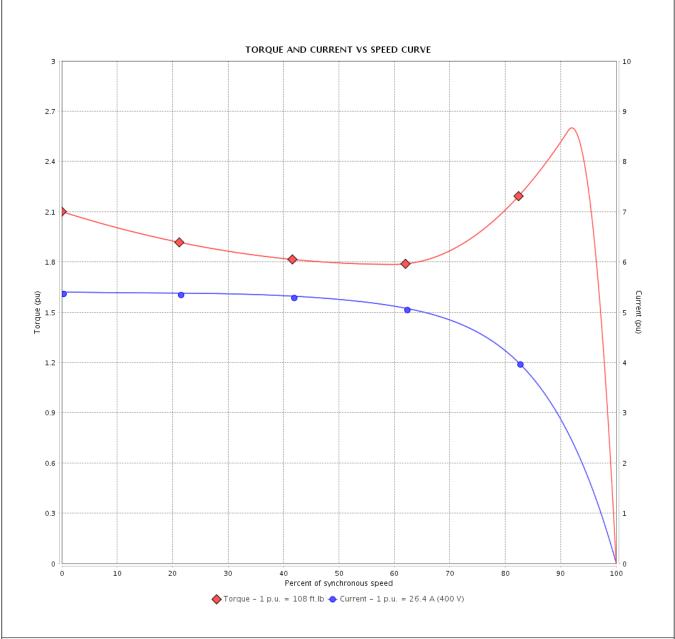
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02009ST3QIE324TC-W22

14325516



Performance : 400 V 50 Hz 8P IE3 Rated current : 26.4 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 108 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 730 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: 14325516 Catalog #: 02009ST3QIE324TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7

2.1 1.8 Torque (pu) Current 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 27.1 A (415 V)

Performance : 415 V 50 Hz 8P IE3 Rated current : 27.1 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 735 rpm Design Locked rotor time : 36s (cold) 20s (hot)

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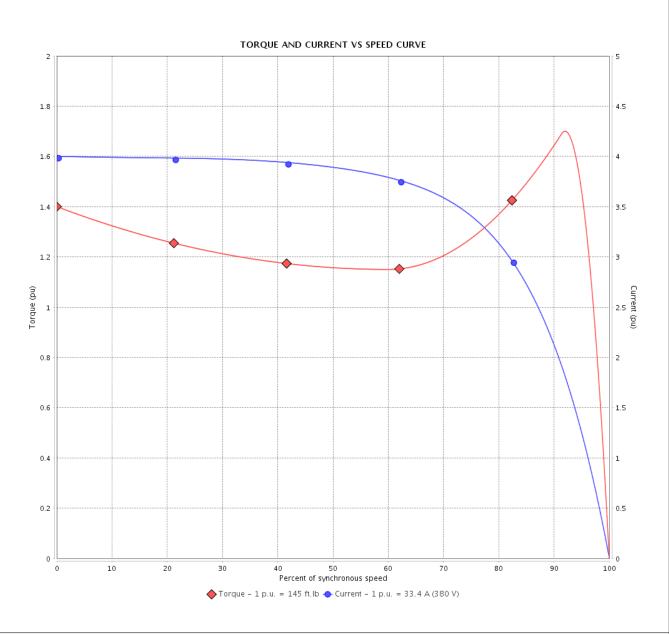
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14325516

Catalog #: 02009ST3QIE324TC-W22



Performance	: 380 V 50 Hz 8P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.4 A : 4.0 : 145 ft.lb : 140 % : 170 % : 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : 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: 14325516 Catalog #: 02009ST3QIE324TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 145 ft.lb ◆ Current - 1 p.u. = 32.6 A (400 V) Performance : 400 V 50 Hz 8P IE2 Rated current : 32.6 A Moment of inertia (J) : 9.37 sq.ft.lb **LRC** : 4.4 Duty cycle : Cont.(S1) : 145 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.15 : 105 K Breakdown torque : 190 % Temperature rise Rated speed : 725 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Date Performed Checked Rev. **Changes Summary**

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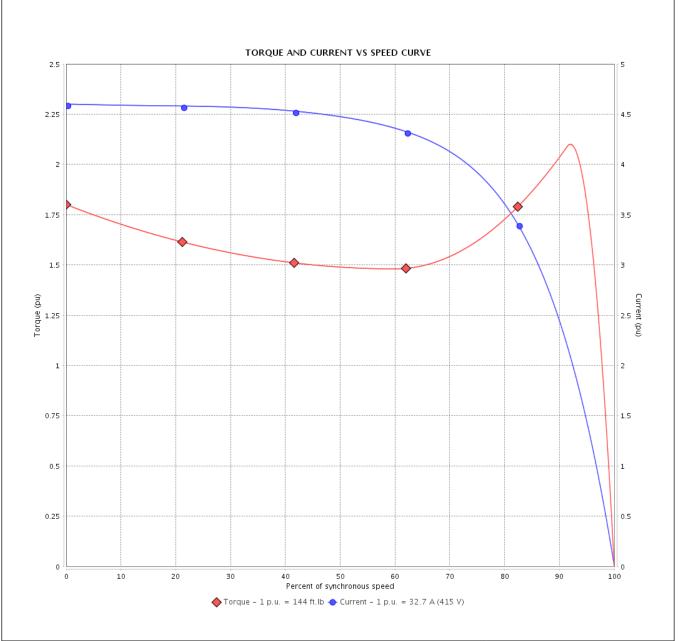


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



Performance	: 415 V 50 Hz 8P IE2			
Rated current	: 32.7 A	Moment of inertia (J)	: 9.37 sq.ft.lb	
LRC	: 4.6	Duty cycle	: Cont.(S1)	
Rated torque	: 144 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 730 rpm	Design	: B	
Locked roter time	: 36s (sold) 20s (hot)			-

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

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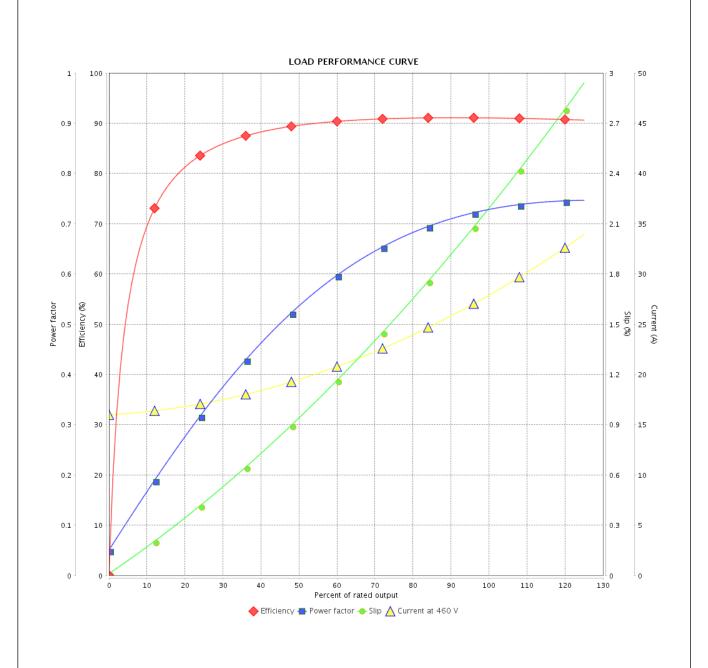


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



Performance	: 4	60 V 60 Hz 8P				
Rated current	: 2	28.3 A	Moment of inertia (J)		: 9.37 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	19 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	90 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	: 220 % Temp : 880 rpm Desig		ıre rise	: 80 K	
Rated speed	: 8				: B	
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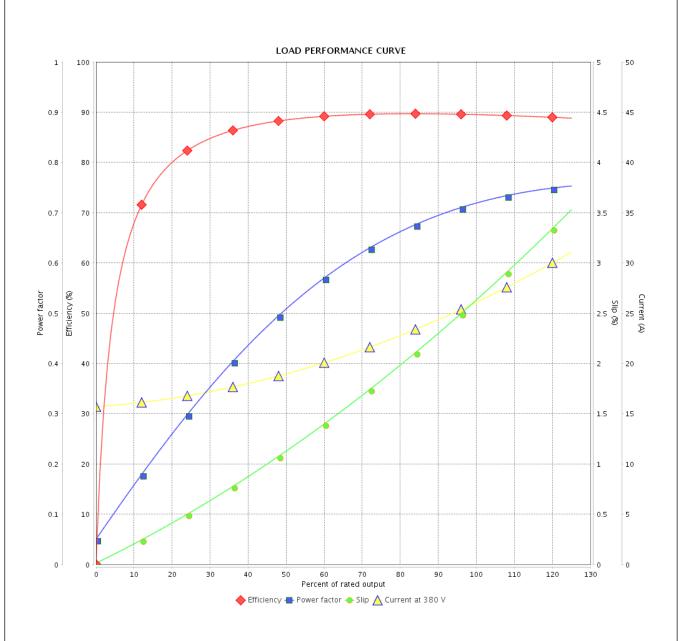
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14325516

Catalog #: 02009ST3QIE324TC-W22

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Performance	: 380 V 50 Hz 8P IE3			
Rated current : 26.5 A		Moment of inertia (J)	: 9.37 sq.ft.lb	
LRC Rated torque	: 5.0 : 108 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 730 rpm	Design	: B	
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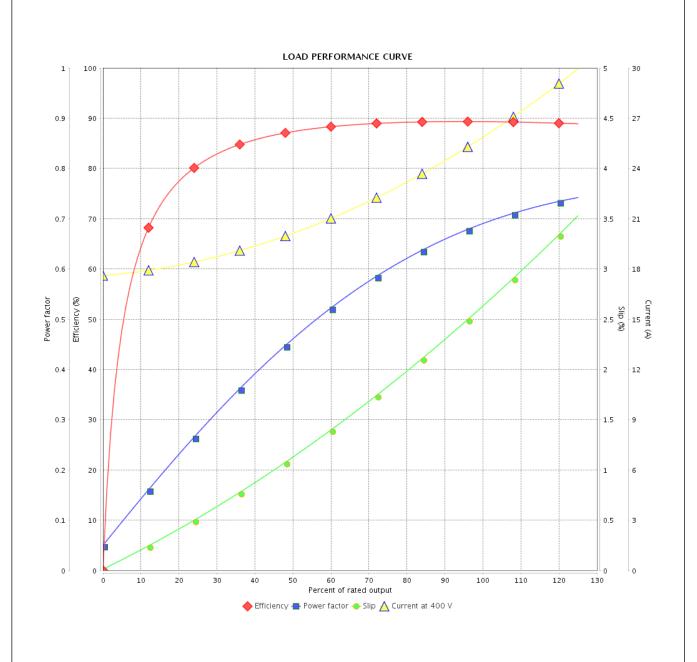
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 02009ST3QIE324TC-W22

14325516



Performance	: 4	: 400 V 50 Hz 8P IE3				
Rated current : 26.4 A		Moment o	f inertia (J)	: 9.37 sq.ft.lb		
LRC	: 5	.4	Duty cycle		: Cont.(S1)	
Rated torque	: 1	08 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 7	30 rpm	Design		: B	
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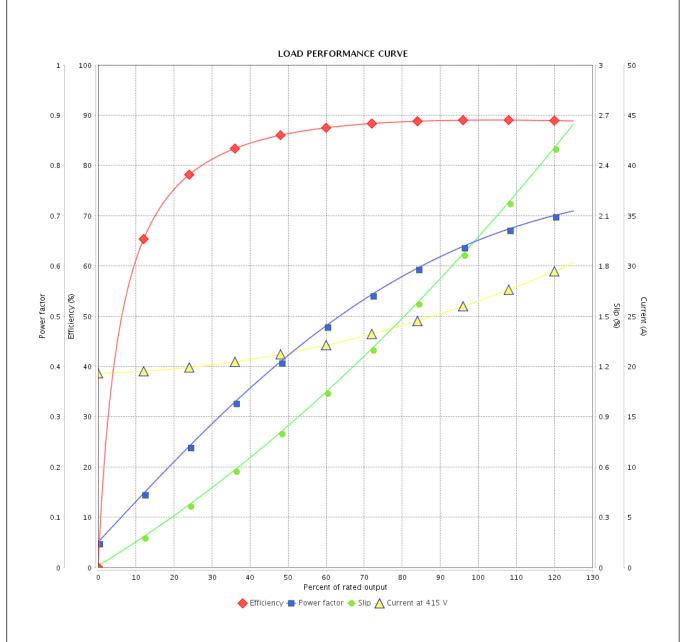
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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.1 A : 5.6 : 107 ft.lb : 240 % : 280 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

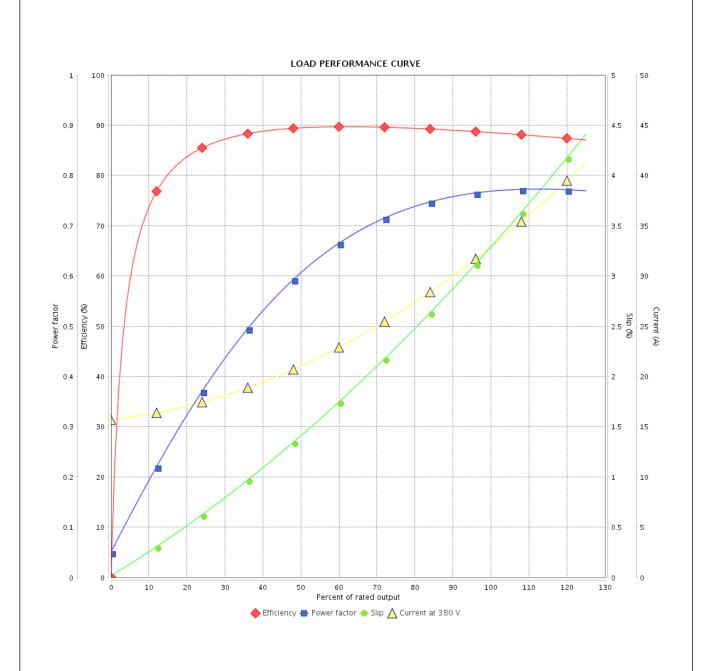


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



Performance	erformance : 380 V 50 Hz 8P IE2					
Rated current	: 3	3.4 A	Moment of inertia (J)		: 9.37 sq.ft.lb	
LRC	: 4	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	45 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	: 170 %		ıre rise	: 105 K	
Rated speed	: 7	25 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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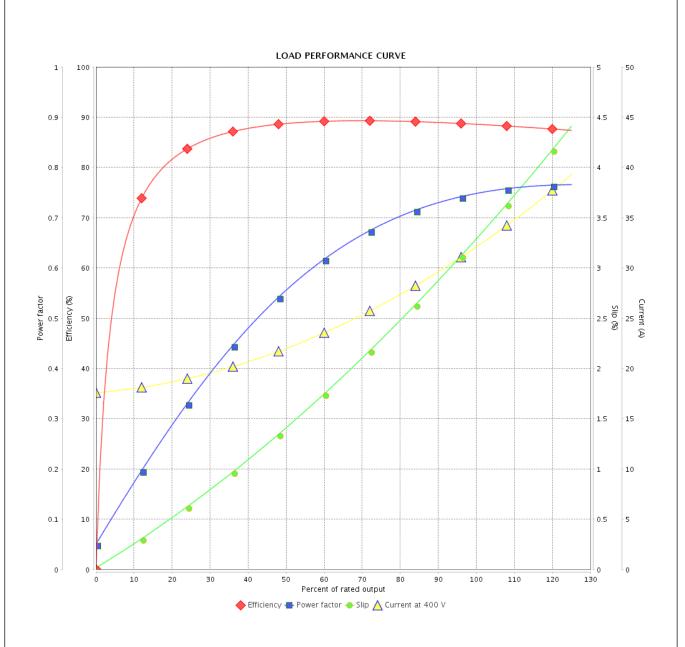
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Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 32.6 A : 4.4 : 145 ft.lb : 160 % : 190 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

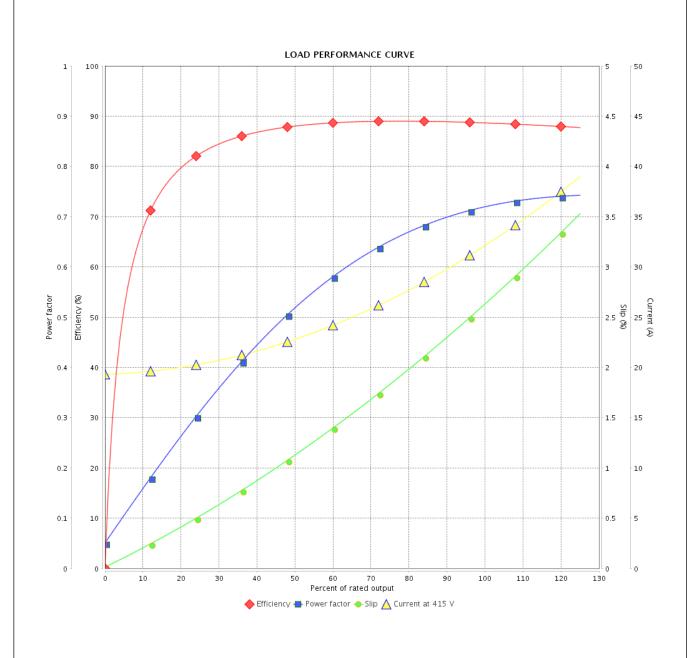


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Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



			,			
Performance : 415 V 50 Hz 8P IE2						
Rated current	: 3	32.7 A	Moment o	f inertia (J)	: 9.37 sq.ft.lb	
LRC	: 4	ł.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	44 ft.lb	Insulation	class	: F	
Locked rotor torque :		80 %	Service fa	ctor	: 1.15	
Breakdown torque	e :2			ıre rise	: 80 K	
Rated speed	: 7			Design		
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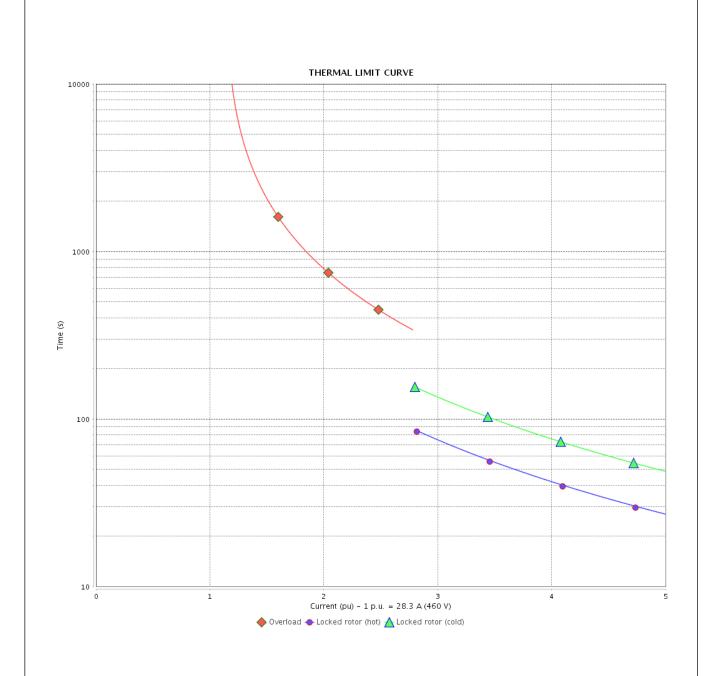


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14325516	
	P	hase	(Catalog # :	02009ST3QIE	324TC-W22
Performance	: 46	60 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu	: 5. : 11 ue : 19 ie : 22	19 ft.lb 90 % 20 %	Duty cycle Insulation Service far Temperatu	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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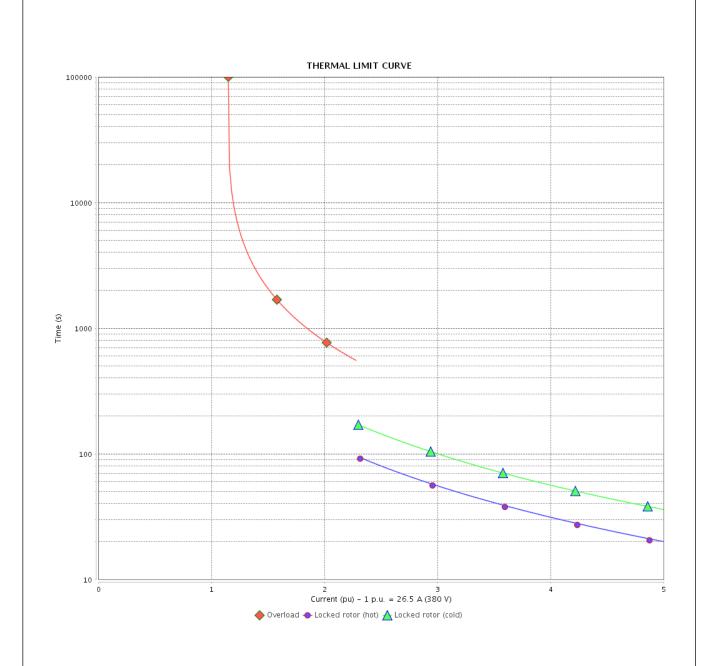


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	14325516 02009ST3QII	E324TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 380 V 50 Hz 8P IE3 : 26.5 A : 5.0 : 108 ft.lb : 190 % : 229 %	Moment of Duty cycle Insulation Service fa	class actor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant	: 730 rpm	Design	ui o 113G	: B	
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Three Phase Induction Motor - Squirrel Cage



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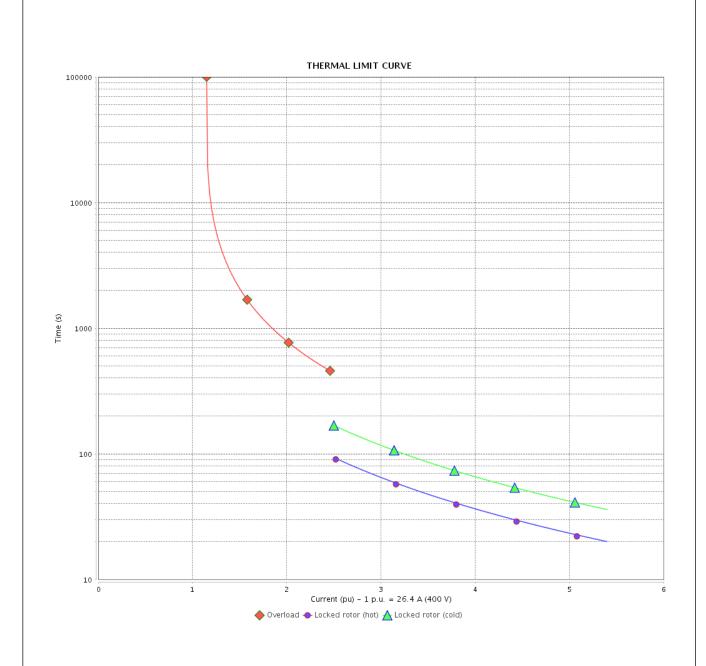


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14325516 02009ST3QIE	324TC-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current		: 26.4 A	Moment of	of inertia (J)	: 9.37 sq.ft.lb	
LRC Rated torque		: 5.4 : 108 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	que	: 210 %	Service fa		. г : 1.15	
Breakdown torqu Rated speed	ie :	: 260 % : 730 rpm	Temperat Design		: 80 K : B	
Heating constant		·				
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage

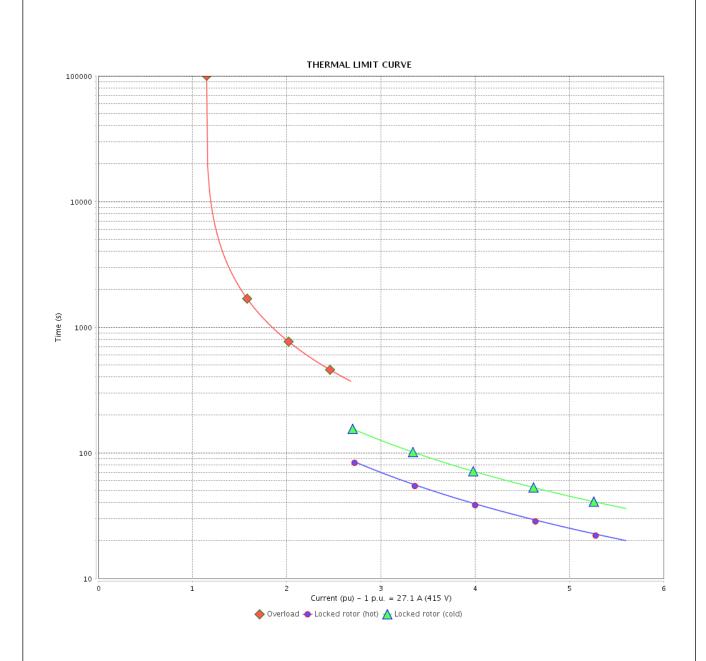


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14325516 02009ST3QIE	324TC-W22
Performance		: 415 V 50 Hz 8P IE3	N4	Charles (I)	0.07	
Rated current LRC		: 27.1 A : 5.6	Duty cycle		: 9.37 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 107 ft.lb : 240 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie	: 280 %	Temperat		: 80 K	
Rated speed		: 735 rpm	Design		: B	
Heating constan						
Cooling constant	t I	Changes Cummers		Dorform	Charles	Data
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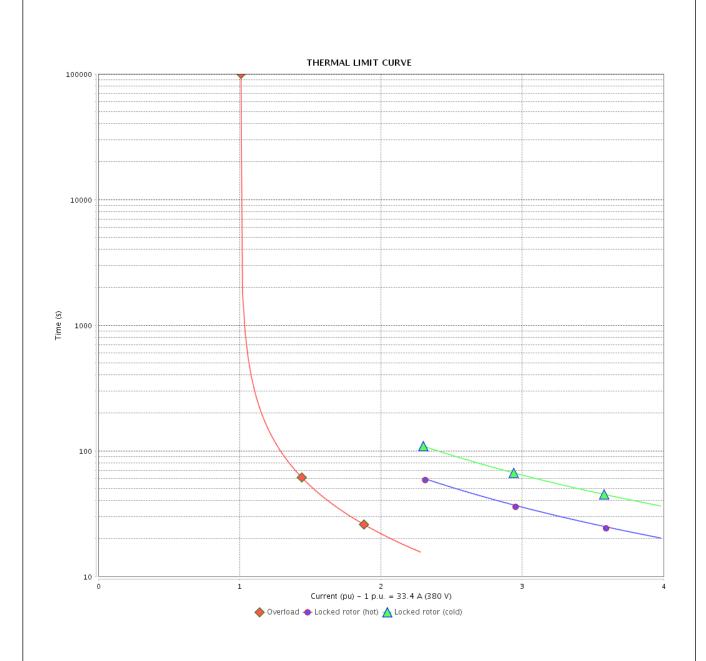


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	14325516	-004T0 M00
		(Catalog # :	02009ST3QII	E324TC-W22
Dorformano	· 200 \/ 50 Hz 0D IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 380 V 50 Hz 8P IE2 : 33.4 A : 4.0 : 145 ft.lb : 140 % : 170 % : 725 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

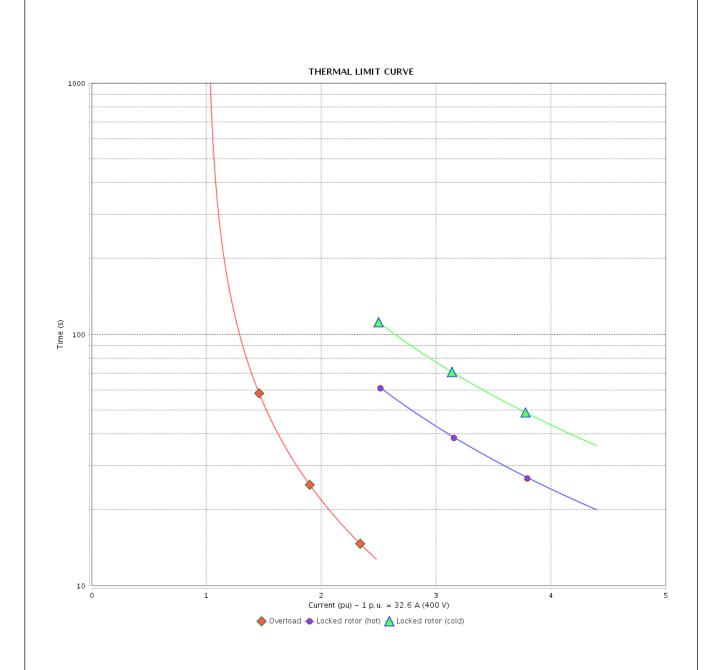


Customer	:		
Product line	: NEMA Premium Efficiency 1 Phase		14325516
		Catalog # :	02009ST3QIE324TC-W22
Performance	: 400 V 50 Hz 8P IE2		
Rated current	: 32.6 A	Moment of inertia (J)	: 9.37 sq.ft.lb
LRC	: 4.4	Duty cycle	: Cont.(S1)
Rated torque	: 145 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 160 % : 190 %	Service factor Temperature rise	: 1.15 : 105 K
Rated speed	: 725 rpm	Design	: B
Heating constant			
Cooling constant			
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Three Phase Induction Motor - Squirrel Cage



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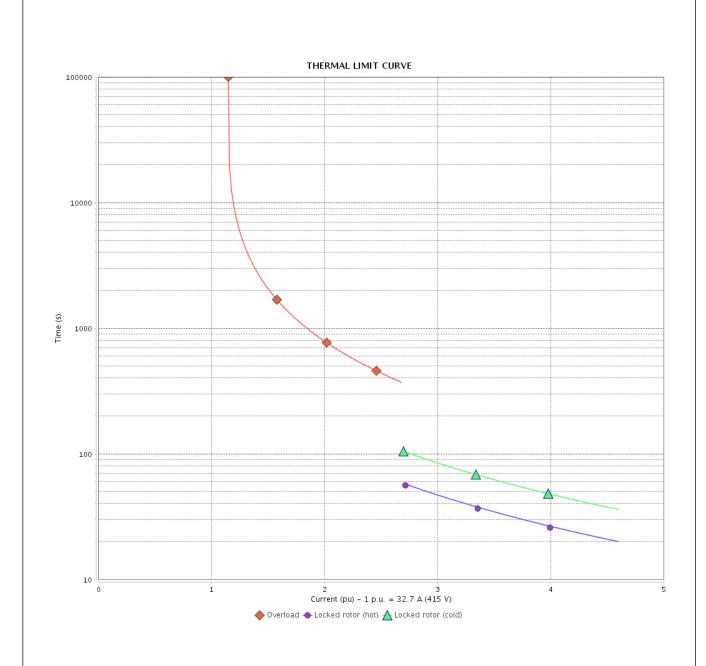


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	14325516	
	1 1	11430		Catalog # :	02009ST3QIE	324TC-W22
Dorformanaa	. 44	15 V 50 H= 9D IF2				
Performance Rated current		15 V 50 Hz 8P IE2 2.7 A	Moment o	f inertia (J)	: 9.37 sq.ft.lb	
LRC	: 4.	6	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		44 ft.lb 30 %	Insulation Service fa		: F : 1.15	
Breakdown torque Rated speed	e : 21	10 % 30 rpm	Temperatu Design	ıre rise	: 80 K : B	
			Design		. .	
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



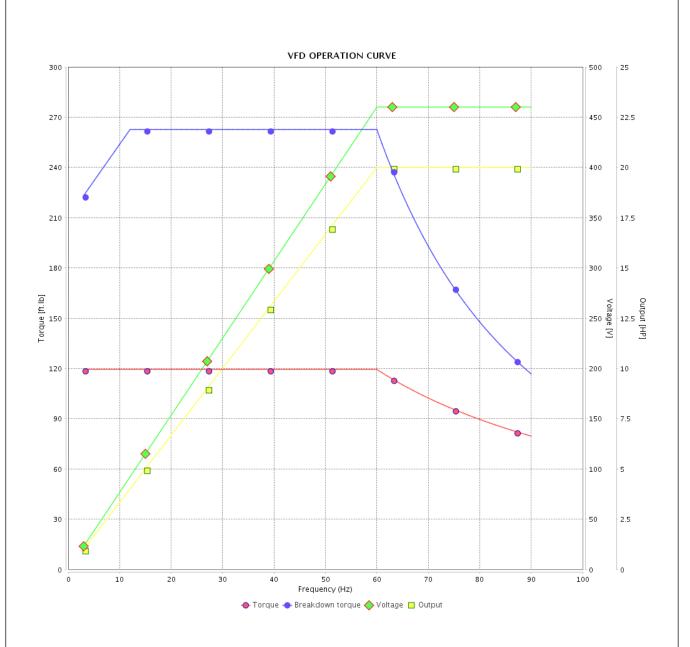
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14325516

Catalog #: 02009ST3QIE324TC-W22



Performance : 460 V 60 Hz 8P : 28.3 A Moment of inertia (J) : 9.37 sq.ft.lb Rated current **LRC** : Cont.(S1) : 5.0 Duty cycle : 119 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage

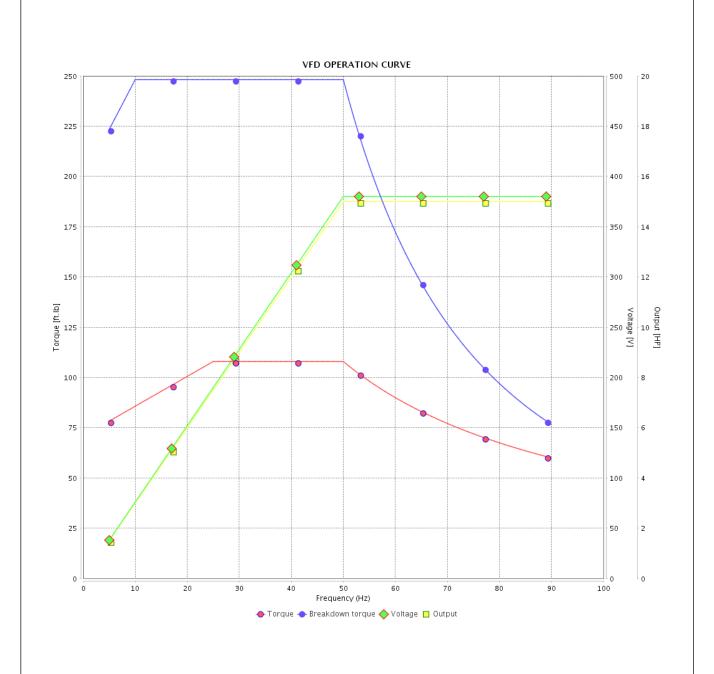


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



Performance	::	380 V 50 Hz 8P IE3				
Rated current	::	26.5 A	Moment o	f inertia (J)	: 9.37 sq.ft.lb	
LRC	: :	5.0	Duty cycle	}	: Cont.(S1)	
Rated torque	:	108 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	::	229 %	Temperature rise		: 80 K	
Rated speed	:	730 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

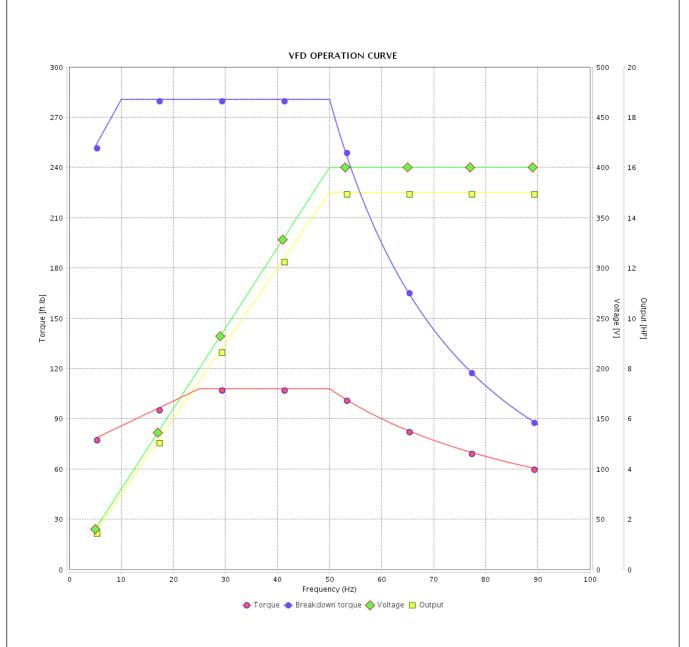
Product code: 14325516

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Performance	: 40	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 10 ue : 2°	: 5.4 : 108 ft.lb : 210 %		f inertia (J) e class ctor ure rise	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



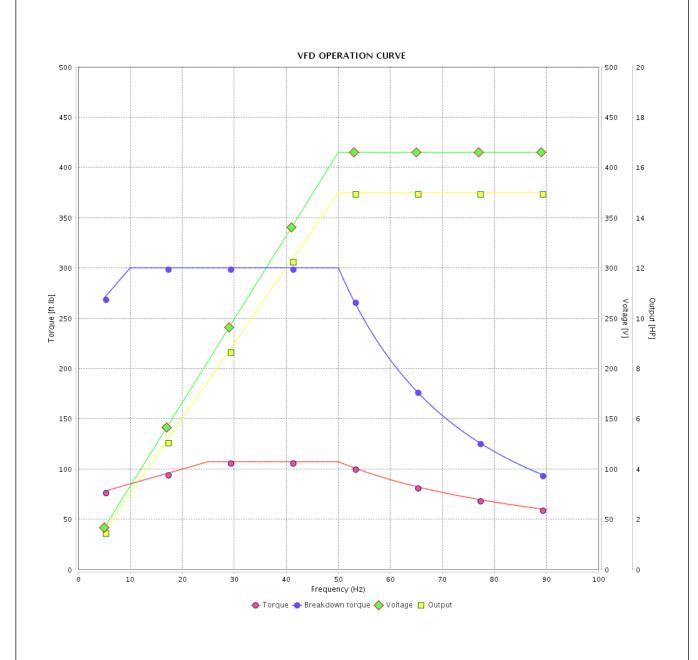
Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22

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Performance	: 415 V 50 Hz 8P IE3	: 415 V 50 Hz 8P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.1 A : 5.6 : 107 ft.lb : 240 % : 280 % : 735 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design)	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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Product line : NEMA Premium Efficiency Three- Prod

Phase

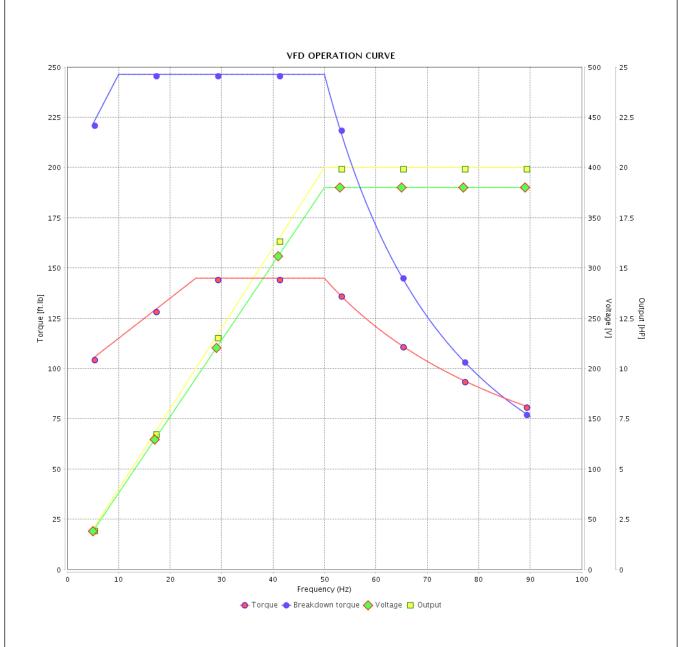
Product code: 14325516

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	1					
Performance	: 3	380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2 : 1 jue : 1	33.4 A 4.0 145 ft.lb 140 % 170 % 725 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

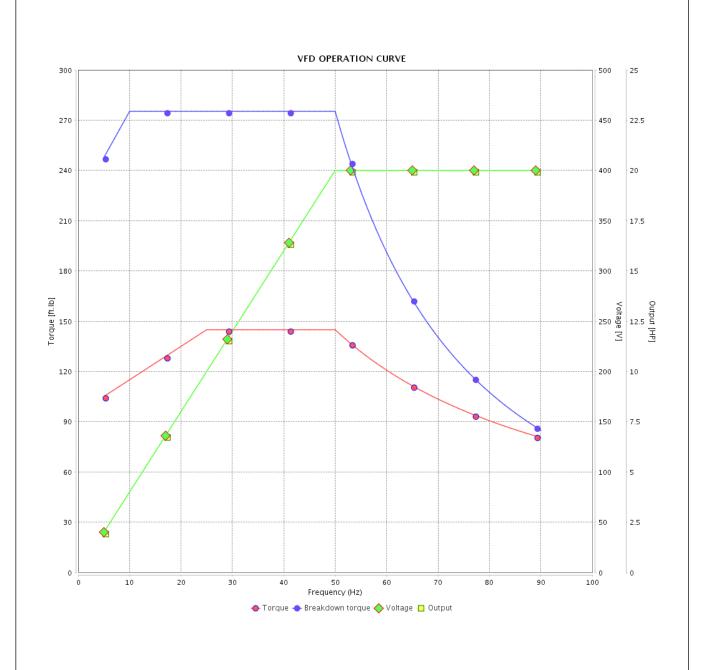


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Product line : NEMA Premium Efficiency Three- Product code : 14325516

Phase

Catalog #: 02009ST3QIE324TC-W22



Performance : 400 V 50 Hz 8P IE2							
Rated current		32.6 A	Moment of	Moment of inertia (J)			
LRC		4.4	Duty cycle		: Cont.(S1)		
Rated torque		: 145 ft.lb Insulatio		ı class	: F		
Locked rotor torque		160 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ie :	190 %	Temperat	Temperature rise			
Rated speed	:	25 rpm Design		: B			
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Customer :

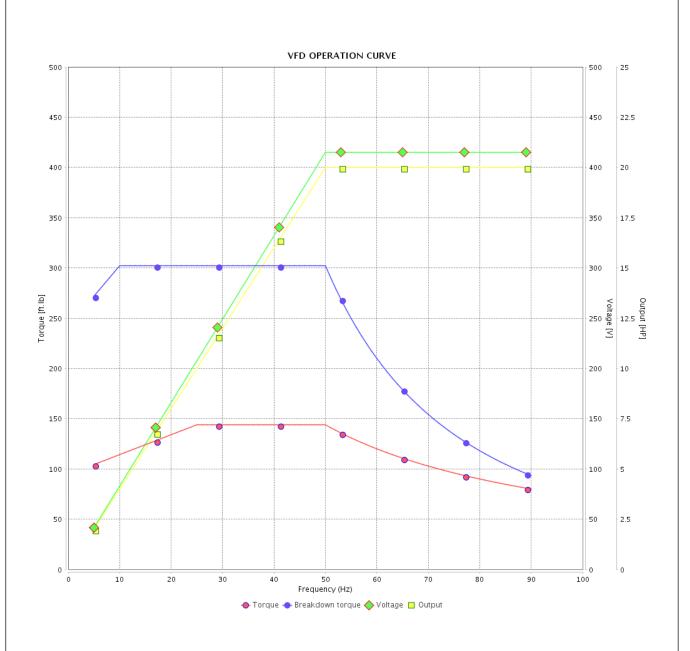
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14325516

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Performance		: 415 V 50 Hz 8P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		2.7 A 6 14 ft.lb 30 % 10 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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