DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11584358

Catalog #: 04009ST3QIE365T-W22

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

Insulation class 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 : 876 lb

Ailituue		. 1000 III.a.s.i. Approx. w						
Protection degree : IP55 Moment of inertia (J) : 29.0 sq.		9.0 sq.ft.lb						
Design		: B						
Output [HP]		40	30	30	30	40	40	40
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]		50.9	47.8	46.3	45.7	62.9	60.0	58.1
L. R. Amperes [A]		300	292	310	324	283	300	320
LRC [A]		5.9x(Code	6.1x(Code H)	6.7x(Code J)	7.1x(Code J)	4.5x(Code E)	5.0x(Code F)	5.5x(Code
		G)						G)
No load current [A]	21.5	20.7	22.2	23.4	20.7	22.2	23.4
Rated speed [RPN	/ 1]	882	735	736	737	725	727	730
Slip [%]		2.00	2.00	1.87	1.73	3.33	3.07	2.67
Rated torque [ft.lb]]	238	214	214	214	290	289	288
Locked rotor torqu	e [%]	170	600	210	229	140	160	170
Breakdown torque	[%]	210	240	270	300	180	200	210
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		46s (cold)	81s (cold)	52s (cold)	52s (cold)	32s (cold)	32s (cold)	32s (cold)
		26s (hot)	45s (hot)	29s (hot)	29s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%							
Efficiency (%)	50%	92.4	91.5	91.5	90.9	91.7	91.7	91.7
Efficiency (70)	75%	93.0	91.6	91.9	91.8	91.0	91.7	91.7
	100%	92.4	90.9	91.5	91.7	89.5	90.2	91.0
	25%							
Power Factor	50%	0.65	0.60	0.55	0.52	0.70	0.66	0.62
Fower Factor	75%	0.75	0.71	0.68	0.65	0.78	0.76	0.74
	100%	0.80	0.77	0.75	0.73	0.81	0.80	0.79

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6314 C3 Max. traction : 1630 lb Sealing Inpro/Seal Inpro/Seal : 2507 lb Max. compression

20000 h Lubrication interval 20000 h Lubricant amount 27 g 27 g

Mobil Polyrex EM Lubricant type

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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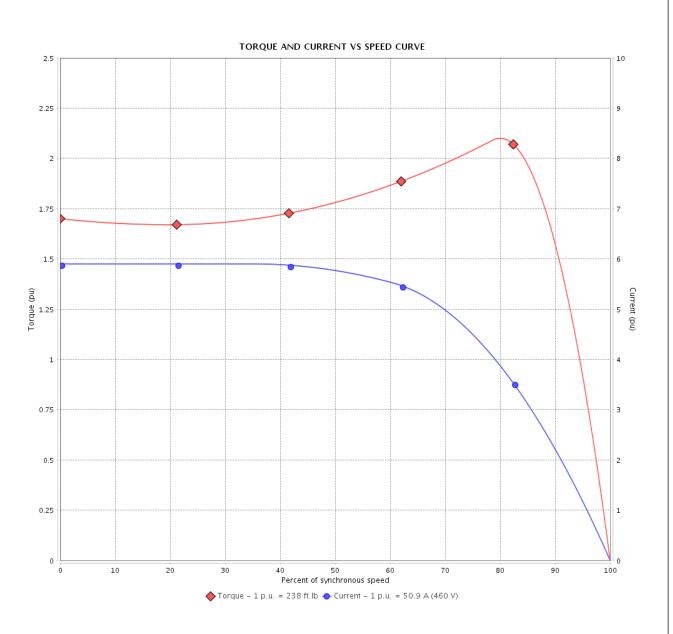


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

Catalog #: 04009ST3QIE365T-W22



Performance	: 460 V 60 Hz 8P			
Rated current LRC	: 50.9 A : 5.9	Moment of inertia (J) Duty cycle	: 29.0 sq.ft.lb : Cont.(S1)	
Rated torque	: 238 ft.lb	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 210 %	Temperature rise Design	: 80 K : B	
Rateu speeu	: 882 rpm	Design	. Б	
Locked rotor time	· 46s (cold) 26s (hot)			

Locked rotor time : 46s (cold) 26s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11584358 Catalog #: 04009ST3QIE365T-W22 TORQUE AND CURRENT VS SPEED CURVE Current Torque (pu) 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 214 ft.lb ◆ Current - 1 p.u. = 47.8 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 47.8 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F : 600 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 735 rpm Design : B Locked rotor time : 81s (cold) 45s (hot) Rev. Performed Checked Date **Changes Summary**

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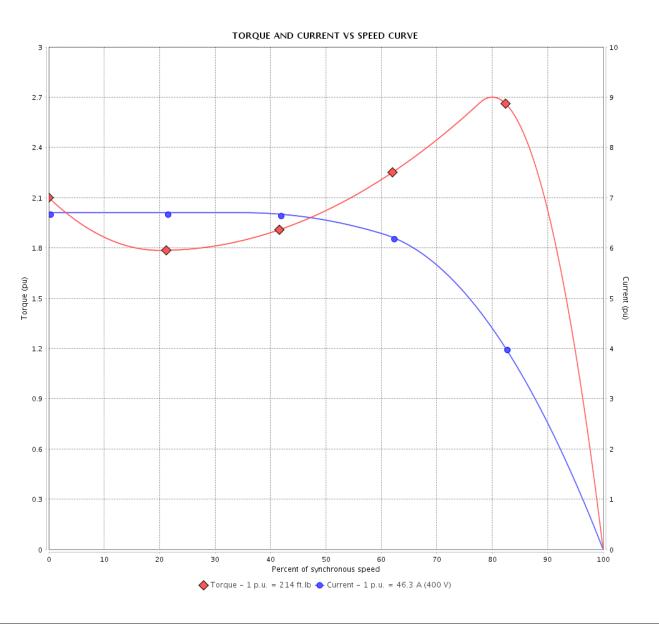
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584358

Catalog #: 04009ST3QIE365T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 46.3 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 736 rpm	Design	: B
Locked roter time	: 52s (cold) 20s (bot)		

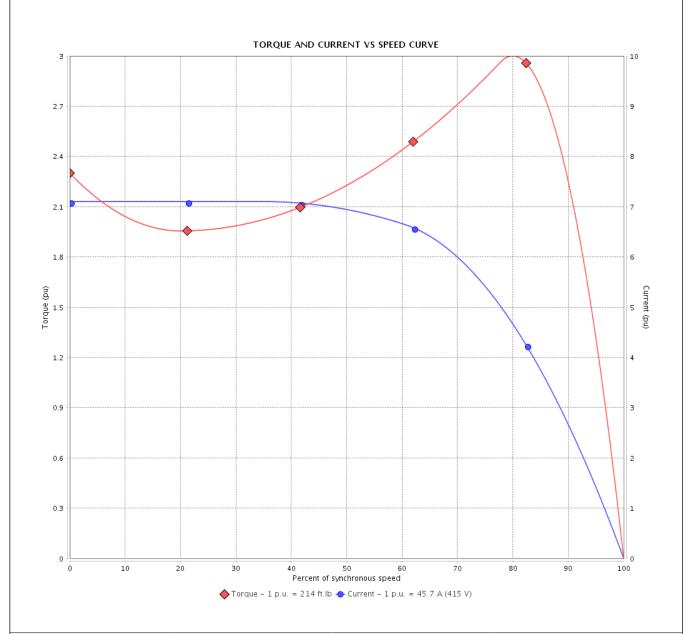
Locked rotor time : 52s (cold) 29s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11584358 Catalog #: 04009ST3QIE365T-W22



Performance	: 415 V 50 Hz 8P IE3		
Rated current	: 45.7 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 737 rpm	Design	: B
Locked rotor time	: 52s (cold) 29s (hot)	(

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11584358 04009ST3QIE365T-W22 Catalog #: TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Current 2.5 Torque (pu) ng U 0.8 0.4 0.5 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 290 ft.lb ◆ Current - 1 p.u. = 62.9 A (380 V) Performance : 380 V 50 Hz 8P IE1 Rated current : 62.9 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 4.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 290 ft.lb : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 725 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Checked Rev. Performed **Changes Summary** Date Performed by

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11584358 Catalog #: 04009ST3QIE365T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (bd) 1.25 Current 0.5 0.25 Percent of synchronous speed

Performance : 400 V 50 Hz 8P IE2 Rated current : 60.0 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 289 ft.lb Insulation class : F Rated torque : 160 % : 1.00 Locked rotor torque Service factor Breakdown torque : 200 % Temperature rise : 105 K : B Rated speed : 727 rpm Design

◆Torque - 1 p.u. = 289 ft.lb ◆ Current - 1 p.u. = 60.0 A (400 V)

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

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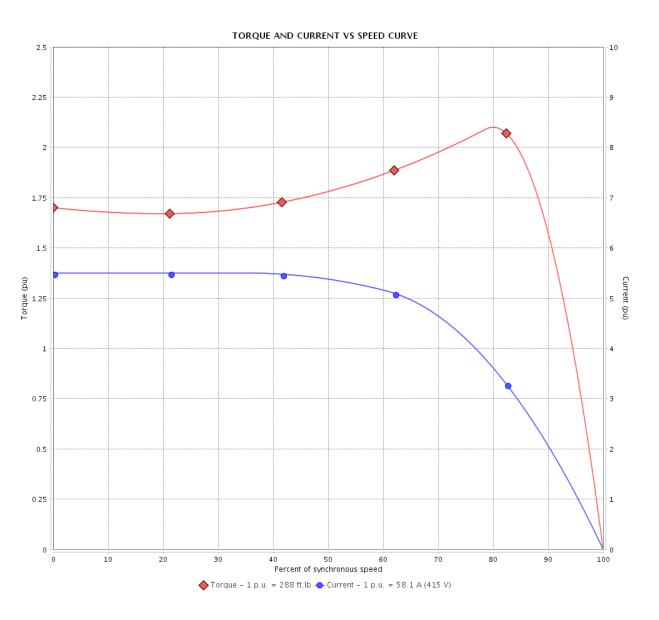


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

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Performance	: 415 V 50 Hz 8P IE2		
Rated current	: 58.1 A	Moment of inertia (J)	: 29.0 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 288 ft.lb	Insulation class	:F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 730 rpm	Design	: B

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

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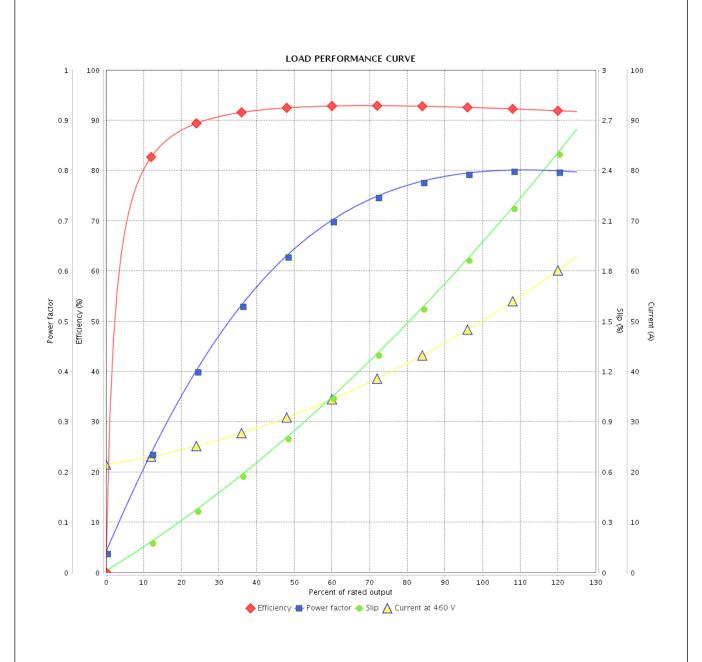


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

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D	. 4	00 \ / 00 LI= 0D				
Performance		60 V 60 Hz 8P				
Rated current	: 5	0.9 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 5	.9	Duty cycle	:	: Cont.(S1)	
Rated torque	: 2	38 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service factor		: 1.25	
Breakdown torque	: 2	10 %	Temperature rise		: 80 K	
Rated speed	: 8	882 rpm Design			: B	
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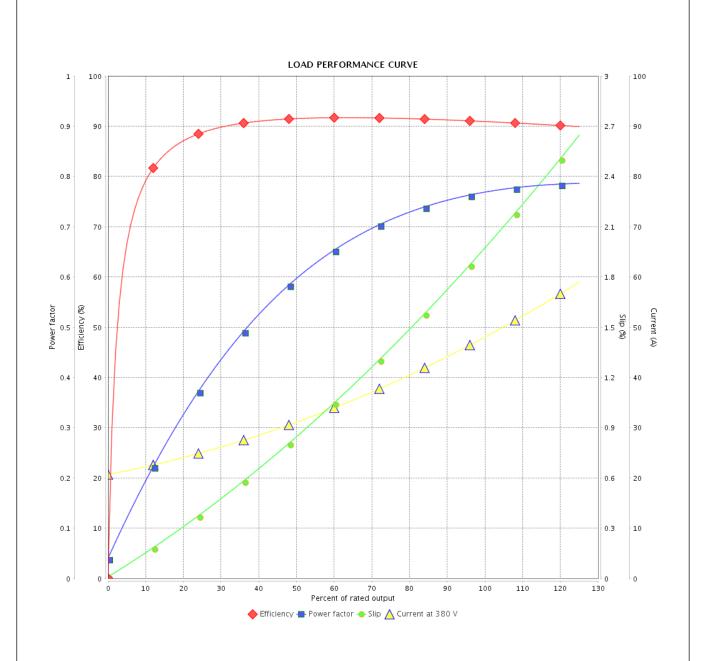
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Performance	: 380 V 50 Hz 8	SP IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.8 A : 6.1 : 214 ft.lb : 600 % : 240 % : 735 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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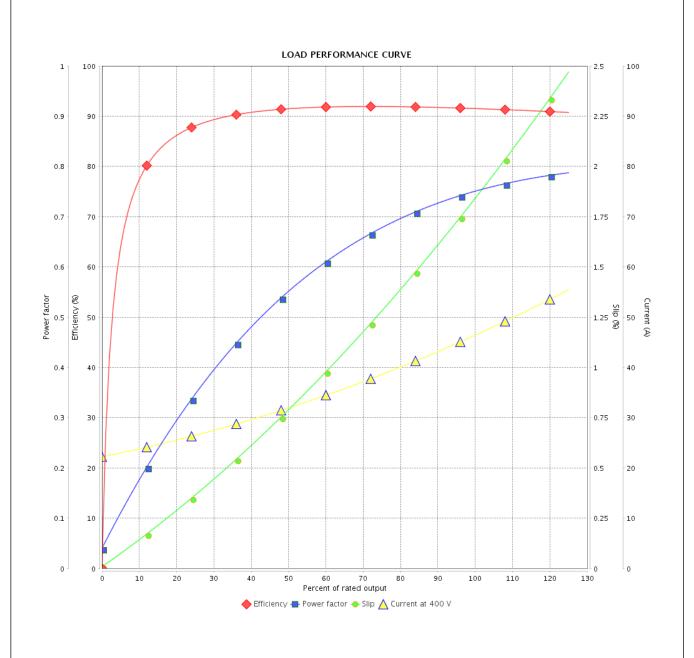


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Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

Catalog #: 04009ST3QIE365T-W22



Performance	Performance : 400 V 50 Hz 8P IE3					
Rated current	: 4	16.3 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 6	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation	class	: F	
Locked rotor torque		210 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	270 %	Temperature rise		: 80 K	
Rated speed	: 7	: 736 rpm		Design		
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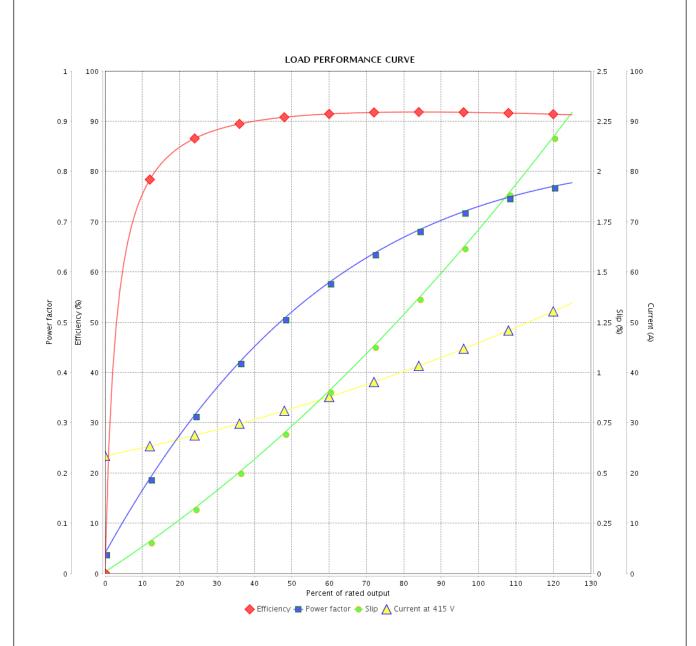
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Phase

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				1			
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	: 45.7 A : 7.1 : 214 ft.lb : 229 % : 300 % : 737 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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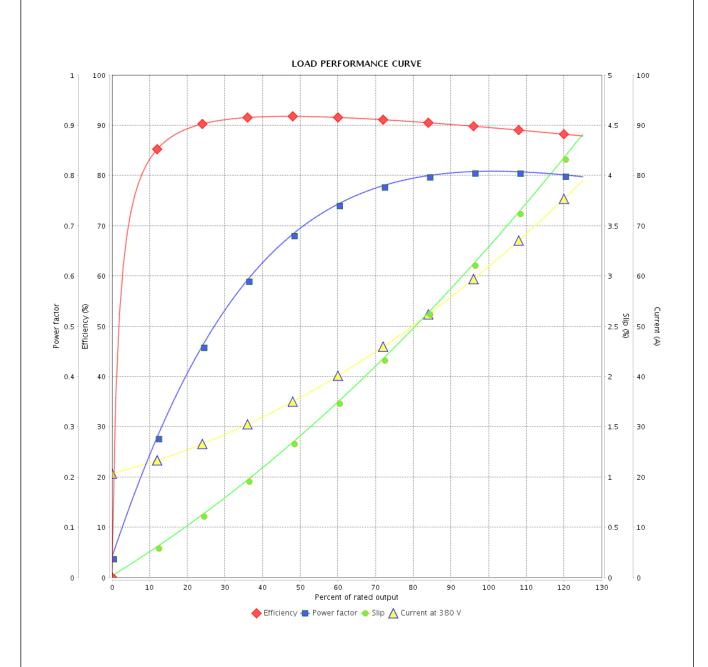
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Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

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Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 62.9 A : 4.5 : 290 ft.lb : 140 % : 180 % : 725 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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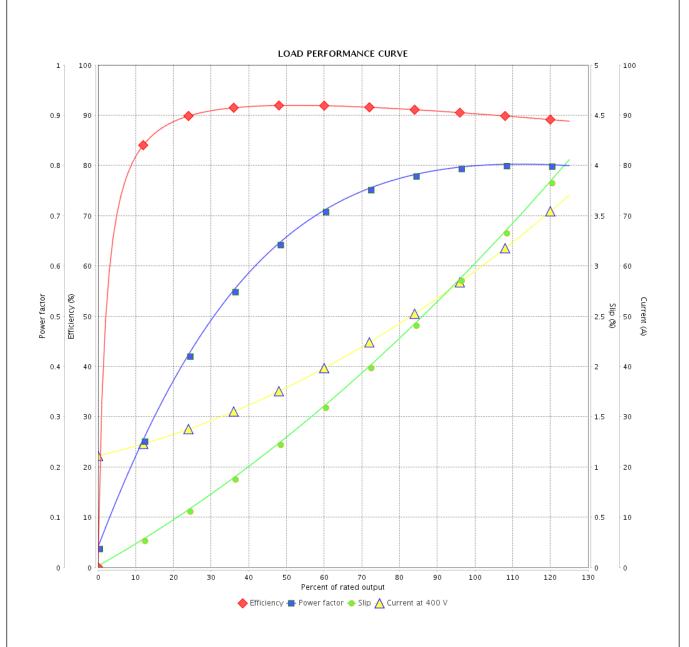
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Phase

Product code: 11584358

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Performance	: 400 V 50 Hz 8P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 60.0 A : 5.0 : 289 ft.lb : 160 % : 200 % : 727 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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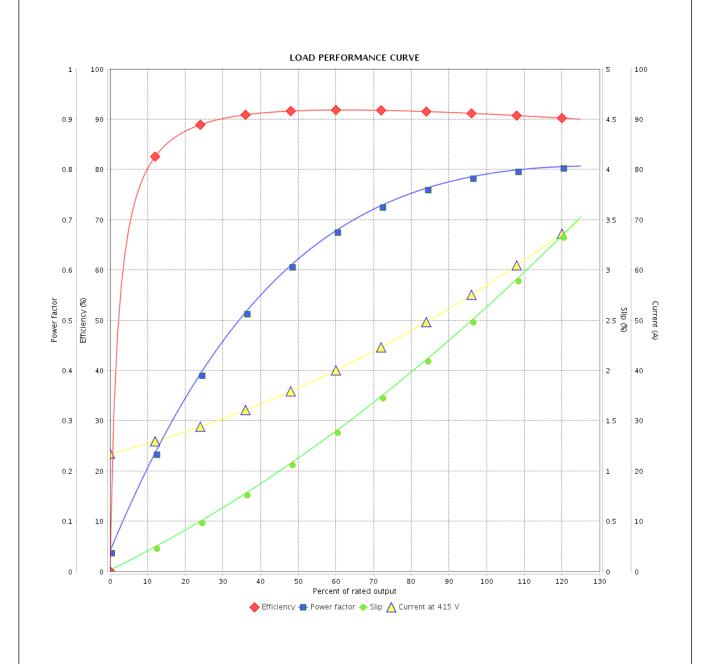


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Product line : NEMA Premium Efficiency Three- Product code : 11584358

Phase

Catalog #: 04009ST3QIE365T-W22



Performance	: 4	15 V 50 Hz 8P IE2				
Rated current	: 5	68.1 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 5	5.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	88 ft.lb	Insulation		: F ` ´	
Locked rotor torque	e :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperati	Temperature rise		
Rated speed	: 7	: 730 rpm De			: B	
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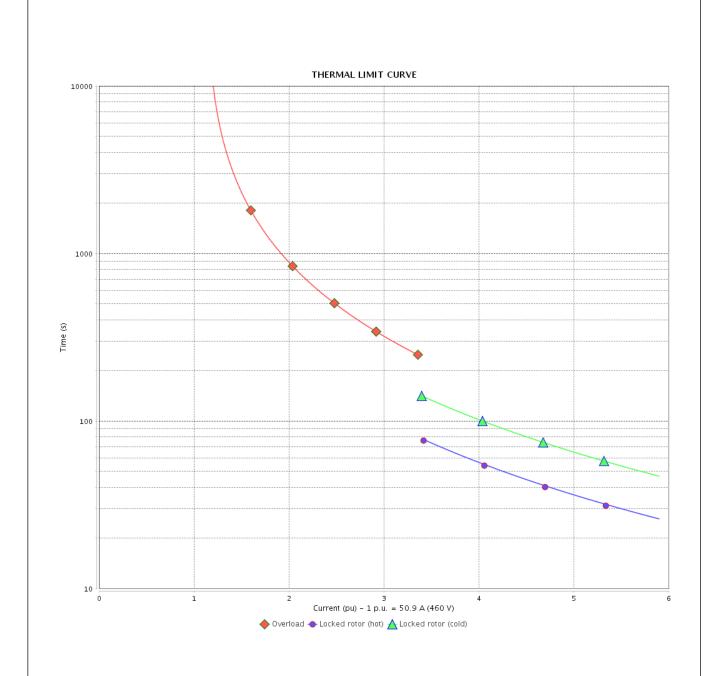


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584358 04009ST3QIE	365T-W22
Performance		: 460 V 60 Hz 8P				
Rated current		: 50.9 A	Moment of	of inertia (J)	: 29.0 sq.ft.lb	
LRC		: 5.9	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 238 ft.lb : 170 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 210 %	Temperat		: 80 K	
Rated speed		: 882 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Commercial		Doufour	Charles	Data
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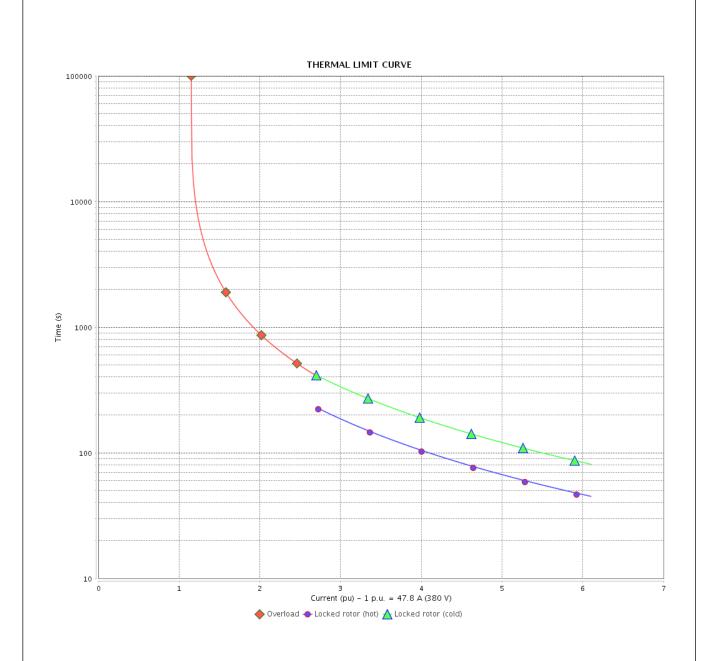


				
Customer	:			
Product line	: NEMA Premium Efficiency ⁻ Phase	Three- Product code : Catalog # :	11584358 04009ST3QIE36	65T-W22
D (000 V 50 U 0D 150			
Performance Rated current	: 380 V 50 Hz 8P IE3 : 47.8 A	Moment of inertia (J)	: 29.0 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 214 ft.lb : 600 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 735 rpm	Design	: B	
Heating constant				
Cooling constant	01-		Obs. I	Det
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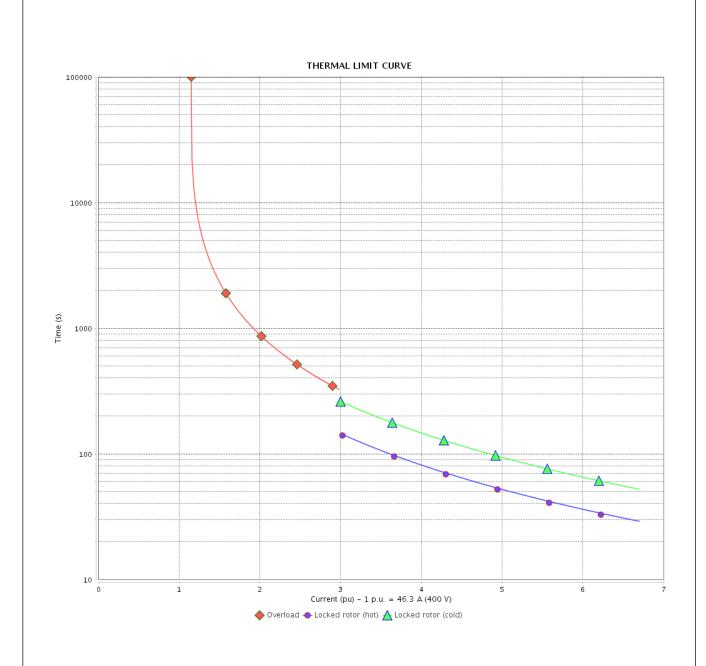


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Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	11584358	
		11436		Catalog # :	04009ST3QIE	365T-W22
Performance Rated current		00 V 50 Hz 8P IE3 6.3 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 6.	7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torqu		14 ft.lb 10 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 27	70 %	Temperatu		: 80 K	
Rated speed	: 73	36 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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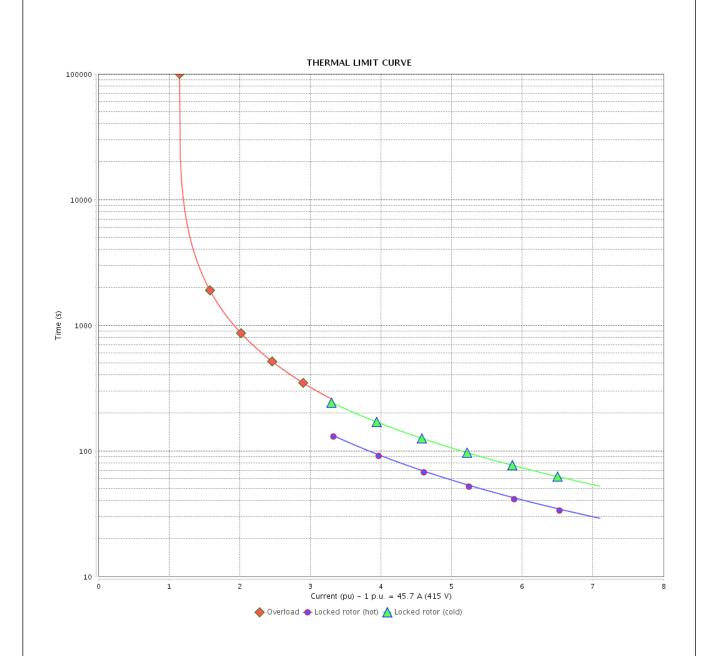


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584358 04009ST3QIE	:365T-W22
				-		
Performance		: 415 V 50 Hz 8P IE3				
Rated current		: 45.7 A	Moment o	of inertia (J)	: 29.0 sq.ft.lb	
LRC Rated torque		: 7.1 : 214 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 229 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 300 % : 737 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant	t					
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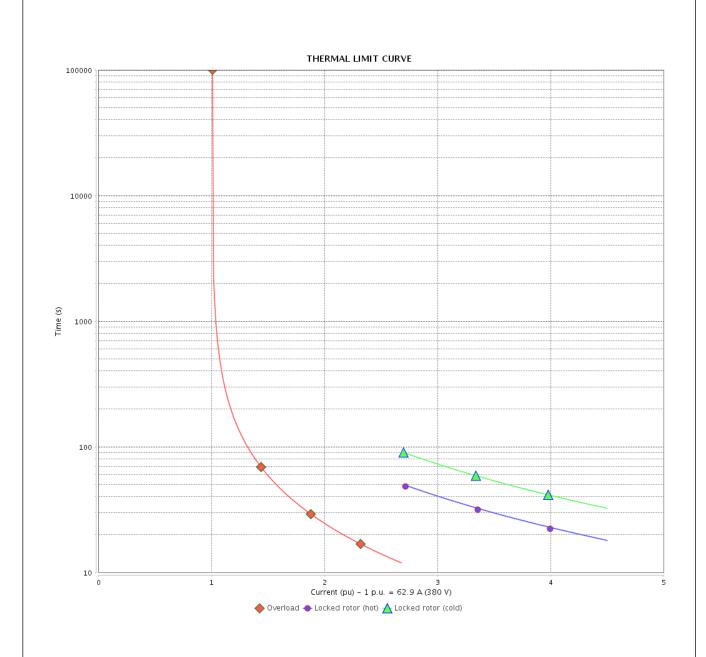


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584358 04009ST3QIE	365T-W22
Performance		: 380 V 50 Hz 8P IE1				
Rated current LRC		: 62.9 A : 4.5	Moment of Duty cycle	of inertia (J)	: 29.0 sq.ft.lb : Cont.(S1)	
Rated torque		: 290 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 140 % : 180 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 725 rpm	Design	uro noc	: B	
Heating constan						
Cooling constant	t					
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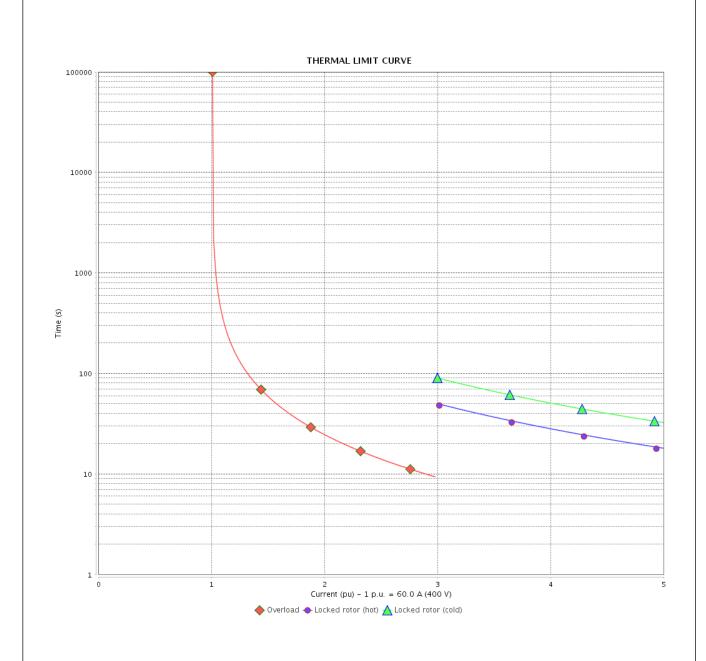


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584358 04009ST3QIE	365T-W22
Performance		: 400 V 50 Hz 8P IE2				
Rated current LRC		: 60.0 A : 5.0	Moment of	of inertia (J)	: 29.0 sq.ft.lb : Cont.(S1)	
Rated torque		: 289 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 200 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 727 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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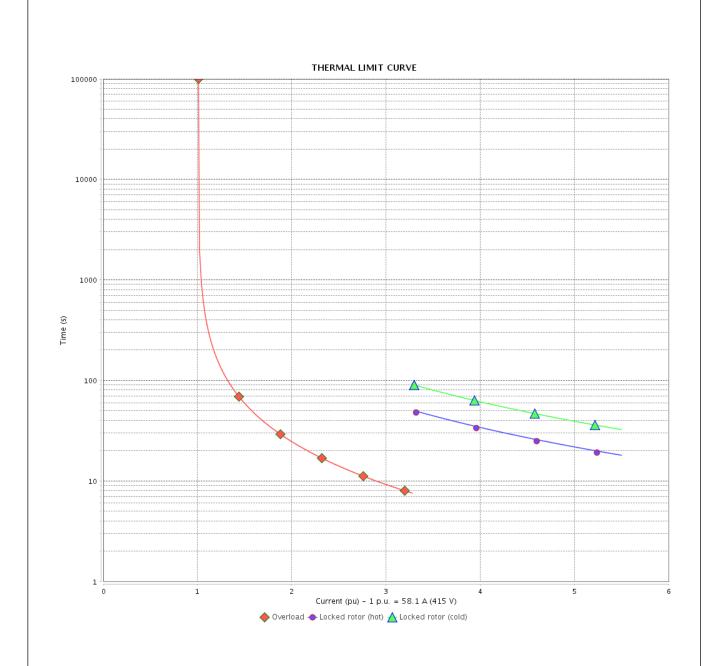


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584358 04009ST3QIE	365T-W22
Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque		: 58.1 A : 5.5 : 288 ft.lb	Duty cycle Insulation	class	: 29.0 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 730 rpm	Design		: B	
Heating constan Cooling constan						
Rev.		Changes Summary	<u> </u>	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Checked by

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13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

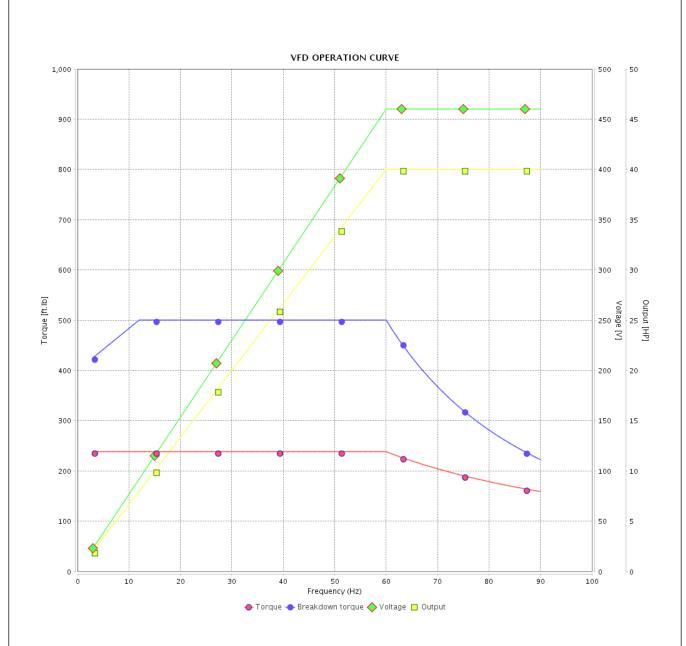
Catalog #: 04009ST3QIE365T-W22

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Performance : 460 V 60 Hz 8P Rated current : 50.9 A Moment of inertia (J) : 29.0 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 238 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 882 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

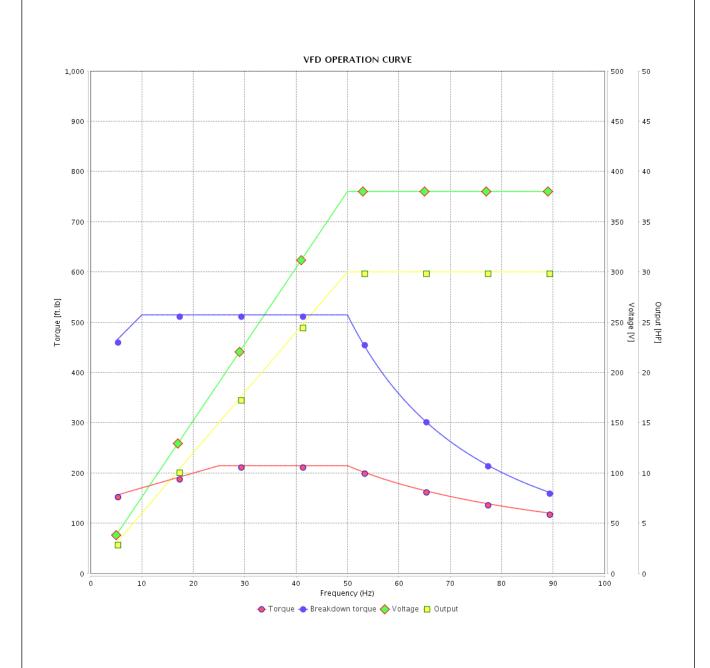
Catalog #: 04009ST3QIE365T-W22

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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.8 A : 6.1 : 214 ft.lb : 600 % : 240 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

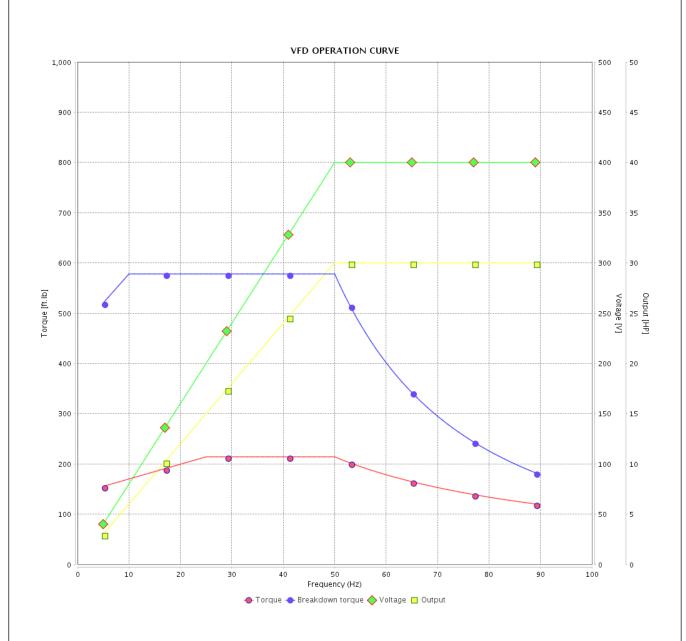
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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	·				
Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque	: 6.7 Duty cycle Insulation class		Duty cycle : Cont.(S1) Insulation class : F		
Locked rotor torque Breakdown torque Rated speed		Service factor Temperature rise Design		: 1.00 : 80 K : B	
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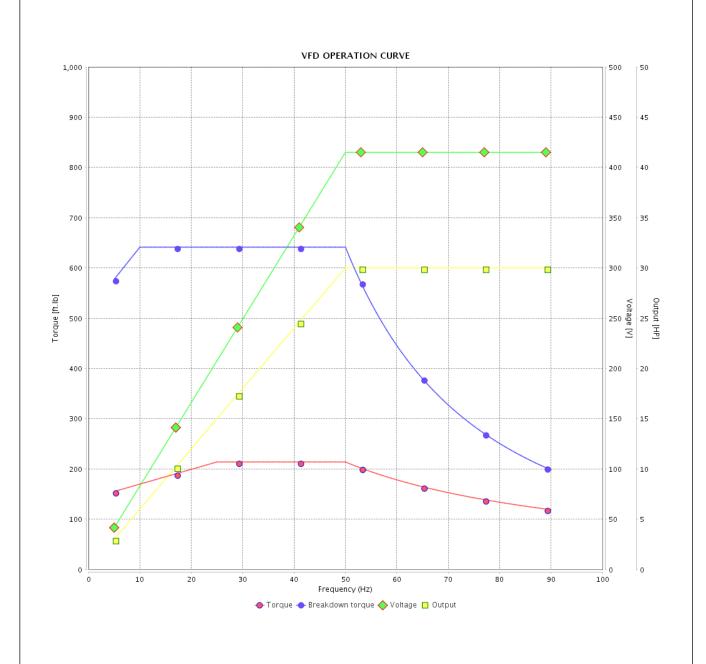
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11584358

Catalog #: 04009ST3QIE365T-W22



Performance	: 4	15 V 50 Hz 8P IE3	3			
Rated current	: 4	: 45.7 A Moment of in		of inertia (J)	: 29.0 sq.ft.lb	
LRC	: 7.	.1	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torg	ue : 2:	29 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 30	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 73	37 rpm	Design		: B	
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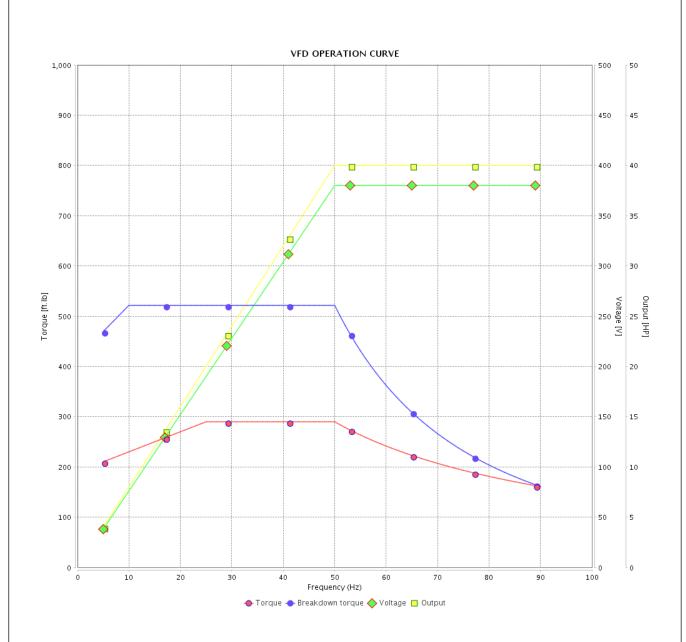
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11584358

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	<u> </u>				
Performance	: 380 V 50 Hz 8P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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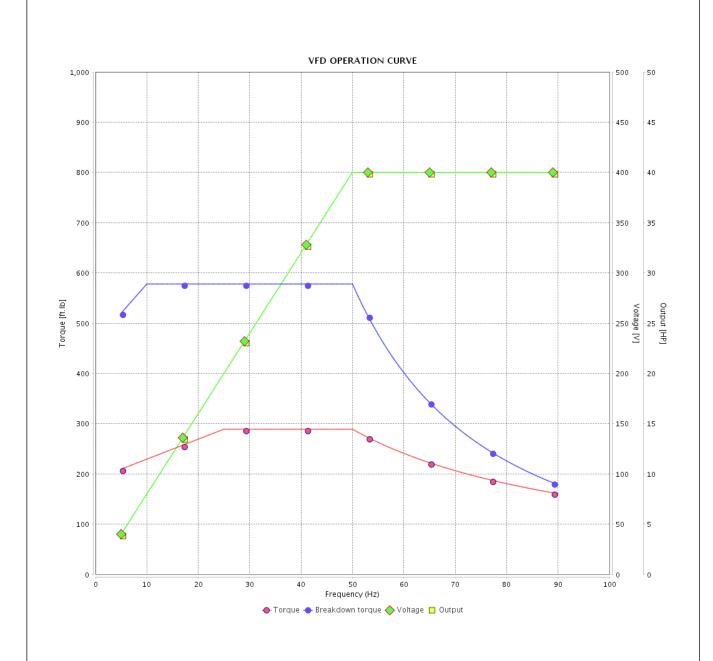
Customer

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11584358

Catalog #: 04009ST3QIE365T-W22



Performance	:	400 V 50 Hz 8P IE2				
Rated current	:	60.0 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	:	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	289 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	160 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	200 %	Temperati	ure rise	: 105 K	
Rated speed	:	727 rpm	Design		: B	
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Customer :

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Product line : NEMA Premium Efficiency Three- F

Phase

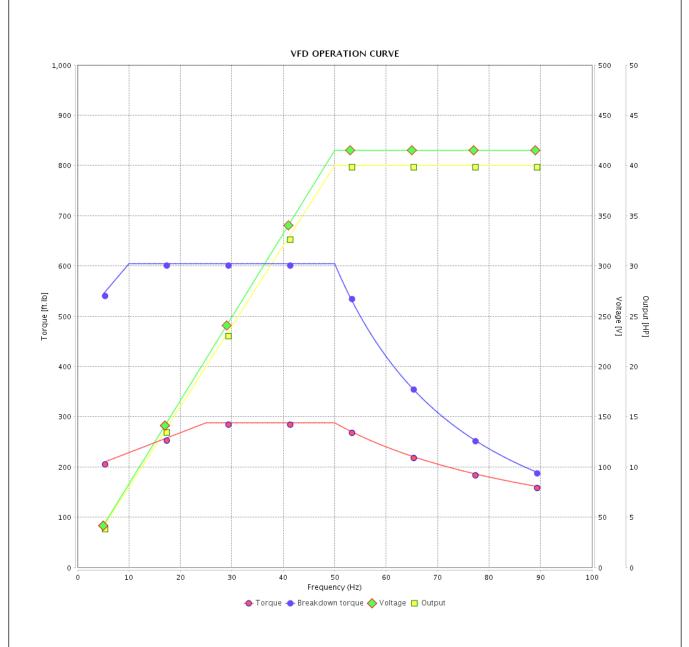
Product code: 11584358

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Performance	:	415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	58.1 A 5.5 288 ft.lb 170 % 210 % 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary			Performed	Checked	Date
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