DATA SHEET

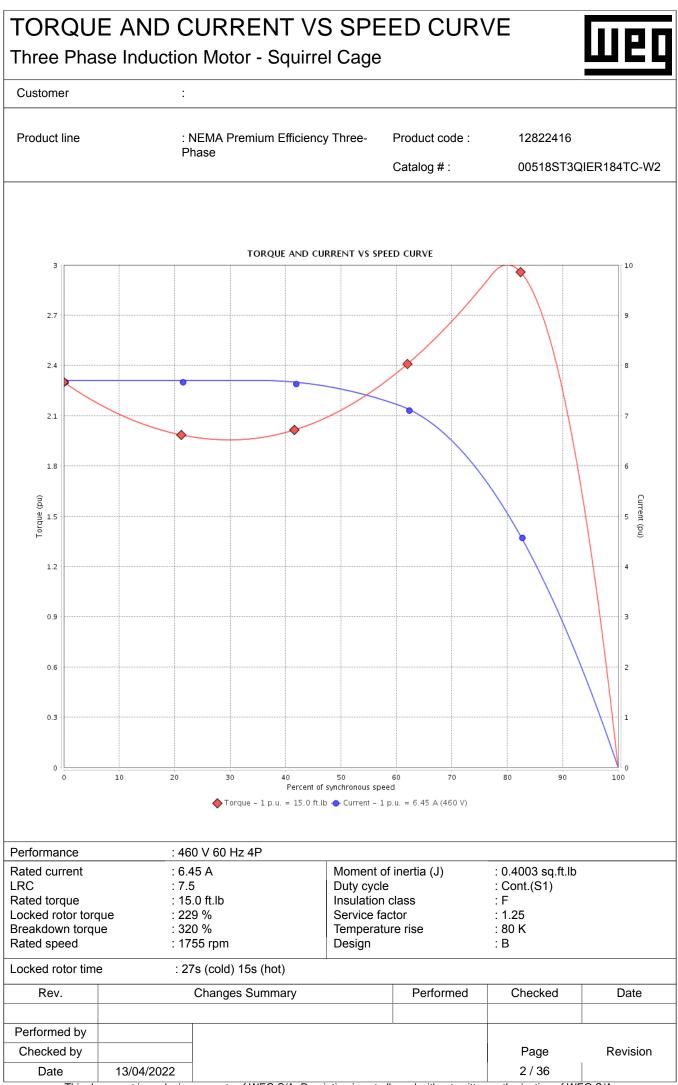
Three Phase Induction Motor - Squirrel Cage

:

Customer

Product line		: NEMA Pre Phase	mium Efficien	cy T	hree-	Product code		2822416	
						Catalog # :	00)518ST3QIEF	184TC-W2
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 184TC : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B			Mounti Rotatio Starting Approx		: \ : : : /	C411 - TEFC W-6 Both (CW and Direct On Line 113 lb 0.4003 sq.ft.lb	;
Output [HP]		5	4		4	4	5	5	5
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]		6.45	6.42		6.13	6.14	7.74	7.44	7.35
L. R. Amperes [A]		48.4	44.9		47.2	50.4	44.9	47.6	50.7
LRC [A]		7.5x(Code J)	7.0x(Code J)	7.7x	(Code K)	8.2x(Code K)	5.8x(Code G)	6.4x(Code H)6.9x(Code J
No load current [A	1	3.20	3.15		3.45	3.70	3.15	3.45	3.70
Rated speed [RPN		1755	1455		3.45 1455	1460	1440	1445	1450
Slip [%]	1	2.50	3.00		3.00	2.67	4.00	3.67	3.33
Rated torque [ft.lb]	1	15.0	14.4		3.00 14.4	14.4	18.3	18.2	18.1
Locked rotor torqu		229	229		260	290	18.5	210	229
Breakdown torque		320	300		350	380	240	280	300
Service factor	. [, 9]	1.25	1.15		1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K		80 K	80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	21s (cold) 12s (hot)	21:	s (cold) s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		56.0 dB(A)	56.0 dB(A)		0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	88.2	87.7		86.4	86.2	89.2	88.0	88.1
Efficiency (%)	50%	88.5	87.5		86.7	86.5	88.5	87.5	87.5
	75%	89.5	88.2		88.2	88.2	87.5	88.5	88.5
	100%	89.5	87.7		88.2	88.2	86.5	87.5	87.5
	25%	0.37	0.37		0.33	0.30	0.43	0.39	0.36
	50%	0.62	0.61		0.57	0.53	0.69	0.65	0.60
Power Factor	75%	0.74	0.75		0.71	0.67	0.80	0.00	0.74
	100%	0.80	0.81		0.79	0.76	0.84	0.82	0.80
	10070				_	tion loads	0.04	0.02	0.00
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end 6207 C3 Inpro/Sea 20000 h 7 g Mobi	3 6206 (al Inpro/S	C3 eal	Max. tra			91 lb 04 lb	
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. otor from the Im and with t veight subject ocess.	e shaft end. tolerance of +3	8dB(A).	I		are average va supply, subject			
Rev.		Changes	Summary			Performe	d Ch	ecked	Date
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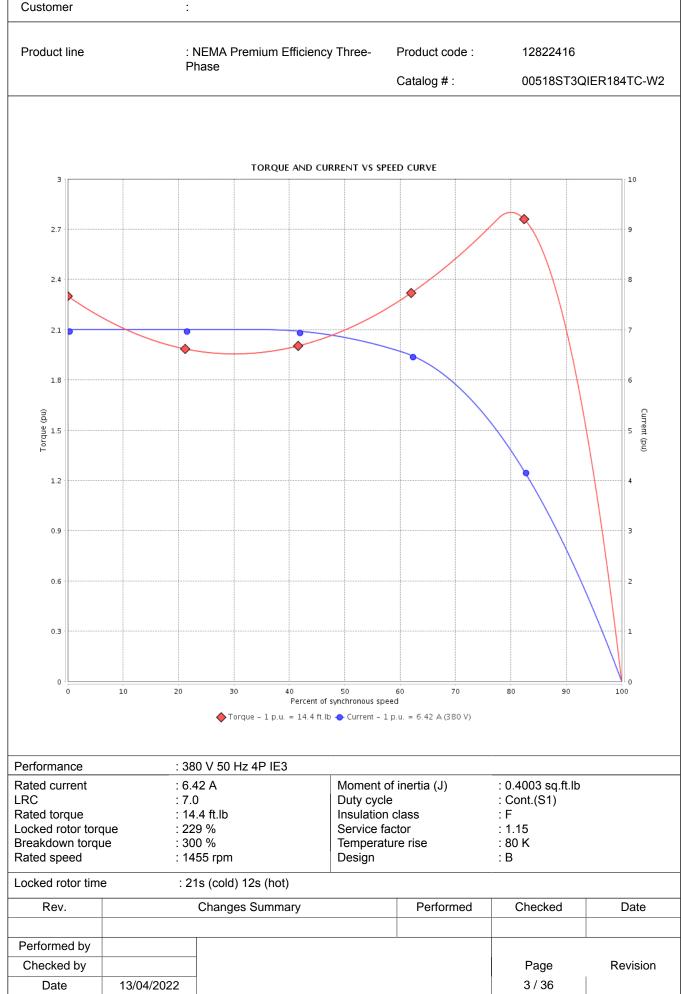
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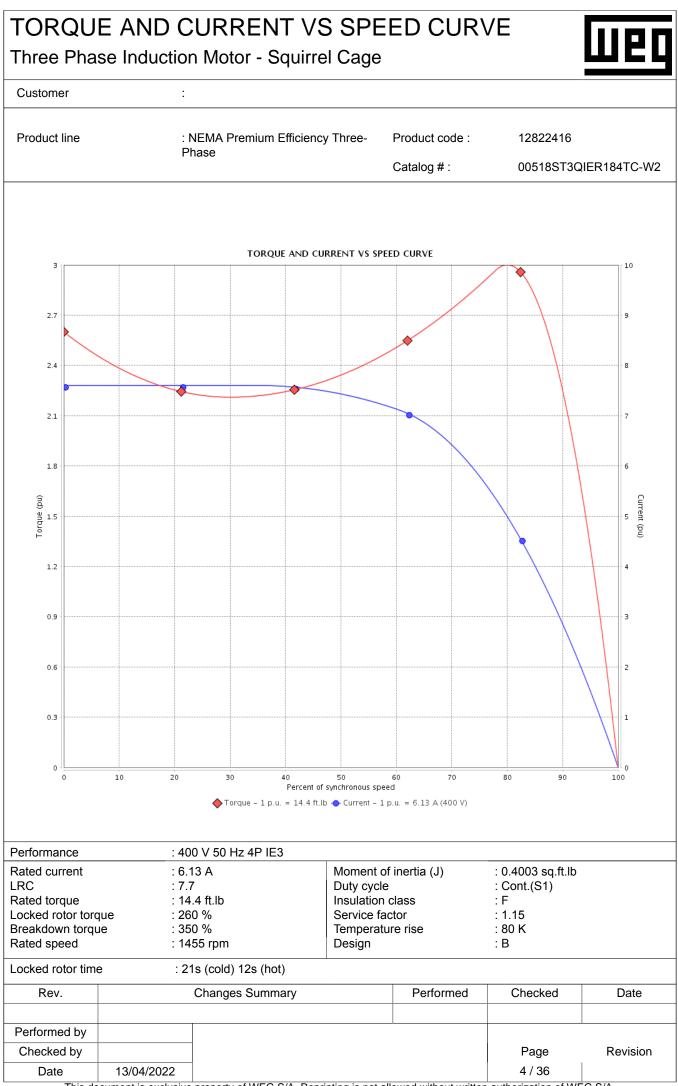
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



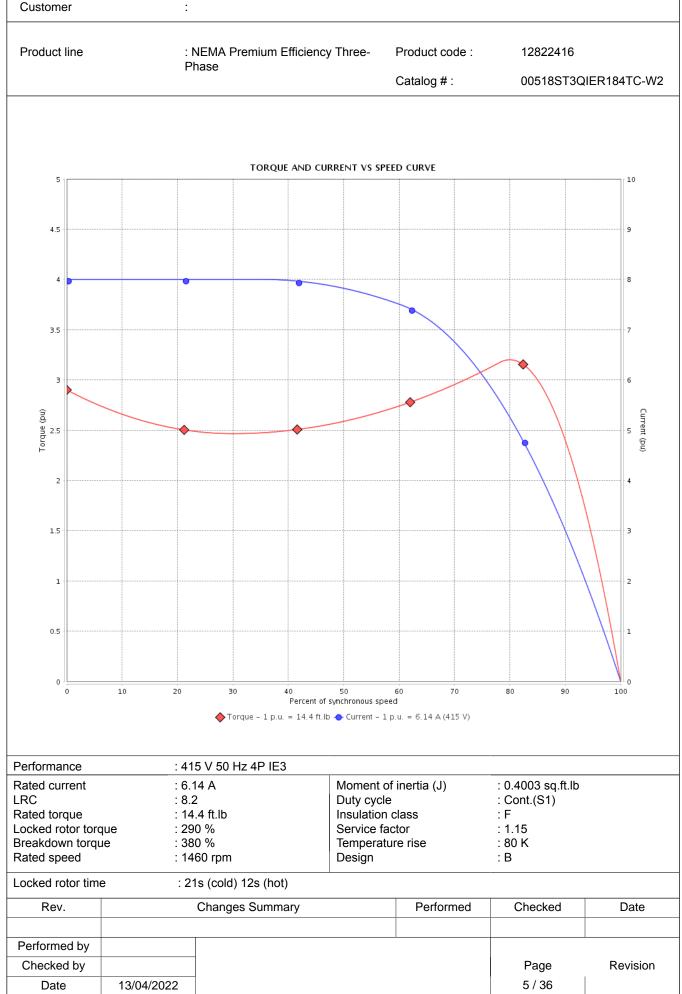
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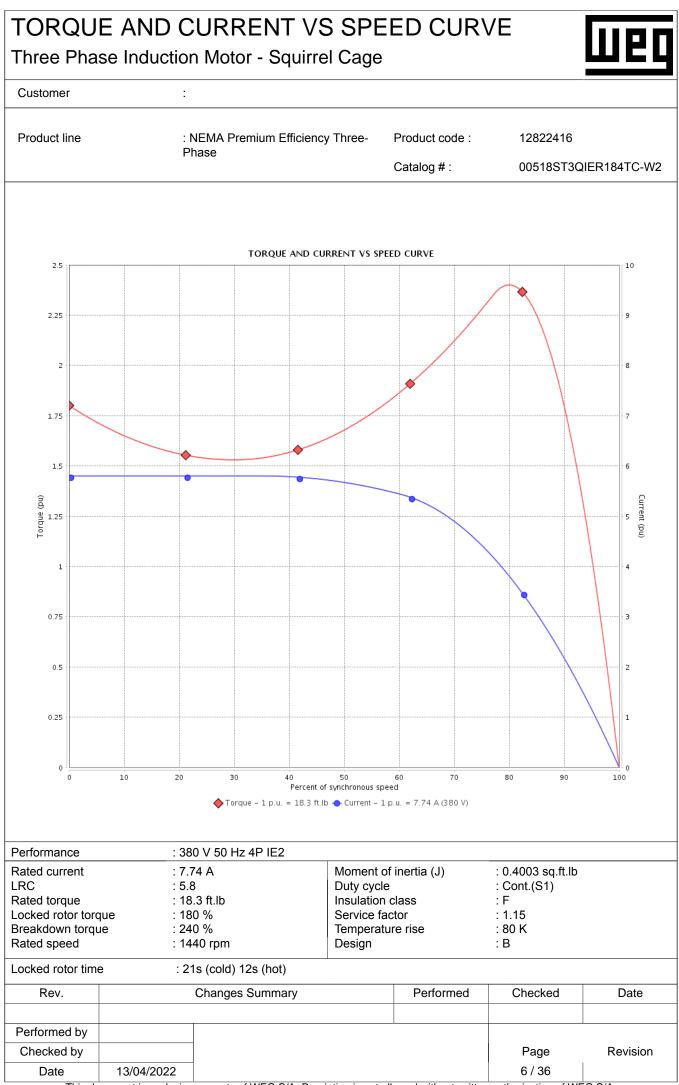
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





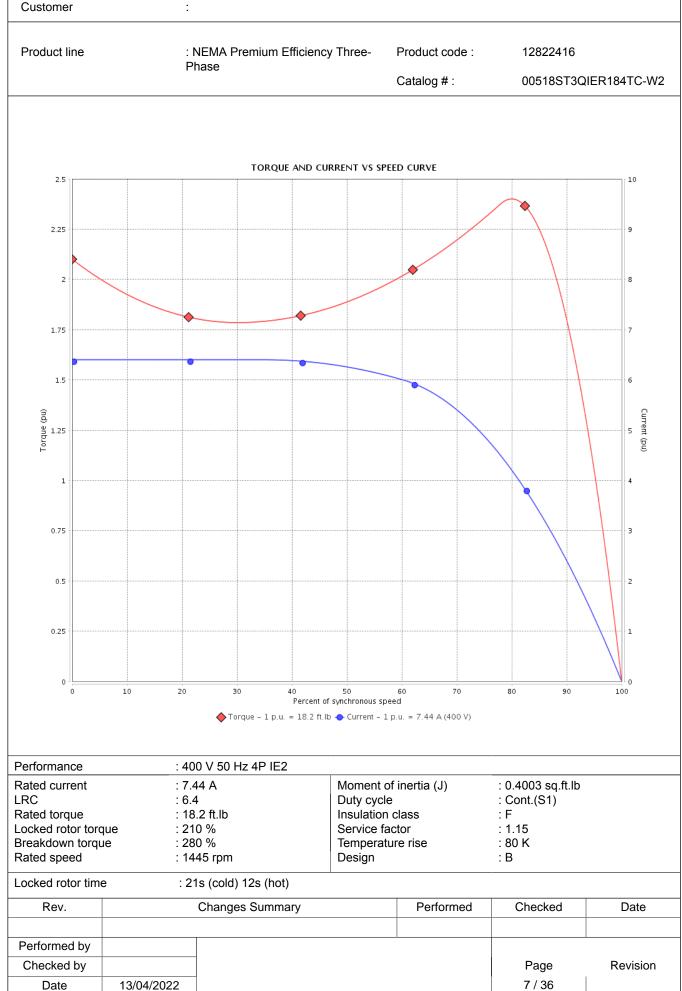
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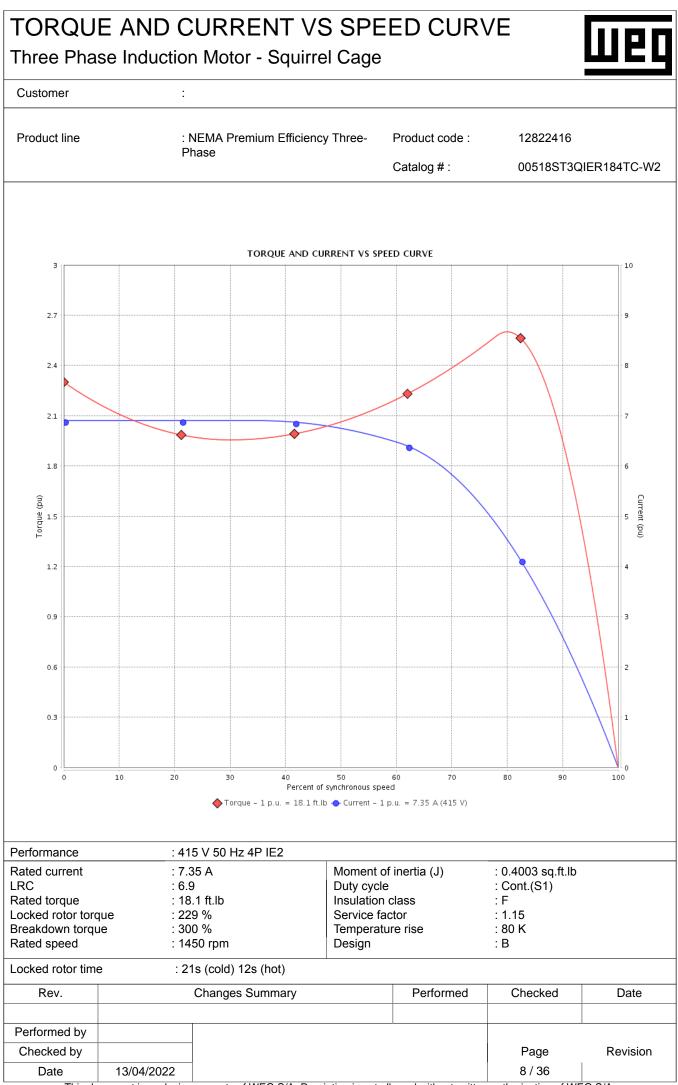
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer

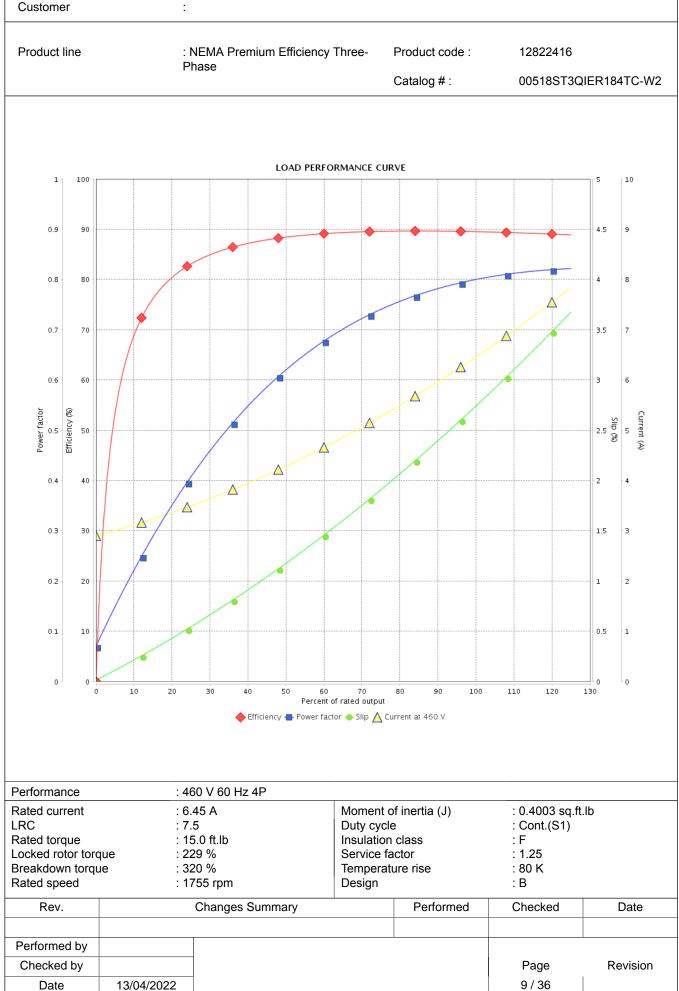


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Three Phase Induction Motor - Squirrel Cage

Customer



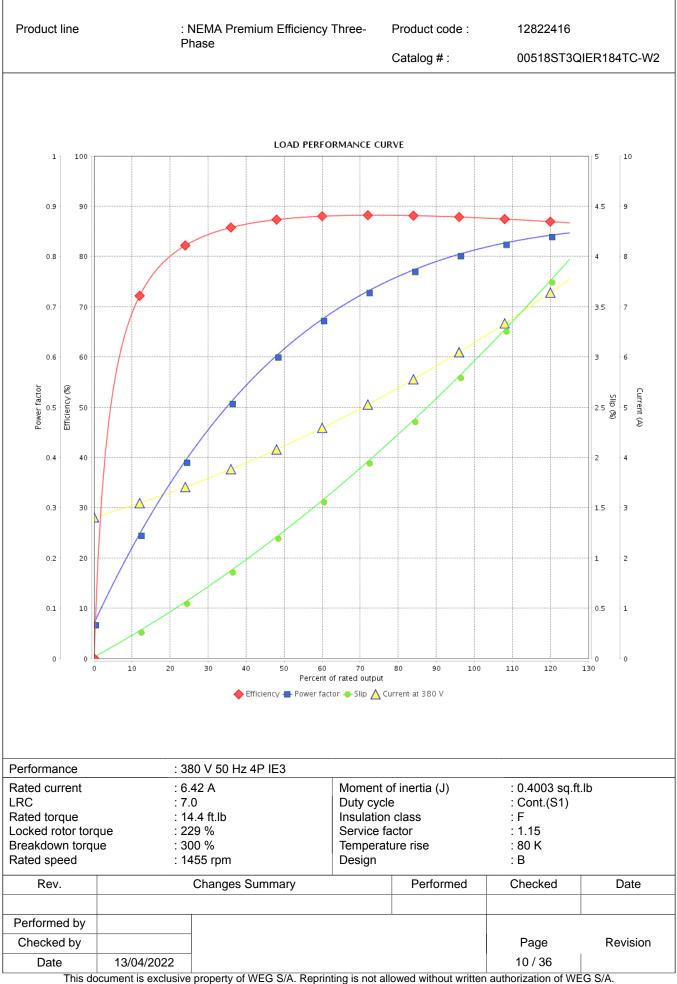
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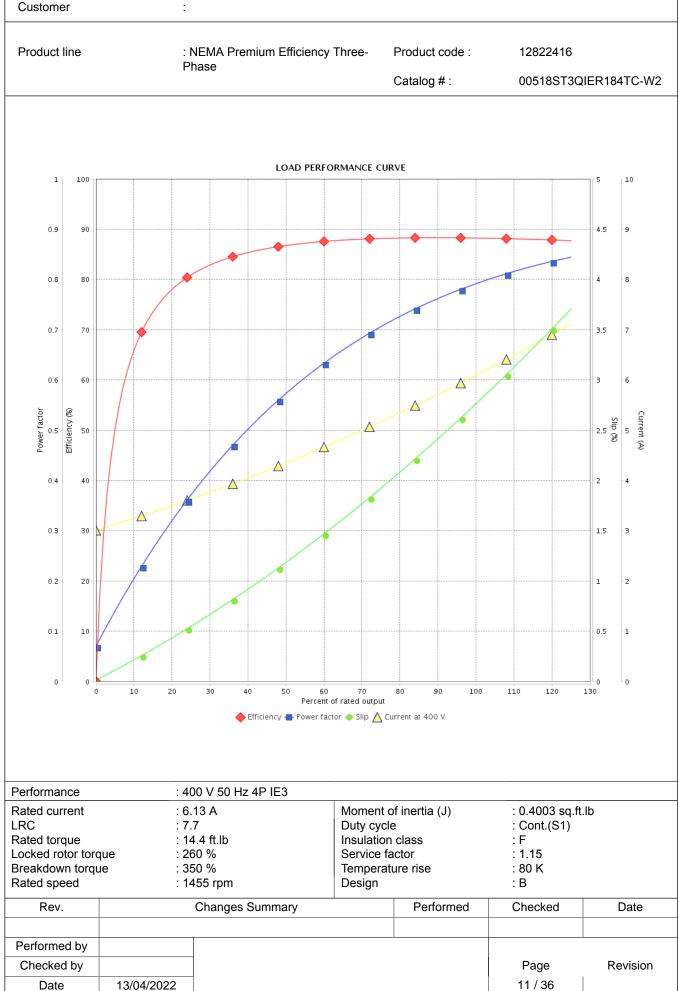


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



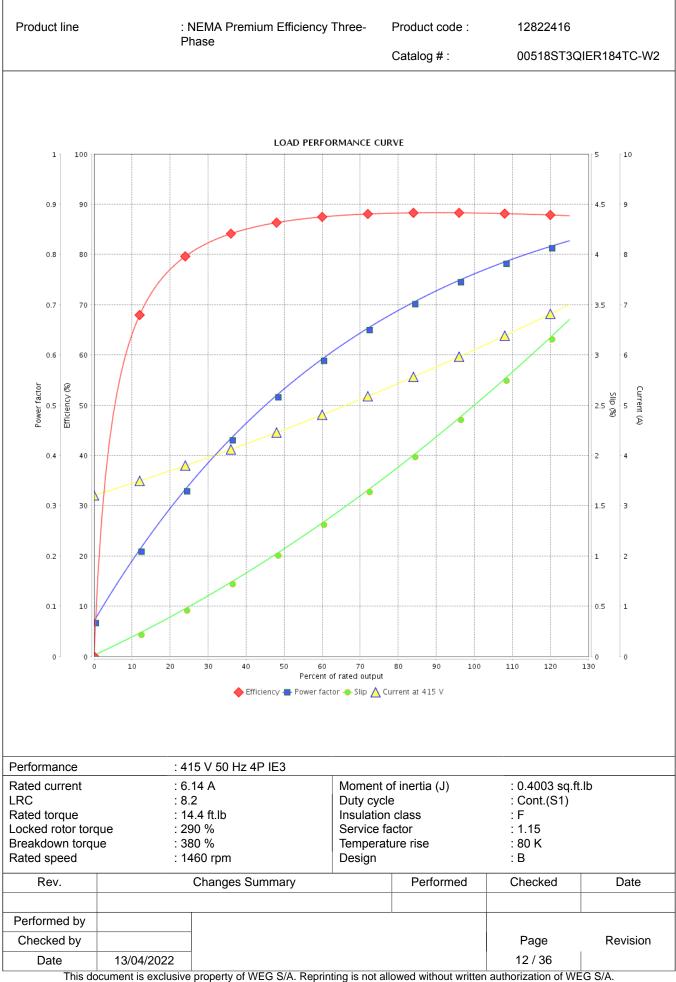
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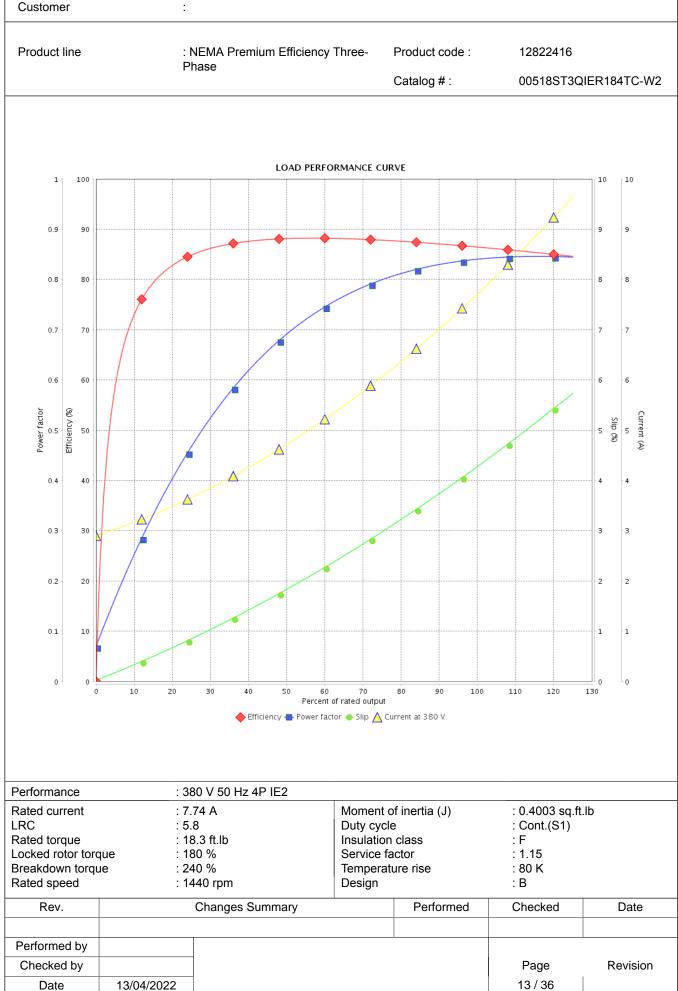


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Three Phase Induction Motor - Squirrel Cage

Customer



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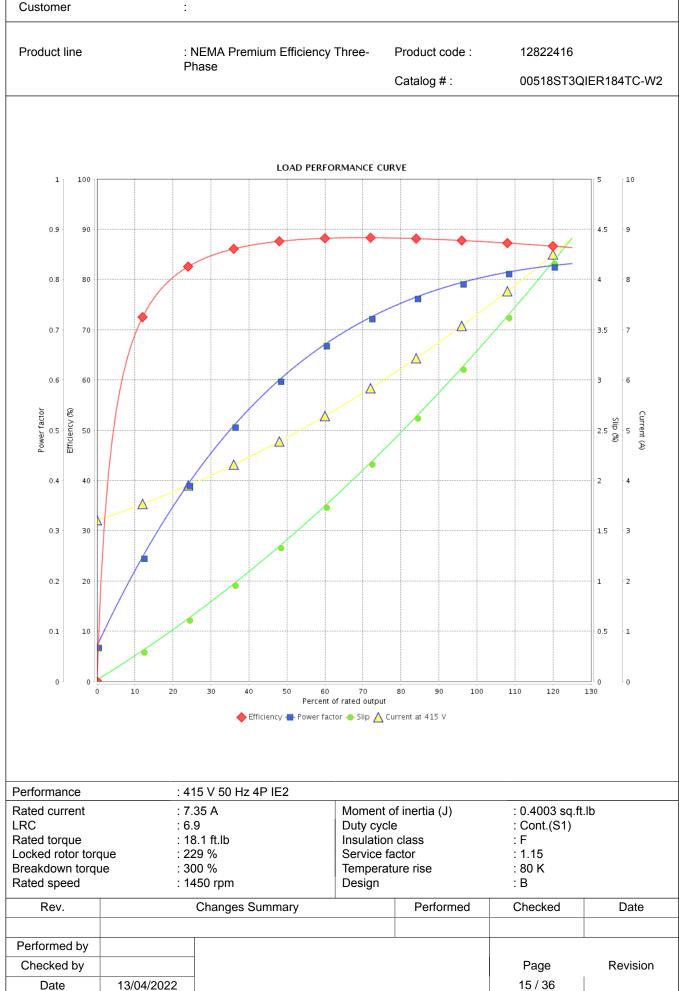
LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 12822416 Phase 00518ST3QIER184TC-W2 Catalog # : LOAD PERFORMANCE CURVE 100 10 10 1 9 0.9 90 9 0.8 80 8 8 X Λ 7 7 0.7 70 Δ 6 0.6 60 6 Δ Efficiency (%) Current (A) Power factor Slip (%) 5 50 \wedge \triangle 4 0.4 40 4 \triangle Δ 0.3 30 3 З 2 2 0.2 20 0.1 10 1 1 0 0 0 0 ó 10 20 30 100 110 120 130 40 50 60 70 80 90

Performance		: 400 V 50 Hz 4P IE2					
Rated current		: 7.44 A	Moment of	of inertia (J)	: 0.4003 sq.ft	.lb	
LRC		: 6.4			: Cont.(S1)		
Rated torque	gue : 18.2 ft.lb Insulation class		class	: F			
Locked rotor torque : 210		: 210 %	Service fa	actor	: 1.15		
Breakdown torque : 28		: 280 %	Temperat	Temperature rise		: 80 K	
Rated speed		: 1445 rpm	Design		: B		
Rev. Changes Summar		/	Performed	Checked	Date		
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Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 400 V

Three Phase Induction Motor - Squirrel Cage

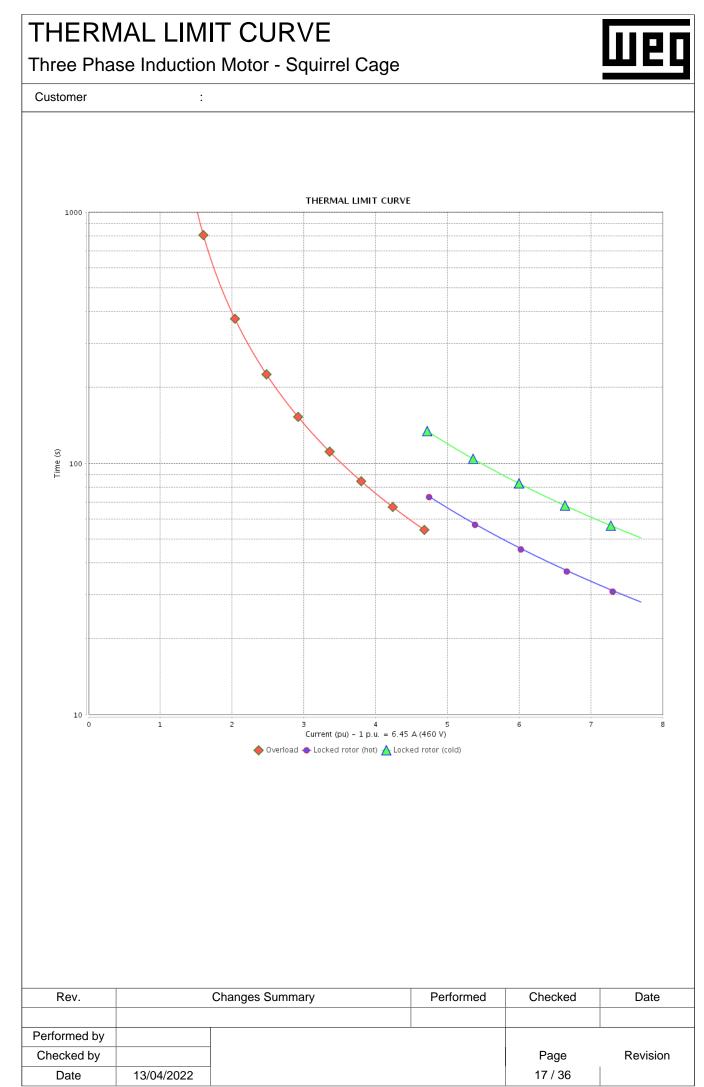
Customer



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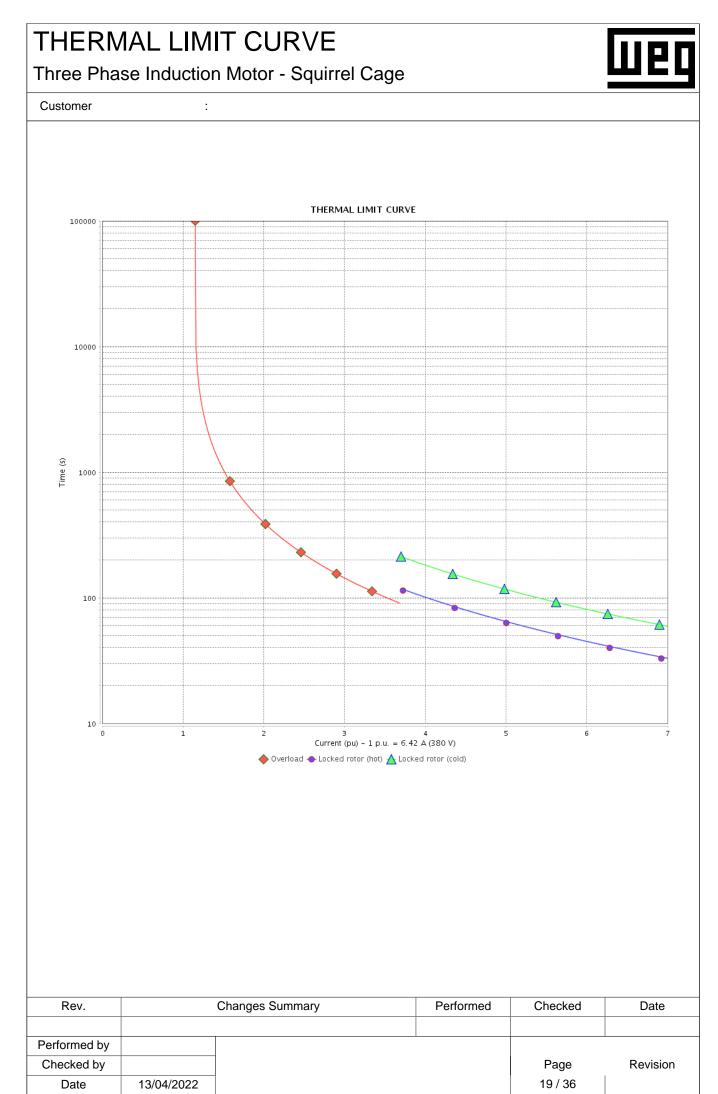
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822416
		Catalog # :	00518ST3QIER184TC-W

Performance		: 460 V 60 Hz 4P				
Rated current: 6.45 ALRC: 7.5Rated torque: 15.0 ft.lbLocked rotor torque: 229 %Breakdown torque: 320 %Rated speed: 1755 rpm		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4003 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb	
Heating constant						
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
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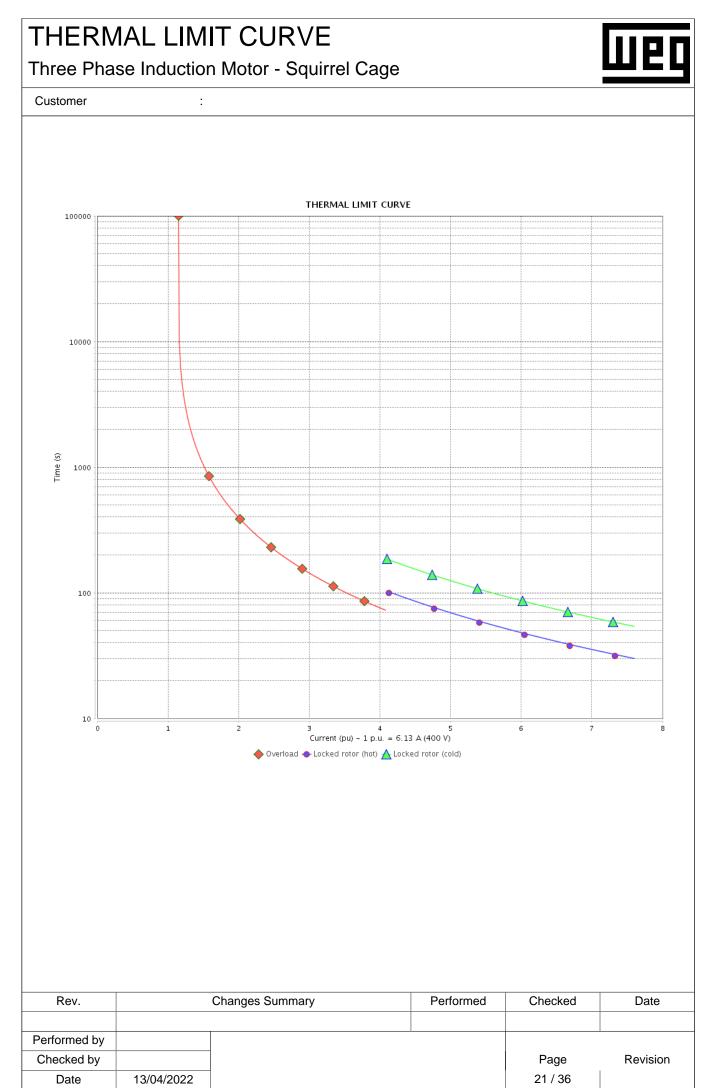
THERMAL	LIMIT CURVE		шер
Three Phase Inc	duction Motor - Squirrel Cage	9	шец
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12822416 00518ST3QIER184TC-W2
Porformanco	· 390 \/ 50 Hz 4D IE3		

Performance	: 38	80 V 50 Hz 4P IE3				
Rated current: 6.42 ALRC: 7.0Rated torque: 14.4 ft.lbLocked rotor torque: 229 %Breakdown torque: 300 %Rated speed: 1455 rpm		0 4.4 ft.lb 29 % 00 %	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4003 sq.ff : Cont.(S1) : F : 1.15 : 80 K : B	i.lb
Heating constant	t					
Cooling constant	t					
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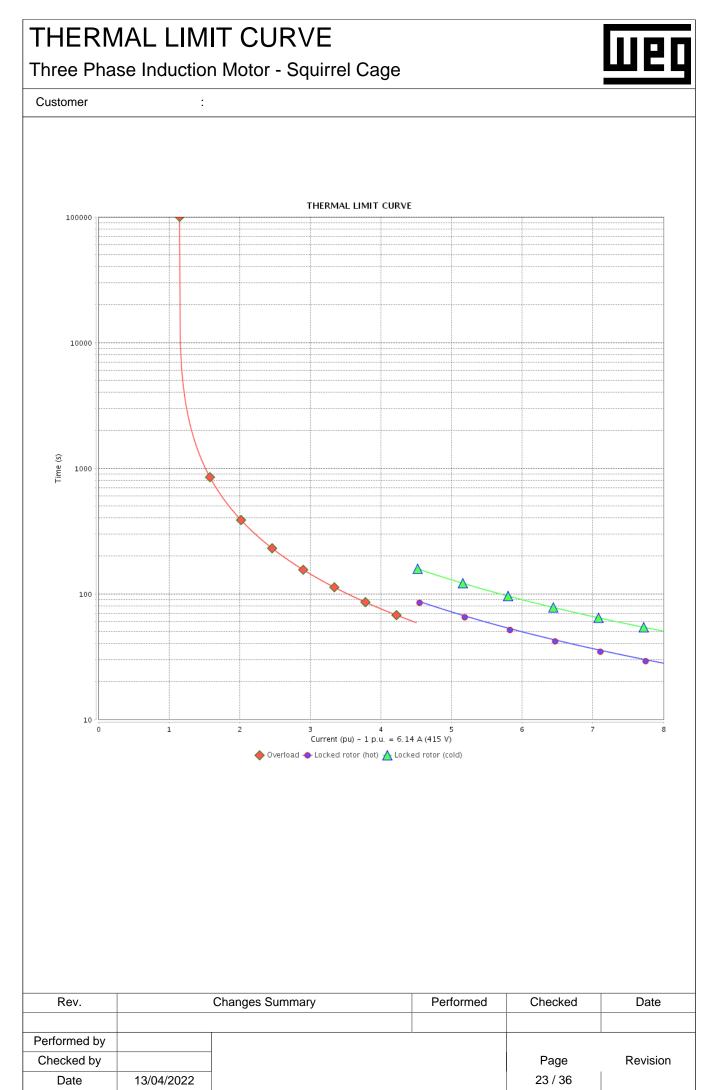
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12822416 00518ST3QIER184TC-W

Performance	: 4	00 V 50 Hz 4P IE3				
Rated current: 6.13 ALRC: 7.7Rated torque: 14.4 ft.lbLocked rotor torque: 260 %Breakdown torque: 350 %Rated speed: 1455 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4003 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	.lb	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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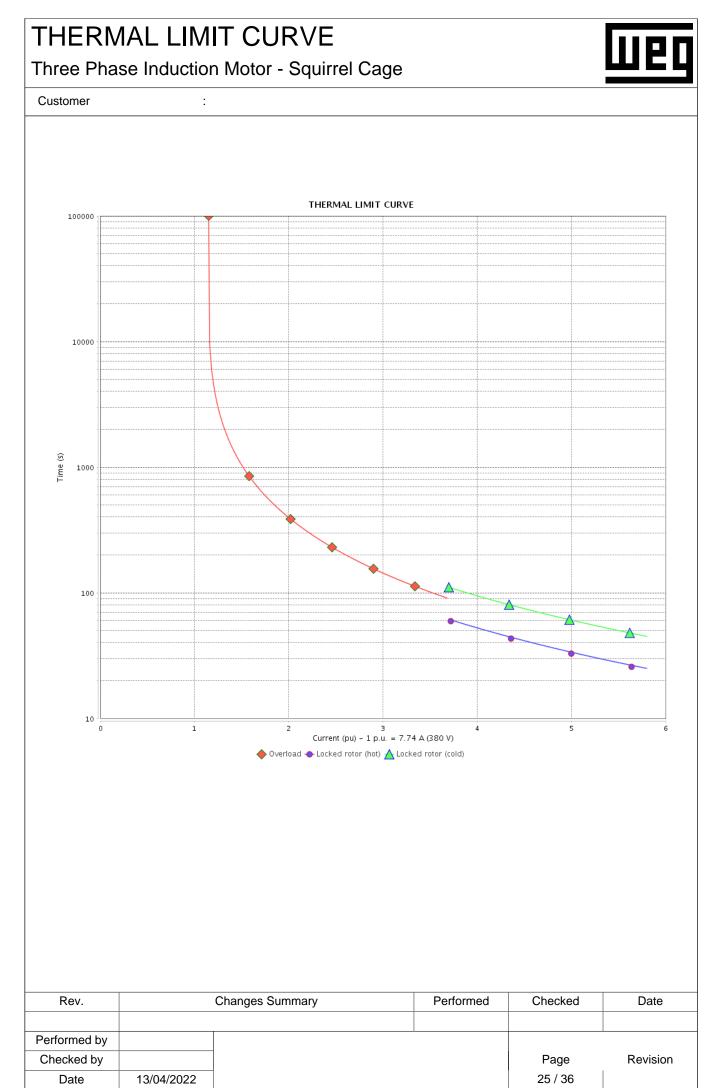
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822416
	T hase	Catalog # :	00518ST3QIER184TC-V

Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 6.14 A : 8.2 : 14.4 ft.lb : 290 % : 380 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
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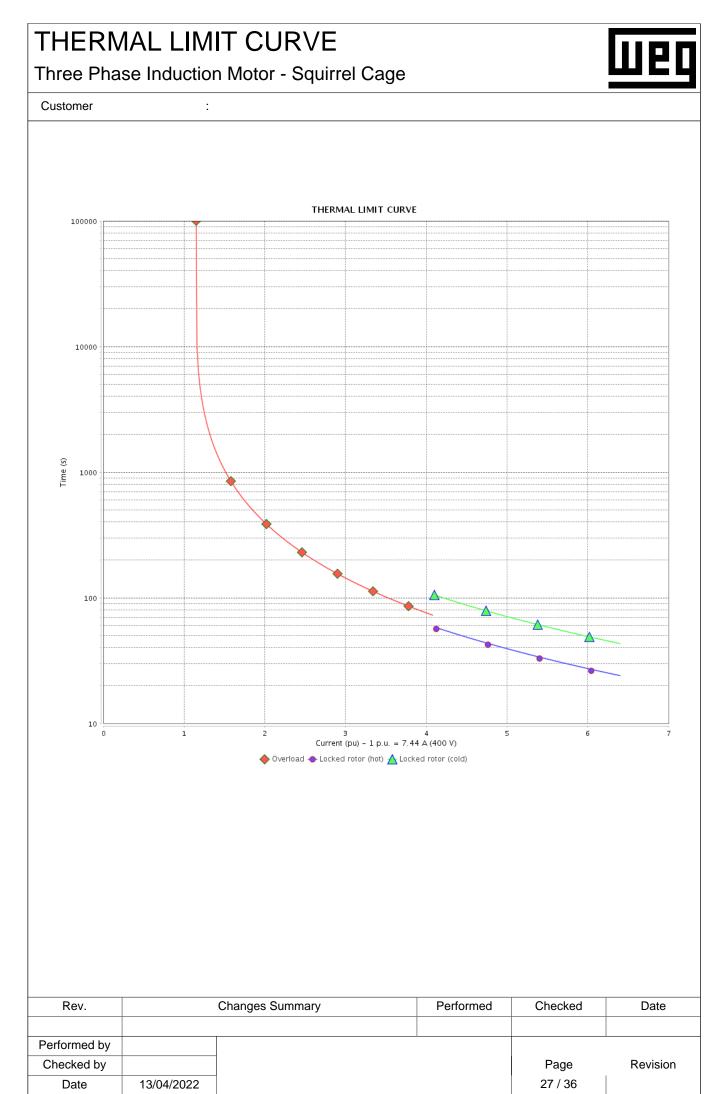
Customer	duction Motor - Squirrel Cage		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822416
	Flidst	Catalog # :	00518ST3QIER184TC-W

Performance	: 3	380 V 50 Hz 4P IE2				
Rated current: 7.74 ALRC: 5.8Rated torque: 18.3 ft.lbLocked rotor torque: 180 %Breakdown torque: 240 %Rated speed: 1440 rpm		5.8 8.3 ft.lb 80 % 240 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4003 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	.lb
Heating constan	t					
Cooling constant	t					
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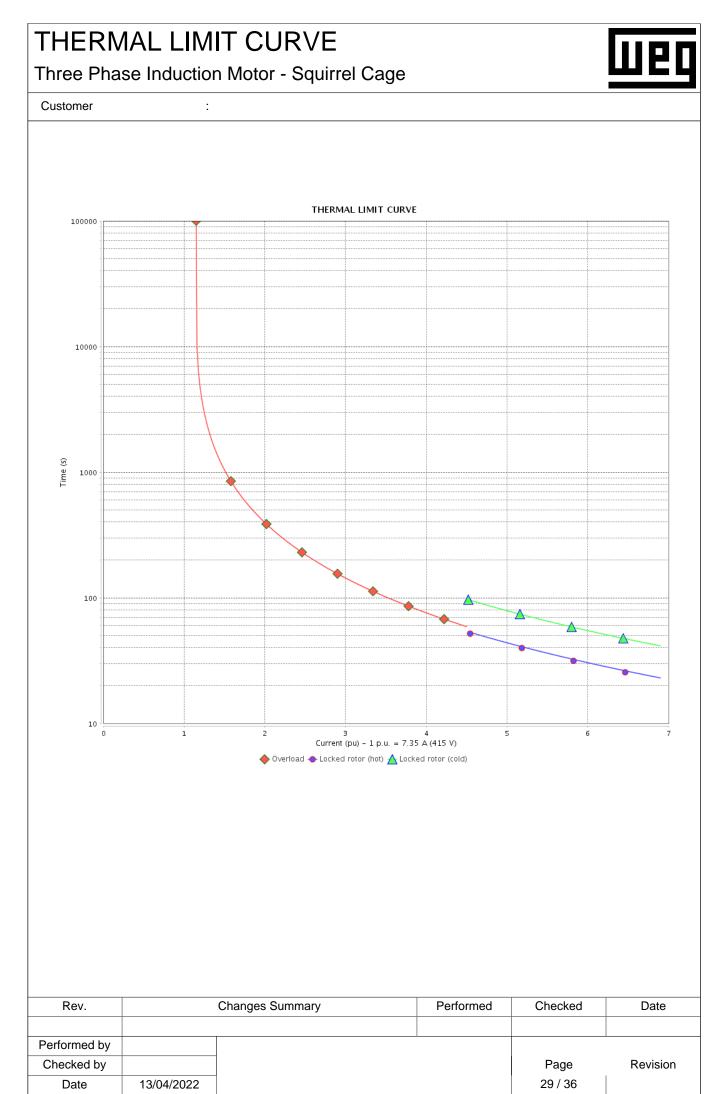
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822416
		Catalog # :	00518ST3QIER184TC-W

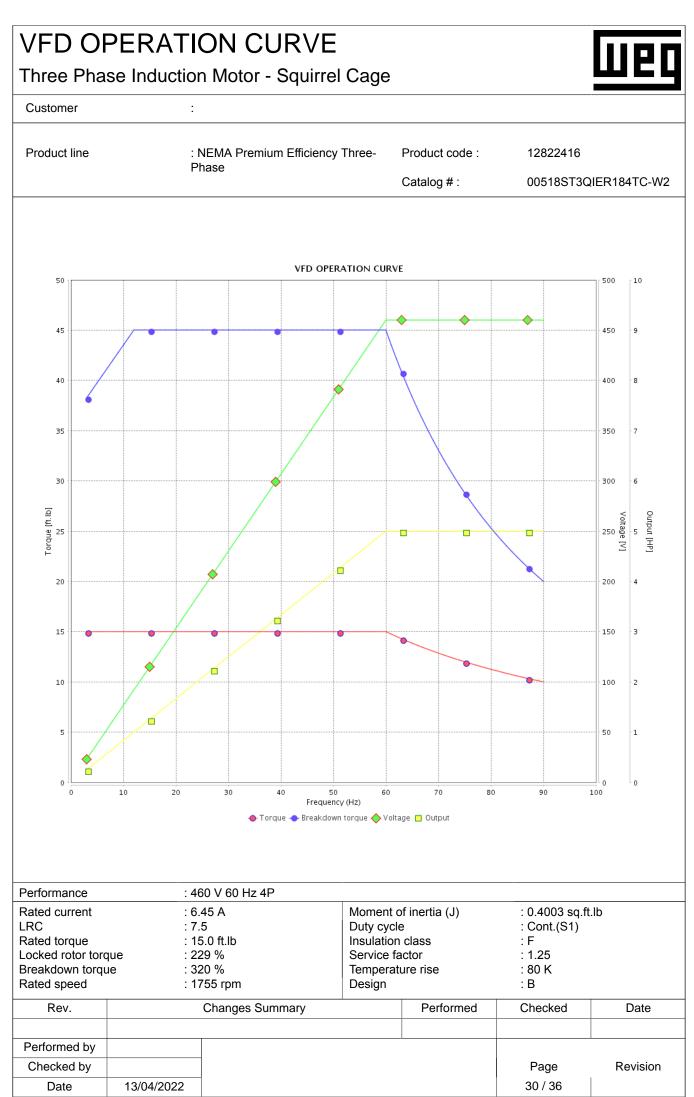
Performance	: 4	: 400 V 50 Hz 4P IE2				
Rated current : 7.44 A		Moment of inertia (J)		: 0.4003 sq.ft.lb		
LRC : 6.4		Duty cycle		: Cont.(S1)		
		Insulation class		:F		
Locked rotor torc	cked rotor torque : 210 % Service factor		ctor	: 1.15		
Breakdown torqu			ure rise	: 80 K		
Rated speed	: 1	445 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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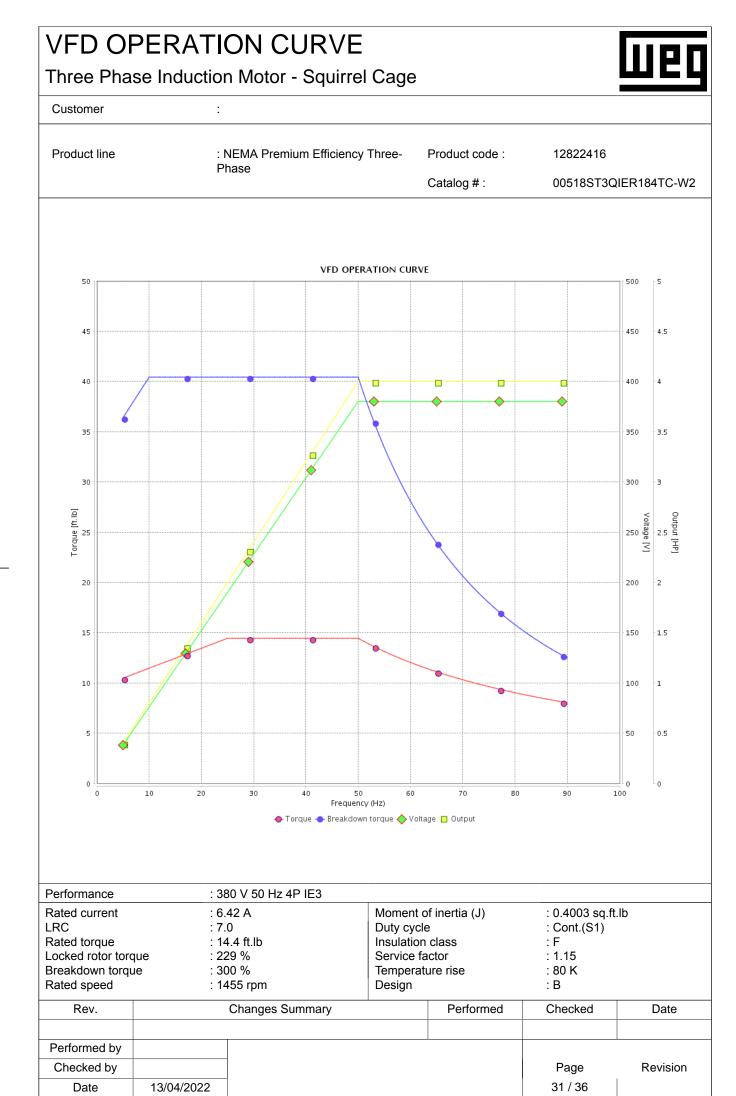
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12822416 00518ST3QIER184TC-W

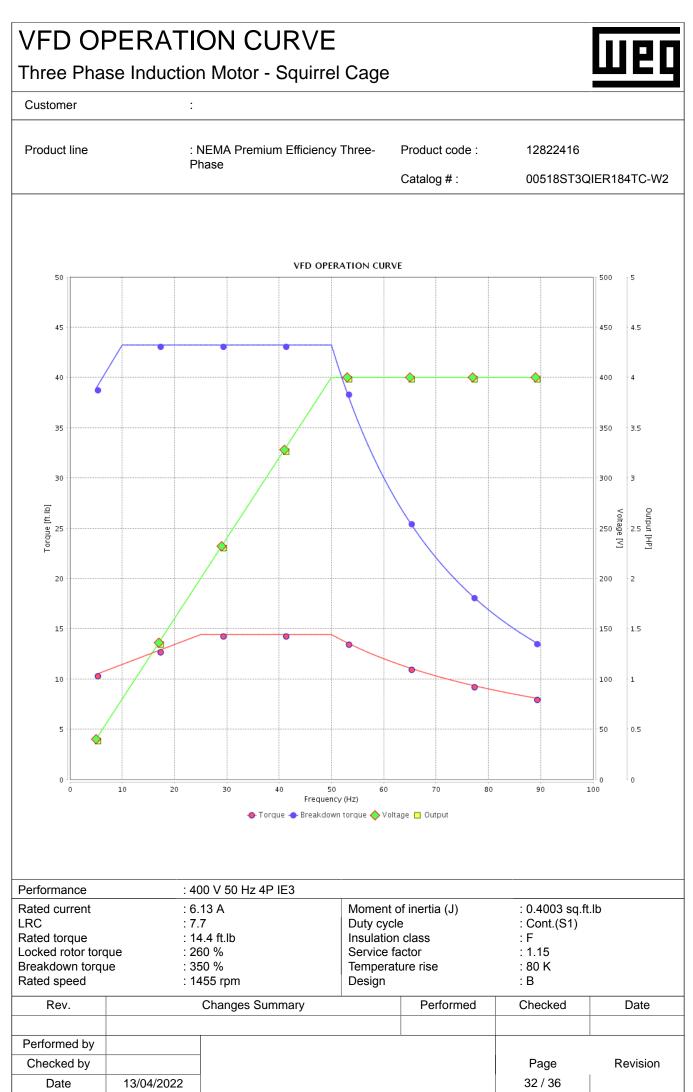
Performance	: 41	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 18 que : 22 ue : 30	.35 AMoment of inertia (.9Duty cycle8.1 ft.lbInsulation class29 %Service factor00 %Temperature rise450 rpmDesign		class ctor	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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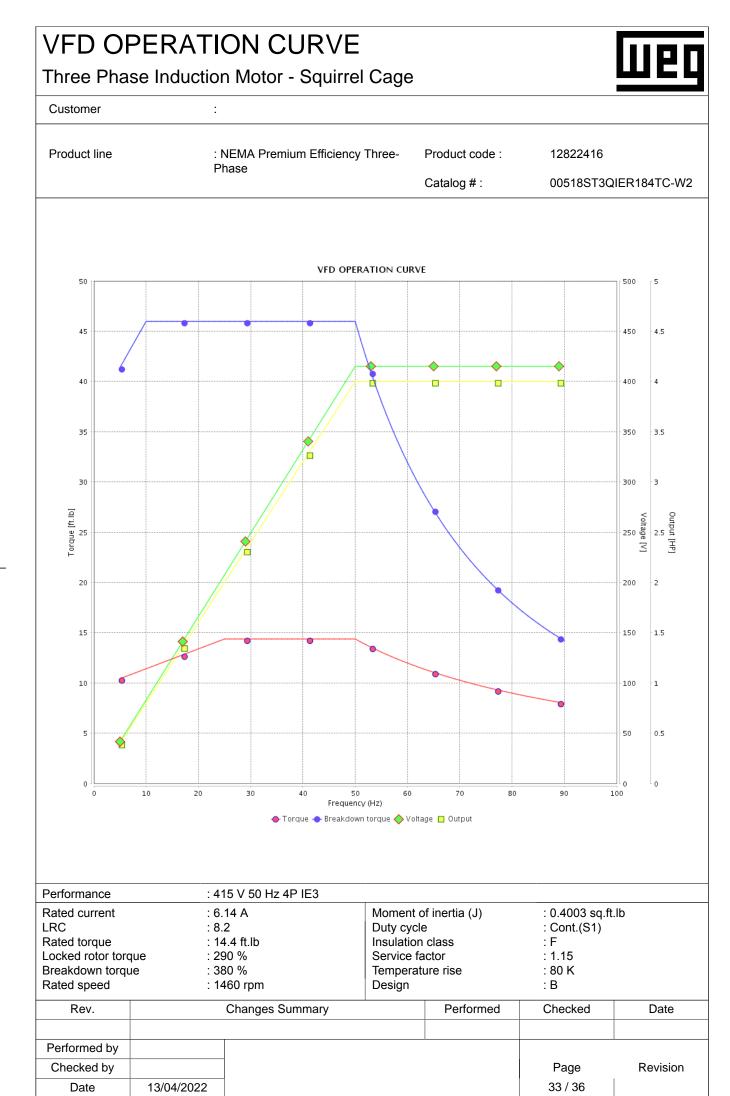


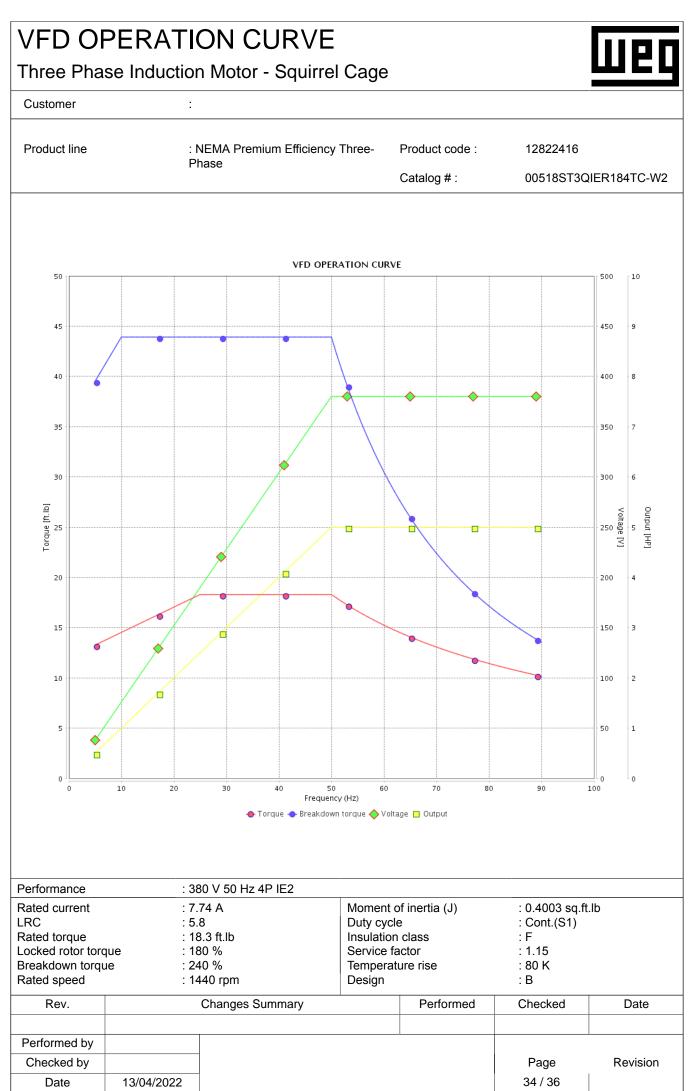


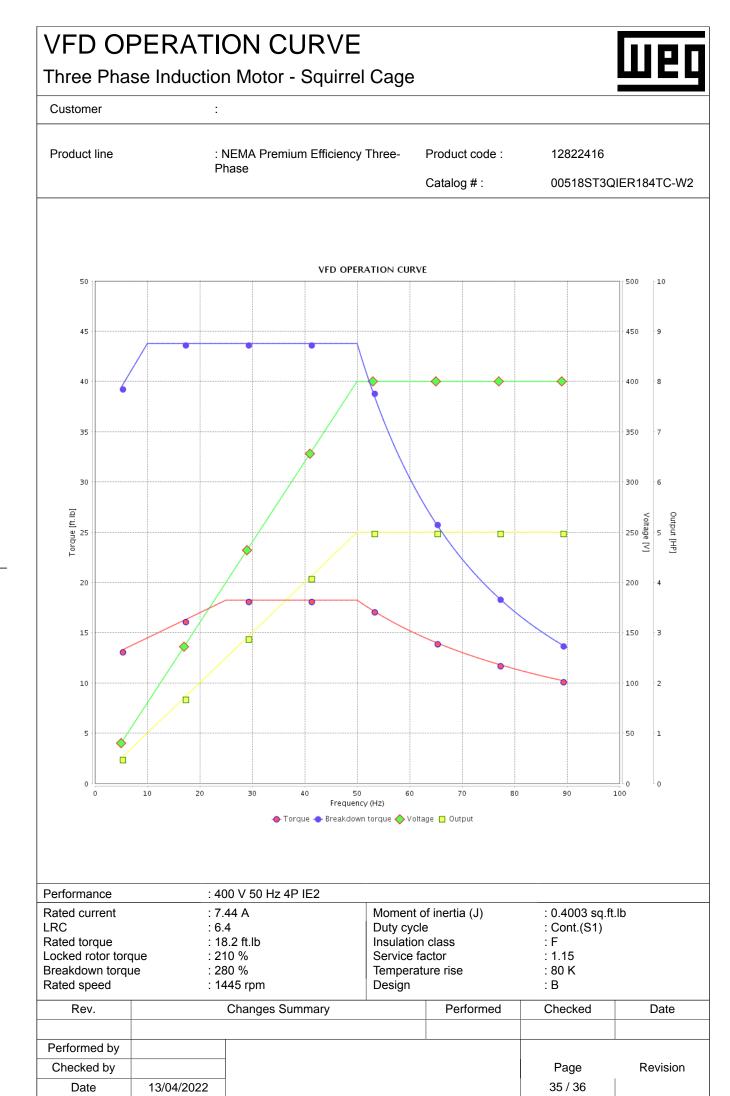
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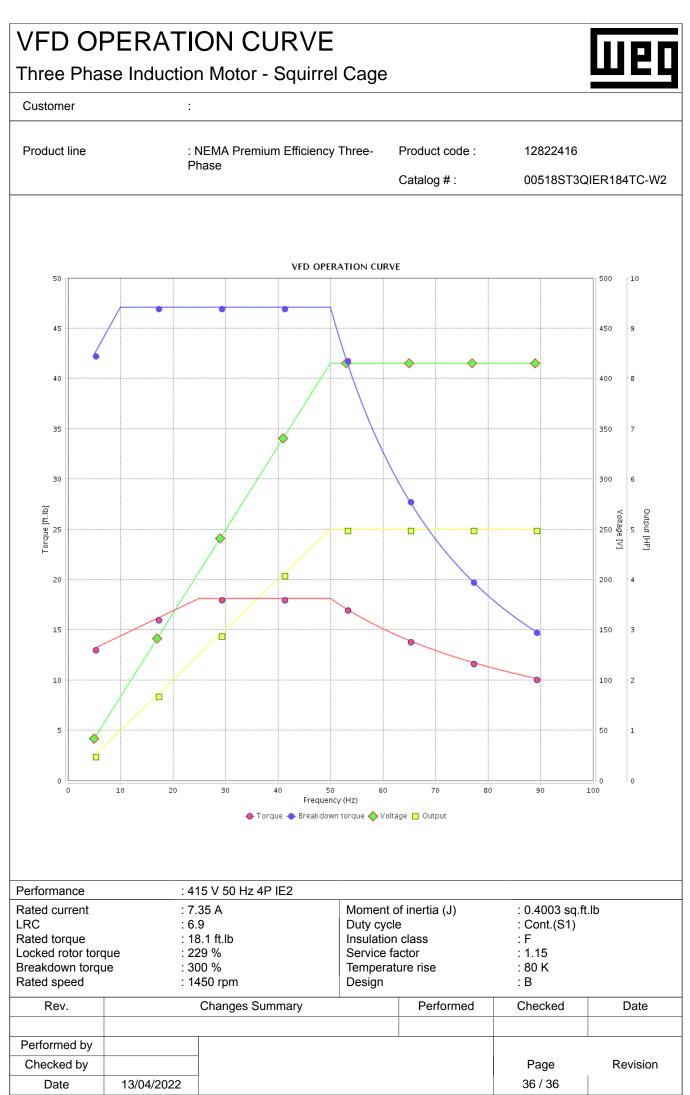


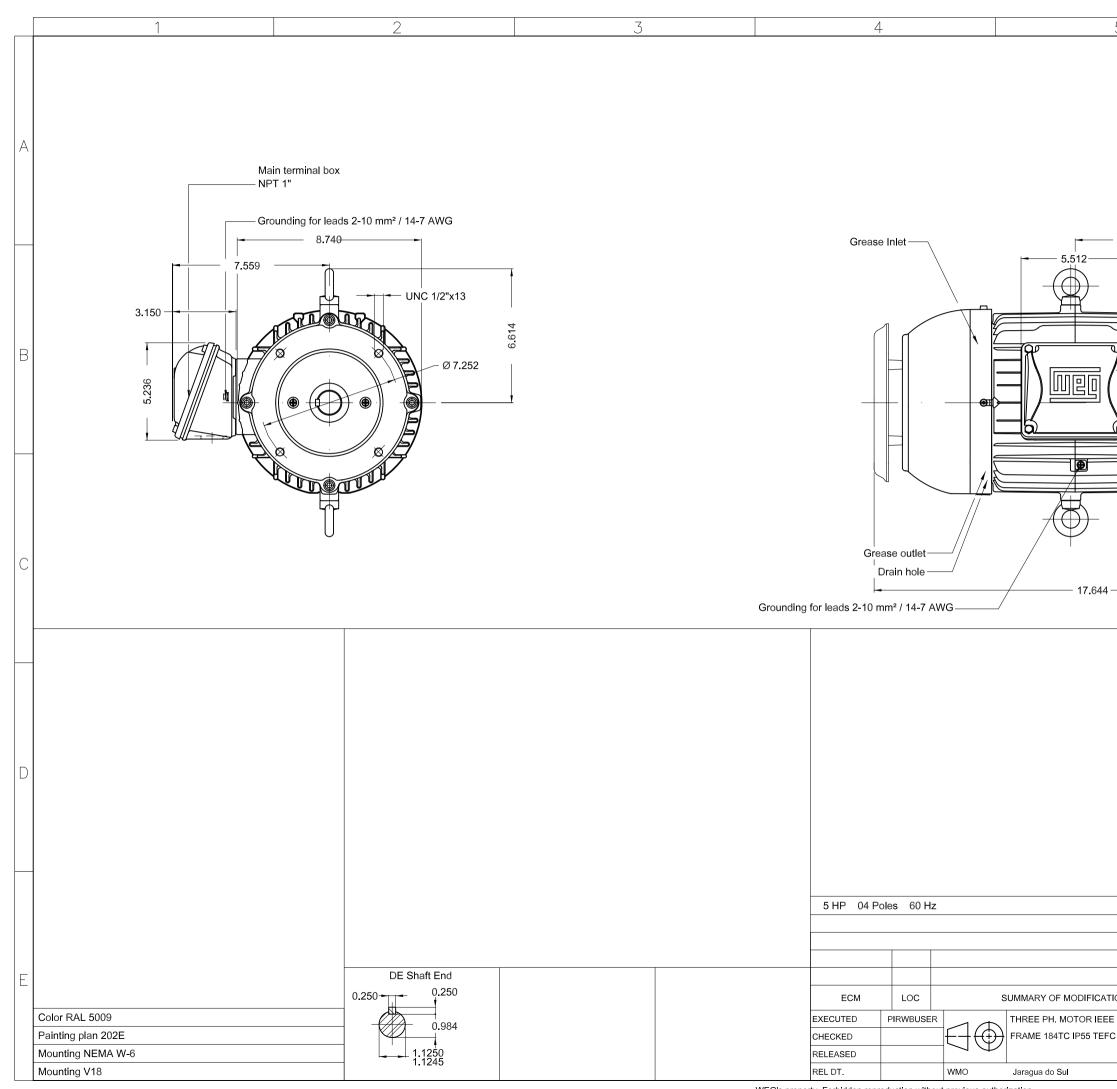












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