DATA SHEET

Three Phase Induction Motor - Squirrel Cage

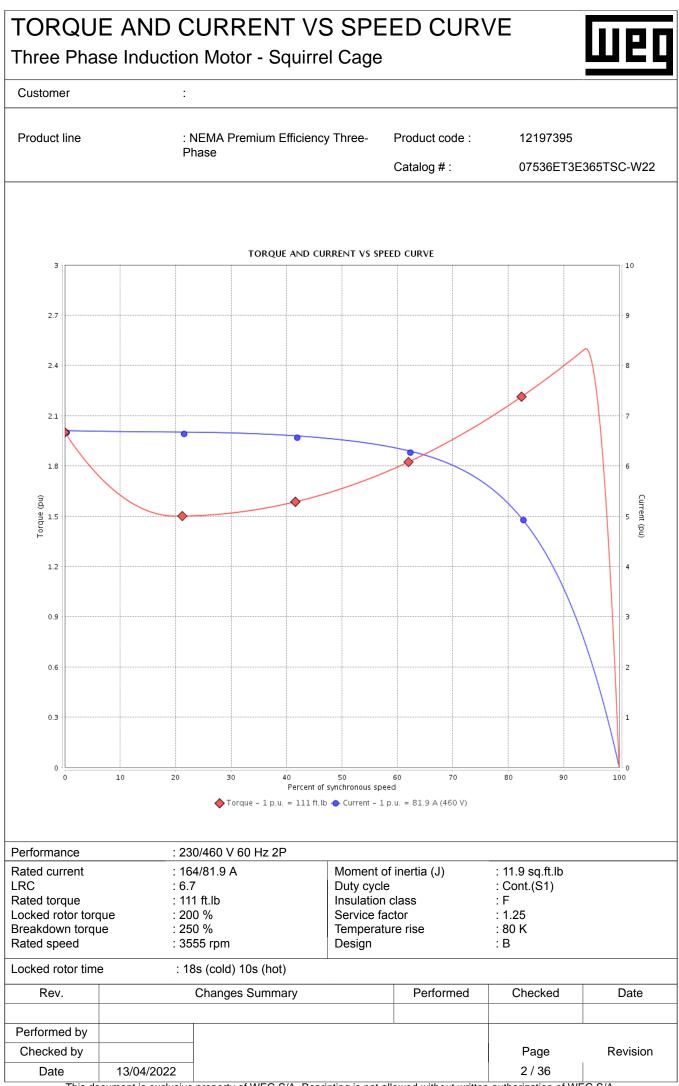
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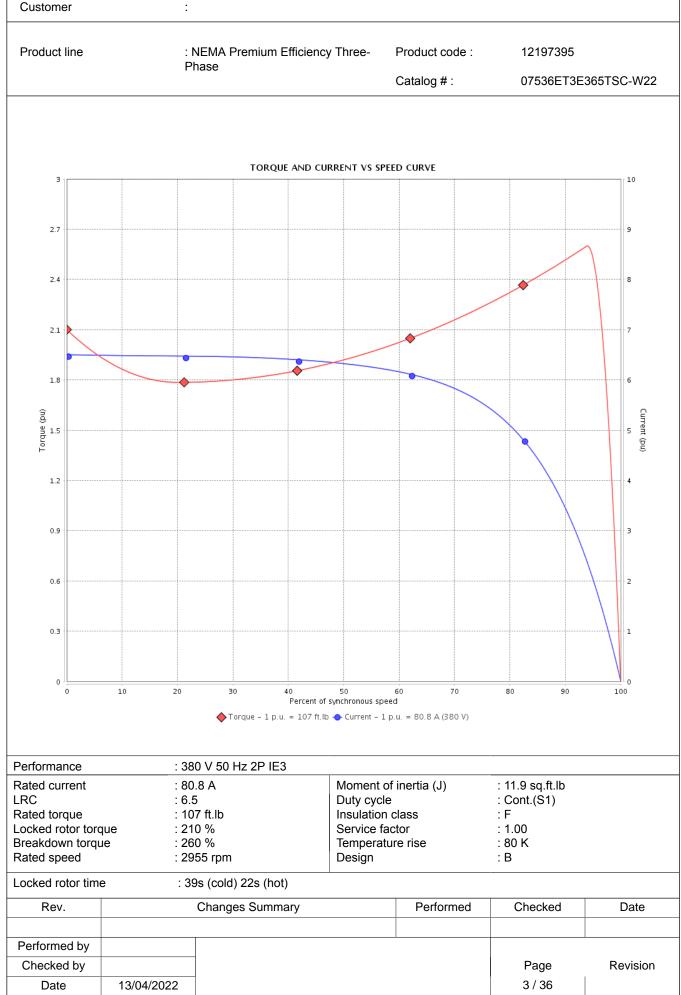
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Product line		: NEMA Premium Efficiency Three- Phase			Product code	e: 12	12197395	
Insulation class : F Mounting : F-1 Cont. (S1) Ambient temperature : 20°C to +40°C Starting method : Direct On Line Attitude : 1000 m.a.s.l. Starting method : Direct On Line Protection degree : IP55 60 60 60 75 75 75 Protection degree : 20°C to +40°C 2			1 11030			Catalog # :	07	536ET3E365	FSC-W22
Dutput [HP] 75 60 60 75 75 75 Toples 2 5	Insulation class Duty cycle Ambient tempera Altitude Protection degree		: F : Cont.(S1) : -20°C to + : 1000 m.a.s : IP55		Mounti Rotatio Startin Approx	ng on ¹ g method <. weight ³	: F : E : C : 8	: F-1 : Both (CW and CCW) : Direct On Line : 883 lb	
Poles 2 <td>•</td> <td></td> <td></td> <td>60</td> <td>60</td> <td>60</td> <td>75</td> <td>75</td> <td>75</td>	•			60	60	60	75	75	75
Frequency [Hz] 60 50 50 50 50 50 80 Rated voltage [V] 230/460 380 400 415 380 416 134 135									
Saled voltage [V] 200460 380 400 415 380 400 415 Rated current [A] 1087/549 525 557 598 520 559 594 RC [A] 67x(Code 6.5x(Code 7.1x(Code H) 7.9x(Code H) 7.9x(Code J) 5.2x(Code E) 5.9x(Code F) 6.5x(Cod G) Code H) 7.9x(Code H) 7.9x(Code H) 7.9x(Code J) 5.2x(Code E) 5.9x(Code F) 6.5x(Cod G)									
R. Amperes [A] 1097/449 525 557 598 520 559 594 RC [A] 6.7x(Code 6.5x(Code 7.1x(Code 7.5x(Code 5.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 6.5x(Code 7.1x(Code 19.0 20.0 21.5 19.0 20.0 21.5 19.0 20.0 21.5 19.0 20.0 21.5 18.0 1.33 1.17 2.33 1.83 1.67 Stated torque [%] 200 210 229 250 160 175 190 Stated torque [%] 250 260 380 310 200 220 240 Service factor 1.25 1.00			230/460				380		
RC [A] 6.7x(Code (C) 6.5x(Code (C) 7.1x(Code H) 7.9x(Code J) 5.2x(Code E) 5.9x(Code F) 6.5x(Code (C) ko load current [A] 40.0/2/0.0 19.0 20.0 21.5 19.0 20.0 21.5 tated speed [RPM] 3555 2955 2960 2965 2930 2945 2955 big [%] 1.25 1.50 1.33 1.17 2.33 1.83 1.67 stated torque [%] 200 210 229 250 160 175 190 reakdown torque [%] 200 210 229 250 160 175 190 remeature rise 80 K 80 K 80 K 80 K 80 K 105 K									
G) G) C G) C G) G) Rated speed [RPM] 3555 2955 2960 2965 2930 2945 2950 Stated speed [RPM] 1.25 1.50 1.33 1.17 2.33 1.83 1.67 Stated torque [%] 200 210 229 250 160 175 190 Breakdown torque [%] 250 260 390 310 200 220 240 Breakdown torque [%] 250 260 390 310 200 220 240 Brevice factor 1.25 1.00									
Rated speed [RPM] 3555 2955 2960 2965 2930 2945 2950 Silp [%] 1.25 1.50 1.33 1.17 2.33 1.83 1.67 Stated torque [%] 200 210 229 250 160 175 190 cocked rotor torque [%] 200 210 229 250 160 175 190 service factor 1.25 1.00	.RC [A]				7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	
Bill [%] 1.25 1.50 1.33 1.17 2.33 1.83 1.67 Tated torque [%] 200 210 229 250 160 175 190 Service factor 1.25 1.00 <td></td> <td></td> <td>40.0/20.0</td> <td>19.0</td> <td></td> <td></td> <td></td> <td></td> <td>21.5</td>			40.0/20.0	19.0					21.5
Sated forque [ft,lb] 111 107 106 106 134 134 134 134 Locked rotor torque [%] 200 210 229 250 160 175 190 Service factor 1.25 1.00 <		/]							
cocked rotor torque [%] 200 210 229 250 160 175 190 Breakdown torque [%] 250 260 390 310 200 220 240 Bervice factor 1.25 1.00									
Breakdown torque [%] 250 260 390 310 200 220 240 Pervice factor 1.25 1.00 1.25 (0.0) 1.25 (0.0) 1.25 (0.0) 1.25 (0.0) 1.20 1.25 (0.0) 1.25 (0.0) 1.25 (0.0) 1.25 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Service factor 1.25 1.00									
Temperature rise 80 K 80 K 80 K 80 K 80 K 105 K 106 K 105 K 106 K 105 K 105 K 106 K 105 K		[%]							
Locked rotor time 18s (cold) 39s (cold) 39s (cold) 29s (cold) 12s (cold) 7s (hot) 7s (hot) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Instruction 10s (hot) 22s (hot) 21s (hot) 7s (hot) <	•								
25% 91.2 91.5 91.8 92.4 93.0			10s (hot)	22s (hot)	22s (hot)	21s (hot)	7s (hot)	7s (hot)	7s (hot)
Efficiency (%) 75% 93.6 92.5 93.0 93.1 93.0 93.0 93.6 100% 93.6 94.0 94.0 94.0 94.0 92.4 93.0 93.0 93.0 Power Factor 50% 0.83 0.75 0.72 0.70 0.86 0.84 0.83 Towe end 0.90 0.90 0.88 0.82 0.89 0.89 0.89 Bearing type : 6314 C3 6314 C3 Max. traction : 655 lb Sealing : WSeal WSeal Msx. compression : 1538 lb Lubricant mount : 27 g 27 g 27 g 27 g Lubricant type : Mobil Polyrex EM Max. compression : 1538 lb Notes USABLE @208V 181A SF 1.10 SFA 199A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. erformed bd erformed bd erformed bd	loise level ²	25%	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
100% 93.6 92.5 93.0 93.1 93.0 <th< td=""><td>\Box ff is is a set $\langle 0/\rangle$</td><td>50%</td><td>92.4</td><td>91.2</td><td>91.5</td><td>91.8</td><td>92.4</td><td>92.4</td><td>93.0</td></th<>	\Box ff is is a set $\langle 0/\rangle$	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
Power Factor 25% 0.83 0.75 0.72 0.70 0.86 0.84 0.83 75% 0.88 0.85 0.83 0.82 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.90		75%						93.0	
Power Factor 50% 0.83 0.75 0.72 0.70 0.86 0.84 0.83 75% 0.88 0.85 0.83 0.82 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.90			93.6	94.0	94.0	94.0	92.4	93.0	93.0
Power Factor 75% 0.88 0.85 0.83 0.82 0.89 0.89 0.88 100% 0.90 0.90 0.88 0.88 0.90 0.90 0.90 Bearing type : 6314 C3 6314 C3 Foundation loads Max. traction : 655 lb Sealing : WSeal WSeal WSeal Max. compression : 1538 lb Lubrication interval : 4000 h 4000 h Max. compression : 1538 lb Notes USABLE @208V 181A SF 1.10 SFA 199A Mobil Polyrex EM Max. traction the tolerances stipulated in NEMA (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. Performed Checked by Date Performed by									
10% 0.88 0.85 0.83 0.82 0.89 0.89 0.88 100% 0.90 0.90 0.88 0.88 0.90 0.90 0.90 Drive end Bearing type : 6314 C3 6314 C3 6314 C3 6314 C3 Sealing : WSeal WSeal Max. traction : 655 lb Lubrication interval : 4000 h 4000 h 4000 h Lubricant type : Mobil Polyrex EM Max. compression : 1538 lb Notes USABLE @208V 181A SF 1.10 SFA 199A 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. Rev. Changes Summary Performed Checked by Checked by Page Revision	Power Factor								
Drive end Bearing type Image: Mon drive end 6314 C3 Foundation loads Bearing type : 6314 C3 6314 C3 Sealing : WSeal WSeal Lubrication interval : 4000 h 4000 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM Notes USABLE @208V 181A SF 1.10 SFA 199A This revision replaces and cancel the previous one, which must be eliminated. These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (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. MG-1. Rev. Changes Summary Performed Checked Performed by									
Bearing type : 6314 C3 6314 C3 Max. traction :: 655 lb Sealing : WSeal WSeal WSeal Max. compression :: 1538 lb Lubrication interval : 4000 h 4000 h Max. compression :: 1538 lb Lubricant amount : 27 g 27 g 27 g 27 g 27 g Lubricant type : Mobil Polyrex EM Max. compression :: 1538 lb Notes USABLE @208V 181A SF 1.10 SFA 199A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Exercise Performed Checked Date Performed by		100%					0.90	0.90	0.90
USABLE @208V 181A SF 1.10 SFA 199A 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. Rev. Changes Summary Performed Checked Date Performed by Image: Checked by Page Revision	Sealing Lubrication interv Lubricant amoun		: 6314 C3 : WSeal : 4000 h : 27 g	6314 0 WSea 4000 27 g	C3 Max. tra al Max. co h	action			
Rev. Changes Summary Performed Checked Date Performed by Image: Checked by Image: Checked by Page Revision	Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and car ed. otor from the m and with t veight subject pocess.	10 SFA 199A ncel the previo e shaft end. tolerance of +3	us one, which	power s				
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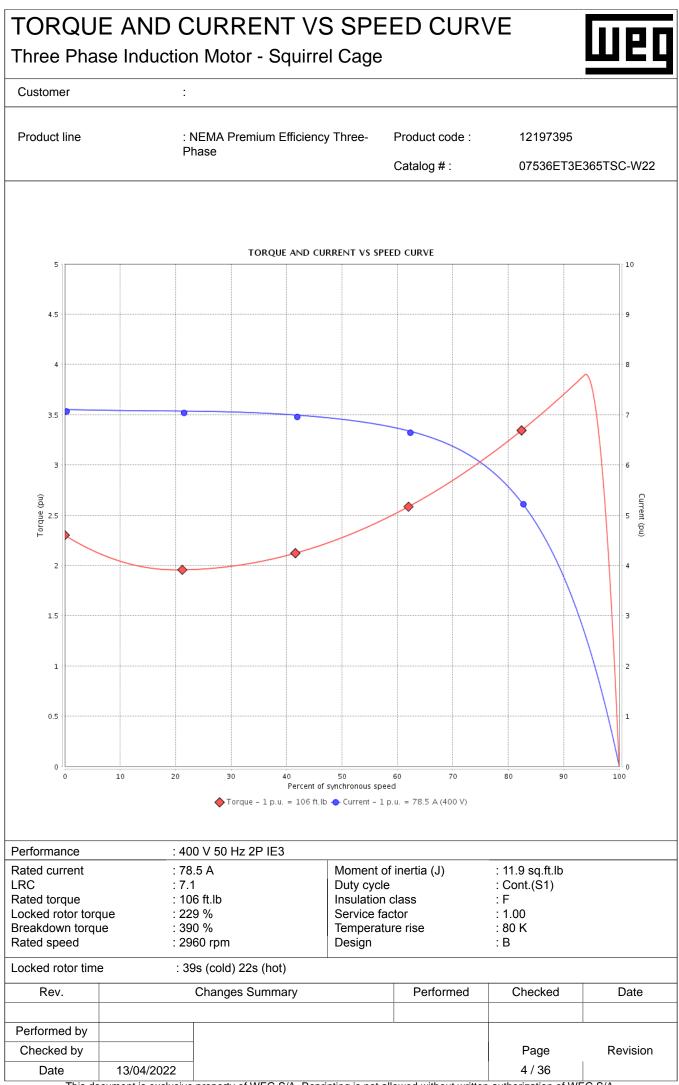
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





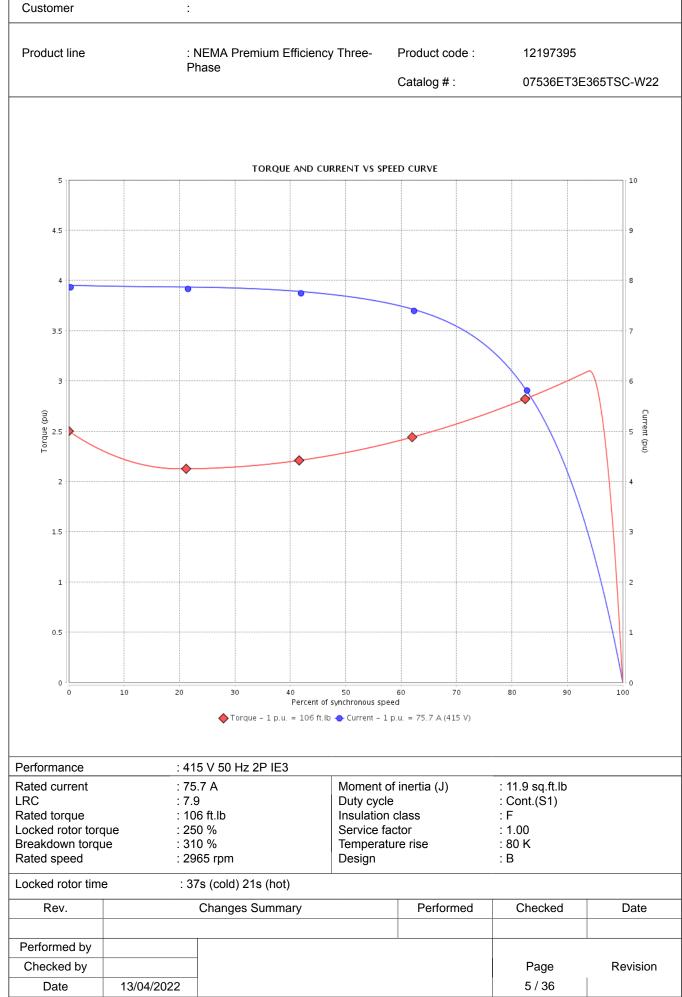
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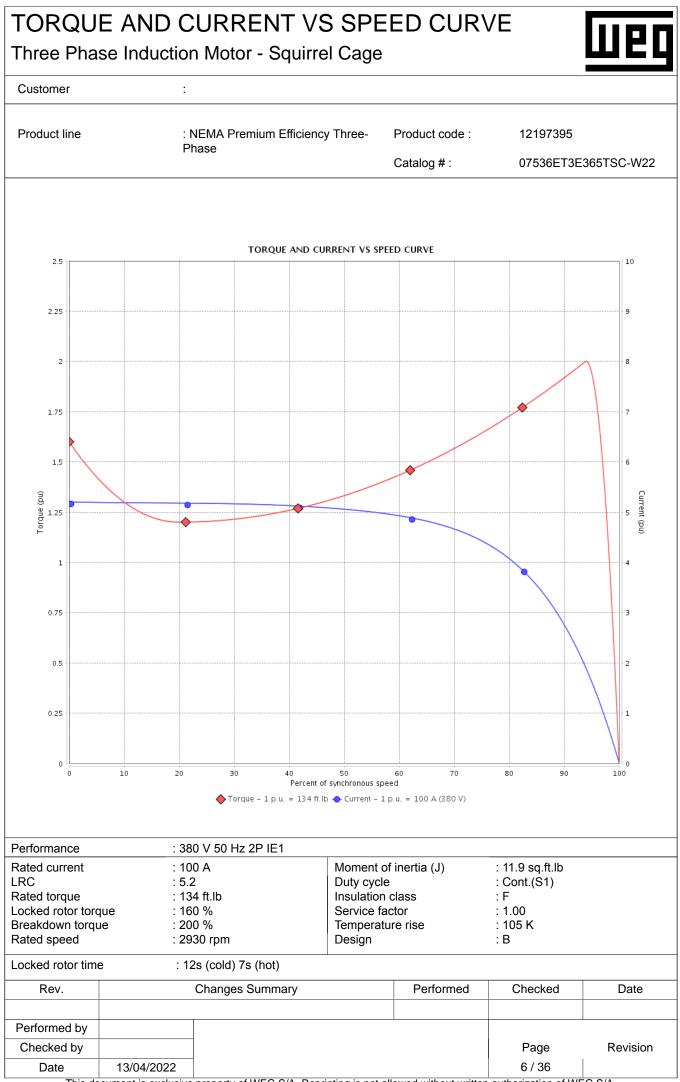
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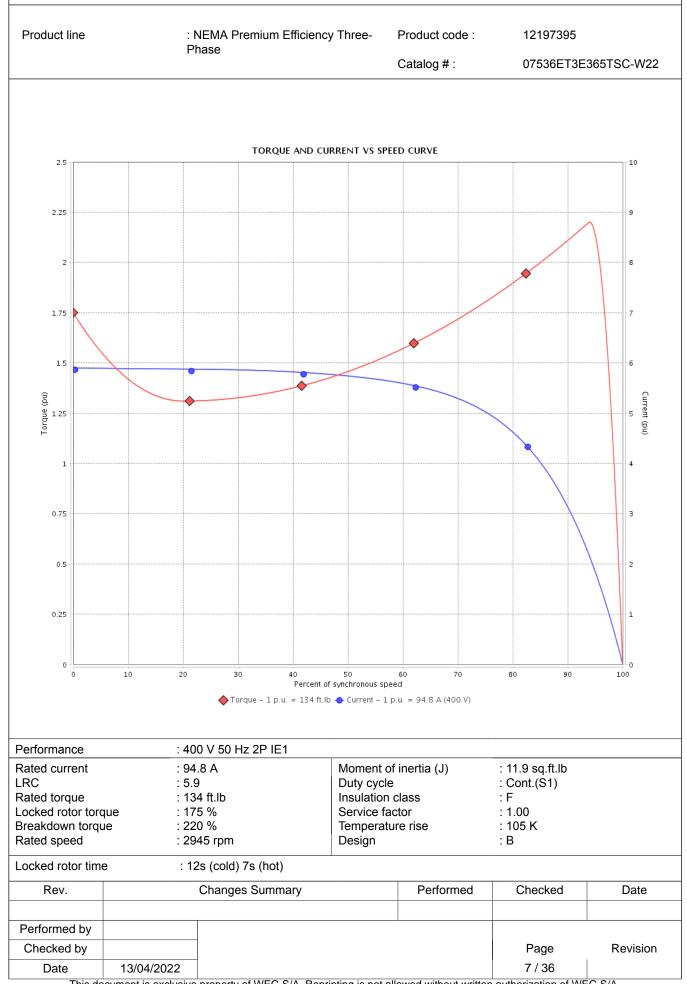
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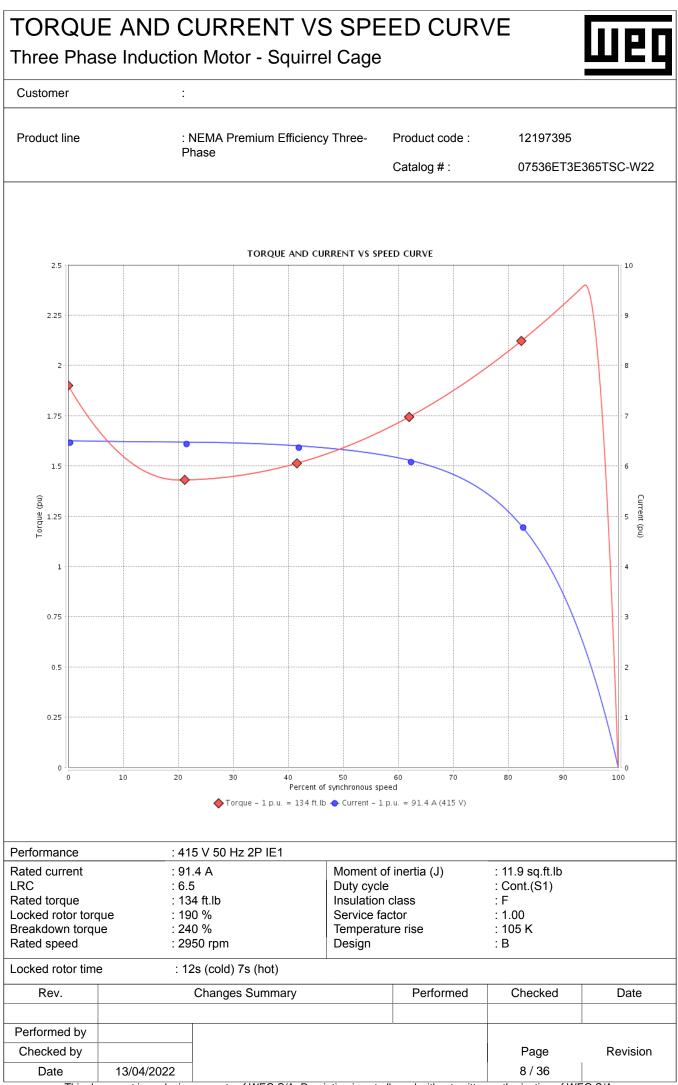
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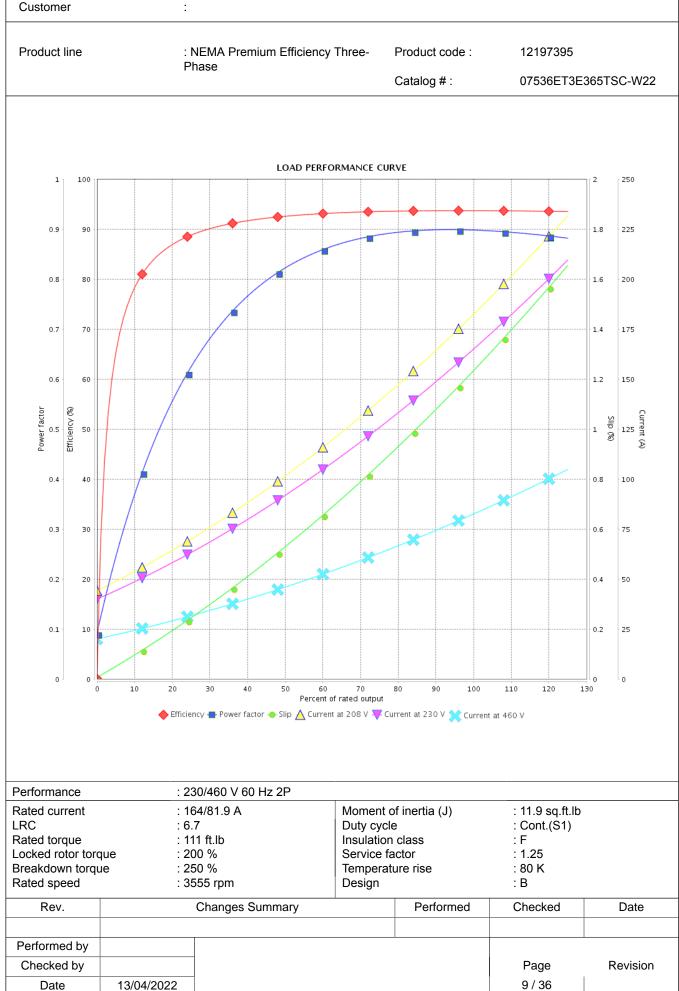






Three Phase Induction Motor - Squirrel Cage

Customer



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LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 12197395 Phase Catalog # : 07536ET3E365TSC-W22 LOAD PERFORMANCE CURVE 100 1 100 90 0.9 90 1.8 0.8 80 1.6 80 Δ 70 0.7 70 \wedge 1.4 Δ 0.6 60 1.2 60 Efficiency (%) Power factor Current Slip (%) 50 0.5 50 1 Δ Þ 0.4 40 0.8 40 Δ 0.3 30 0.6 30 Λ 0.2 20 0.4 20 0.1 10 0.2 10 0 0 0 0 ó 10 20 100 110 120 130 30 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛕 Current at 380 V Performance : 380 V 50 Hz 2P IE3 Rated current : 80.8 A Moment of inertia (J) : 11.9 sq.ft.lb LRC Duty cycle : Cont.(S1) : 6.5 : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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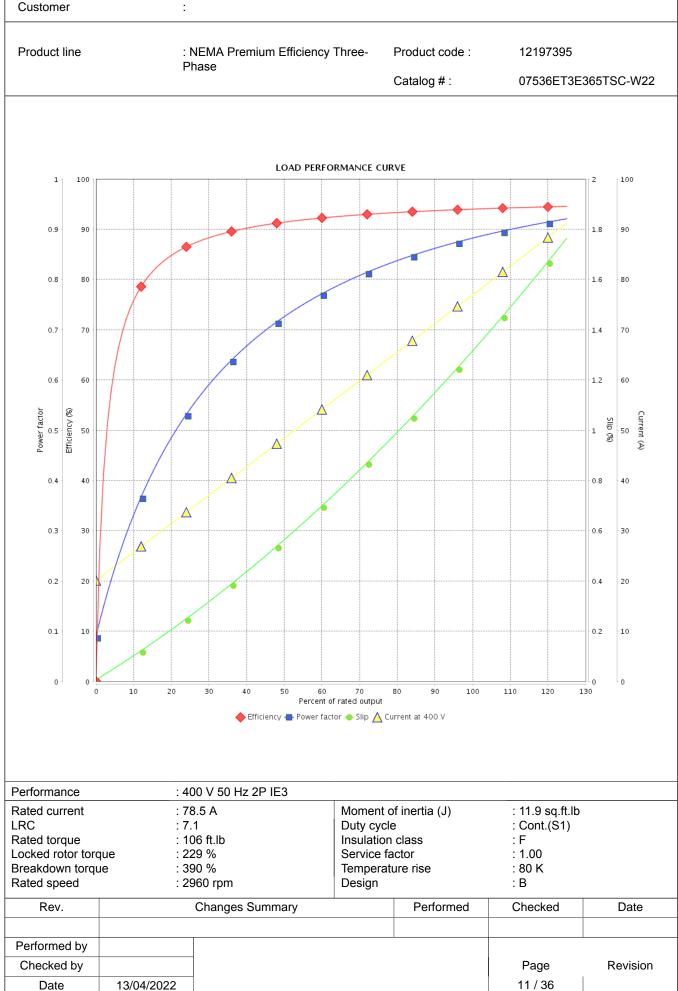
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Three Phase Induction Motor - Squirrel Cage

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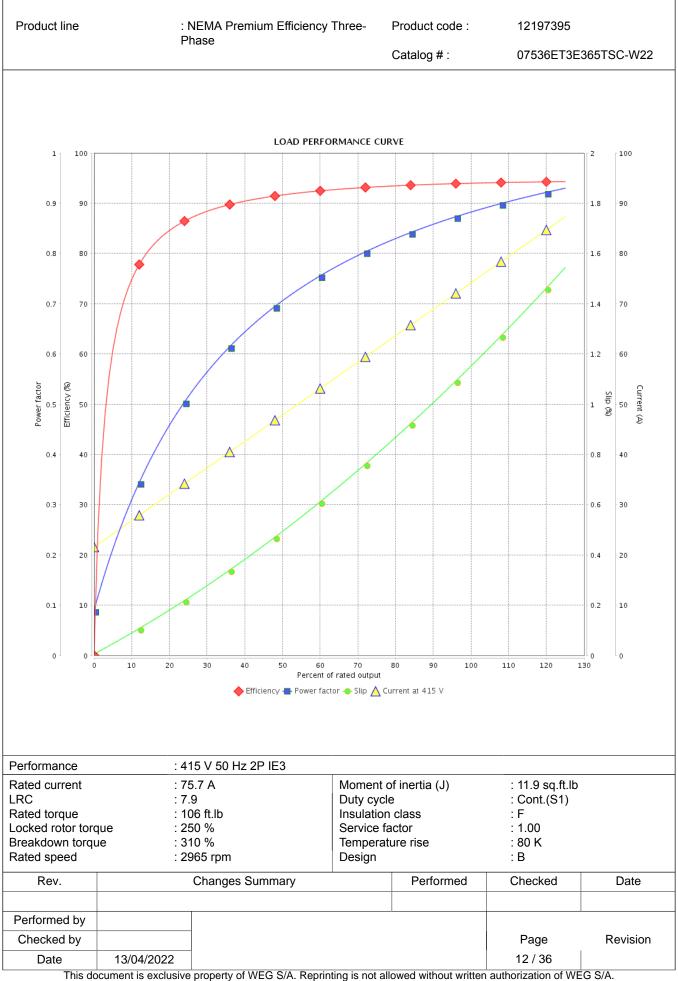
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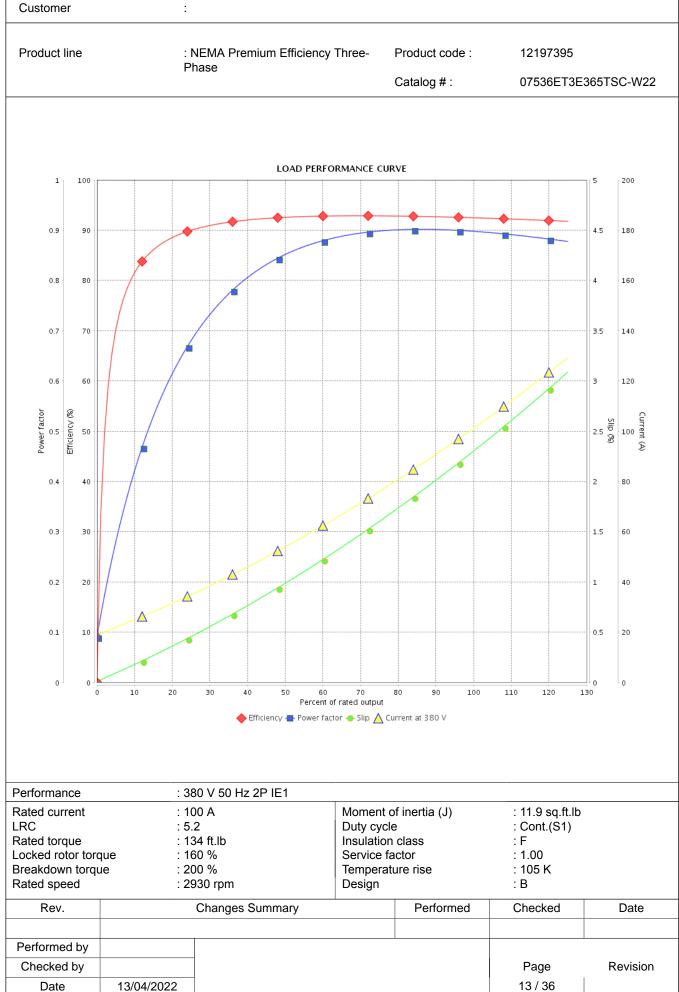


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Three Phase Induction Motor - Squirrel Cage

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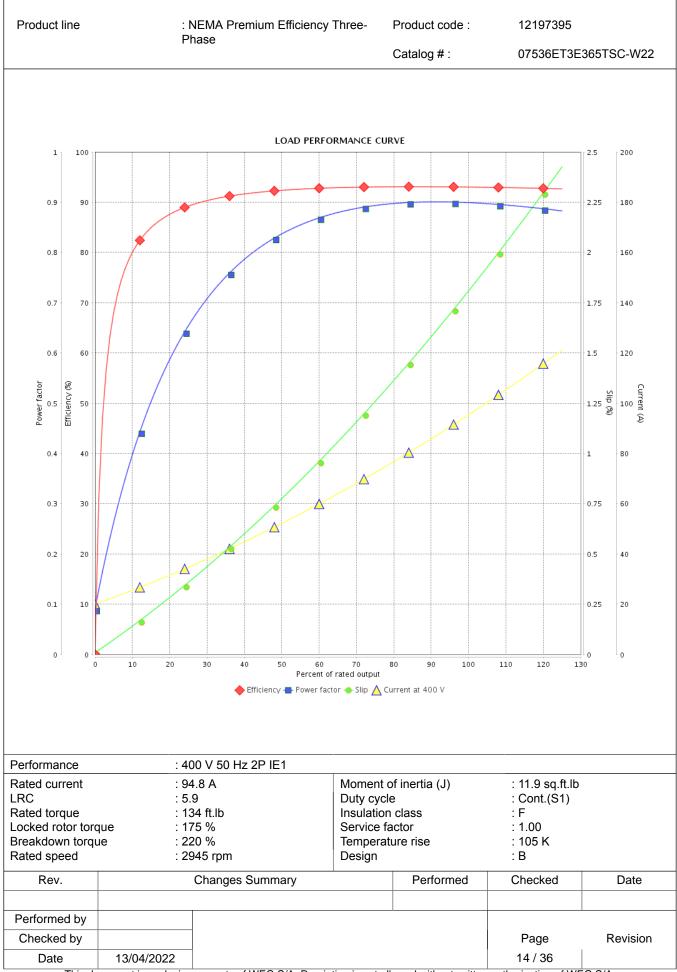
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Three Phase Induction Motor - Squirrel Cage

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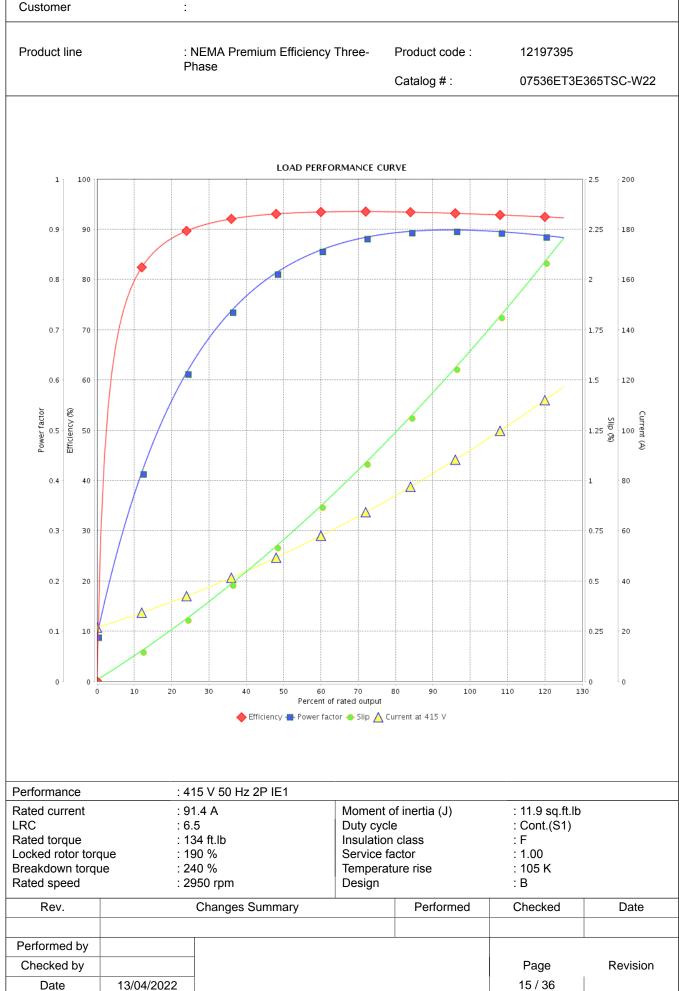


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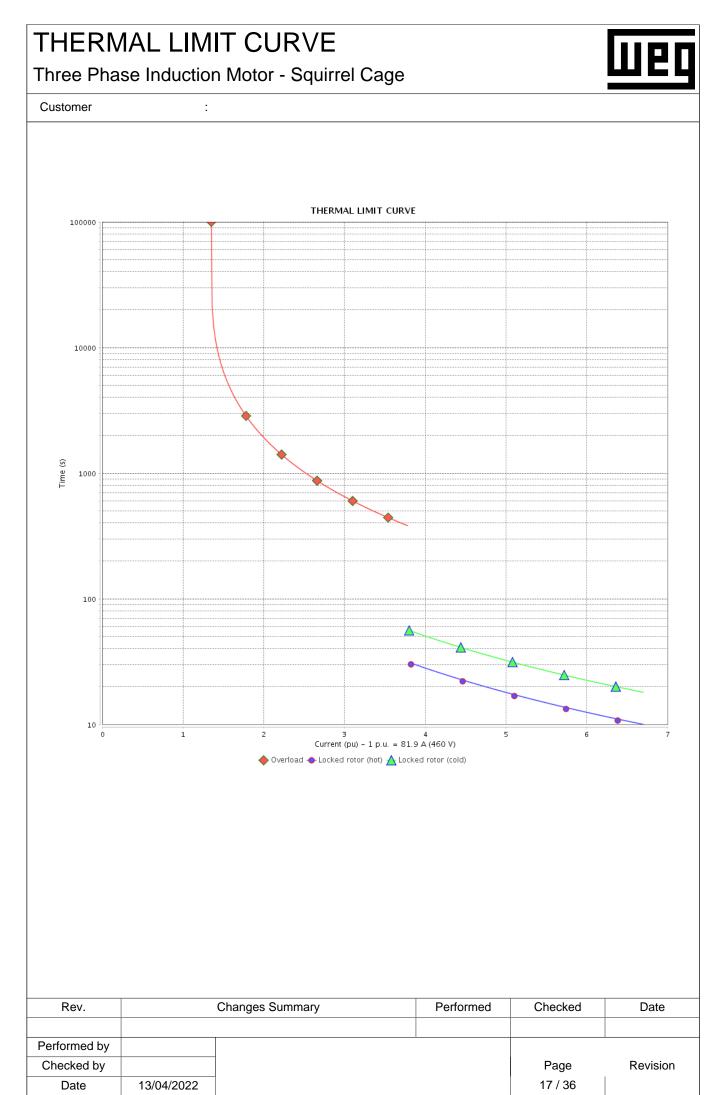
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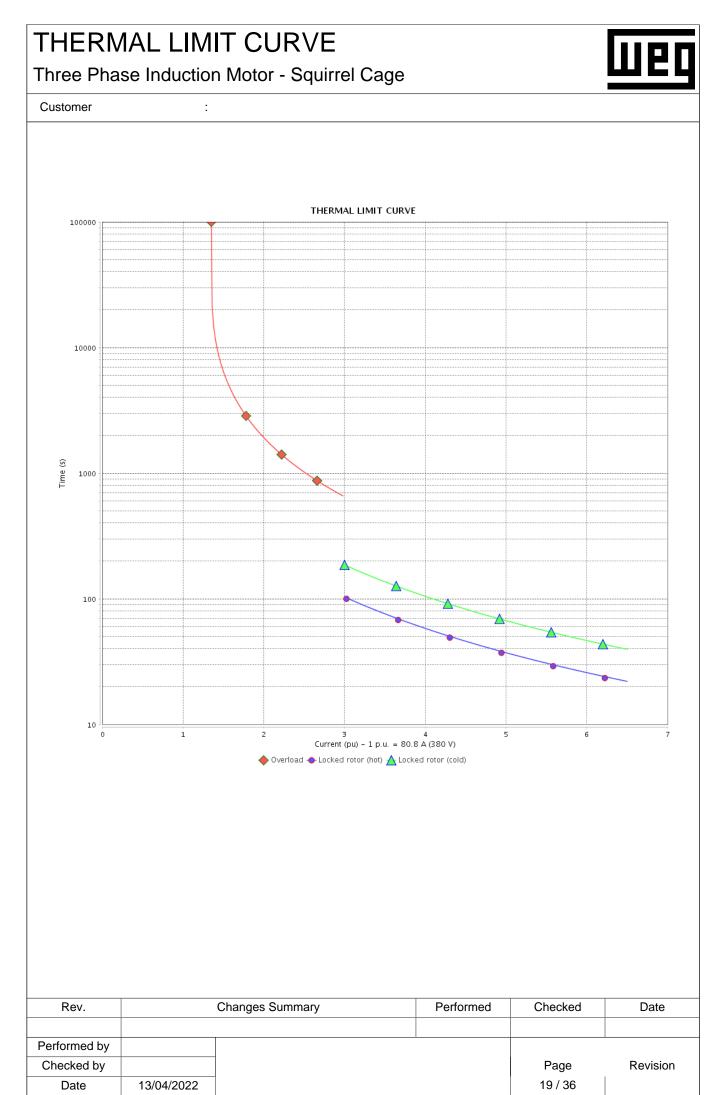
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Three Pha	se Inductio	on Motor - Squirrel	Cage			шсч			
Customer		:							
Product line		: NEMA Premium Efficiency [·] Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22			
Performance		230/460 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 164/81.9 A Moment : 6.7 Duty cycl : 111 ft.lb Insulation : 200 % Service ft : 250 % Temperation : 3555 rpm Design		class ictor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B				
Heating constant									
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date			
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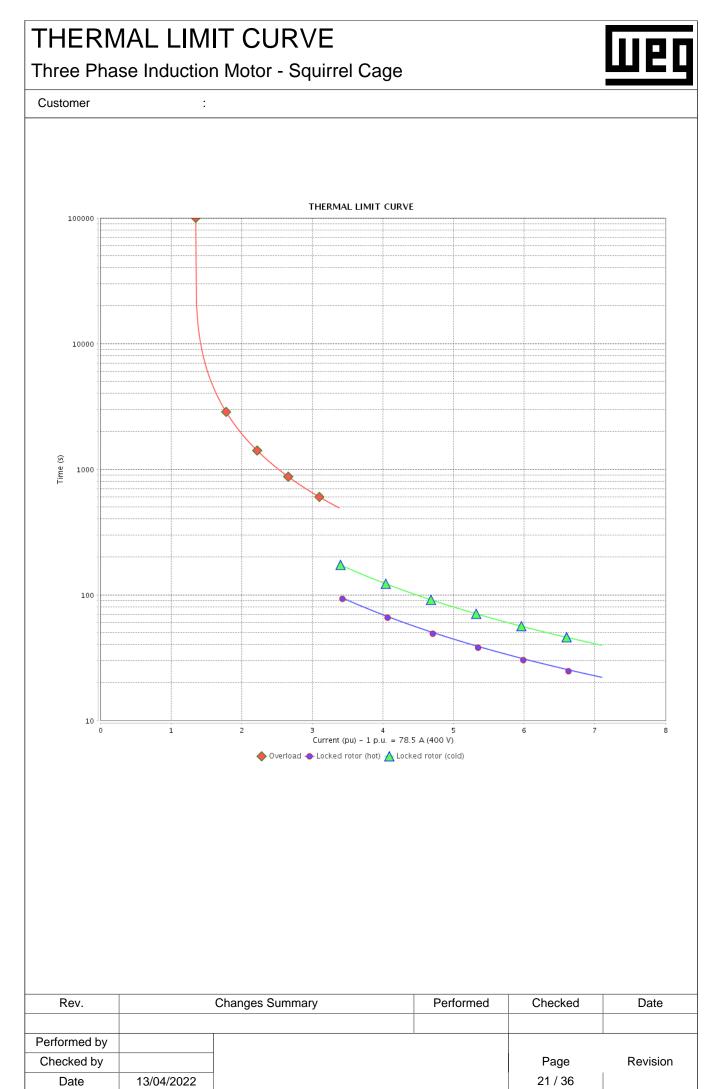
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer		:							
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22			
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	ine	: 380 V 50 Hz 2P IE3 : 80.8 A : 6.5 : 107 ft.lb : 210 % : 260 % : 2955 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B				
Heating constant									
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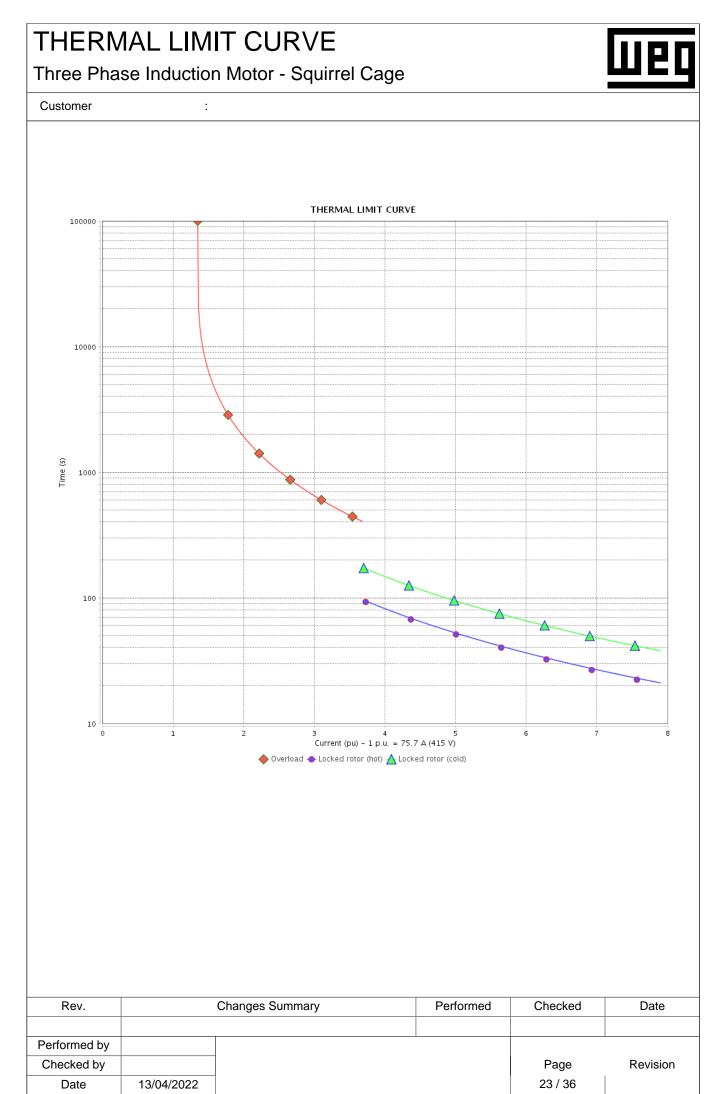
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22		
Performance		: 400 V 50 Hz 2P IE3						
Rated current		: 78.5 A		f inertia (J)	: 11.9 sq.ft.lb			
LRC Rated torque		: 7.1 : 106 ft.lb	Duty cycle Insulation		: Cont.(S1) : F			
Locked rotor tore	que	: 229 %	Service fa	ctor	: 1.00			
Breakdown torqu Rated speed	le	: 390 % : 2960 rpm	Temperatu Design	ure rise	: 80 K : B			
Heating constant								
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date		

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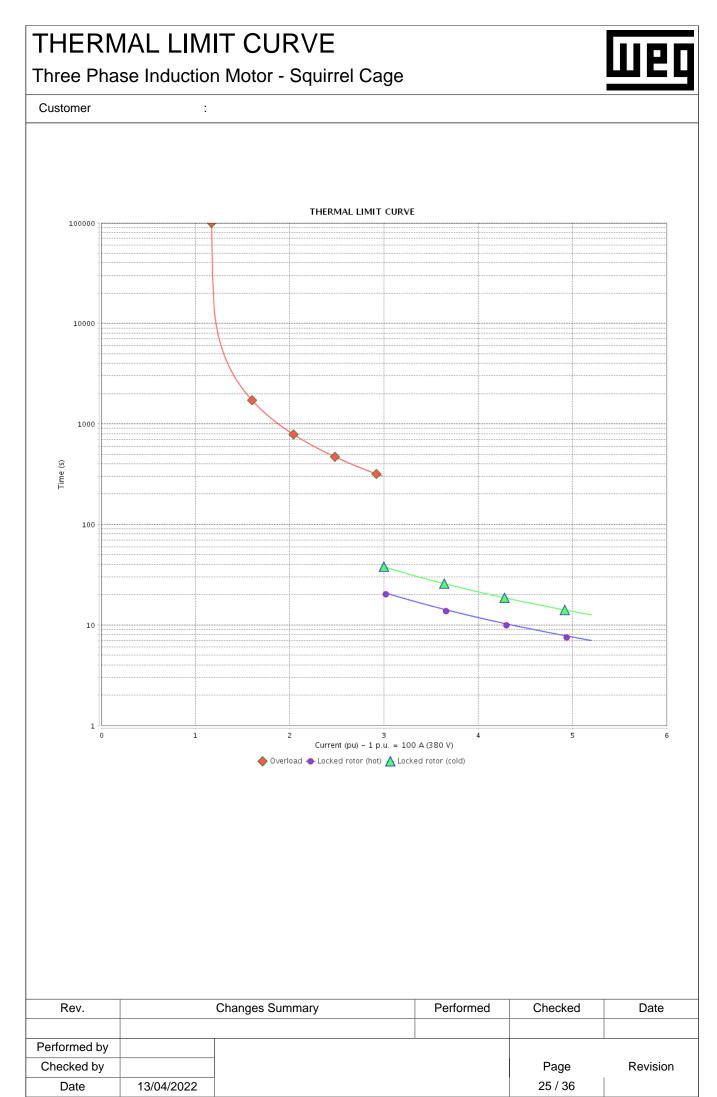
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Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22		
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	lne	: 415 V 50 Hz 2P IE3 : 75.7 A : 7.9 : 106 ft.lb : 250 % : 310 % : 2965 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constant								
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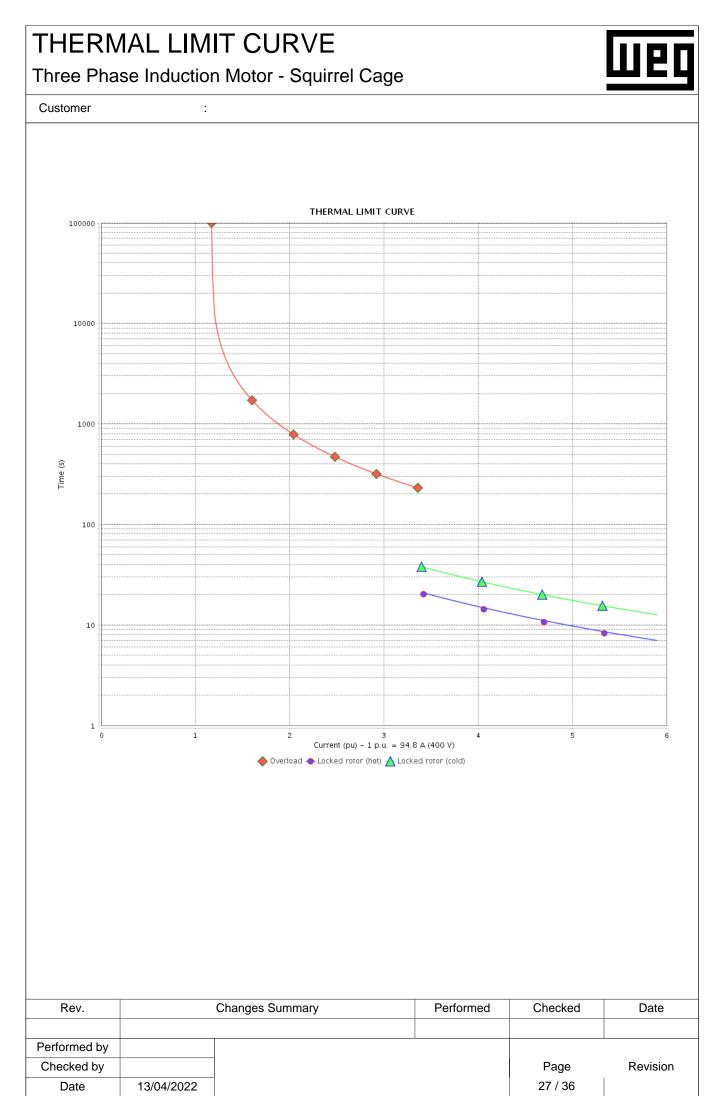
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer	:							
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22			
Performance	: 380 V 50 Hz 2P IE1							
Rated current LRC Rated torque Locked rotor torq		Duty cycle Insulation Service fa	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00				
Breakdown torqu Rated speed	e : 200 % : 2930 rpm	Temperatu Design	ure rise	: 105 K : B				
Heating constant		-						
Cooling constant Rev.	Changes Summary		Performed	Checked	Date			
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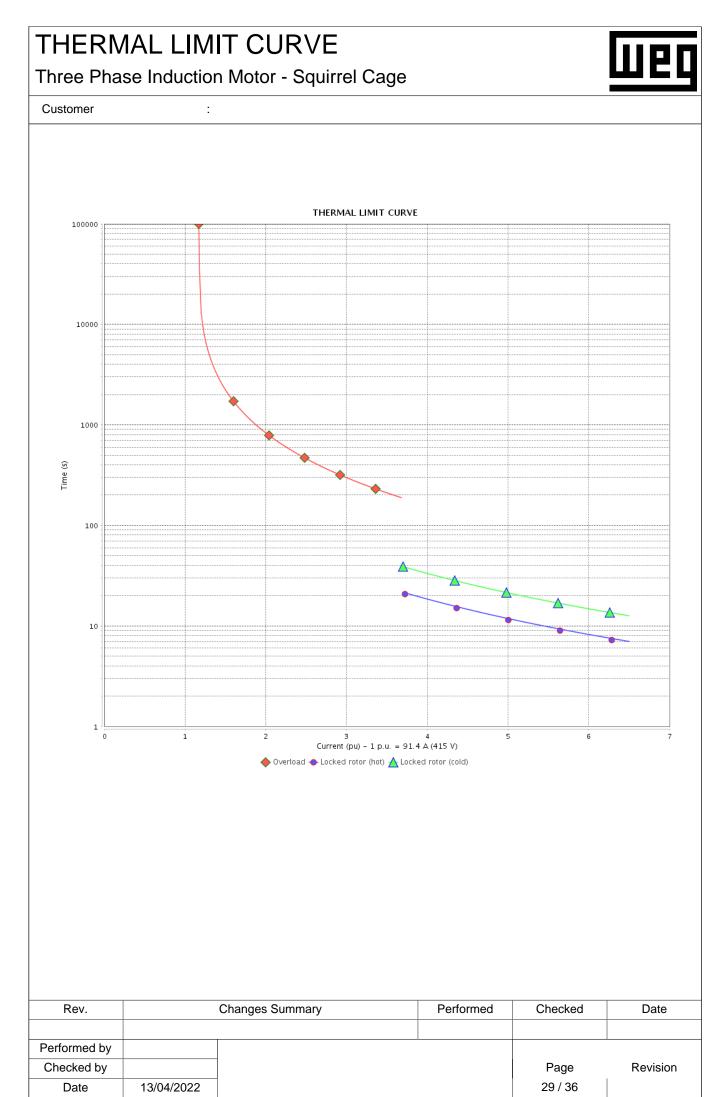
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Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22		
Performance Rated current		: 400 V 50 Hz 2P IE1 : 94.8 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb			
LRC		: 5.9	Duty cycle	e	: Cont.(S1)			
Rated torque Locked rotor torq		: 134 ft.lb : 175 %	Insulation Service fa		: F : 1.00			
Breakdown torqu Rated speed	le	: 220 % : 2945 rpm	Temperati Design		: 105 K : B			
Heating constant Cooling constant								
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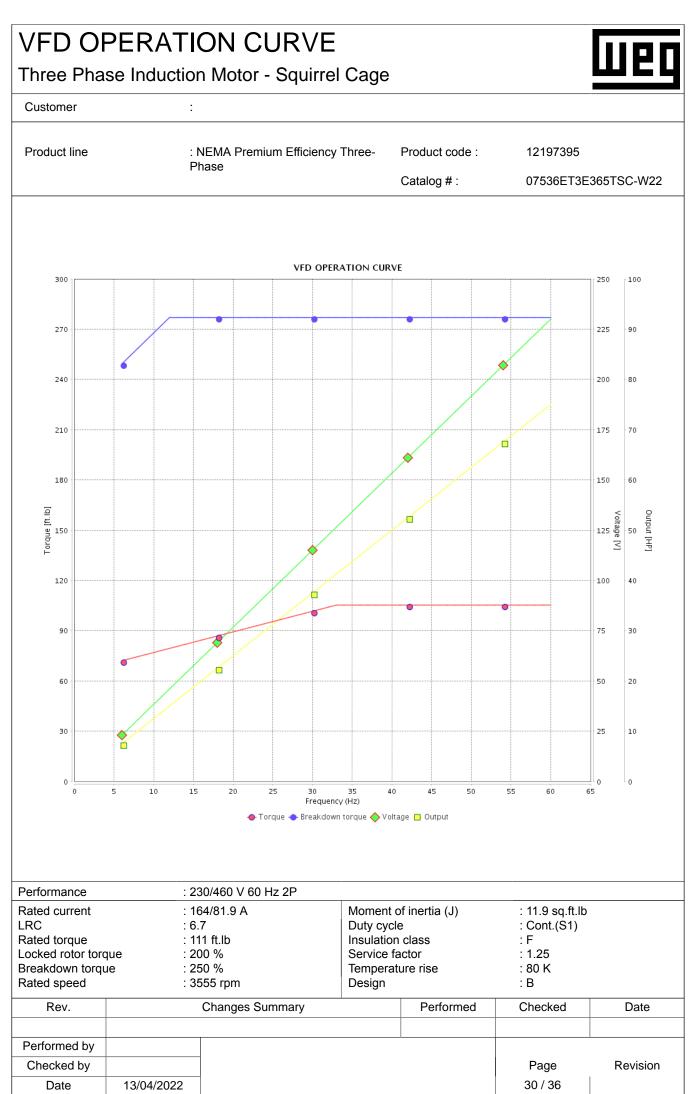
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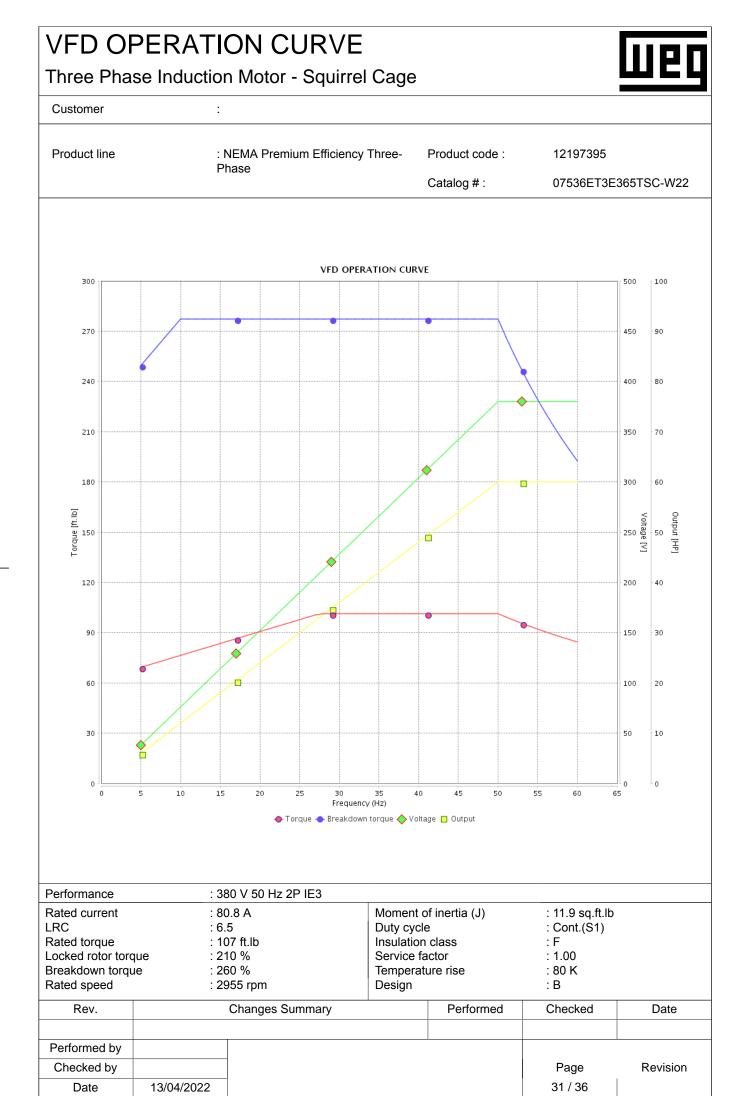


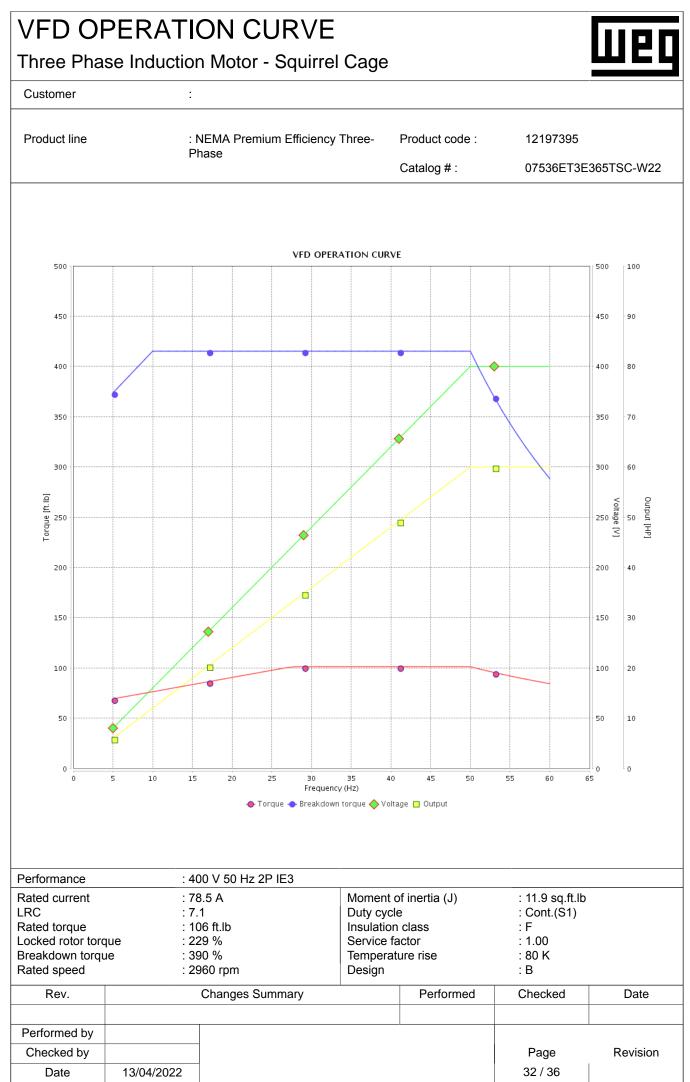
		MIT CURVE	Cage			Шeq
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12197395 07536ET3E	365TSC-W22
Performance		: 415 V 50 Hz 2P IE1				
Rated current LRC		: 91.4 A : 6.5		of inertia (J)	: 11.9 sq.ft.lb	
Rated torque		: 134 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque : 190 %		: 190 %	Service factor : 1.00			
Breakdown torqu Rated speed		: 240 % : 2950 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant		· · F				
Cooling constant						
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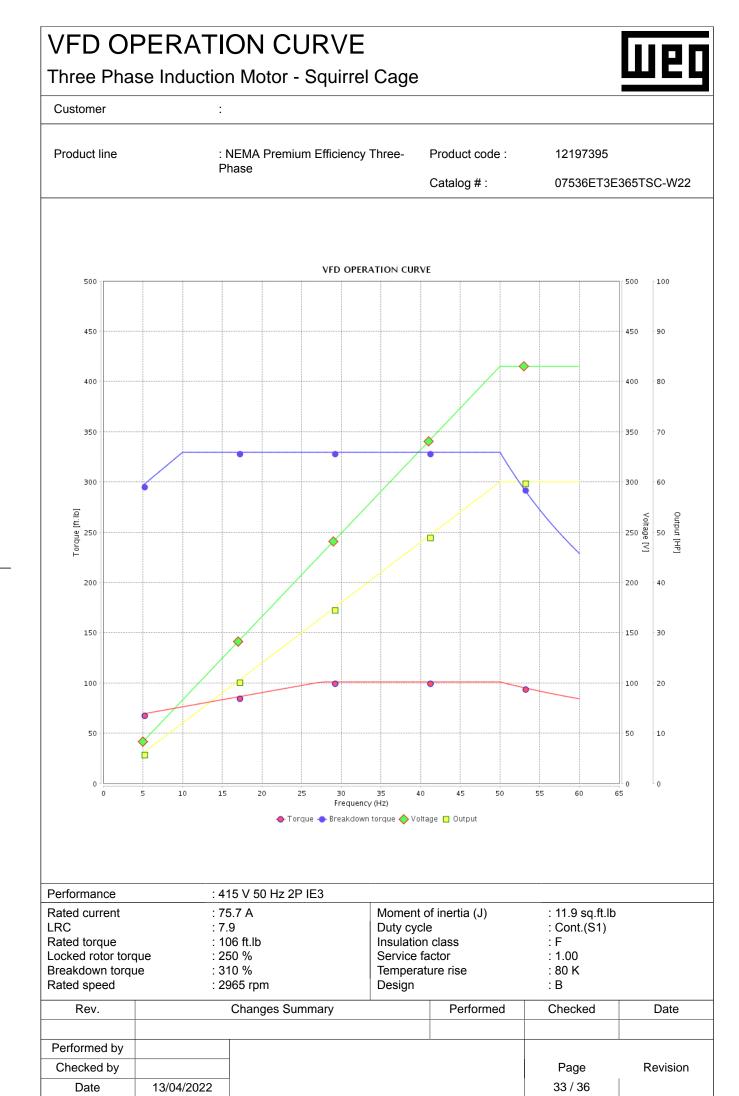
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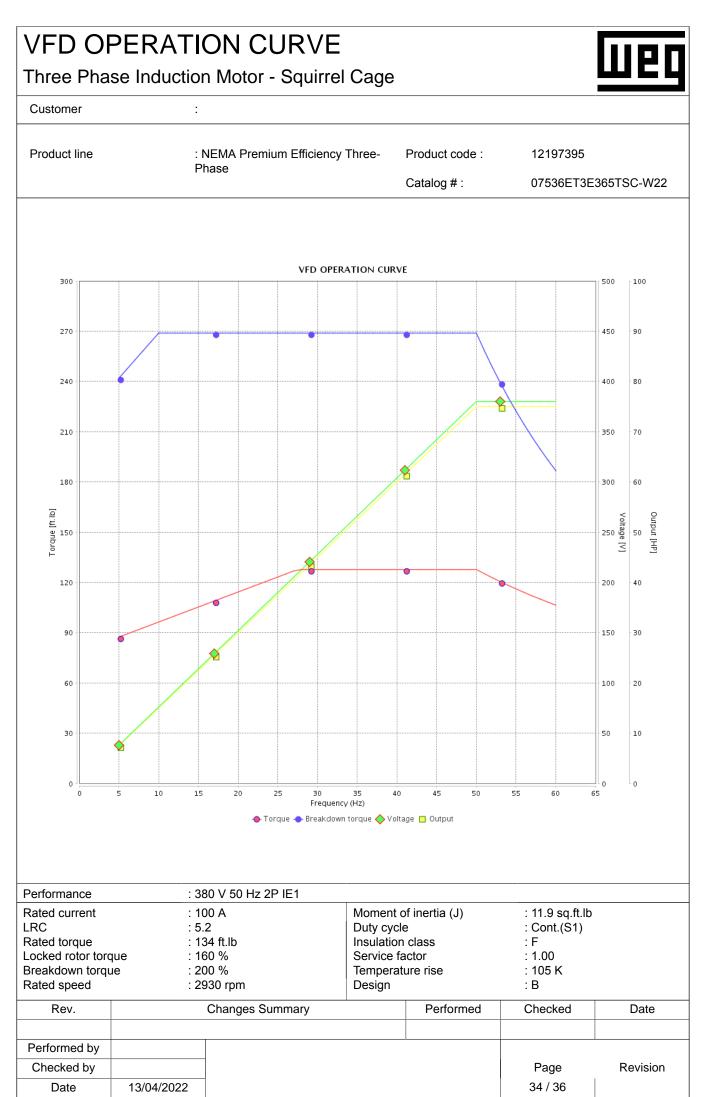


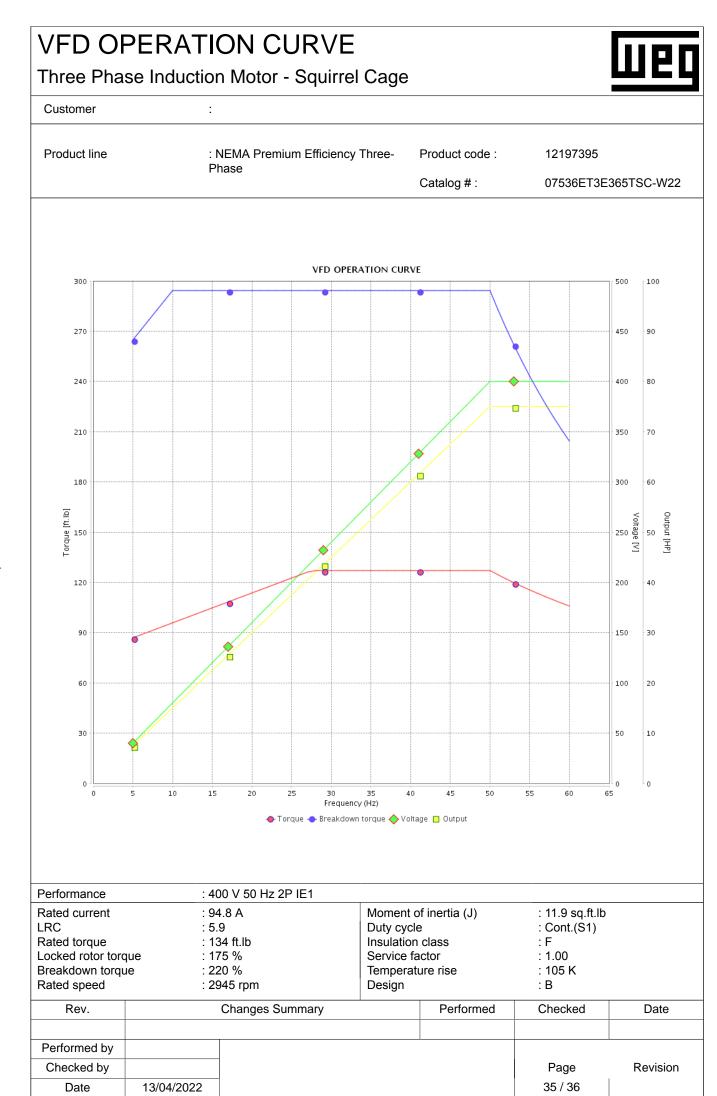


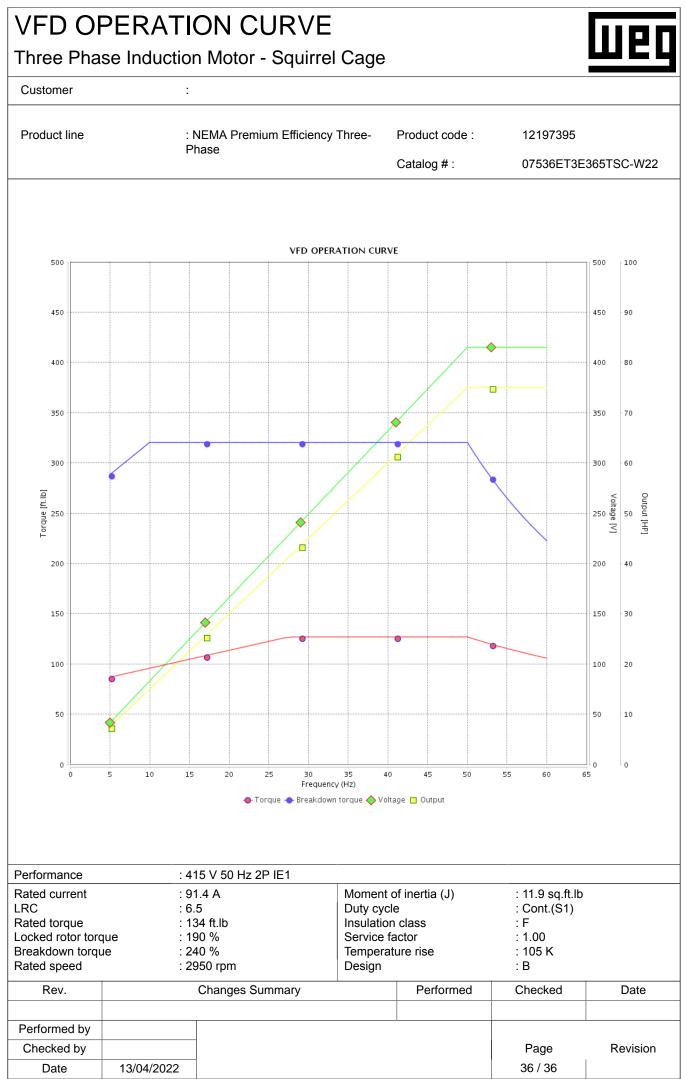


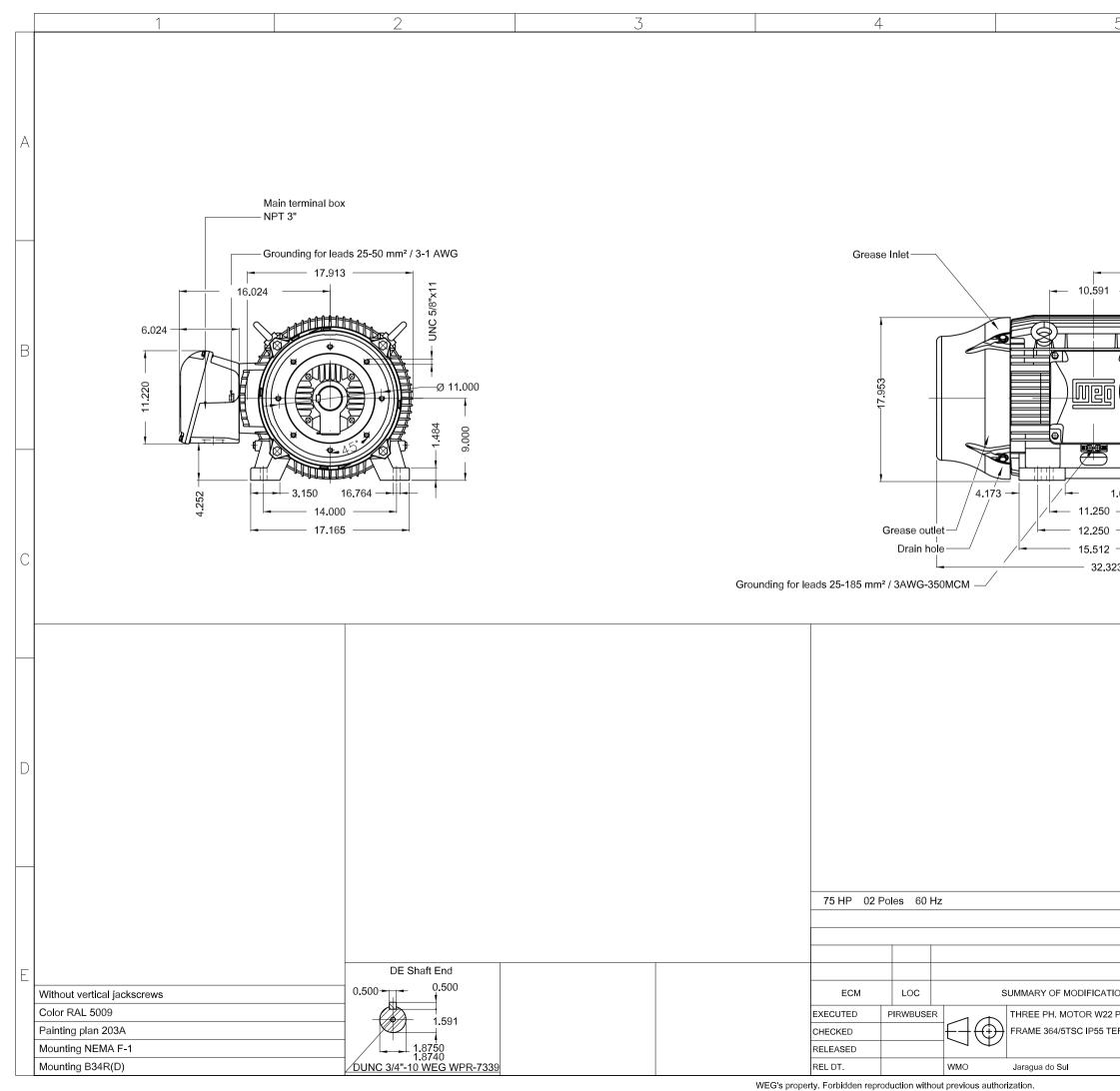












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