# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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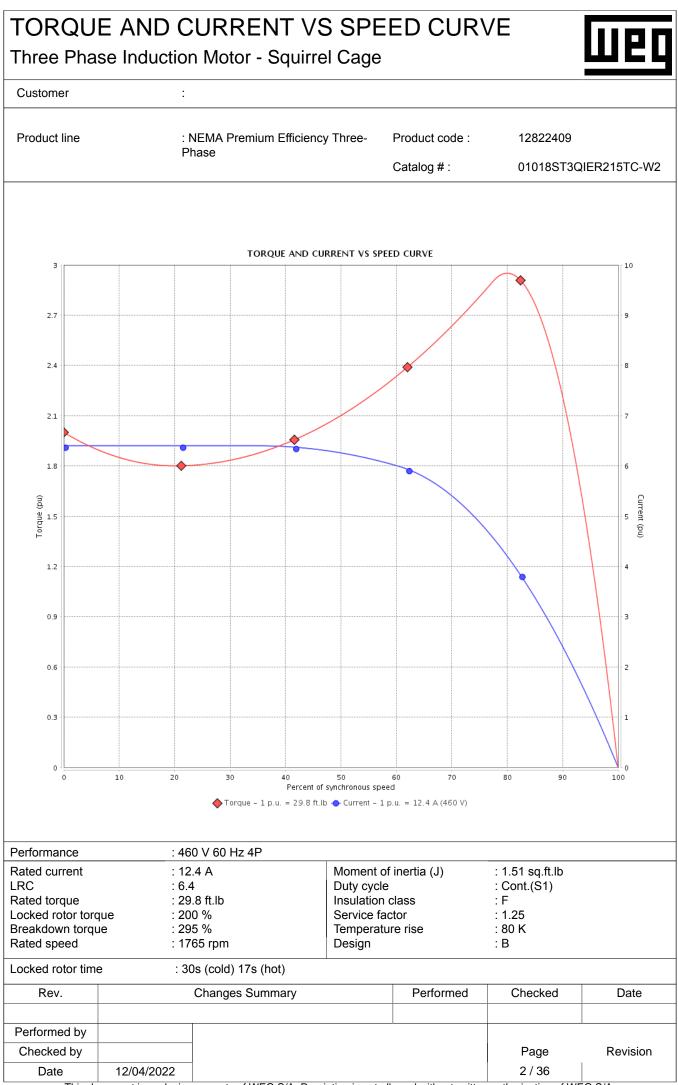
#### Customer

Product line			mium Efficien	cy Three-	Product code	e: 12	822409	
		Phase			Catalog # :	01	018ST3QIER	215TC-W2
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 215TC : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mounti Rotatio Starting Approx		: V : E : C : 1	C411 - TEFC V-6 Both (CW and Direct On Line 90 lb .51 sq.ft.lb	,
Output [HP]		10	7.5	7.5	7.5	10	10	10
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]		12.4	11.2	11.0	10.9	15.0	14.2	13.8
. R. Amperes [A]		79.4	75.0	78.1	81.7	76.5	79.5	82.8
_RC [A]		6.4x(Code H)	ь./x(Code H)	1.1x(Code J)	7.5x(Code J)	5.1x(Code F)	5.6x(Code F)	6.0x(Code G)
No load current [A	1	5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPI		1765	1465	1470	1470	1450	1455	1460
Slip [%]	<u>.</u>	1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [ft.lb	]	29.8	26.9	26.8	26.8	36.2	36.1	36.0
Locked rotor torqu		200	200	240	260	150	180	190
Breakdown torque		295	300	340	360	220	250	270
Service factor		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
ocked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold 14s (hot)
Noise level <sup>2</sup>		58.0 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%	90.8	90.0	88.8	88.0	91.6	90.7	90.1
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5	90.2
	25%	0.40	0.37	0.34	0.32	0.46	0.43	0.40
Power Factor	50%	0.66	0.62	0.58	0.55	0.73	0.69	0.66
	75%	0.77	0.76	0.73	0.70	0.82	0.80	0.78
	100%	0.83 Drive end	0.83 Non drive	0.80 end Founda	0.78 tion loads	0.86	0.85	0.84
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		: 6308 C3 : Inpro/Sea : 19000 h : 11 g	3 6207 ( al Inpro/S	C3 Max. tra eal Max. co			53 lb 43 lb	
Notes			•	I				
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3	8dB(A).		are average va supply, subject			
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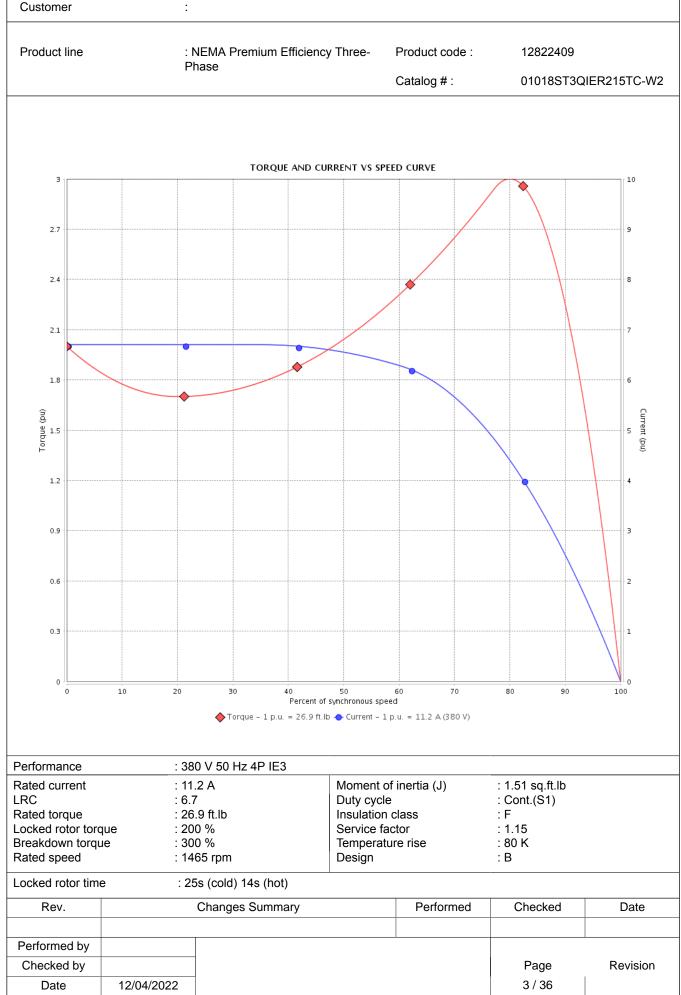
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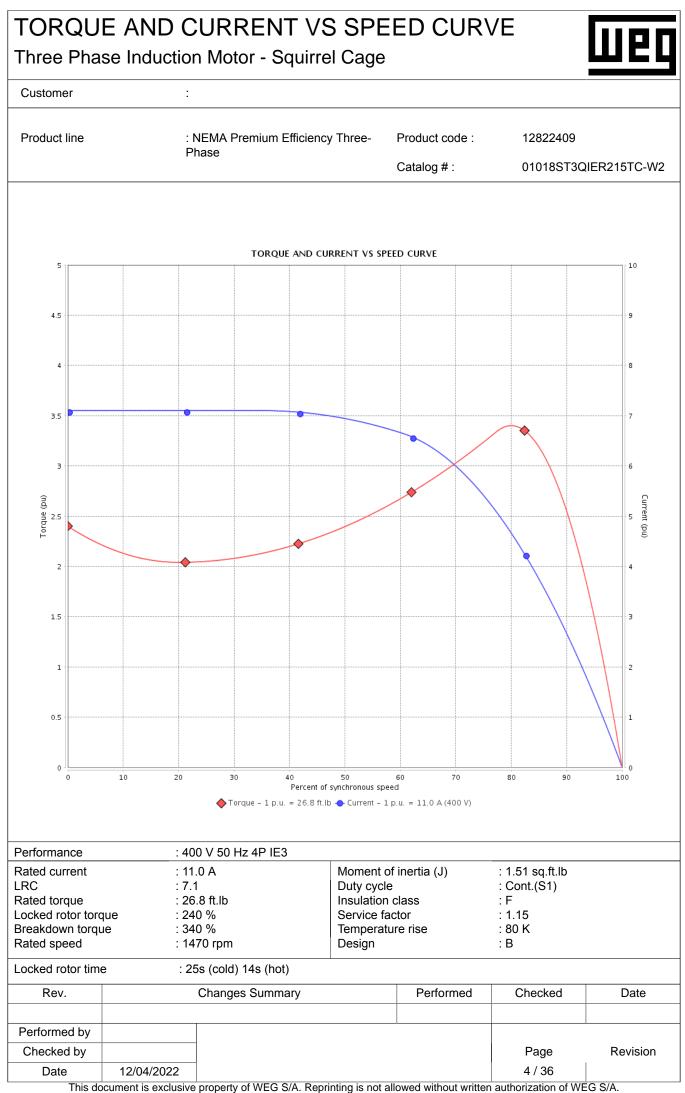
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



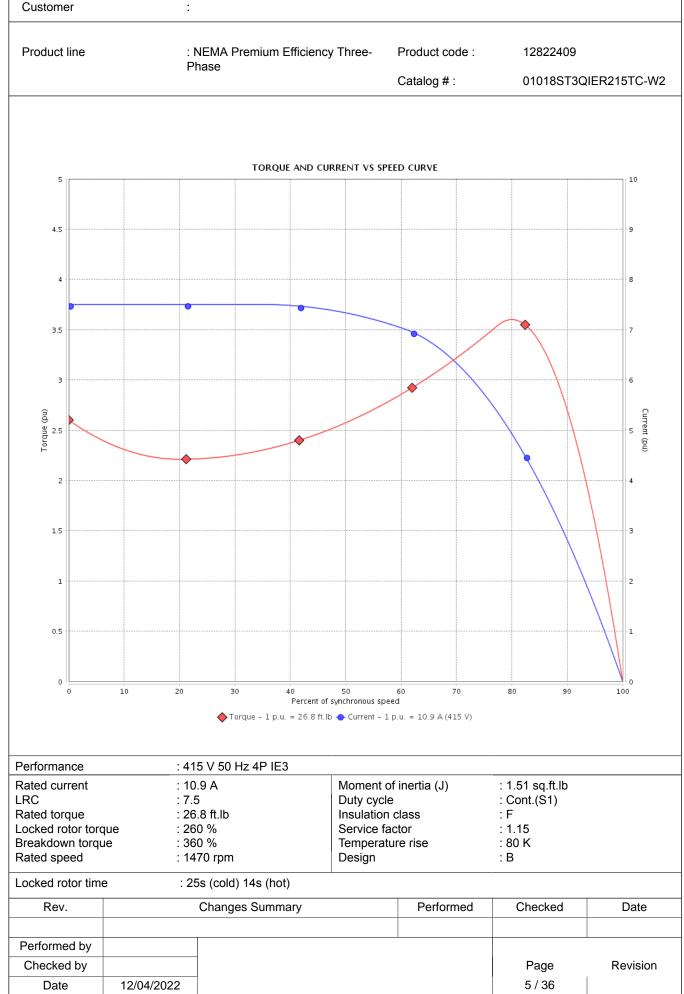
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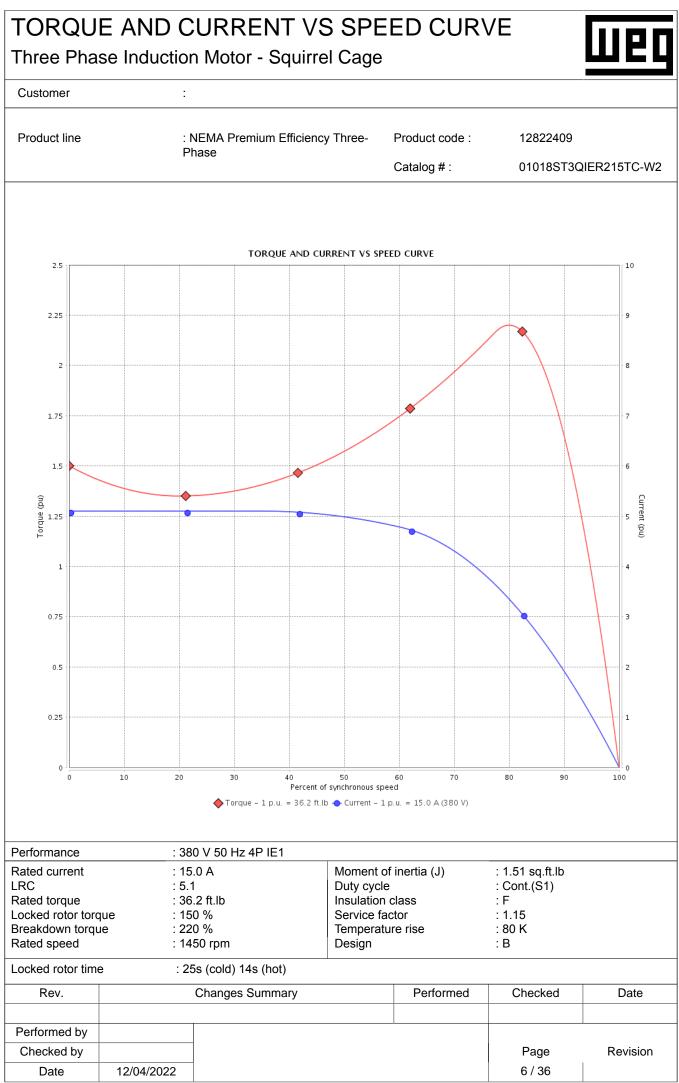
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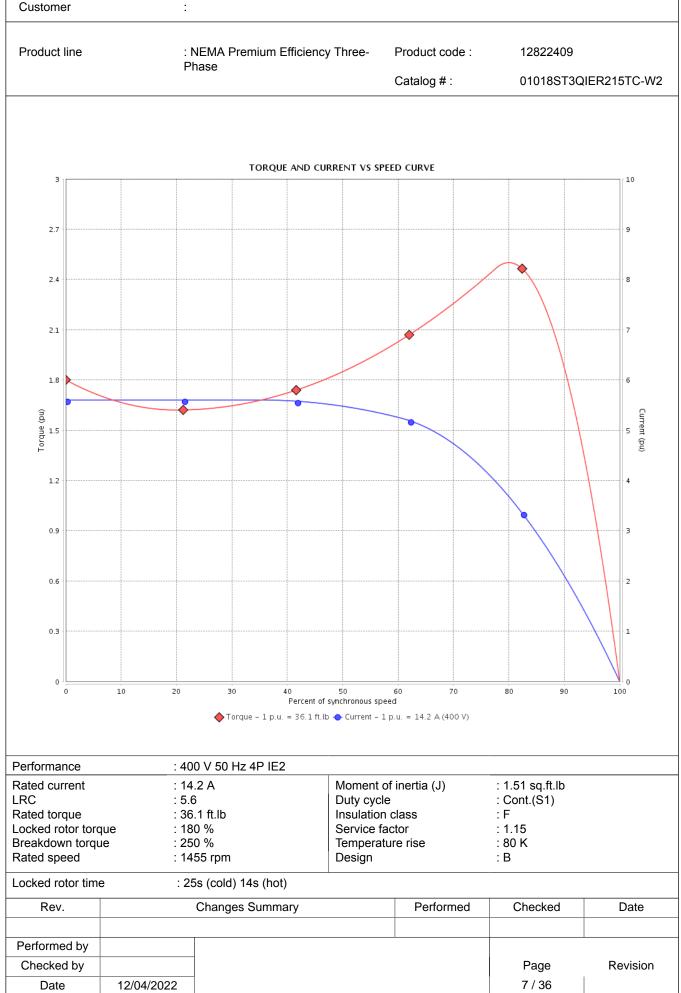
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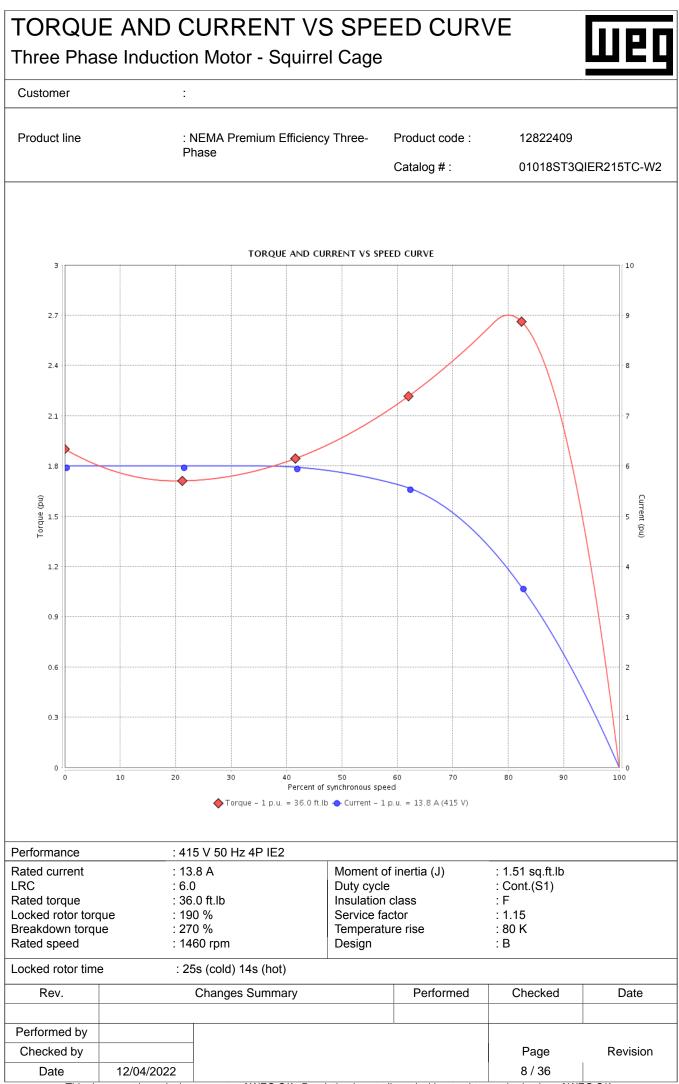
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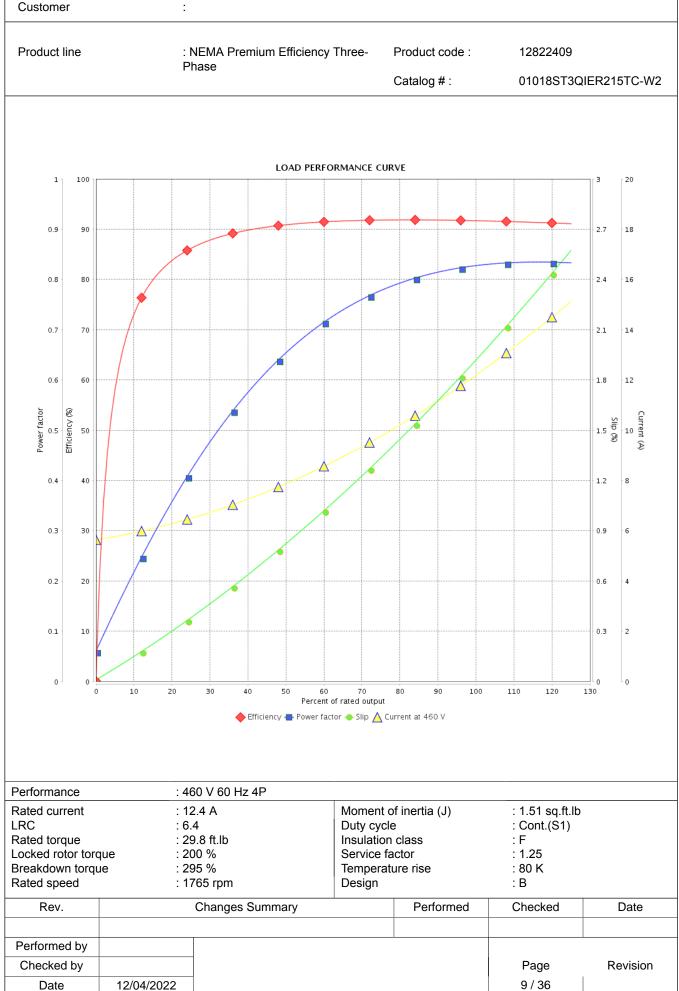


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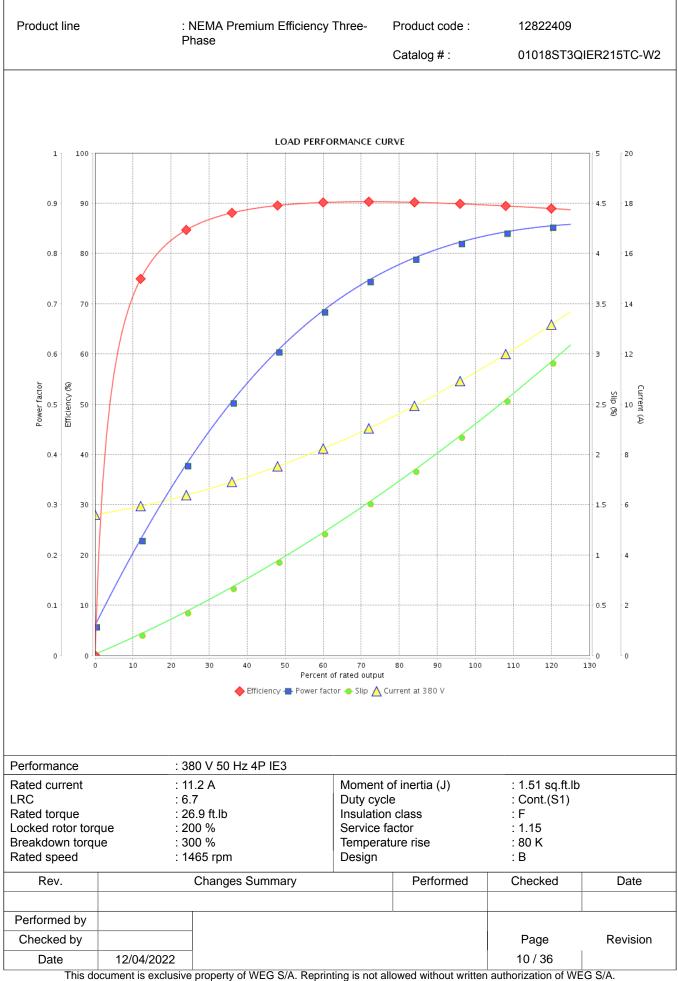
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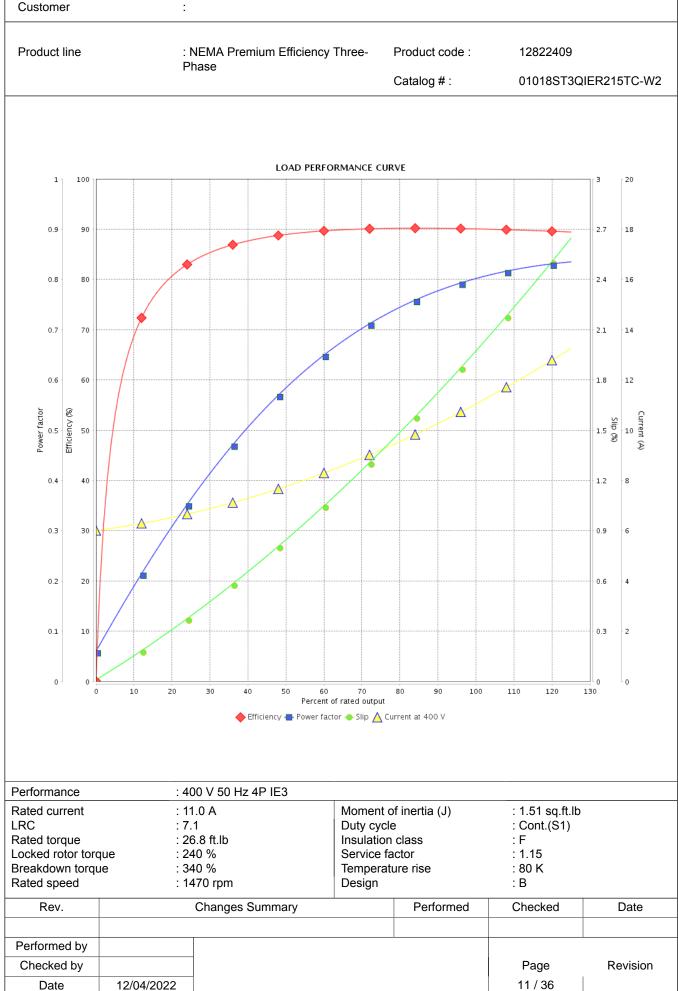


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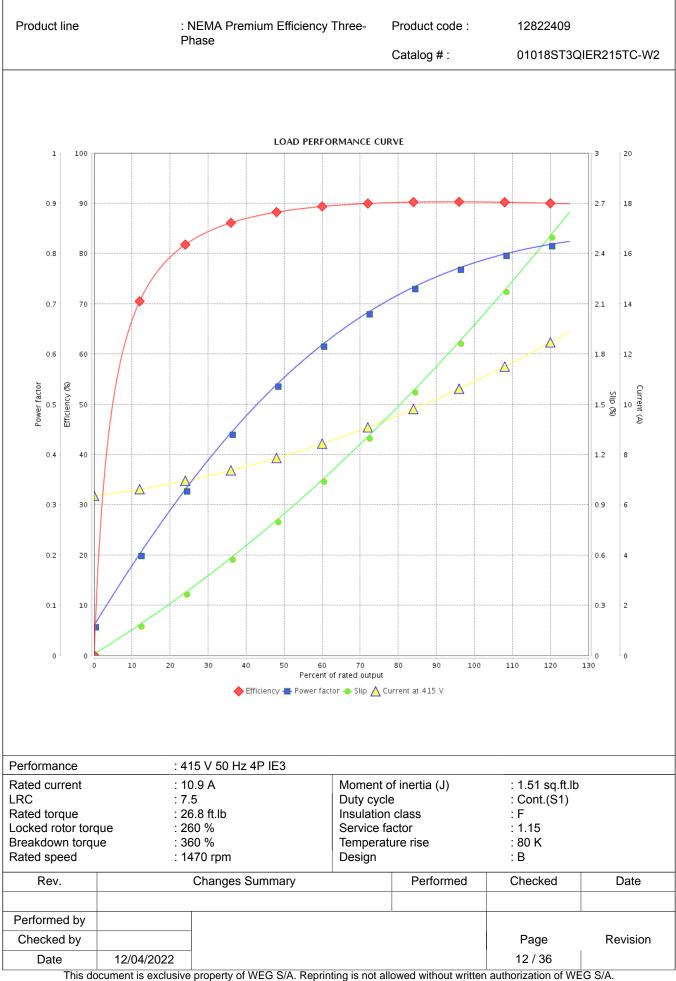
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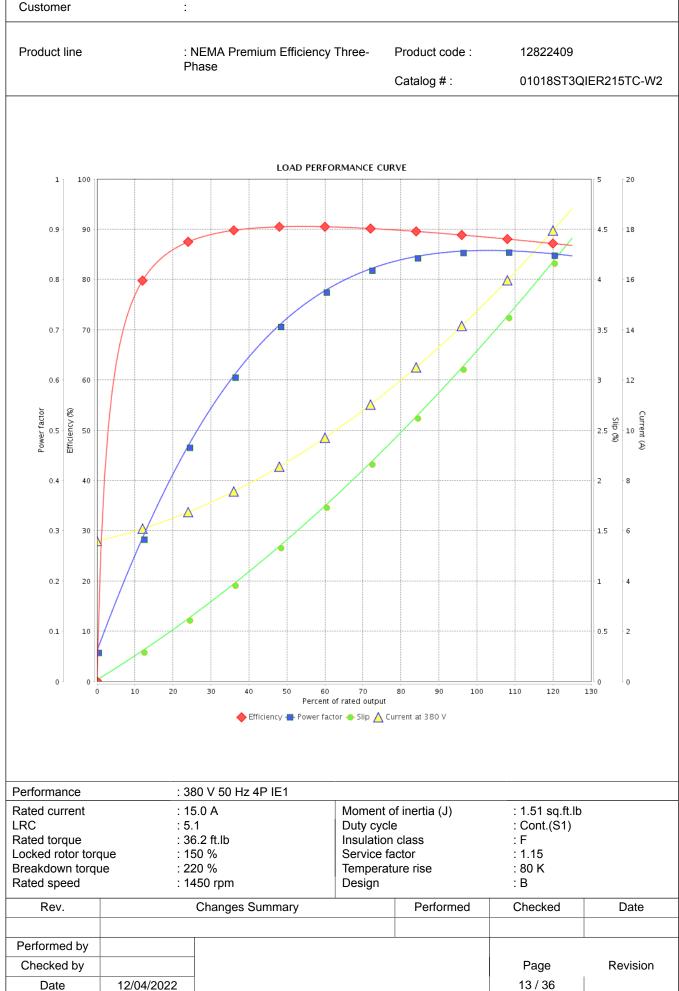


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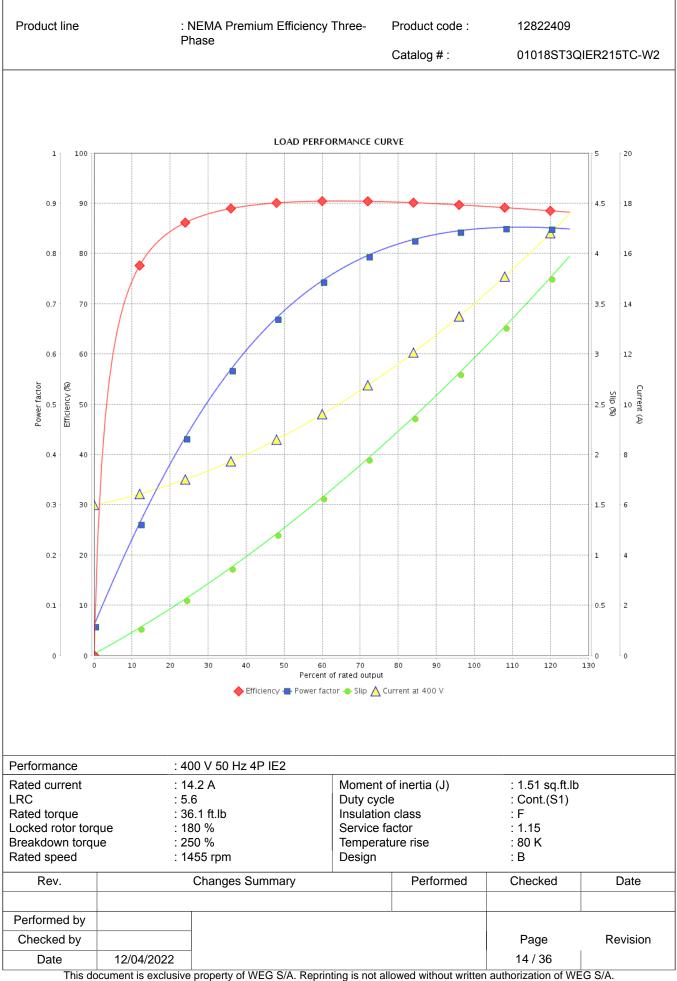
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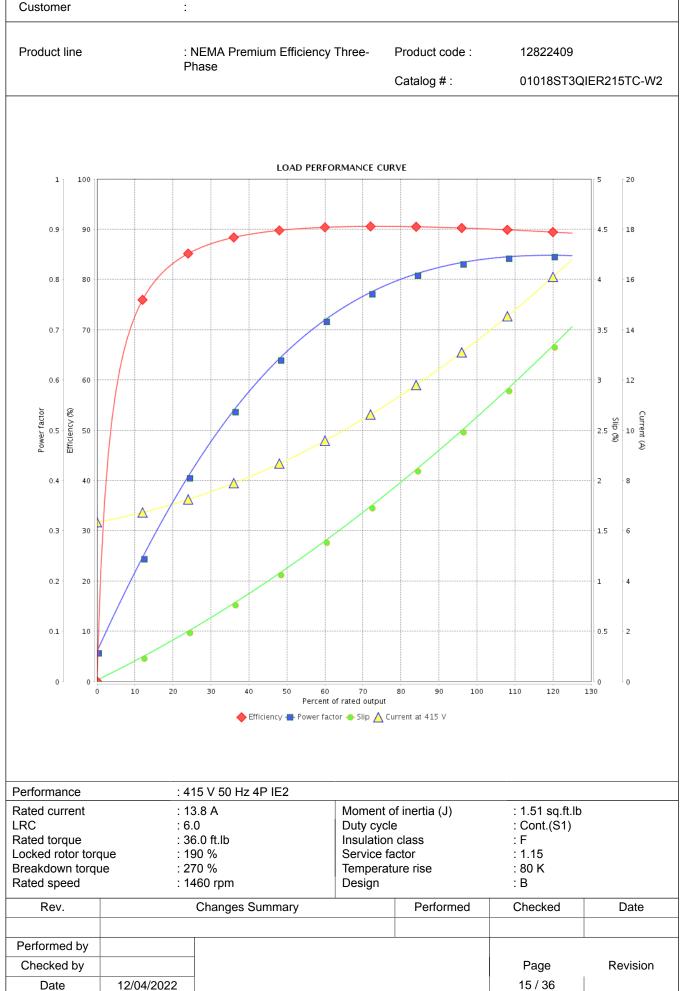


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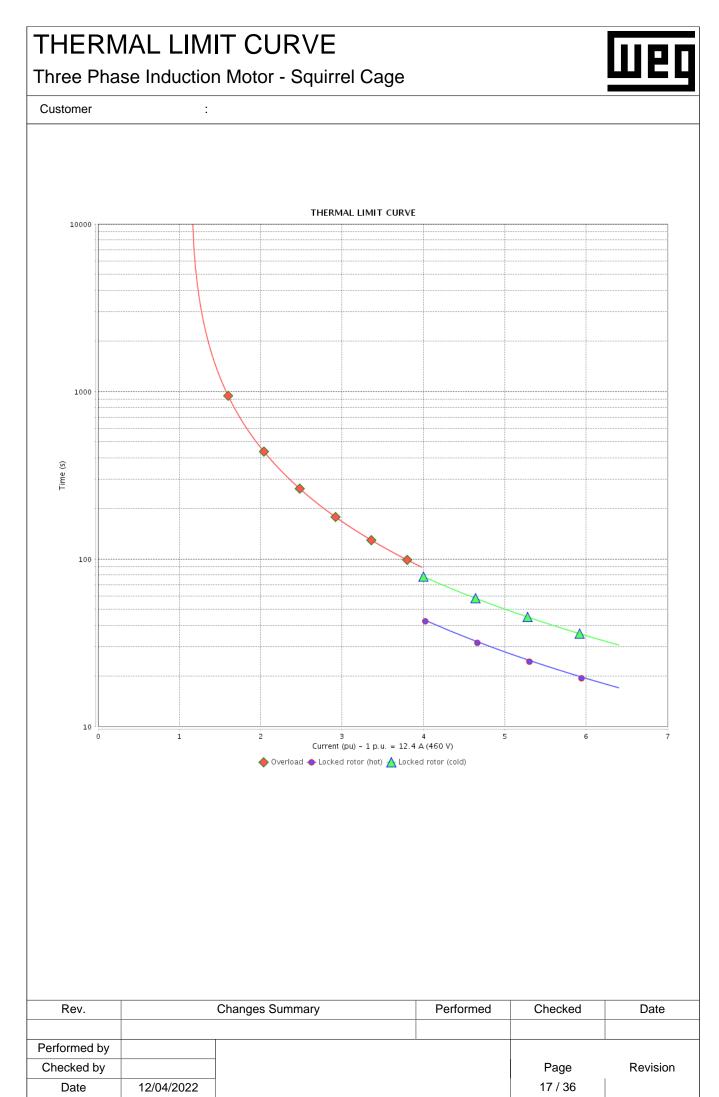
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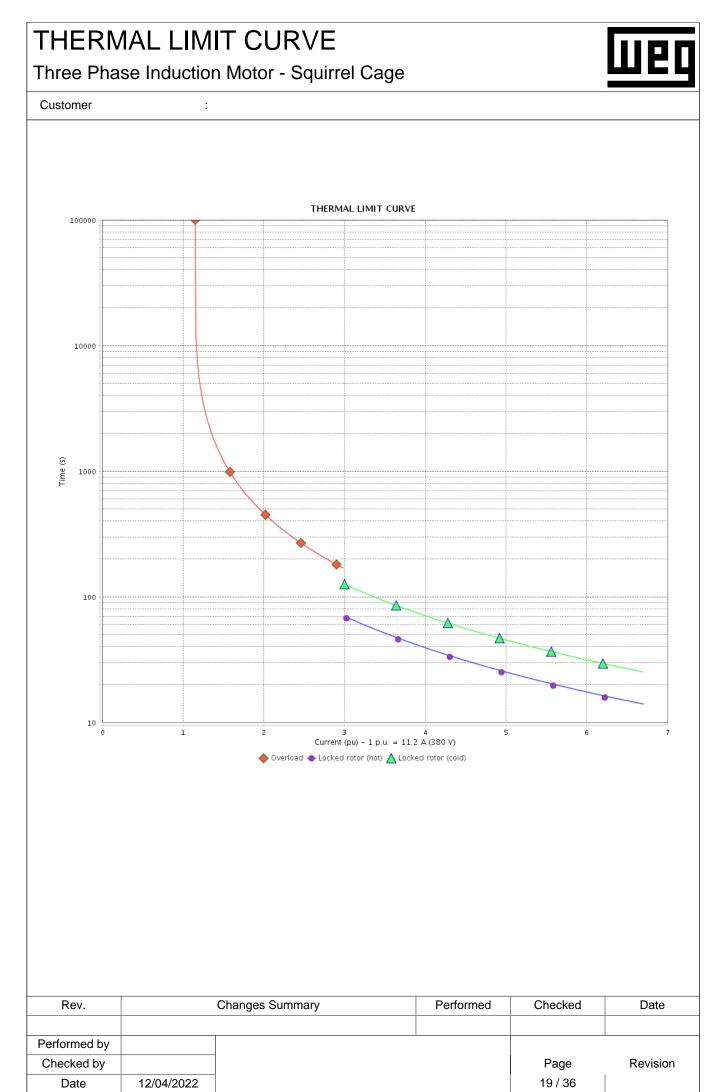
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		:					
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12822409 01018ST3Q	IER215TC-W2	
Performance		: 460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Heating constan	t	· · · · · · · · · · · · · · · · · · ·					
Cooling constant Rev.		Changes Summary		Performed	Checked	Date	
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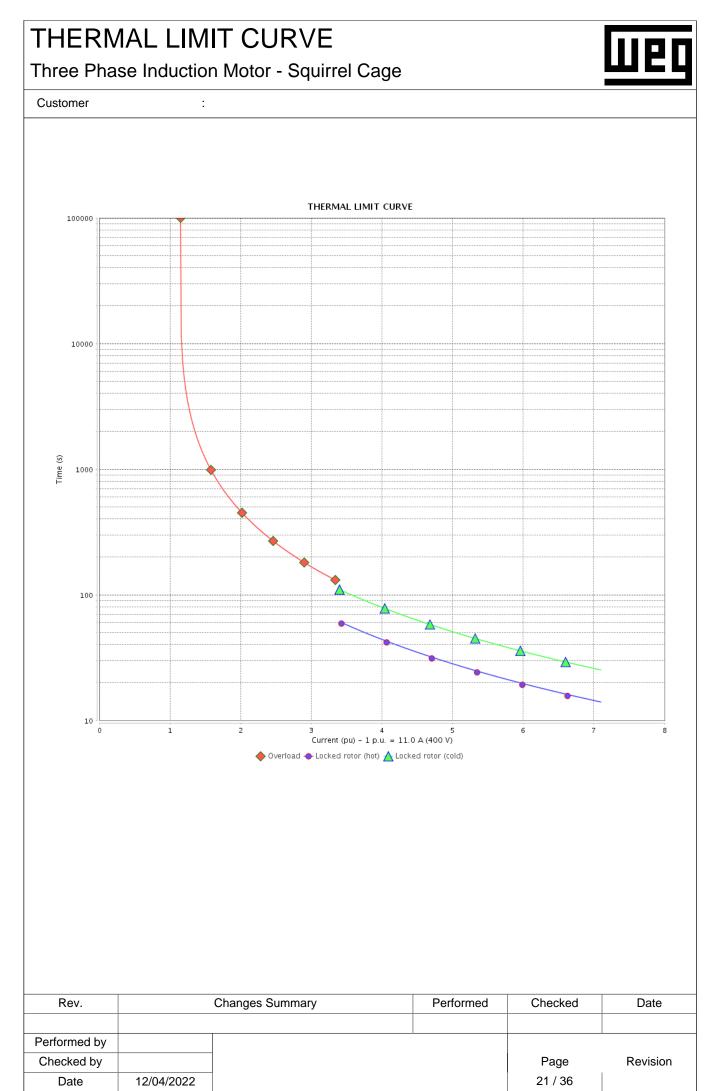
THERM	THERMAL LIMIT CURVE					
Three Pha	se Inducti	on Motor - Squirrel	Cage			шсч
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12822409 01018ST3Q	IER215TC-W2
Performance		380 V 50 Hz 4P IE3	Manaata	finantia (1)	. 4 54 ag # lb	
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: iue : ie :	11.2 A 6.7 26.9 ft.lb 200 % 300 % 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant	t					
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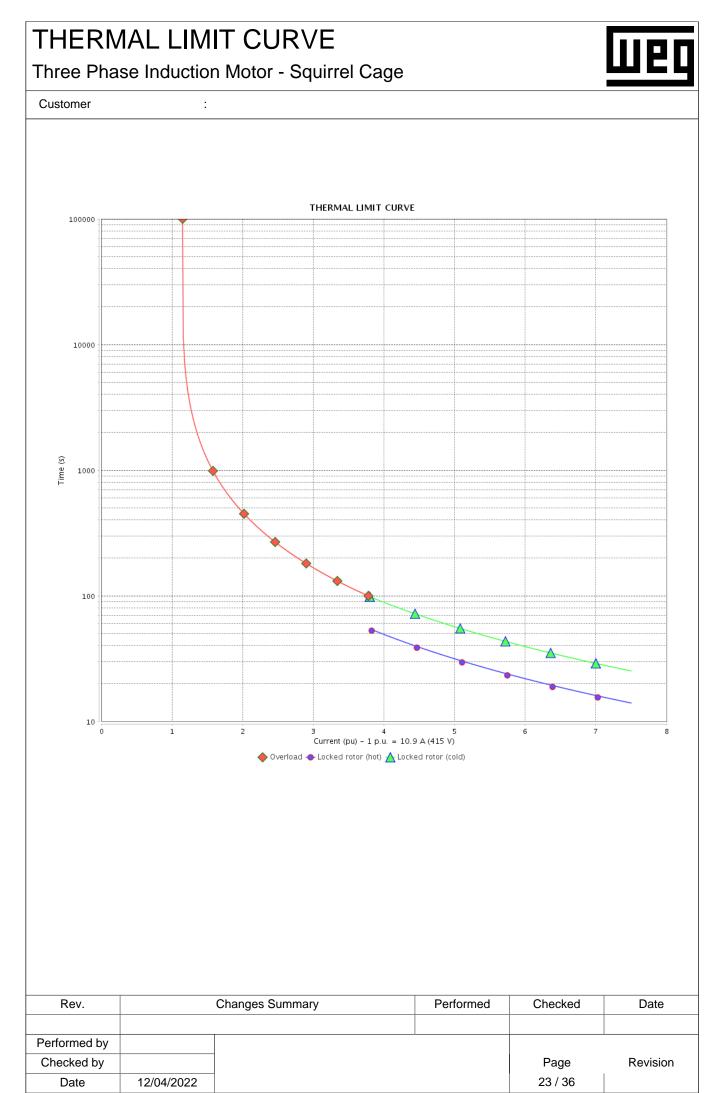
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		:					
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12822409 01018ST3Q	IER215TC-W2	
Performance		: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 11.0 A : 7.1 : 26.8 ft.lb : 240 % : 340 % : 1470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constan Cooling constant							
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Three Pha	se Induct	ion Motor - Squirrel	Cage			Шед
Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12822409 01018ST3Q	IER215TC-W2
Dorformer						
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 415 V 50 Hz 4P IE3 : 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 1470 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t		Ŭ			
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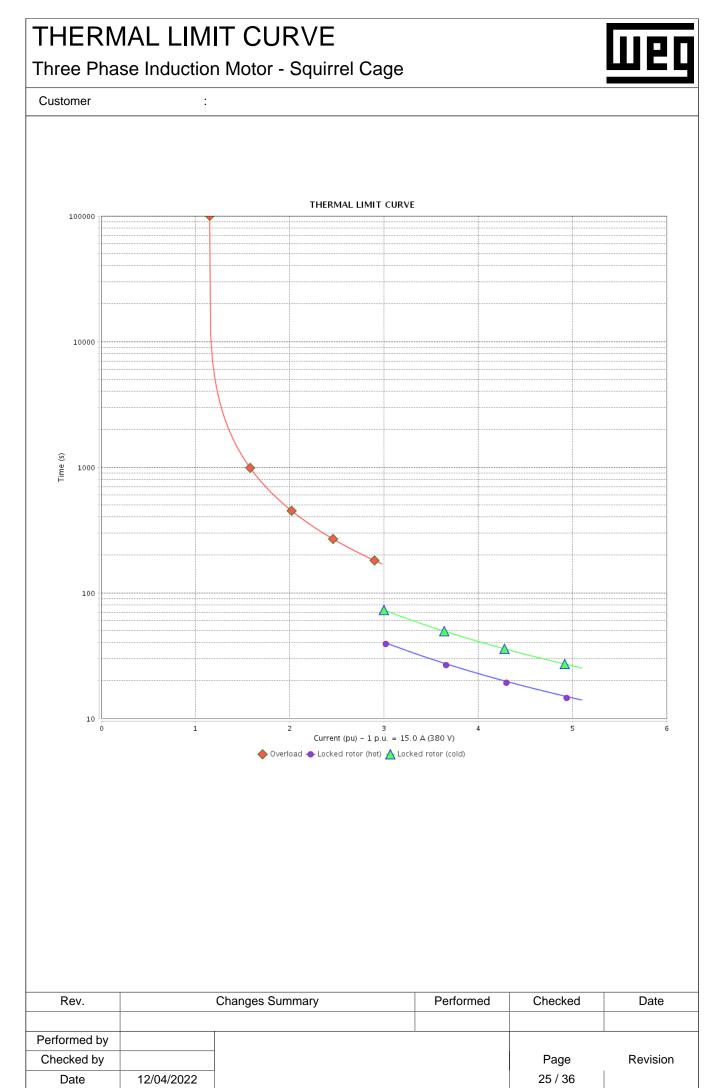
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Three Pha	se Inducti	on Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12822409 01018ST3C	IER215TC-W2
Performance		: 380 V 50 Hz 4P IE1	•• •			
Rated current LRC		: 15.0 A : 5.1	Duty cycle		: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 36.2 ft.lb : 150 %	Insulation Service fa		: F : 1.15	
Breakdown torqu Rated speed	le	: 220 % : 1450 rpm	Temperatu Design		: 80 K : B	
Heating constant			Boolgii			
Cooling constant						
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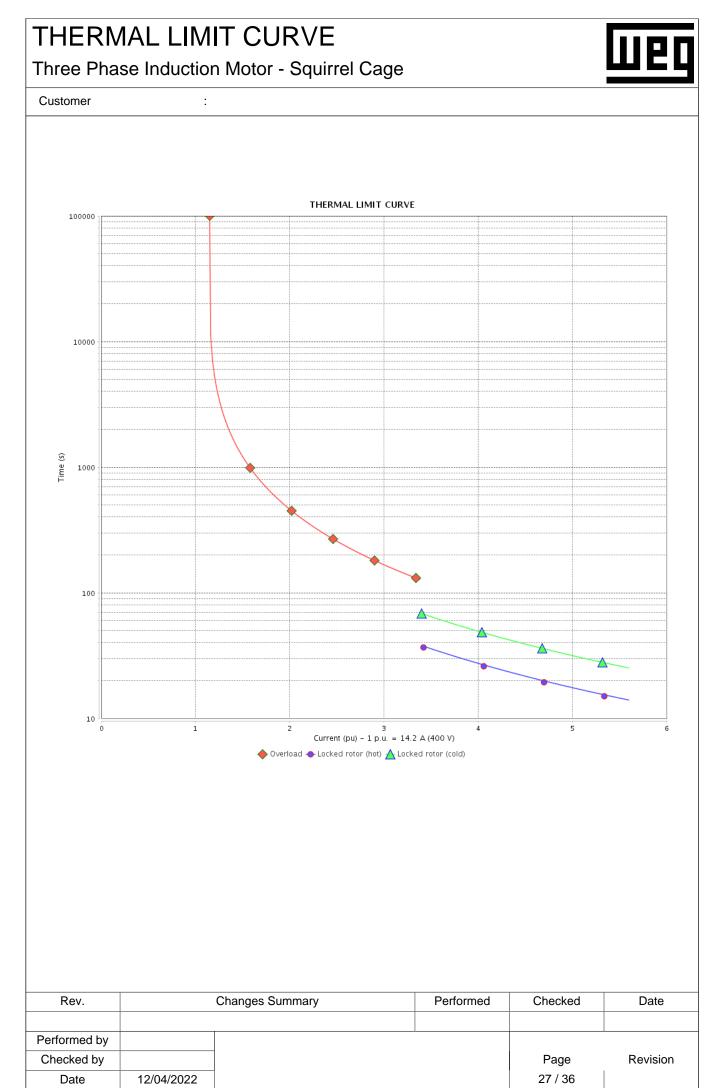
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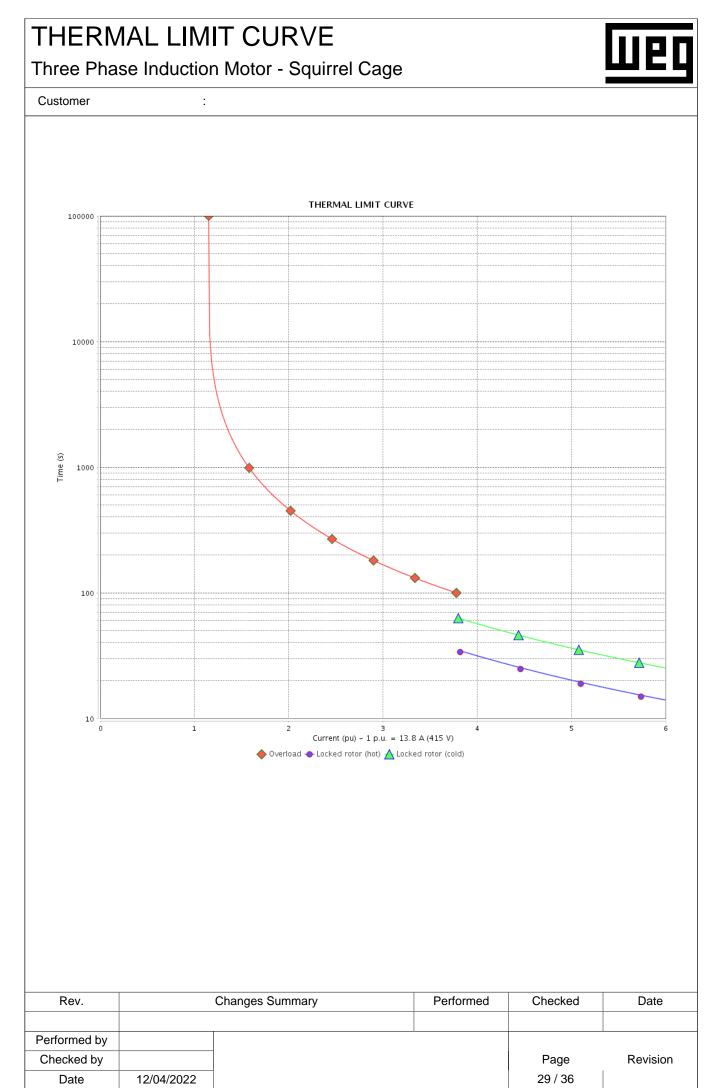
THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency T hase		Product code : Catalog # :	12822409 01018ST3QII	
Performance	: 4	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 30 que : 1 ue : 20	4.2 A .6 6.1 ft.lb 80 % 50 % 455 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constant Rev.	[ 	Changes Summary		Performed	Checked	Date
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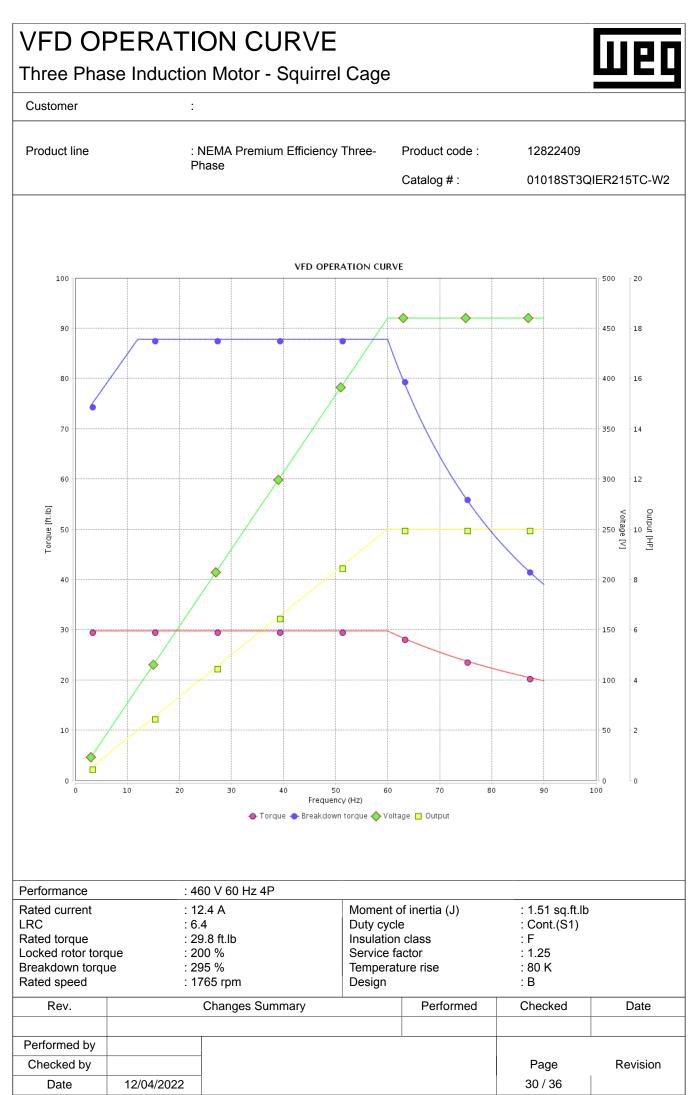
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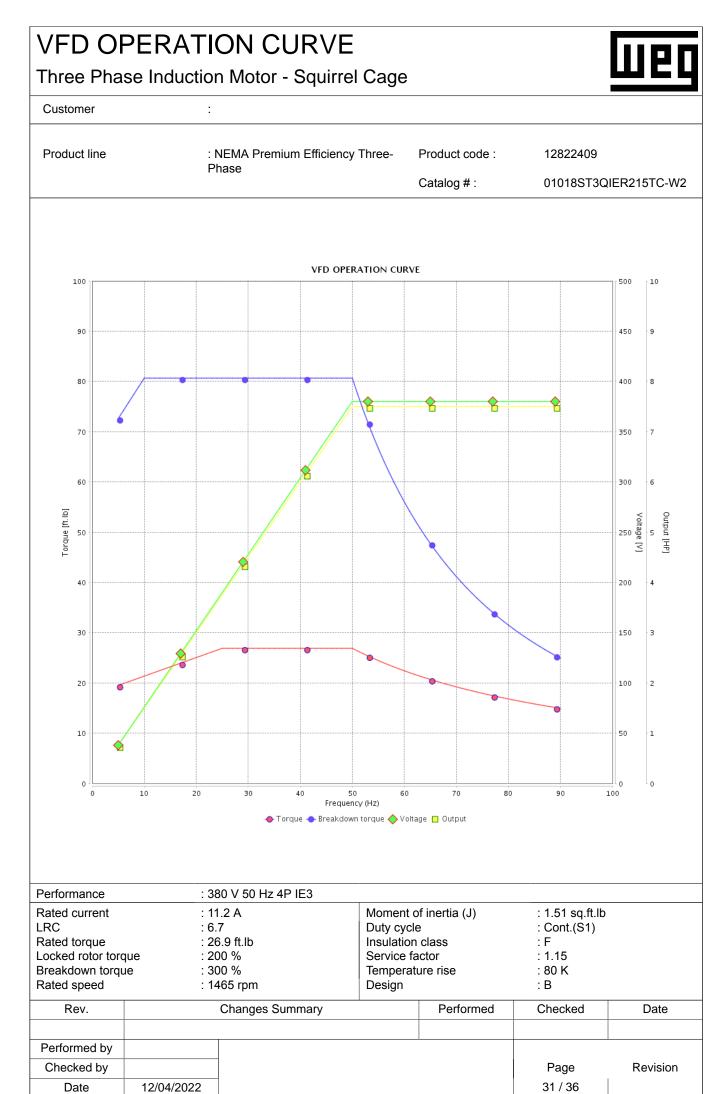


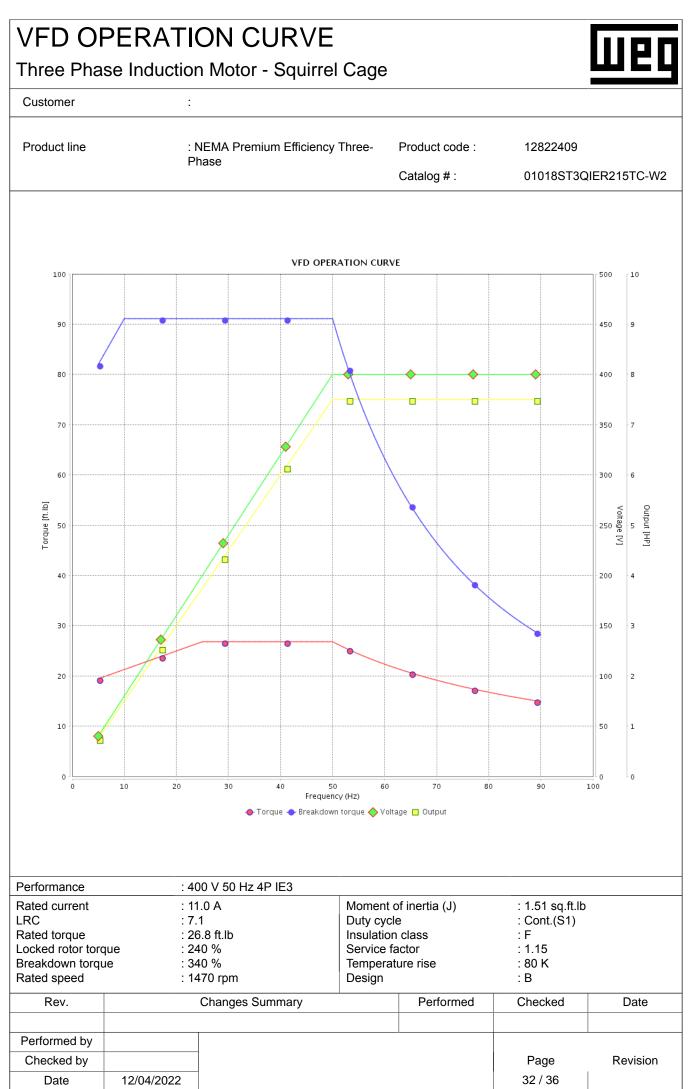
THERMAL LI	THERMAL LIMIT CURVE					
Three Phase Induc	tion Motor - Squirrel	Cage			шсц	
Customer	:					
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	12822409 01018ST3QI	ER215TC-W2	
Performance	: 415 V 50 Hz 4P IE2	Moment	finantia (1)	: 1 E1 og ft lb		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A : 6.0 : 36.0 ft.lb : 190 % : 270 % : 1460 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	i class actor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant Cooling constant						
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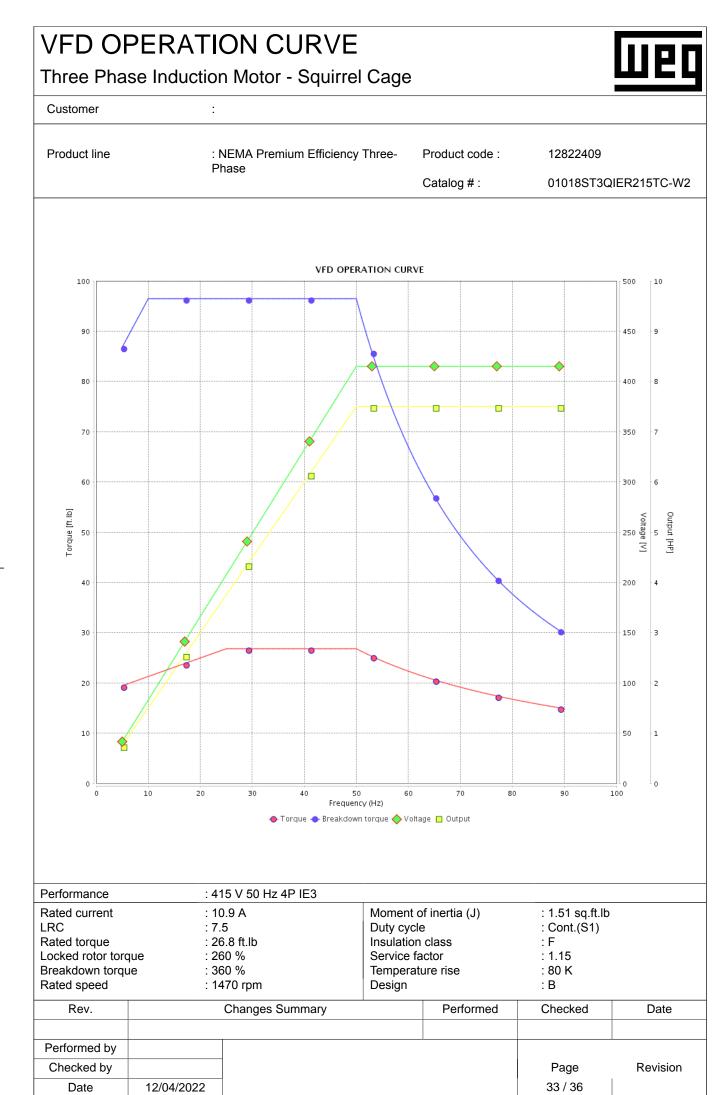
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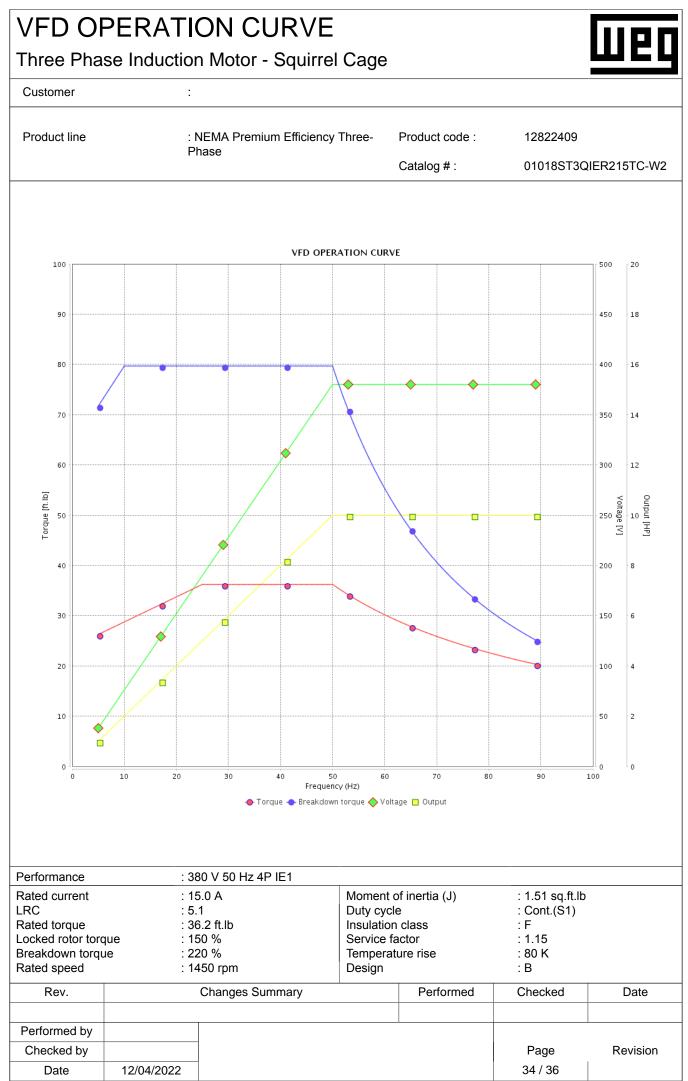


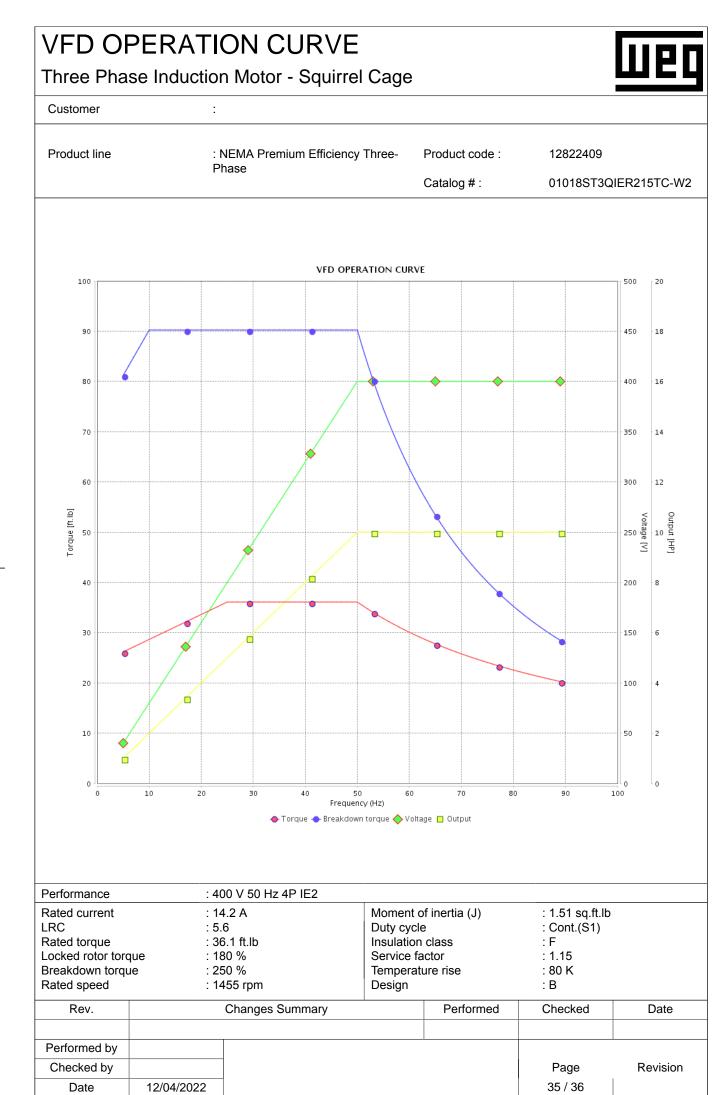


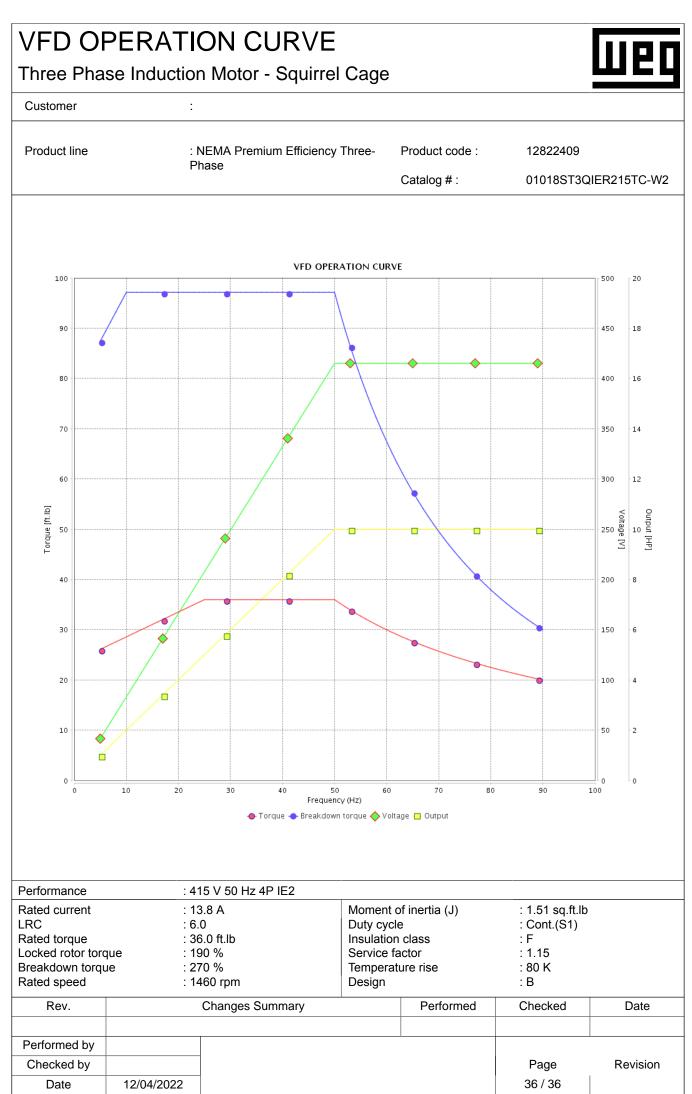




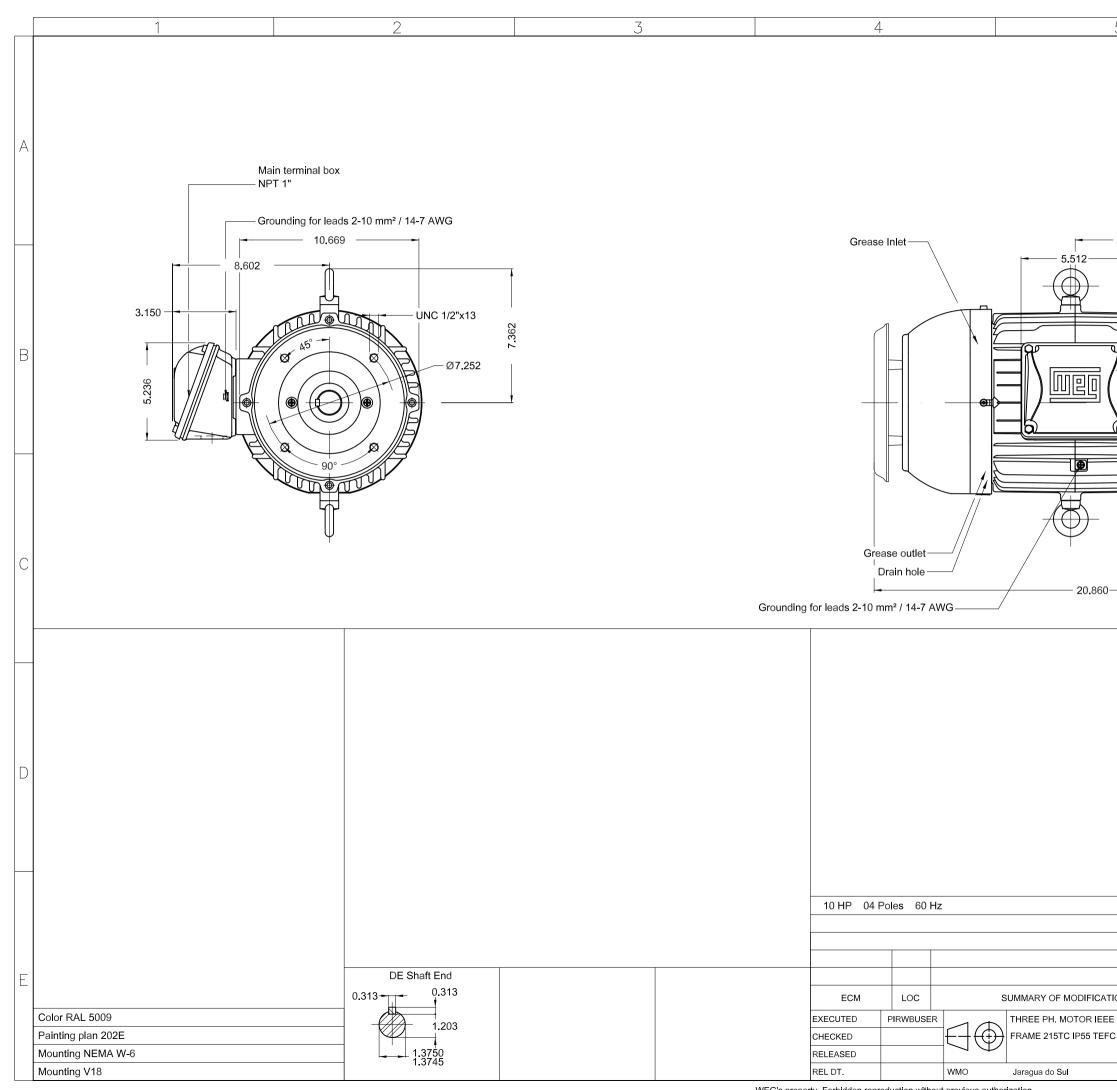








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