DATA SHEET

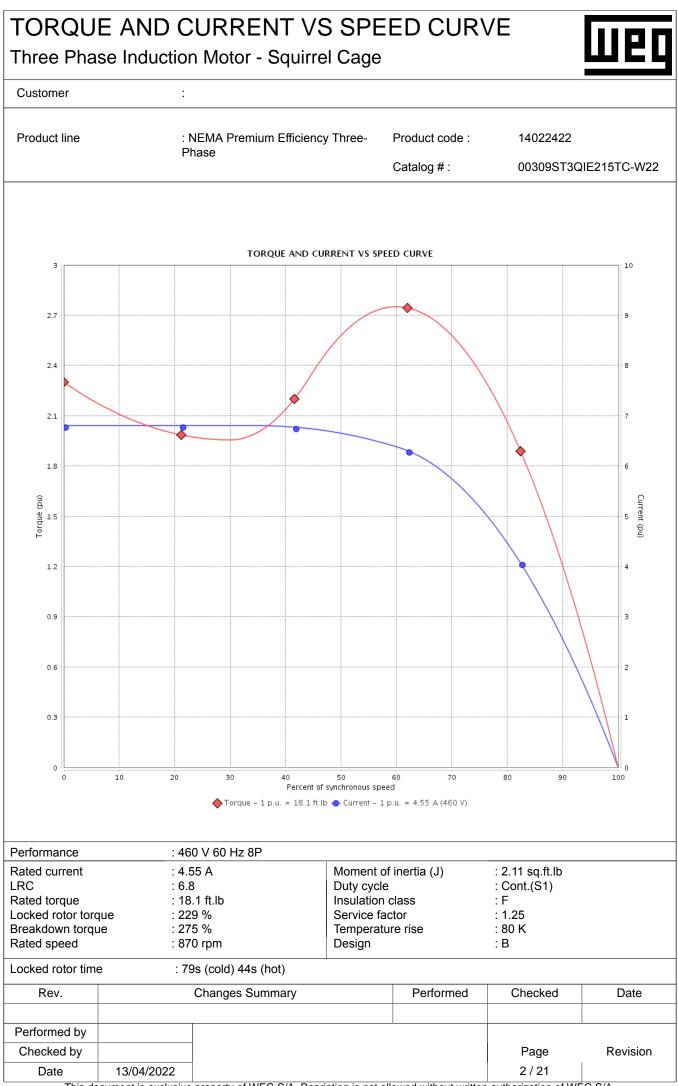
Three Phase Induction Motor - Squirrel Cage

:



Customer

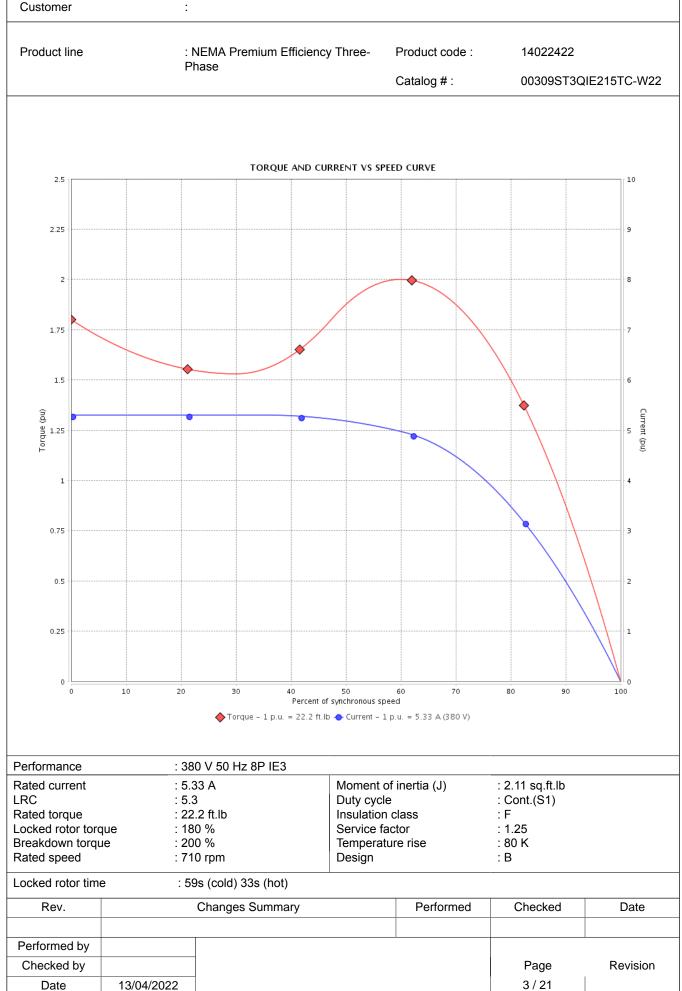
Product line		: NEMA Premium Effi Phase	ciency T	hree- P	roduct code :	140224	22		
		FildSe		C	atalog # :	00309ST3QIE215TC-W22			
Insulation class: FDuty cycle: ConAmbient temperature: -20Altitude: 100Protection degree: IP5		: 213/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B	: F [] : Cont.(S1) [] : -20°C to +40°C [] : 1000 m.a.s.l. [] : IP55 []		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		- TEFC CW and CCW) On Line q.ft.lb		
Output [HP]		3	1	3		3	3		
Poles		8		8	3		8		
Frequency [Hz]		60		50	5		50		
Rated voltage [V]		460		380	40		415		
Rated current [A]		4.55		5.33	5.2	-	5.06		
. R. Amperes [A]		30.9		28.2	31		32.9		
_RC [A]		6.8x(Code K)	5.3	3x(Code G)	6.0x(C		6.5x(Code J)		
No load current [A	1	2.71	0.0	2.68	2.8		3.00		
Rated speed [RPN		870		710	71		720		
Slip [%]		3.33		5.33	4.6		4.00		
Rated torque [ft.lb]		18.1		22.2	22		21.9		
_ocked rotor torqu		229		180	22		260		
Breakdown torque		275		200	22		270		
Service factor	[,,]	1.25		1.25	1.2		1.25		
Temperature rise		80 K		80 K	80		80 K		
Locked rotor time		79s (cold) 44s (hot)	50e //	cold) 33s (ho			59s (cold) 33s (hot)		
Noise level ²		52.0 dB(A)		62.0 dB(A)	52.0 0		52.0 dB(A)		
	25%	83.7		85.0	85		82.1		
	50%	84.0		84.0	84		82.5		
Efficiency (%)	75%	85.5		84.0	84		84.0		
	100%	85.5		82.5	82		84.0		
	25%	0.29		02.3	0.3		0.29		
	50%	0.29		0.57	0.		0.51		
Power Factor	75%	0.63		0.70	0.0		0.64		
	100%	0.00		0.76	0.0		0.72		
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end Non di : 6308 C3 62 : Inpro/Seal Inpro/Seal : 20000 h 20	Drive end 6308 C3Non drive end 6207 C3Foundation Max. tractiInpro/Seal 20000 hInpro/Seal 20000 hMax. comp Max. comp11 g7 g			Foundation loads Max. traction : 232 lb Max. compression : 434 lb			
Notes				1					
must be eliminate (1) Looking the m	d. otor from the m and with to veight subjec ocess.	olerance of +3dB(A).	hich				ts with sinusoidal stipulated in NEMA		
Rev.		Changes Summary	'		Performed	Checked	Date		
Dorformed by									
Performed by						_	_		
Checked by						Page	Revision		
Date	13/04/2022	2				1 / 21			
This doe	umantia avalu	sive property of MEC S/A	Deminatio						



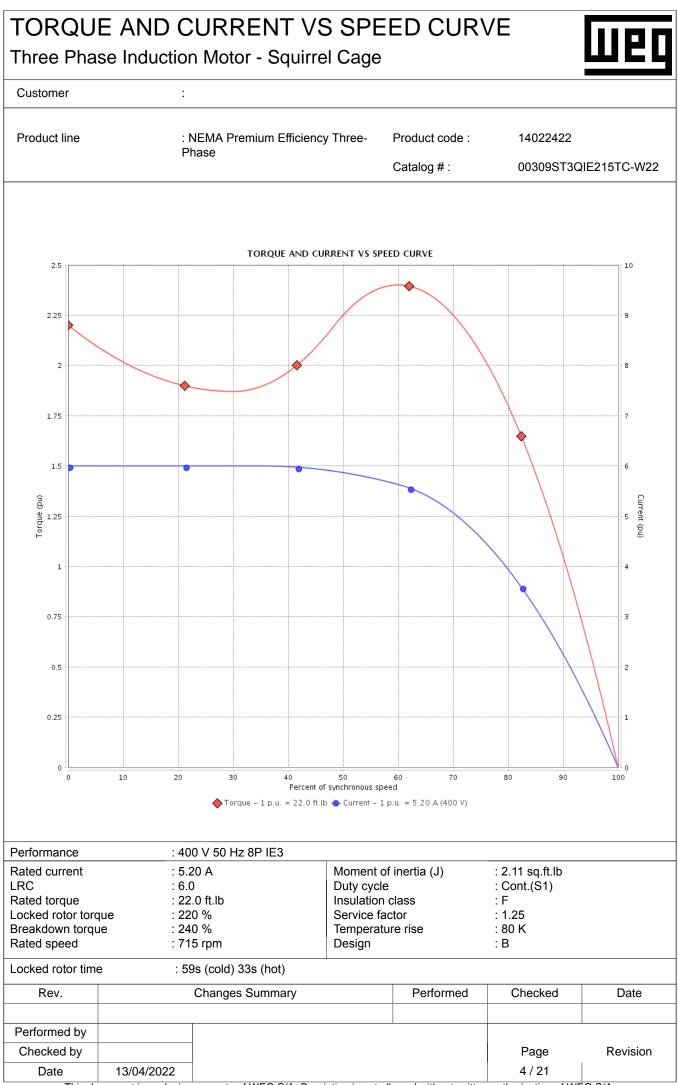
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



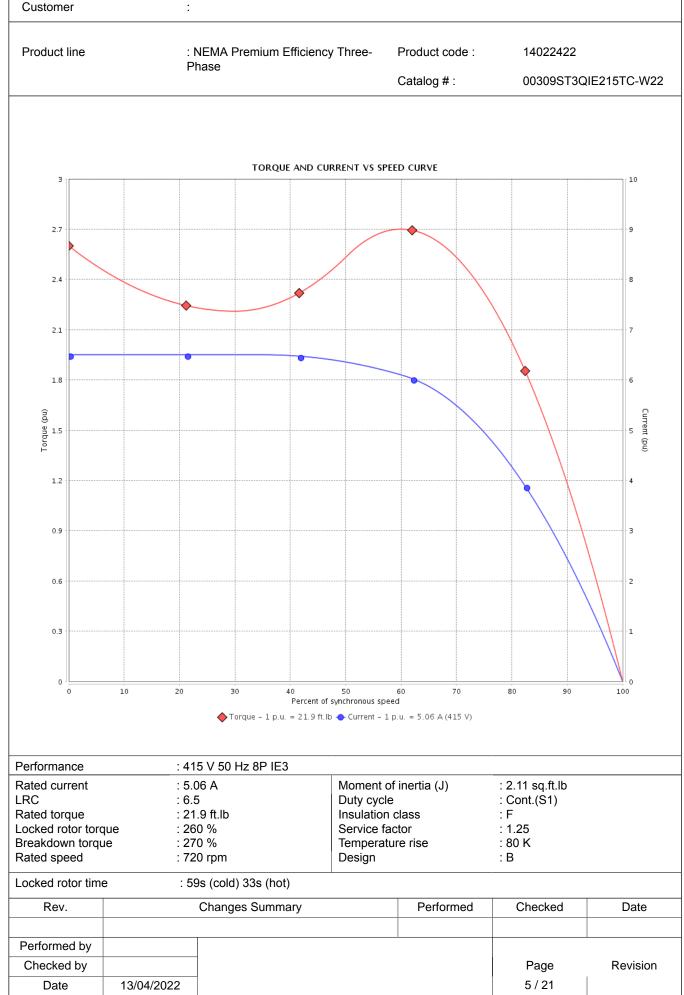
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



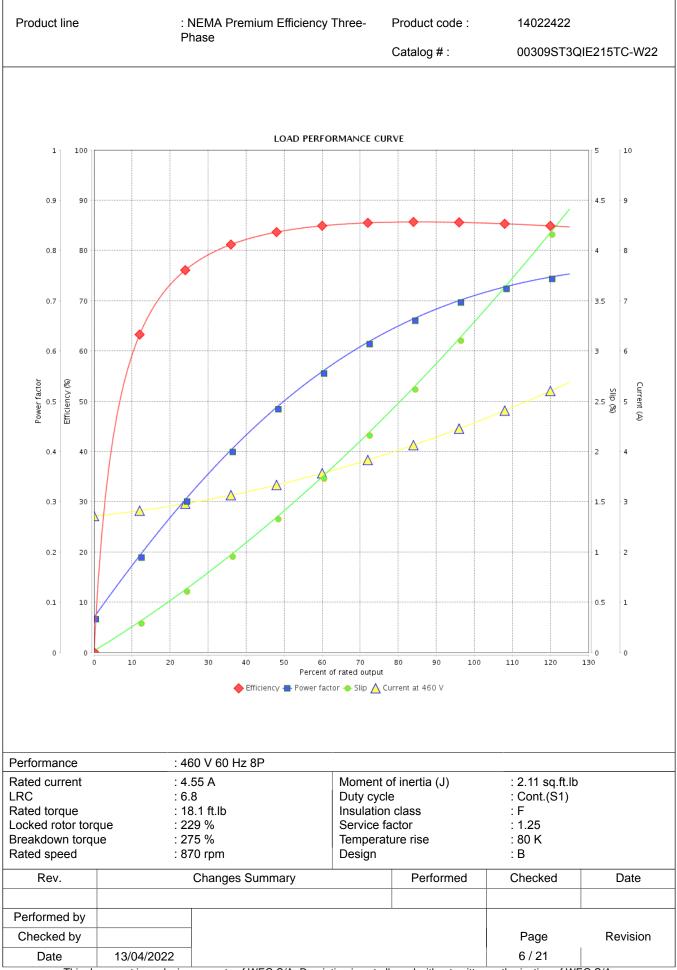
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

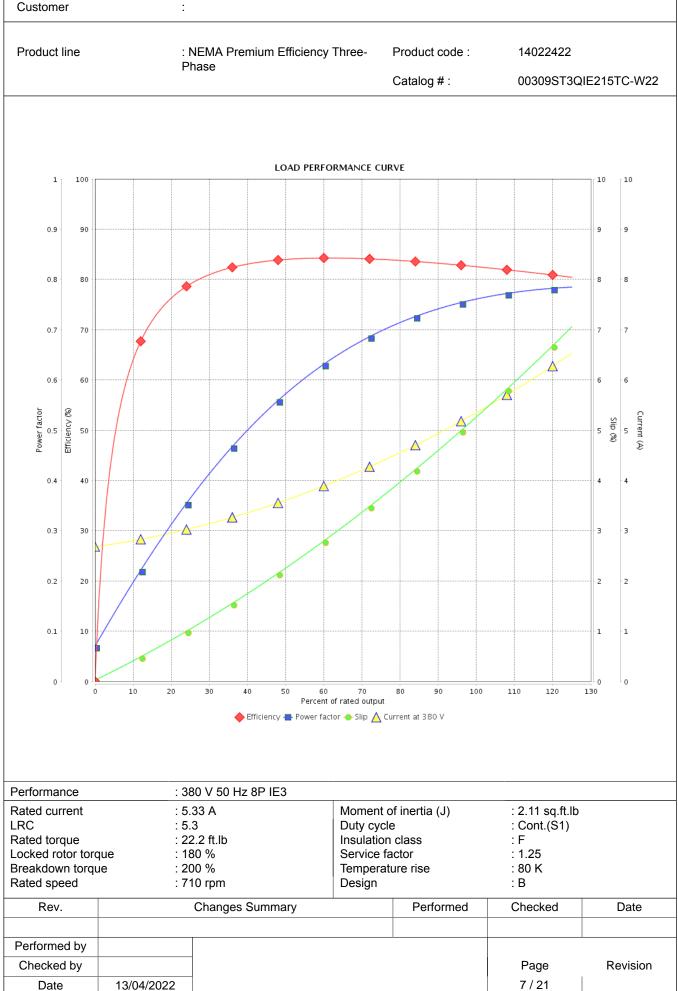


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



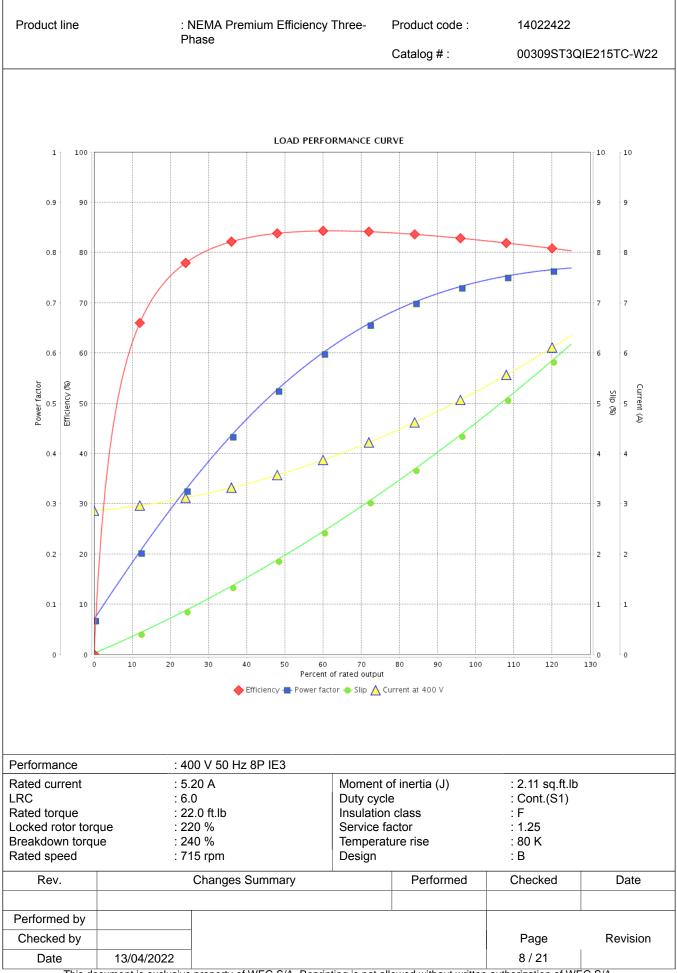
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

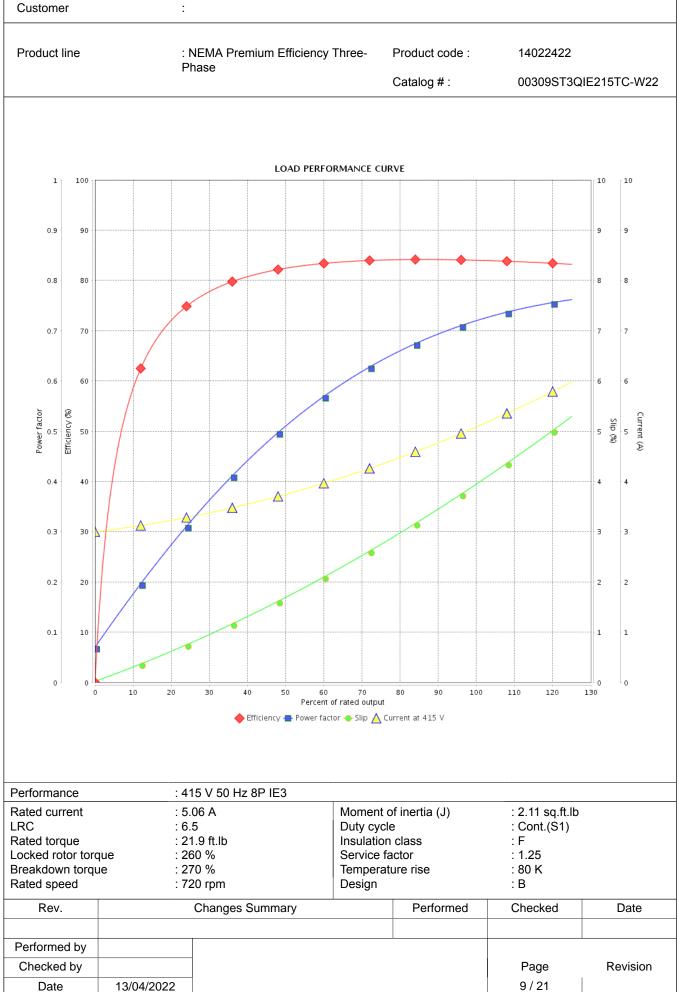


Customer



Three Phase Induction Motor - Squirrel Cage

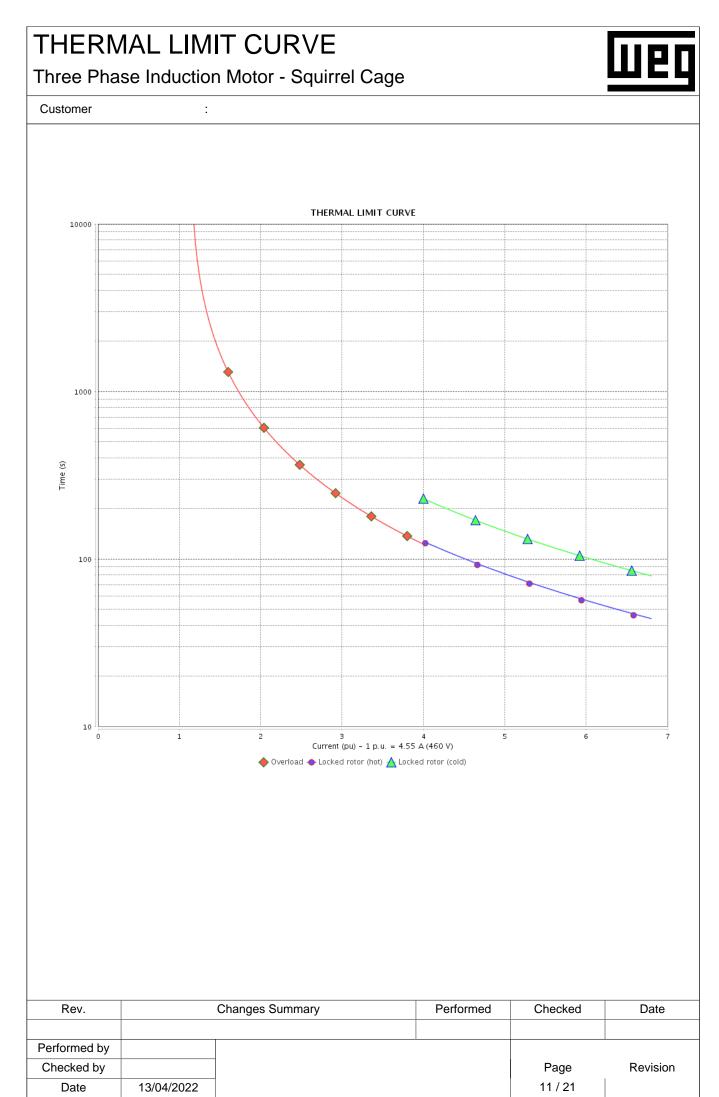
Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

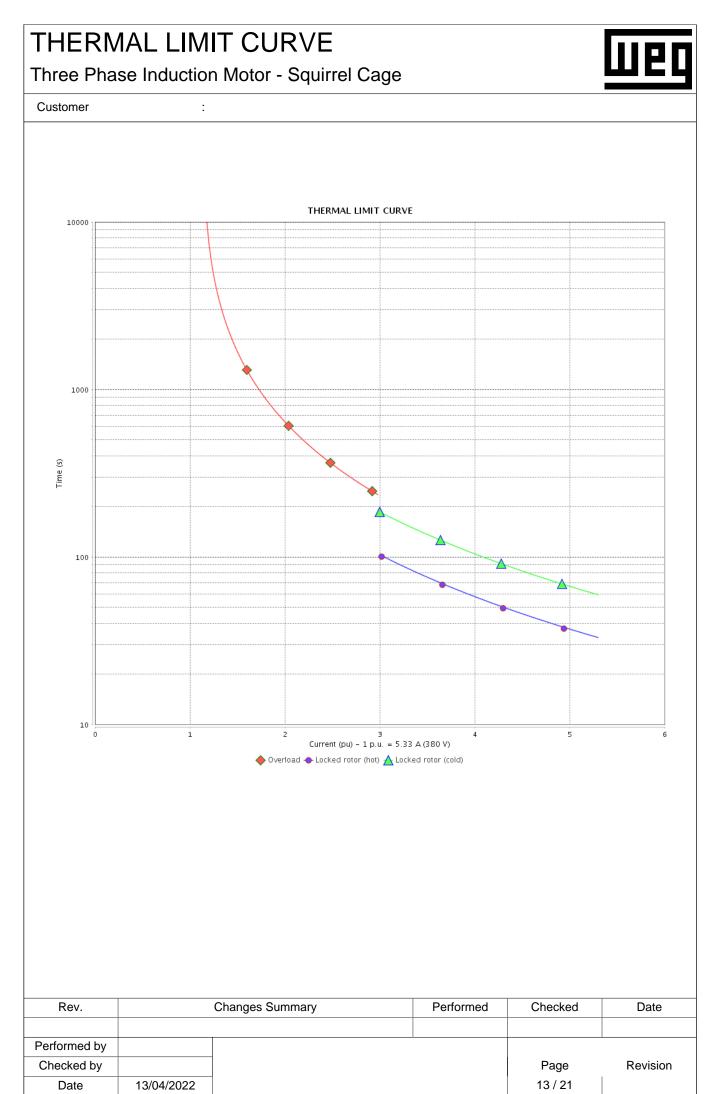
THERMAL LI	MIT CURVE		шео
Three Phase Induc	ction Motor - Squirrel	Cage	
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	14022422 00309ST3QIE215TC-W22
Performance	: 460 V 60 Hz 8P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 450 V 60 H2 8P : 4.55 A : 6.8 : 18.1 ft.lb : 229 % : 275 % : 870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Heating constant			

Heating constan	t				
Cooling constant	t				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			10 / 21	
This de	our antia avaluativa	property of MEC C/A Deprinting is not	t allowed without writter	outhorization of M/F	



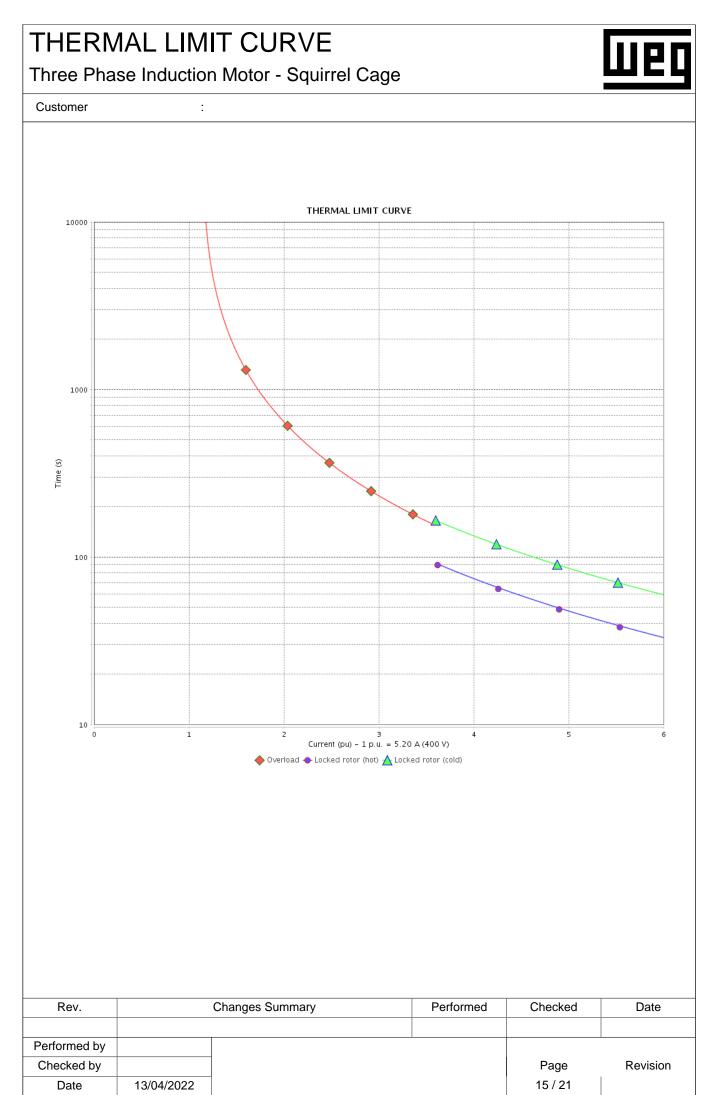
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		:	0				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14022422 00309ST3C	IE215TC-W22	
Performance		: 380 V 50 Hz 8P IE3					
Rated current LRC		: 5.33 A : 5.3	Moment o Duty cycle	f inertia (J)	: 2.11 sq.ft.lb : Cont.(S1)		
Rated torque		: 22.2 ft.lb	Insulation	class	: F		
Locked rotor tore		: 180 %	Service fa	ctor	: 1.25		
Rated speed	eakdown torque : 200 %		Temperature rise : 80 K Design : B				
Heating constant							
Cooling constant	1					_	
Rev.		Changes Summary		Performed	Checked	Date	

Performed by					
Checked by				Page	Revision
Date	13/04/2022			12 / 21	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed	d without written	authorization of WE	G S/A.



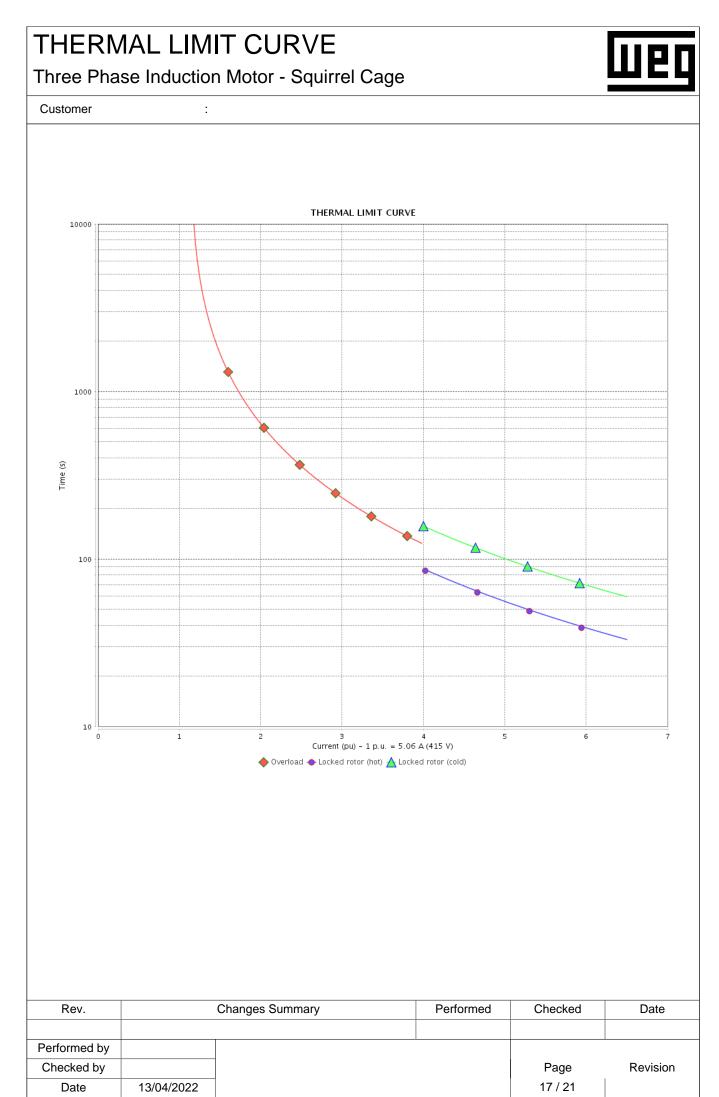
	IAL LIMIT CURVE se Induction Motor - Squirrel (Cage		шед
Customer	:			
Product line	: NEMA Premium Efficiency Tł Phase	nree- Product code : Catalog # :	14022422 00309ST3Q	IE215TC-W22
Performance	: 400 V 50 Hz 8P IE3			
Rated current LRC	: 5.20 A	Moment of inertia (J) Duty cycle	: 2.11 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq	: 22.0 ft.lb	nsulation class Service factor	: F : 1.25	
Breakdown torqu Rated speed	e : 240 %	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date

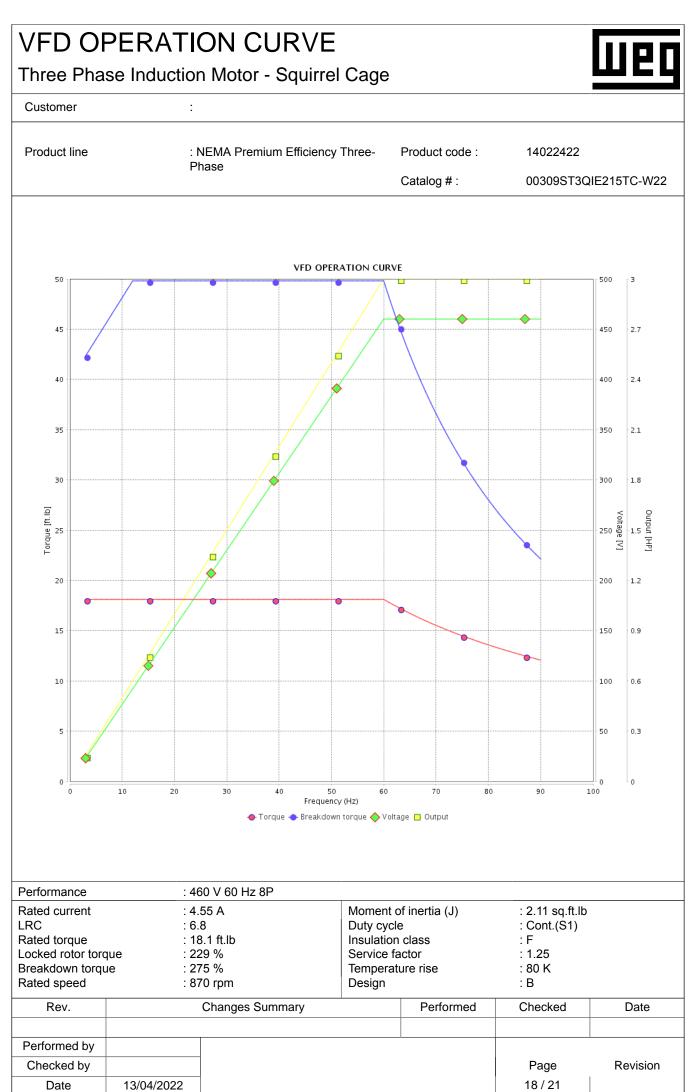
		0		,						
Performed by										
Checked by							Page		Revision	1
Date	13/04/2022						14 / 21			
			())/= 0.0//		 	 1 1.1	 	<	0.0/4	

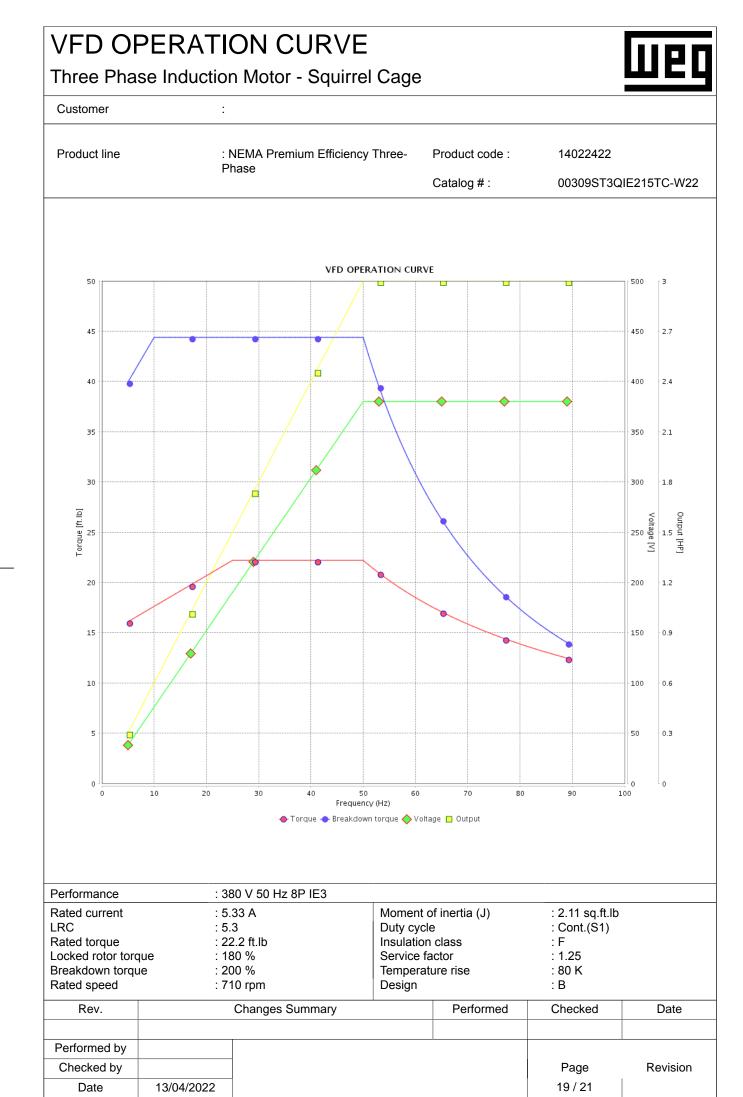


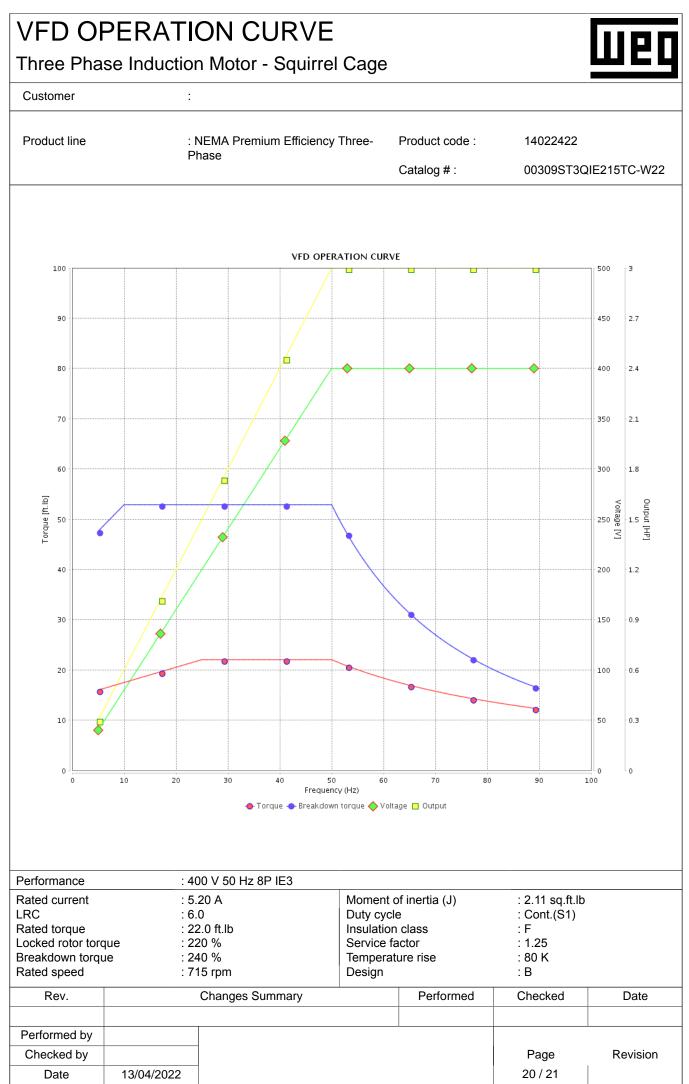
			Cage		THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage					
Customer		:								
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14022422 00309ST3C	IE215TC-W22				
Performance		: 415 V 50 Hz 8P IE3								
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 5.06 A : 6.5 : 21.9 ft.lb : 260 % : 270 %	Moment of Duty cycle Insulation Service fa Temperate	class ictor	: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K					
Rated speed		: 720 rpm	Design		: B					
Heating constant										
Cooling constant Rev.		Changes Summary		Performed	Checked	Date				
		s.a.gee eannary			0					

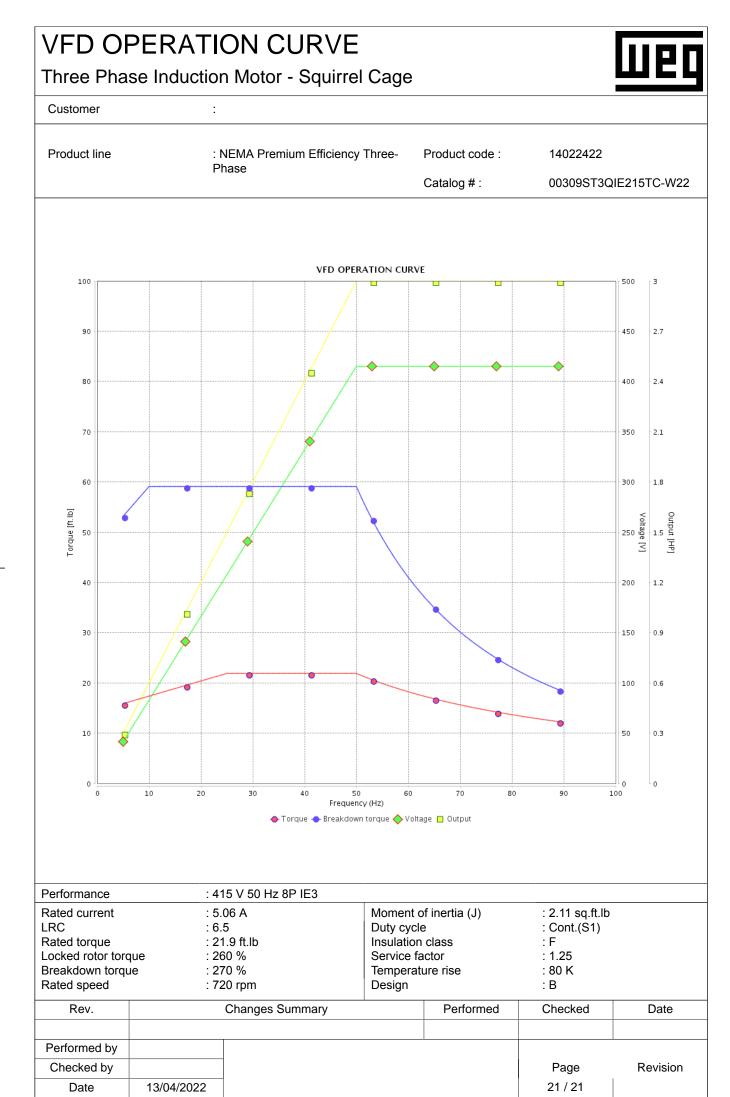
Performed by						
Checked by					Page	Revision
Date	13/04/2022				16 / 21	
This do	cumont is ovelusivo	property of MEC S/A	Poprinting is not all	owod without writton	authorization of W/E	

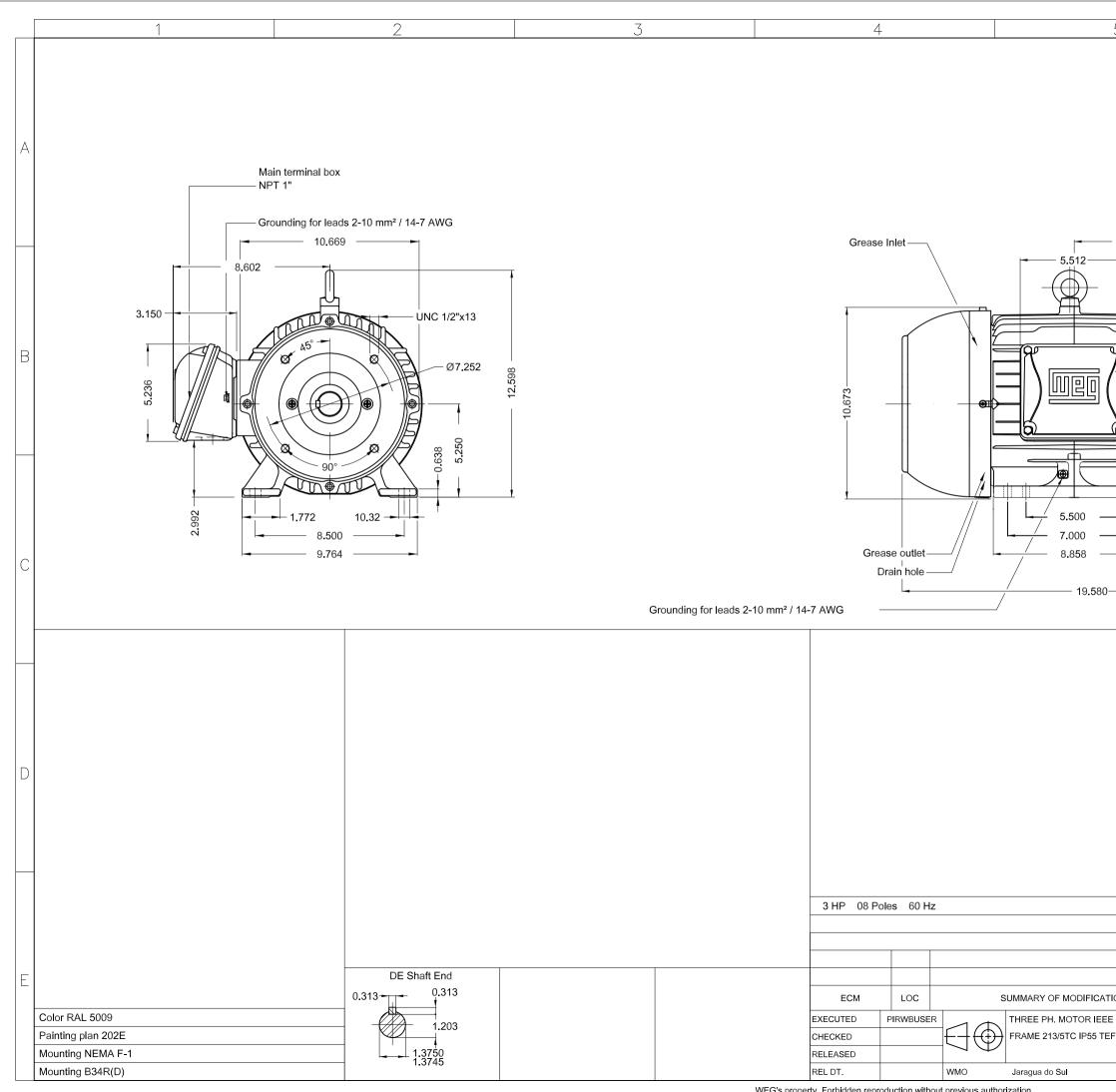












WEG's property. Forbidden reproduction without previous authorization.

5	6
7.008 Great	ase Inlet
IONS EXECUTED	CHECKED RELEASED DATE VER
E 841 W22 PREM. EFF. FC	
Product Engineering	SHEET 1 / 1

