DATA SHEET

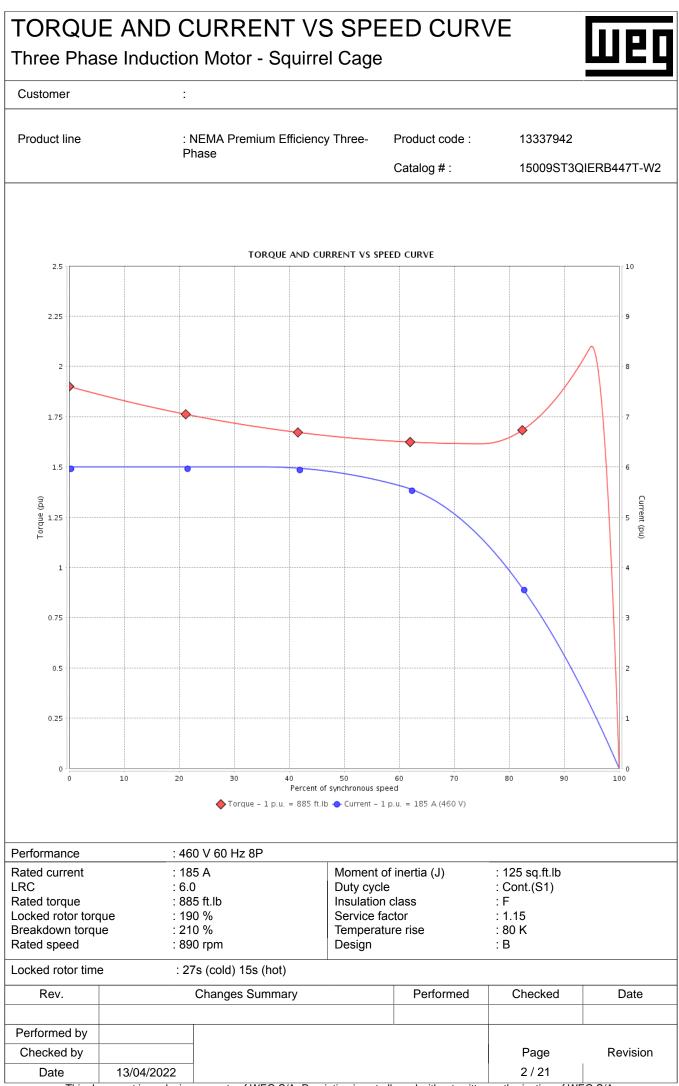
Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi Phase	ciency T	hree- Pr	roduct code :	133379	42	
		, nuoc		Ca	atalog # :	15009S	T3QIERB447T-W2	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: 445/7T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	: F Ma : Cont.(S1) Ro : -20°C to +40°C St : 1000 m.a.s.l. Ap		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 2225 lb : 125 sq.ft.lb	
Design		: B			()			
Dutput [HP] Poles		150 8		125 8	12	-	125 8	
Frequency [Hz]		60		50	50		50	
Rated voltage [V]		460		380	40		415	
Rated current [A]		185		183	17		175	
. R. Amperes [A]		1110		1025	109		1138	
RC [A]		6.0x(Code G)	56	6x(Code F)	6.2x(Co		6.5x(Code H)	
No load current [A	1	75.0	0.0	78.9	83	· · · · ·	86.8	
Rated speed [RPN		890		740	74		740	
Slip [%]	ניי ני	1.11		1.33	1.3		1.33	
Rated torque [ft.lb]		885		887	88		887	
ocked rotor torqu		190		170	20		220	
Breakdown torque		210		200	20		250	
Service factor	[,0]	1.15		1.15	1.1		1.15	
emperature rise		80 K		105 K	80		80 K	
ocked rotor time		27s (cold) 15s (hot)	27e (r	cold) 15s (hc			27s (cold) 15s (hot)	
locked fotor time		63.0 dB(A)	213(0					
	25%	94.4		94.9	94	0	93.5	
	50%	94.5		94.5	94	-	93.6	
Efficiency (%)	75%	94.5		94.1	94		94.1	
	100%	94.5		93.6	94		94.1	
	25%	0.40		0.40	0.3		0.34	
	50%	0.64		0.40	0.0		0.57	
Power Factor	75%	0.04		0.05	0.7		0.69	
	100%	0.74		0.80	0.7		0.76	
Bearing type	10070	Drive end Non di	r <u>ive end</u> 16 C3	1	n loads	: 4799 lb		
Sealing Lubrication interv Lubricant amoun Lubricant type			000 h 34 g					
Notes								
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	
Performed by								
Checked by						Page	Revision	
Date	13/04/2022	2				1/21		
		-	D					

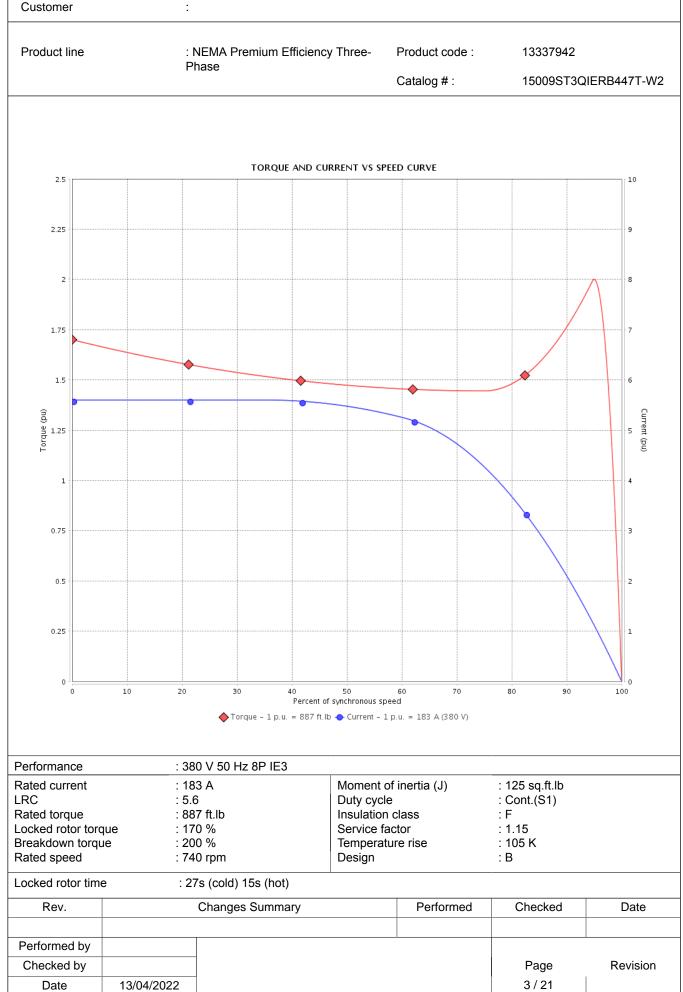


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

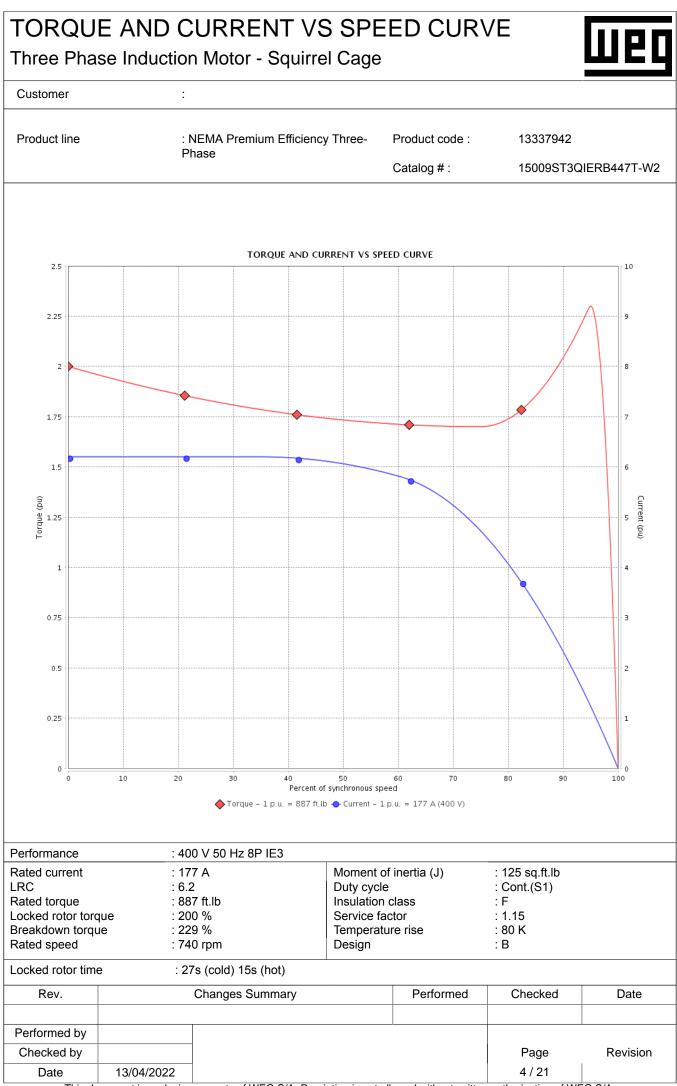
TORQUE AND CURRENT VS SPEED CURVE

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.

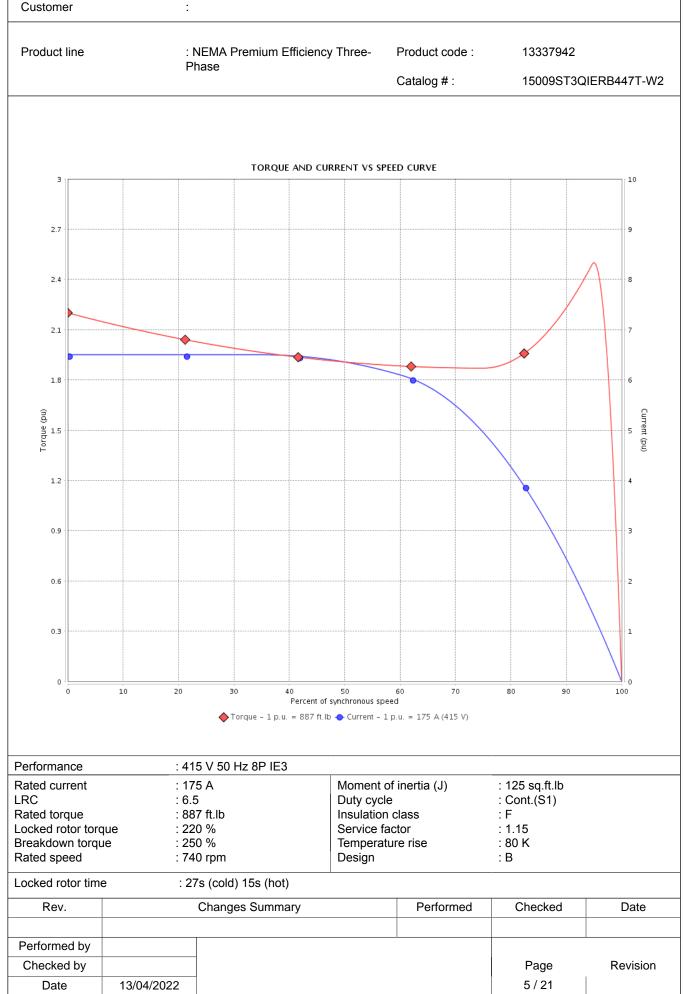


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



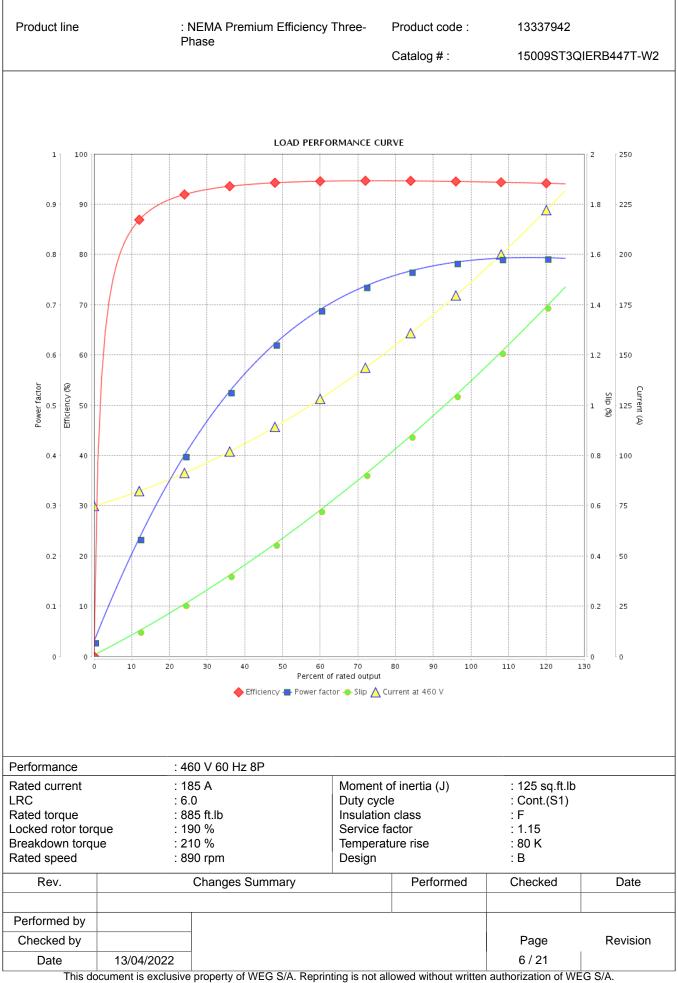
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



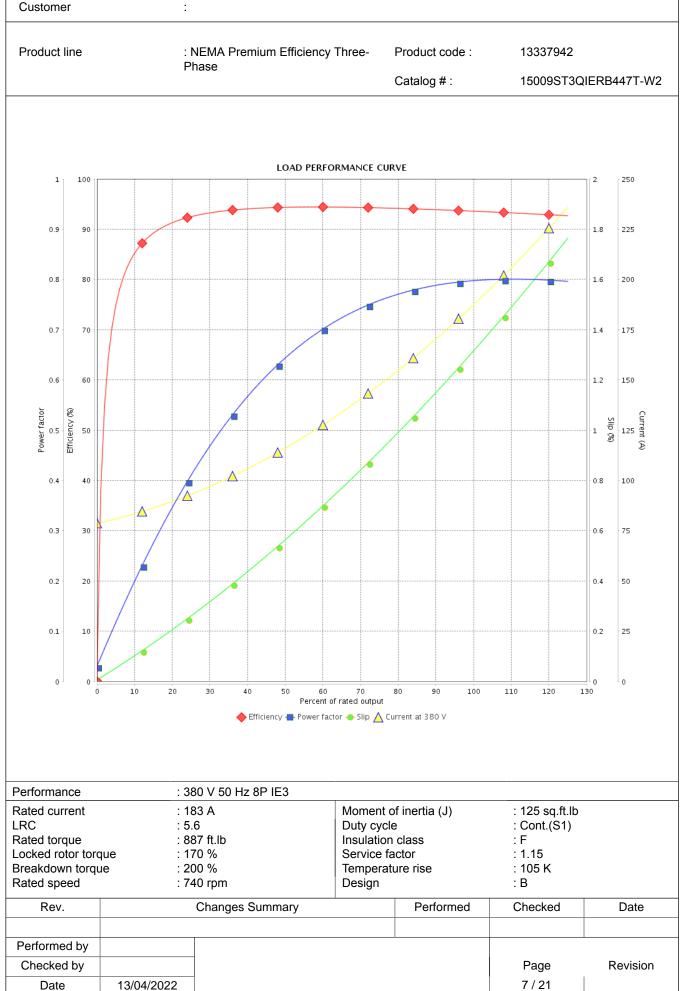
Customer



property of WEG S/A. Reprinting is not allowed without written authorization of WEC Subject to change without notice

Three Phase Induction Motor - Squirrel Cage

Customer



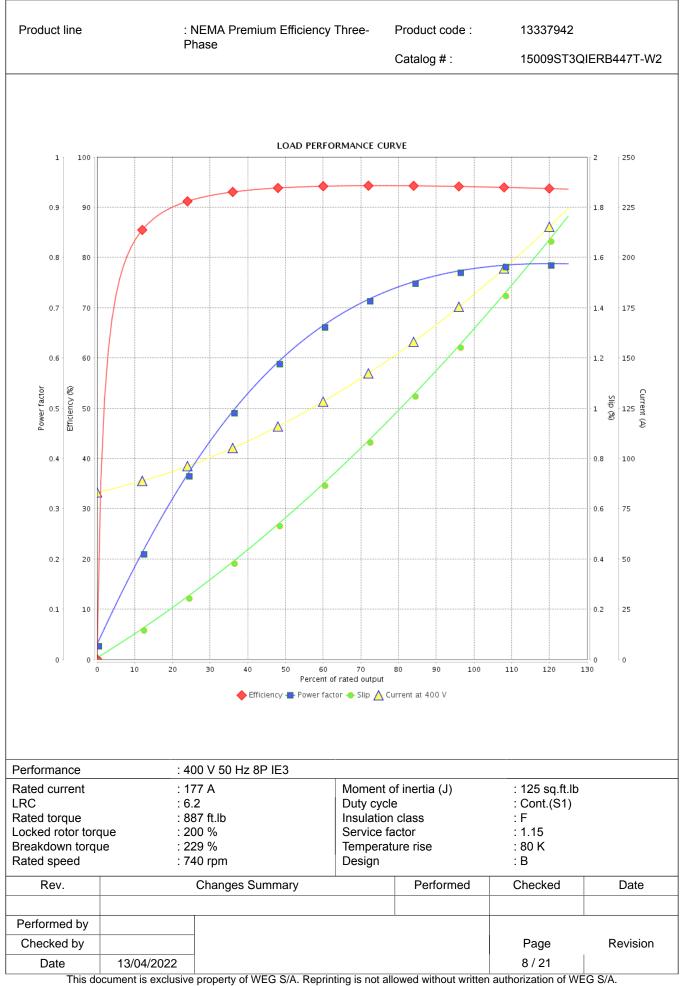
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

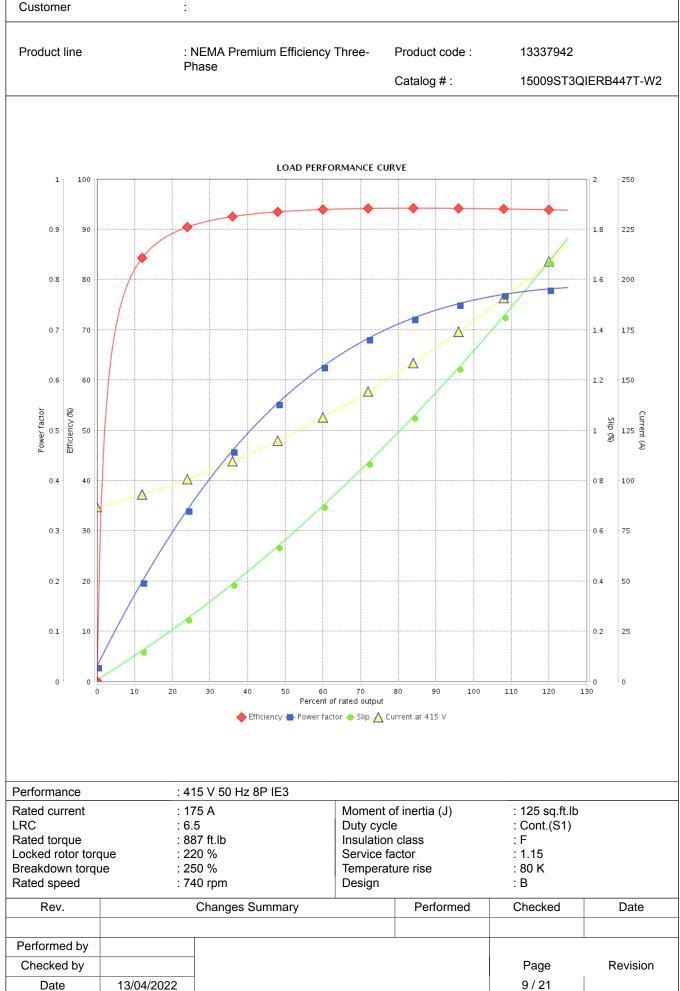


Customer



Three Phase Induction Motor - Squirrel Cage

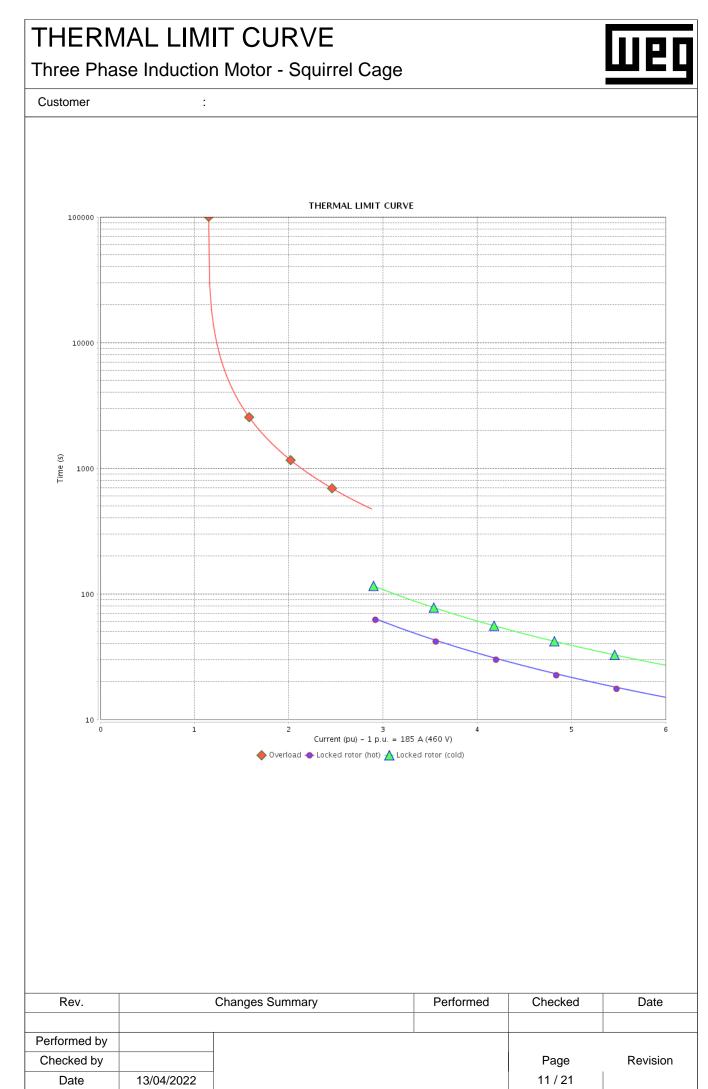
Customer



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

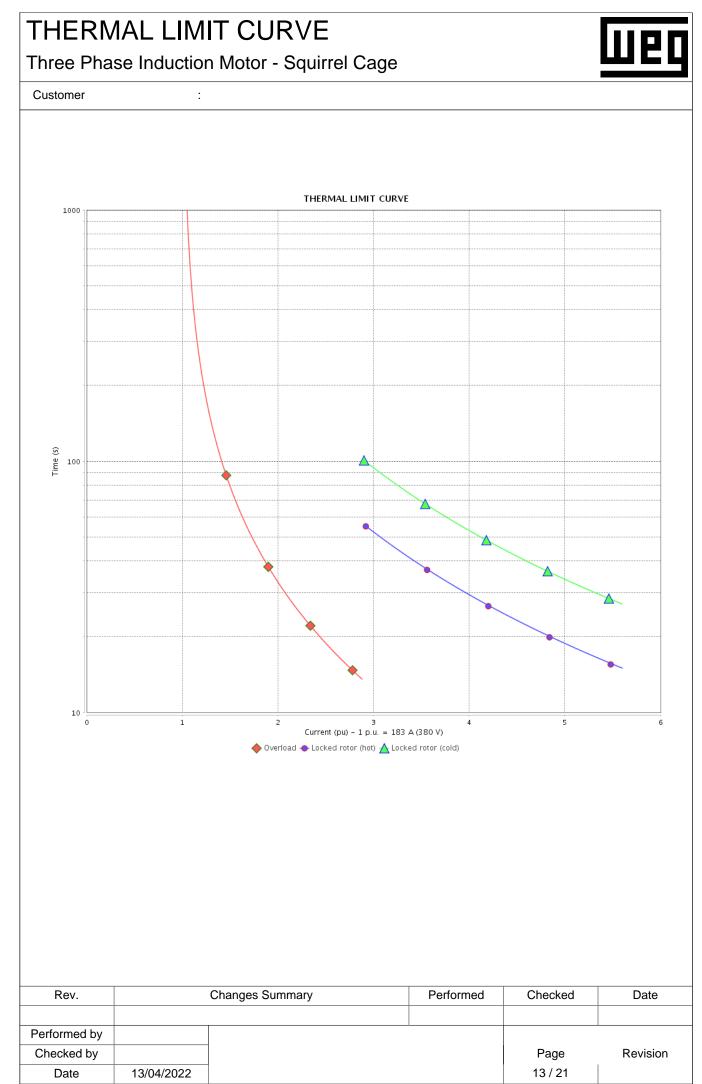
[
	LIMIT CURVE		шер
	duction Motor - Squirrel C	age	
Customer	:		
Product line	: NEMA Premium Efficiency Th	ree- Product code :	13337942
	Phase	Catalog # :	15009ST3QIERB447T-W2
Performance	: 460 V 60 Hz 8P		
Rated current LRC	: 185 A M : 6.0 D	loment of inertia (J) outy cycle	: 125 sq.ft.lb : Cont.(S1)

LRC	: 6	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 8	85 ft.lb	Insulation	class	: F	
Locked rotor toro	que :1	90 %	Service fa	ctor	: 1.15	
Breakdown torqu	.e :2	10 %	Temperate	ure rise	: 80 K	
Rated speed	: 8	90 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				10/21	



[
THERMAL LI	MIT CURVE		шер
Three Phase Induc	tion Motor - Squirrel	Cage	шсц
Customer	:		
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	13337942
	T HUGE	Catalog # :	15009ST3QIERB447T-W2
Performance	: 380 V 50 Hz 8P IE3		
Rated current LRC	: 183 A : 5.6	Moment of inertia (J) Duty cycle	: 125 sq.ft.lb : Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 170 % : 200 %	Service factor Temperature rise	: 1.15 : 105 K
Rated speed	: 740 rpm	Design	: B

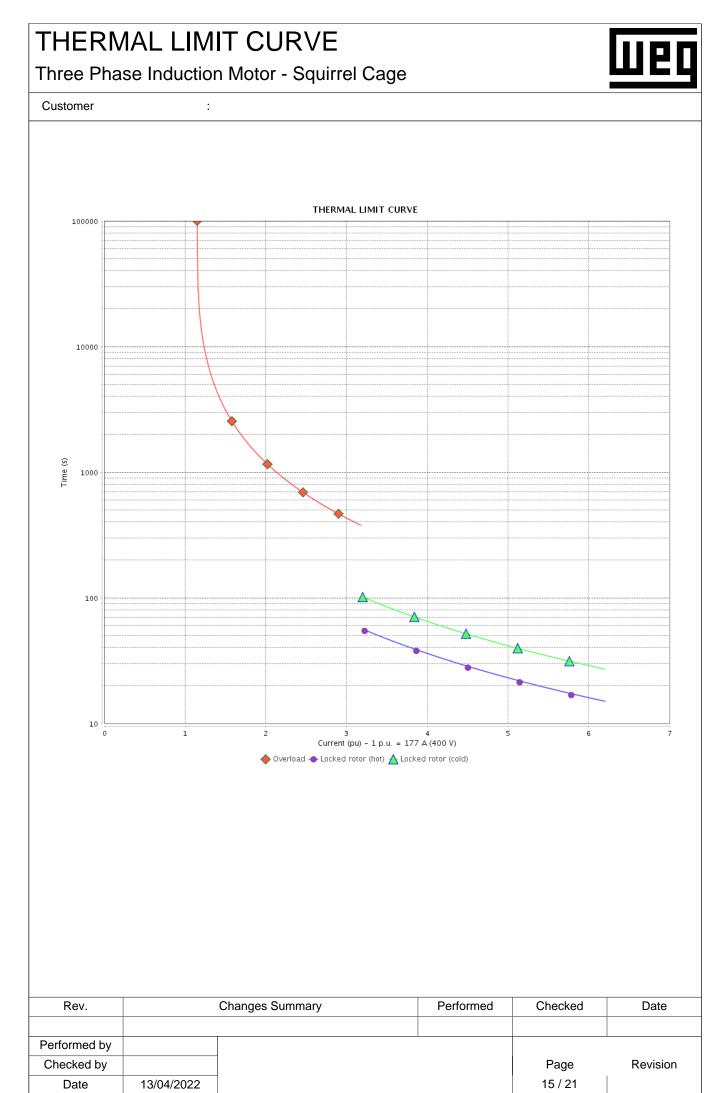
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				12/21	
This do	cument is exclusive	property of WEG S/A. Reprin	ting is not allo	owed without written	authorization of WE	G S/A.



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

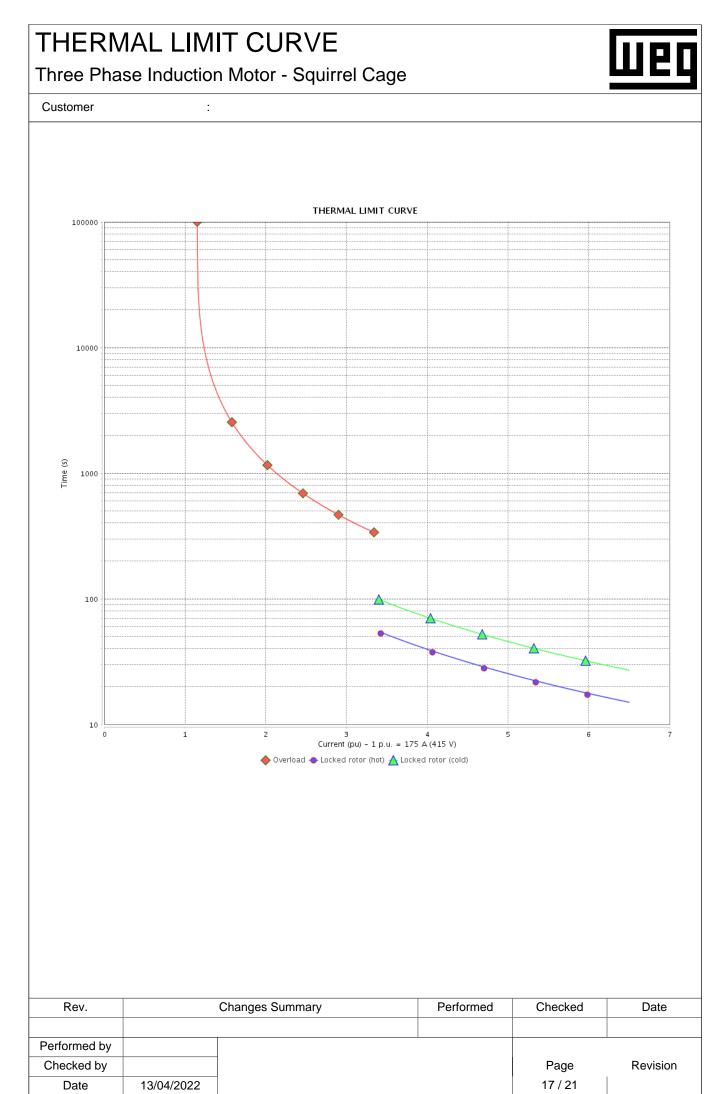
THERMAL L				
	ction Motor - Squirrel	Cage		Шед
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	13337942 15009ST3QIERB447T-W2
Deferment				
Performance Rated current	: 400 V 50 Hz 8P IE3 : 177 A	Moment of	of inertia (J)	: 125 sq.ft.lb
LRC Rated torque	: 6.2 : 887 ft.lb	Duty cycl Insulation	e	: Cont.(S1) : F
Locked rotor torque	: 200 %	Service fa	actor	: 1.15
Breakdown torque Rated speed	: 229 % : 740 rpm	Temperat Design	ure rise	: 80 K : B
		1		

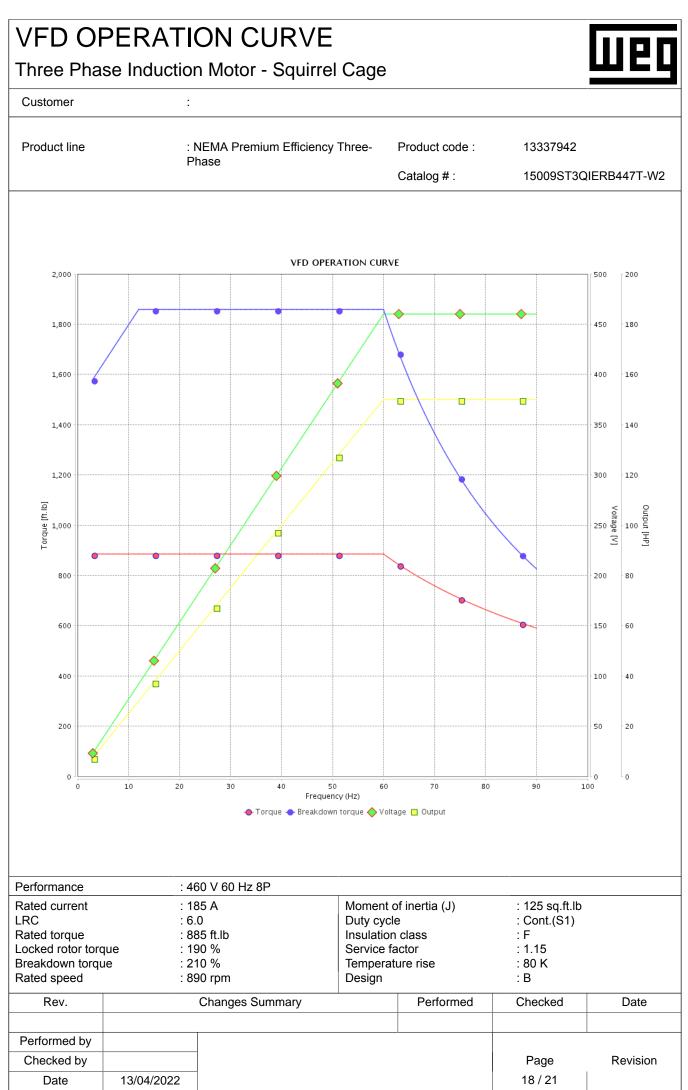
t				
t				
	Changes Summary	Performed	Checked	Date
		l		1
	-		Page	Revision
13/04/2022	-		14/21	
	:	Changes Summary	Changes Summary Performed	Changes Summary Performed Checked



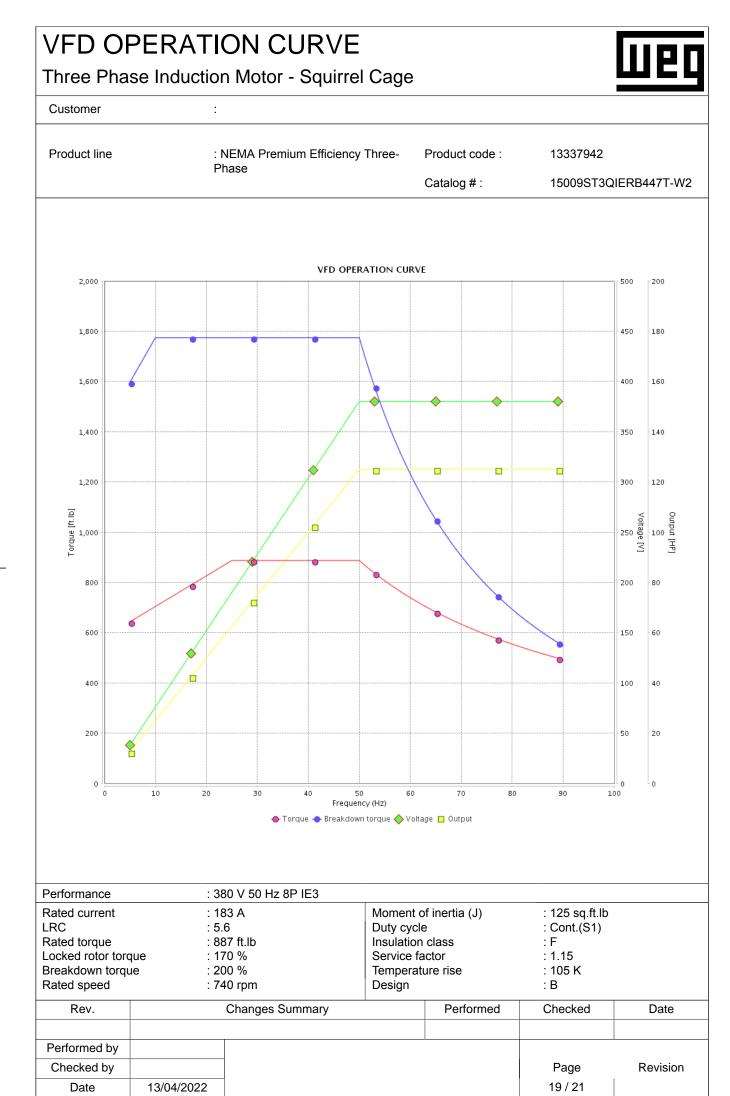
	LIMIT CURVE Juction Motor - Squirrel C	Cage	шед
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	13337942 15009ST3QIERB447T-W2
Performance	: 415 V 50 Hz 8P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 175 A M : 6.5 C : 887 ft.lb Ir : 220 % S : 250 % T	Aoment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 125 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K
Rated speed Heating constant	: 740 rpm C	Design	: B

t					
t					
	Changes Summary		Performed	Checked	Date
					1
	-			Page	Revision
13/04/2022				16 / 21	
	13/04/2022	Changes Summary	Changes Summary	Changes Summary Performed	Changes Summary Performed Checked Changes Summary Performed Performed Page

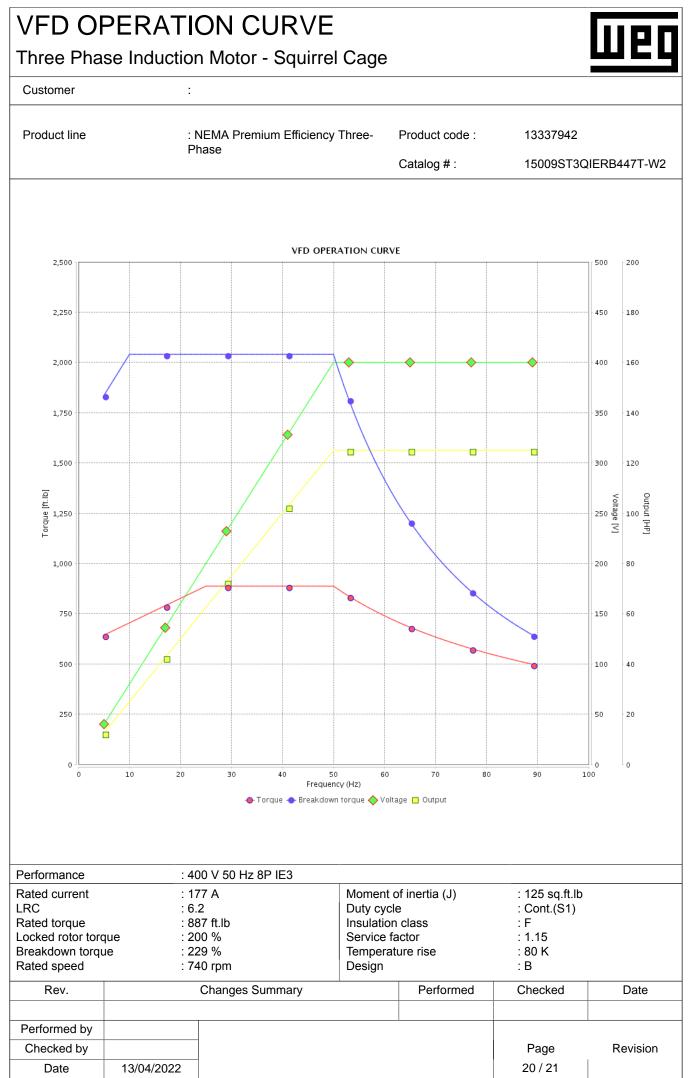




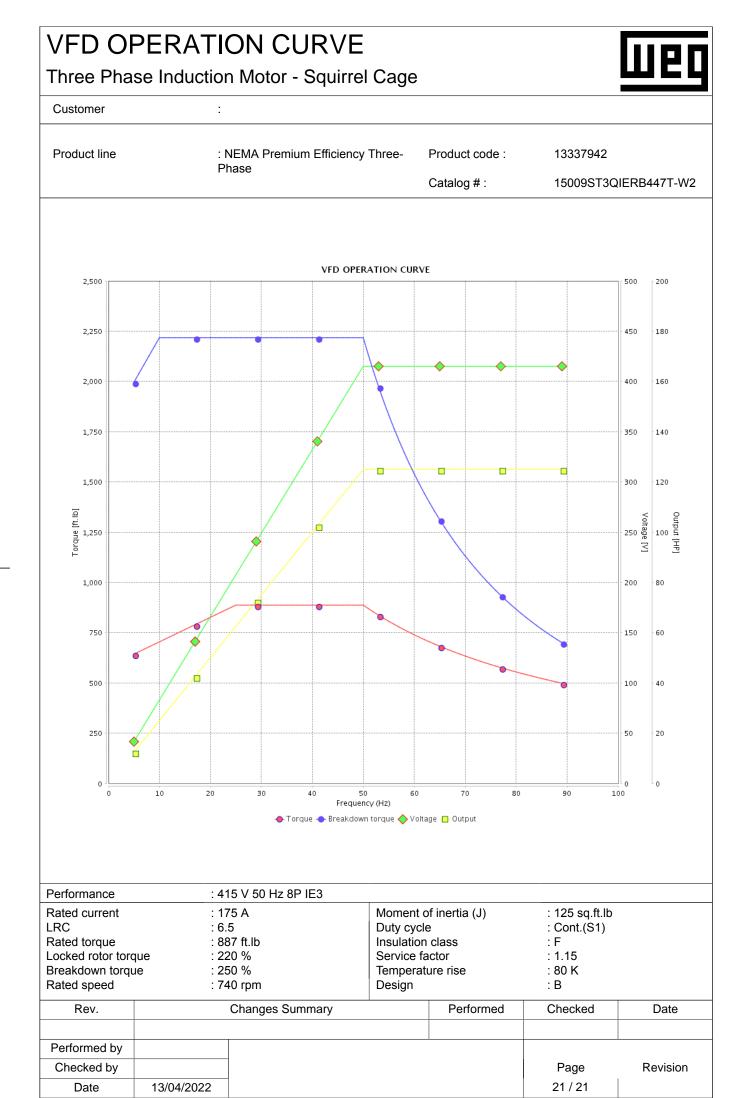
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



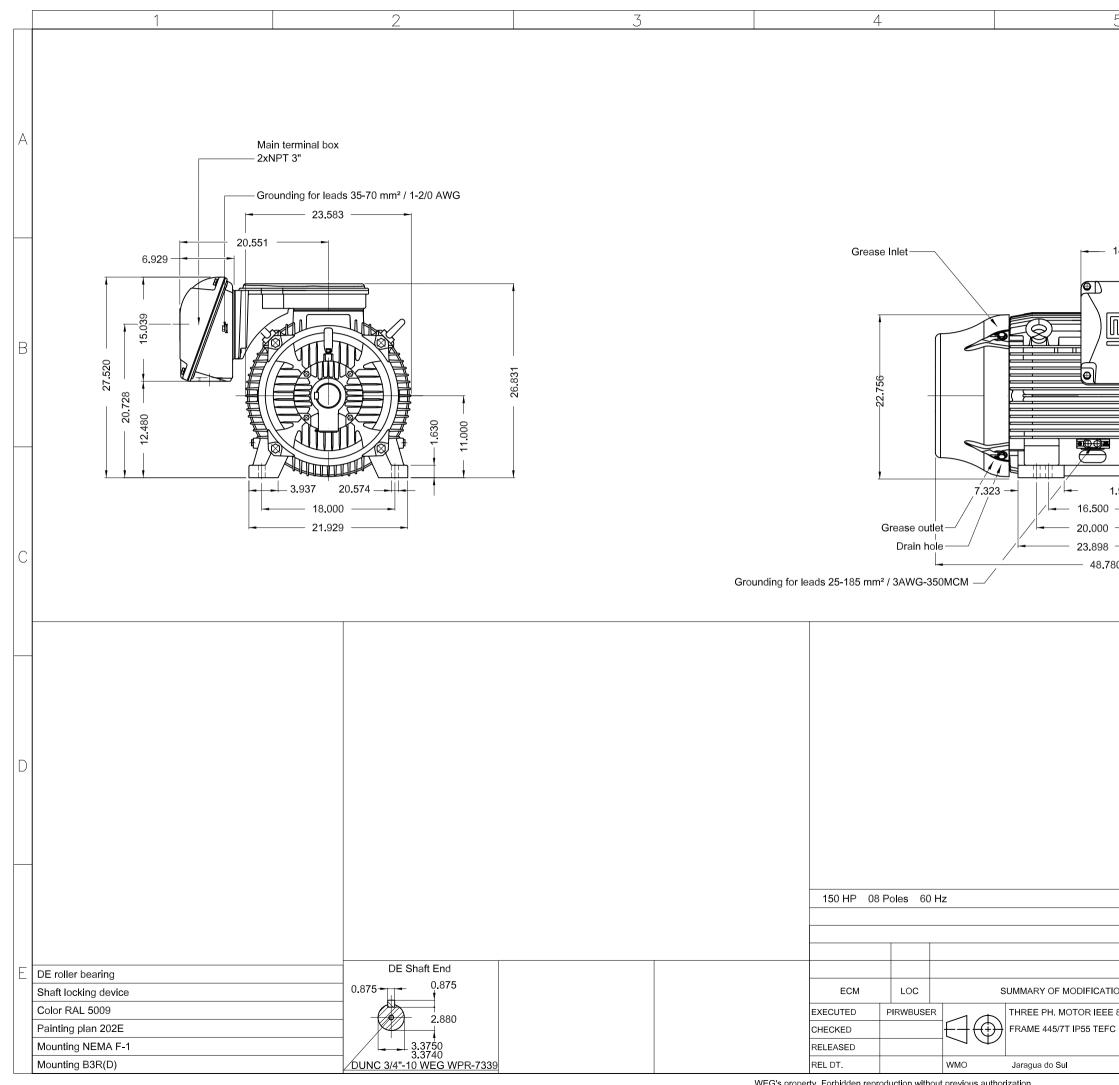
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



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



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



WEG's property. Forbidden reproduction without previous authorization.

						.
5			6			
- 11.811 -						
14.921 —						
	Grea	ase Inlet				
<u> </u>						
F		7.087				
╶┼╴┈╏┣┩						
₽ , 1.929 _►						
7.500-	_\	8.500				
>		Grease outlet				
		Drain hole				
80 ———						
						s
						inche
						Dimensions in inches
						ensio
						D
					A	
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
841 W22 PREM. EF	F.	PREV	EW		=	
C		WDD		ШВ		A3
Produc	t Engineering	SHEET	1 / 1			XME
			,]	