# DATA SHEET

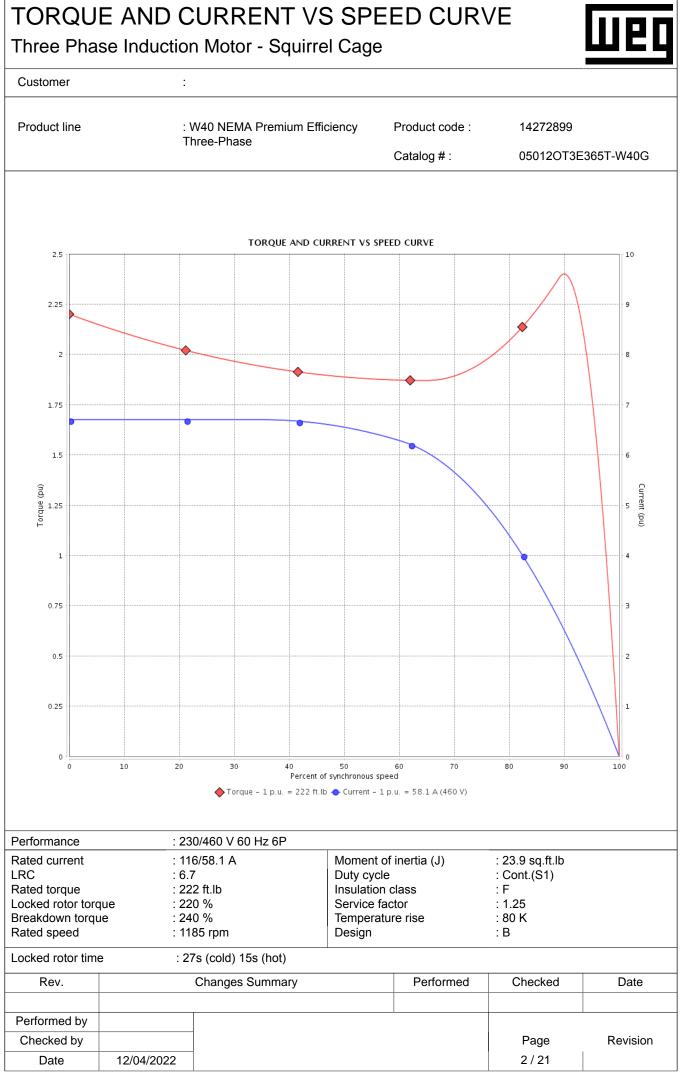
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		ncy Pr	Product code :		14272899	
	Catalog # :		atalog # :	05012OT3E365T-W40G				
Frame Insulation class Duty cycle Ambient temperature Altitude		: 364/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 820 lb		
Protection degree Design	е	: IP23 : B	IP23		Moment of inertia (J)		: 23.9 sq.ft.lb	
Output [HP]		50	1	40	4	0	40	
Poles		6		6		3	6	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40	00	415	
Rated current [A]		116/58.1		57.1	54	1.8	53.5	
. R. Amperes [A]		779/389		400			412	
.RC [A]		6.7x(Code G)	7.0	0x(Code H)	7.2x(C	ode H)	7.7x(Code J)	
No load current [A	1	40.8/20.4		20.2		.7	23.0	
Rated speed [RPN		1185		985		35	985	
Slip [%]		1.25		1.50		50	1.50	
Rated torque [ft.lb]		222		213		13	213	
ocked rotor torqu		220	213			29	250	
Breakdown torque		240	200			70	290	
Service factor	[,,]	1.25	1.00			00	1.00	
emperature rise		80 K	80 K			00 ) K	80 K	
Locked rotor time		27s (cold) 15s (hot)					25s (cold) 14s (hot)	
locked fotor time		68.0 dB(A)	203 (0					
	25%	93.5		92.4	92	2.4	92.4	
<b>Ff</b> (:	50%	93.6	92.5		92	2.5	92.5	
Efficiency (%)	75%	94.1	92.9		92	2.9	92.9	
	100%	94.1	92.9			2.9	92.9	
	25%	0.48		0.48		44	0.42	
	50%	0.74		0.74	0.		0.68	
Power Factor	75%	0.82		0.83		80	0.79	
	100%	0.85		0.86		85	0.84	
Bearing type		Drive end Non dr	<u>ive end</u> 2 Z C3	Foundatior Max. tracti	n loads on	: 1709 lb		
Sealing Lubrication interv	val	Bearing Seal Bear	ithout ing Seal 000 h	Max. comp	pression	: 2529 lb		
Lubricant amoun	t	: 27 g 1	13 g					
Lubricant type		: Mobil Polyrex E	EM					
Notes USABLE @208V	128A SF 1.1	15 SFA 148A						
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	ncel the previous one, when the previous one, when the shaft end. Holerance of +3dB(A). Set to changes after	hich				with sinusoidal ipulated in NEMA	
Rev.		Changes Summer	,		Performed	Checked	Data	
Kev.		Changes Summary			Performed	Unecked	Date	
Performed by								
Checked by		—				Page	Revision	
	10/04/000	2				-		
Date	12/04/202	2				1 / 21		

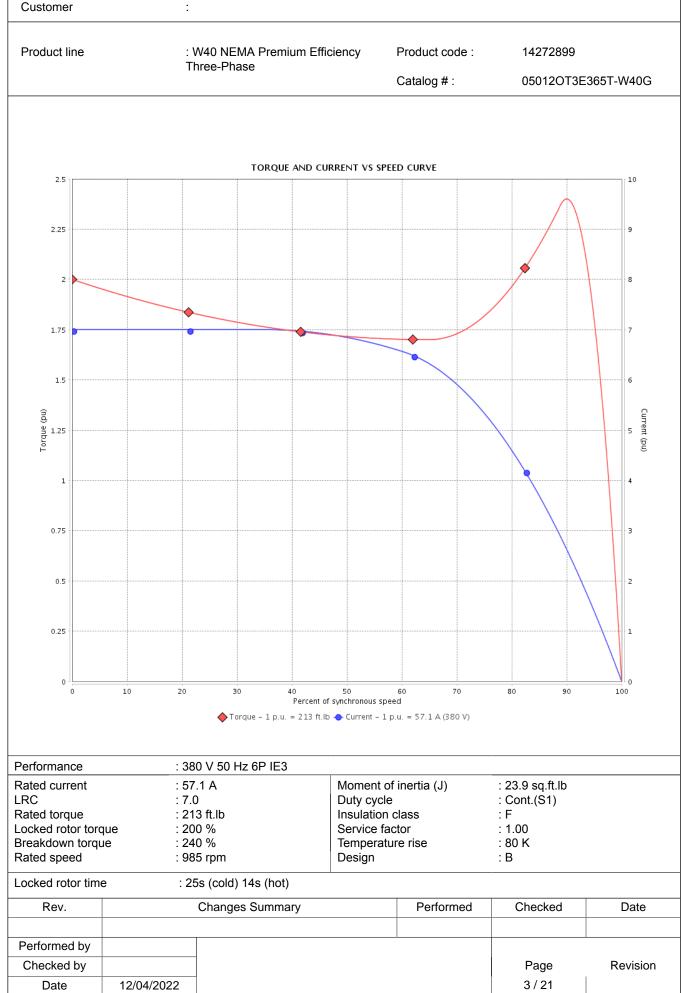


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

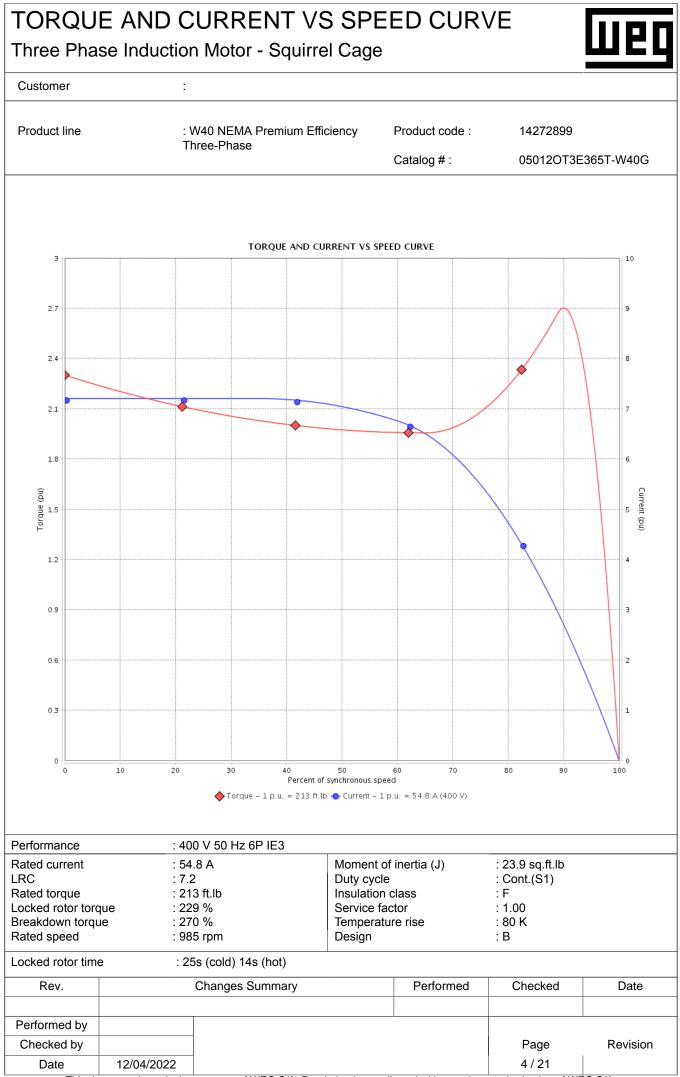
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



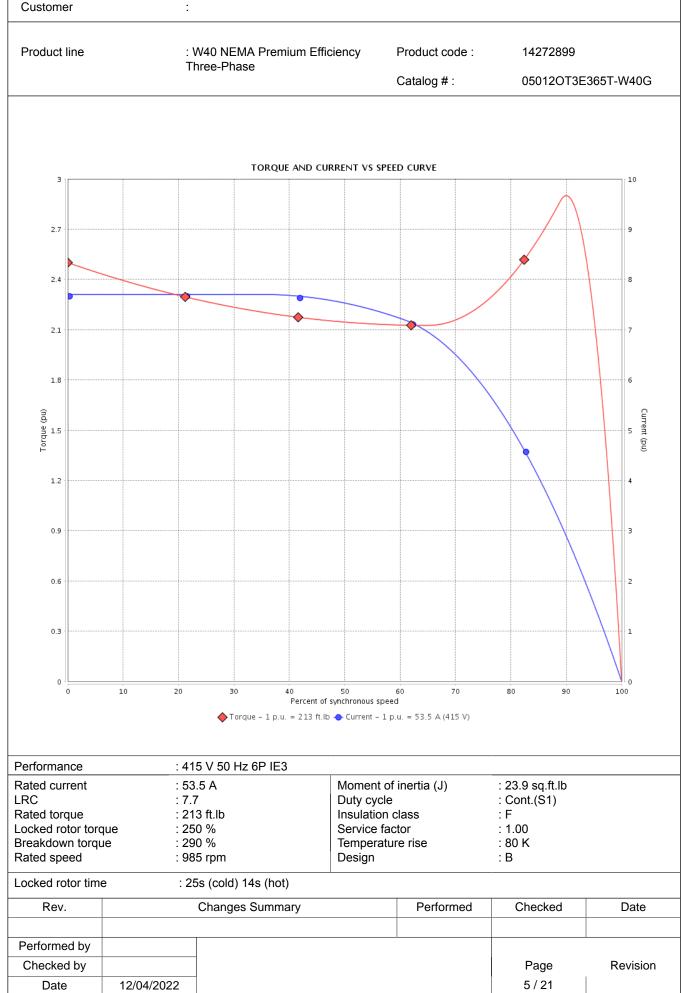
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



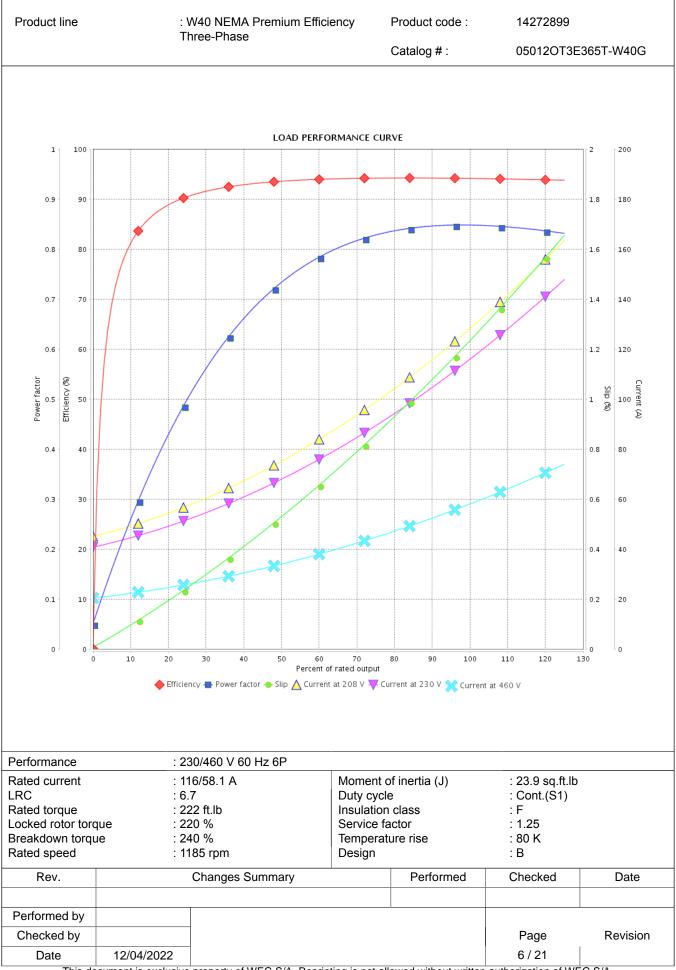
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

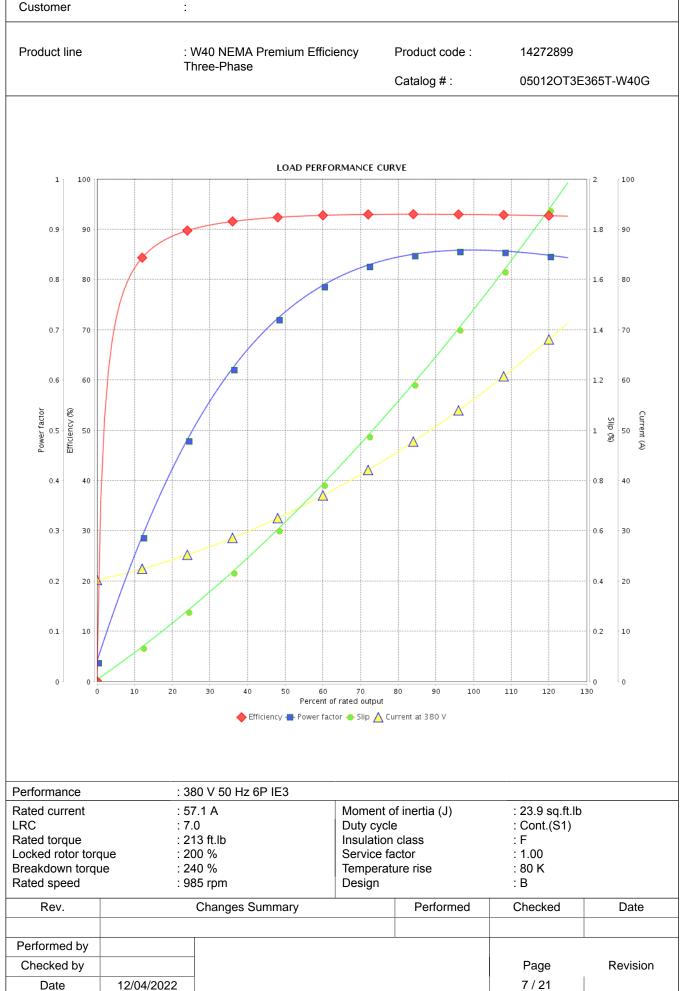


Customer



Three Phase Induction Motor - Squirrel Cage

### Customer



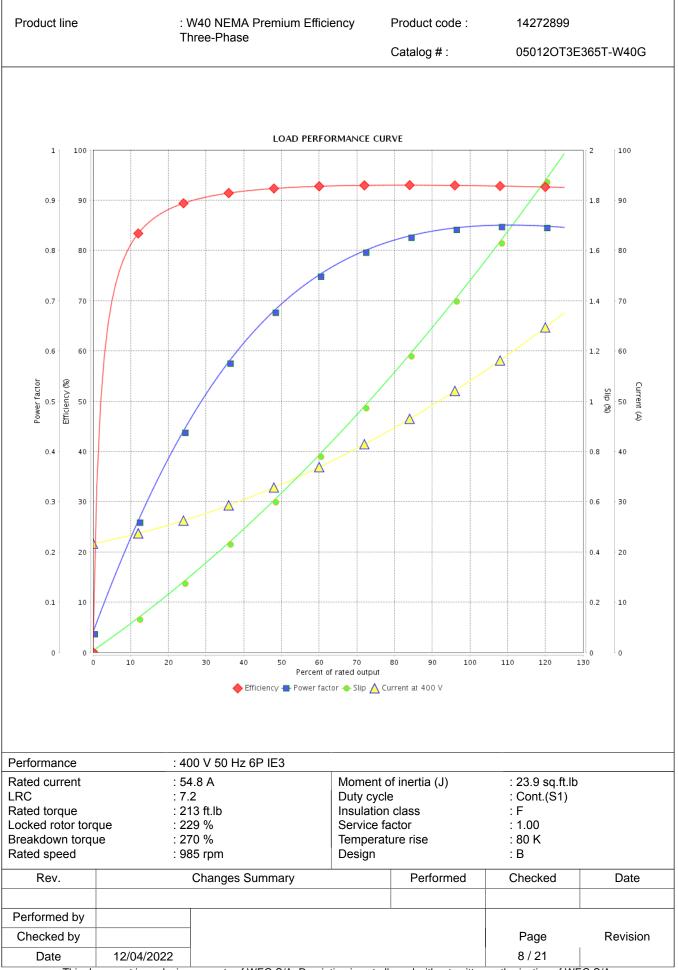
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

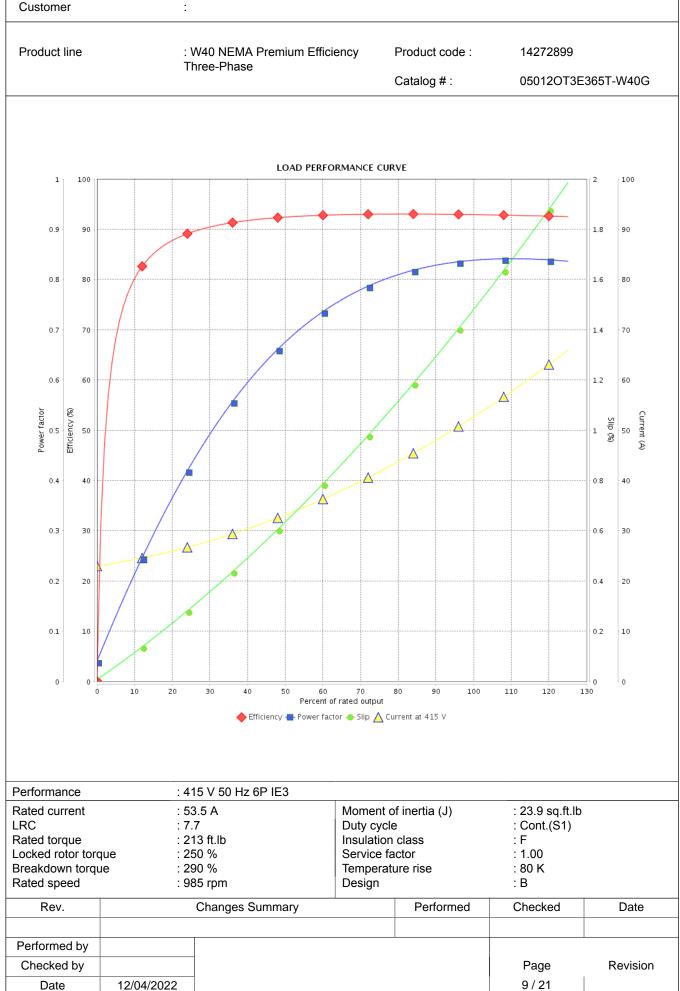


Customer



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 LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

:

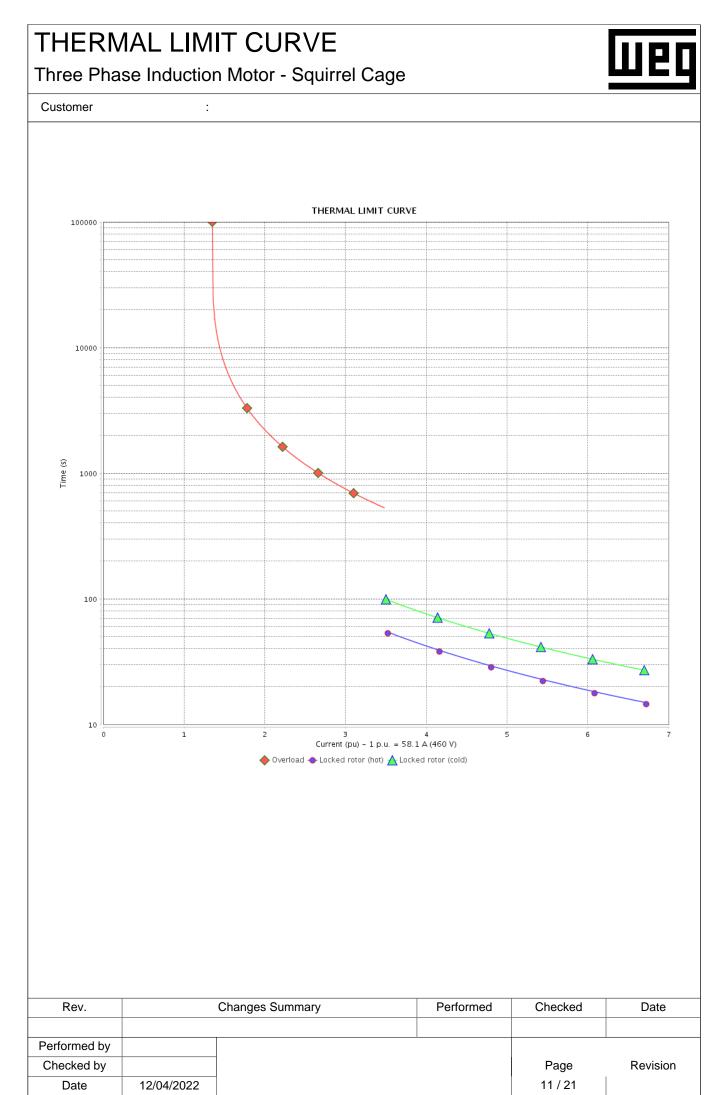


Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase						
				Product code :	14272899			
	Į			Catalog # :	05012OT3E3	65T-W40G		
Performance		30/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6 : 2 jue : 2 ie : 2	16/58.1 A .7 22 ft.lb 20 % 40 % 185 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Heating constant			-					
Cooling constant								
Rev.		Changes Summary		Performed	Checked	Date		
		T						
Performed by		_			_			
Checked by		_			Page	Revision		
Date	12/04/2022				10/21			

 12/04/2022
 10 / 21

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



## THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

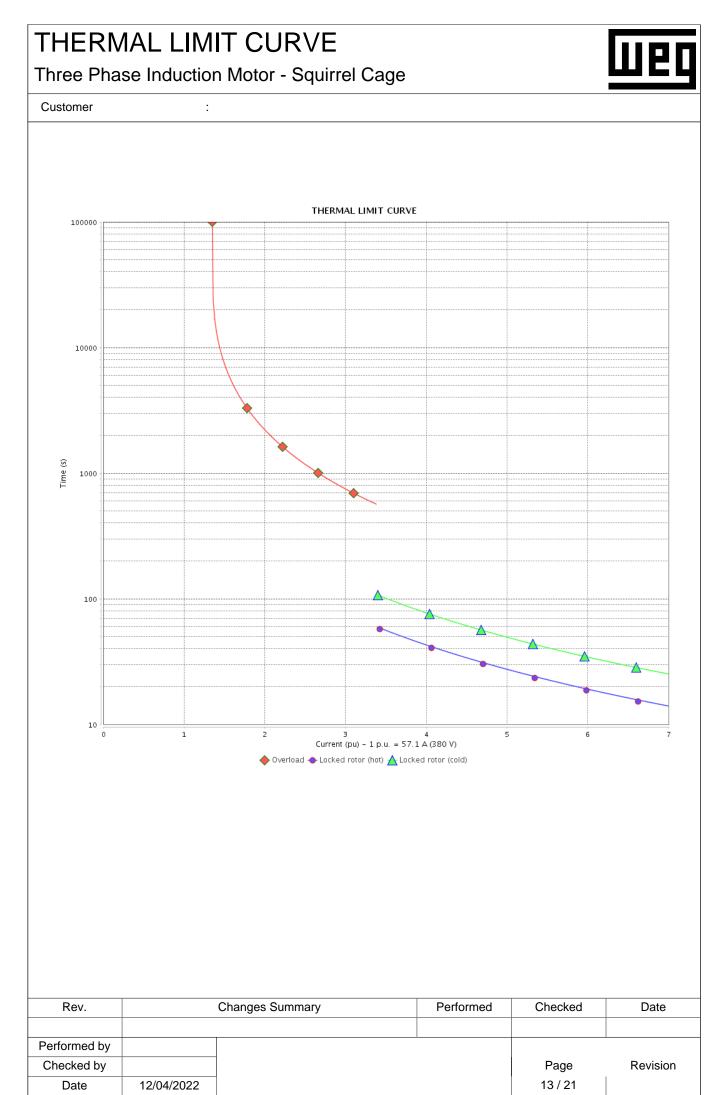
:



Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272899	14272899		
				Catalog # :	05012OT3E3	05012OT3E365T-W40G		
Performance		80 V 50 Hz 6P IE3						
Rated current _RC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 2 que : 2 ue : 2	7.1 A .0 13 ft.lb 00 % 40 % 85 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constant	t							
Cooling constant	t							
Rev.		Changes Summary		Performed	Checked	Date		
Performed by		_						
Checked by		_			Page	Revision		
Date	12/04/2022				12 / 21			

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



## THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

:

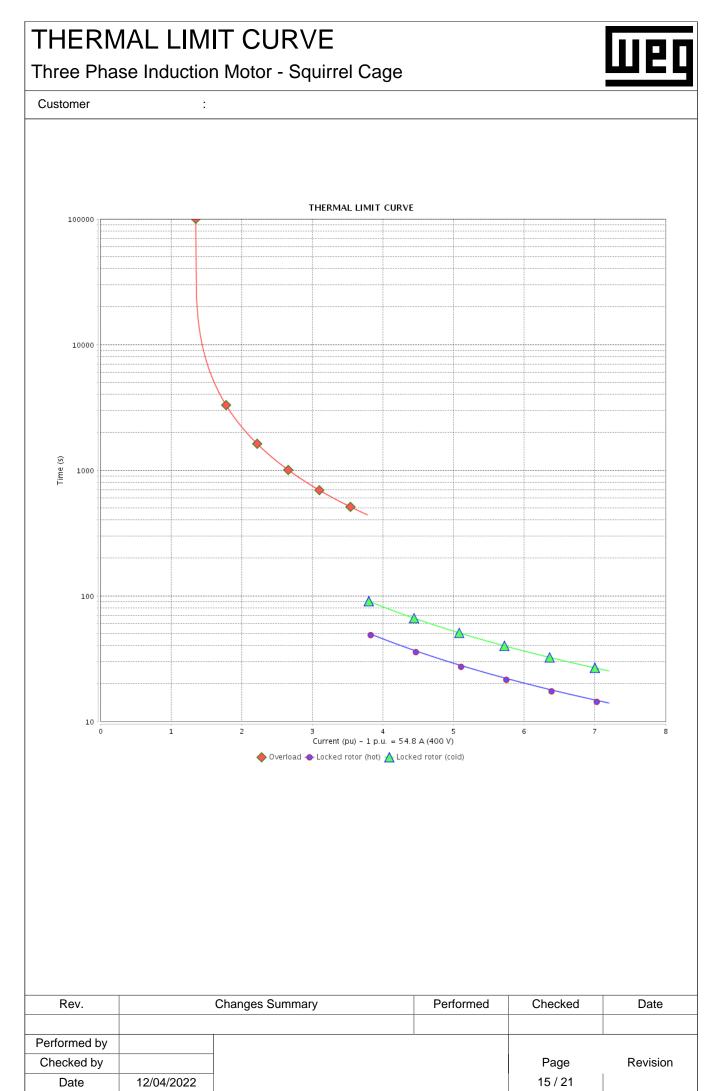


Customer

Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272899		
		nree-Phase	Catalog # :		05012OT3E365T-W40G		
Performance	: 40	00 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 2 <sup>-</sup> iue : 22 ie : 21	4.8 A .2 13 ft.lb 29 % 70 % 85 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constan							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
		<b>C C</b>			-		
Performed by							
Checked by		-			Page	Revision	
Date	12/04/2022	-			14 / 21		

 e
 12/04/2022
 14 / 21

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



## THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

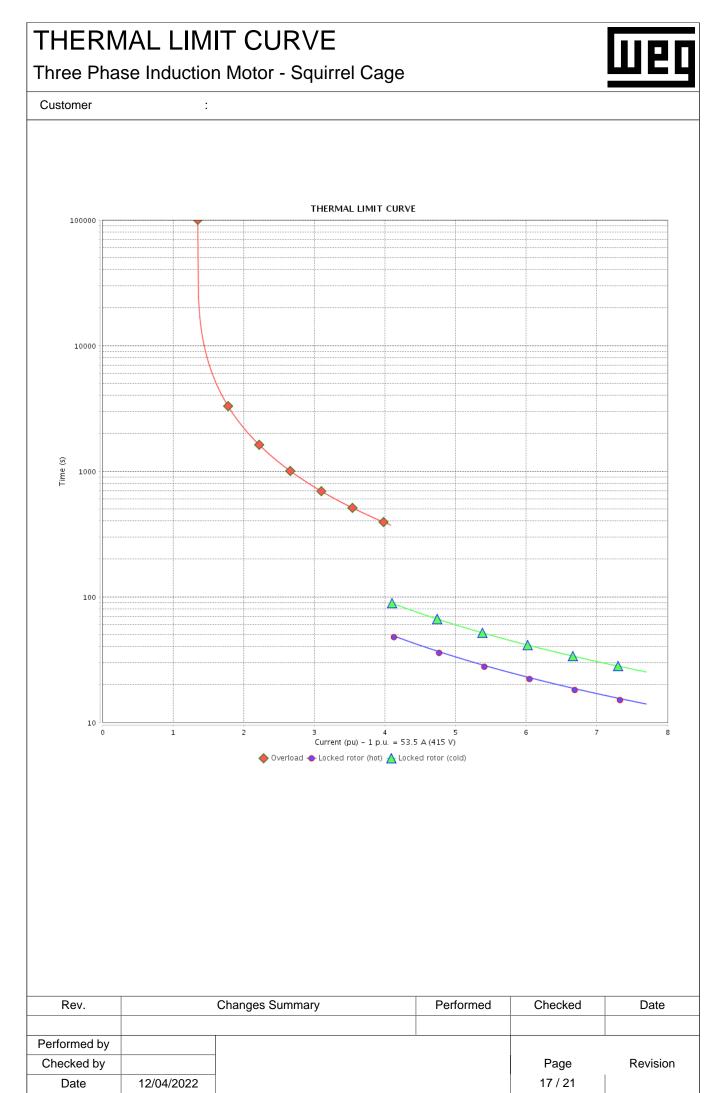
:

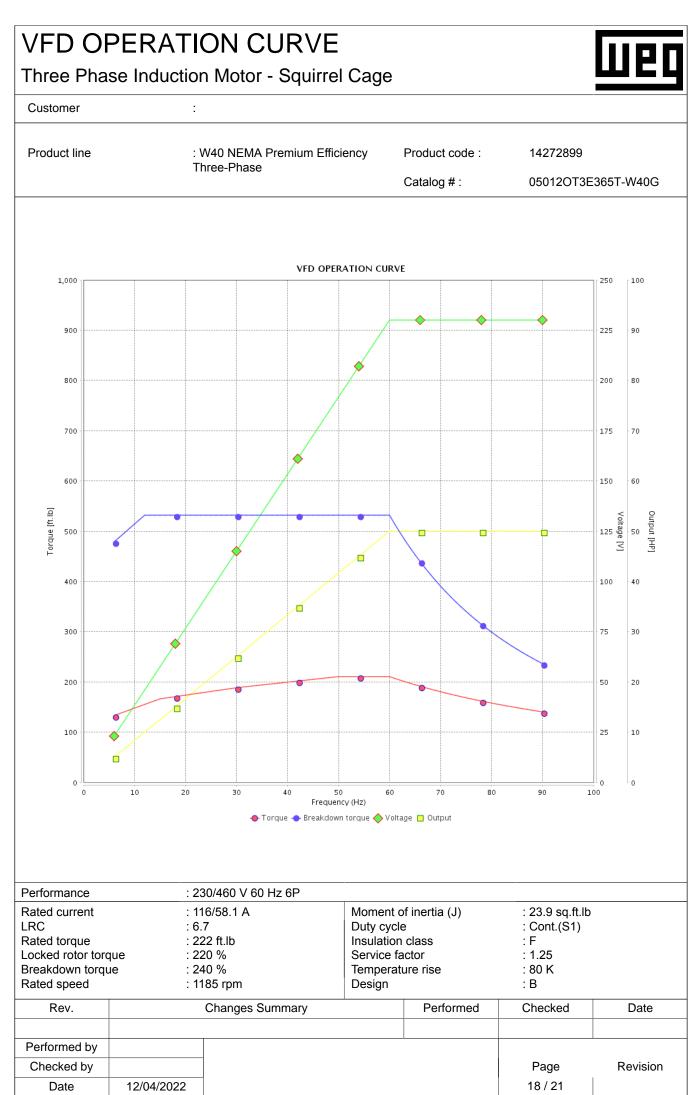


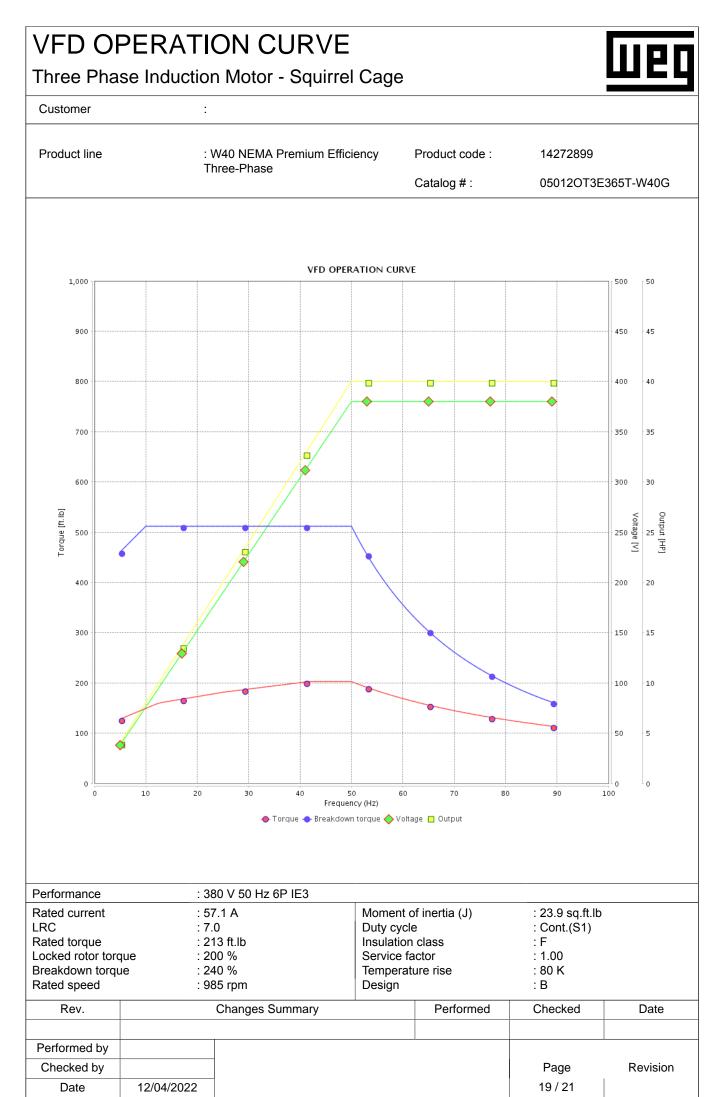
Customer

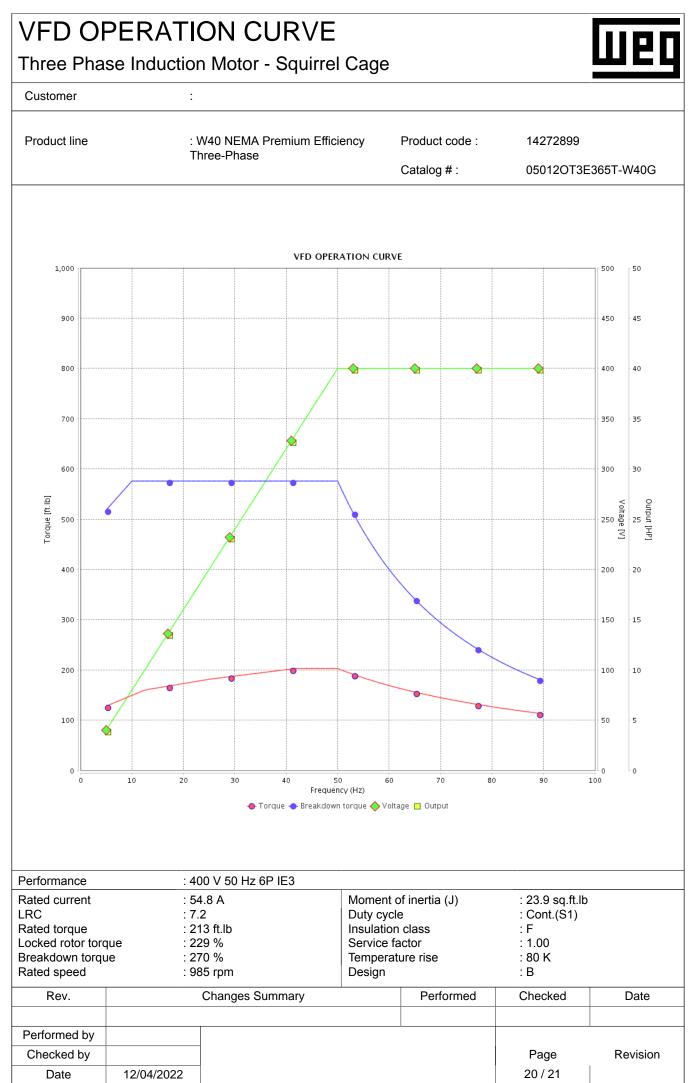
Product line		W40 NEMA Premium Efficie hree-Phase	ency l	Product code :	14272899	14272899	
	I		(	Catalog # :	05012OT3E3	65T-W40G	
Performance Rated current		15 V 50 Hz 6P IE3 3.5 A	Momonto	f inertia (J)	: 23.9 sq.ft.lb		
LRC	: 7	.7	Duty cycle		: Cont.(S1)		
Rated torque		13 ft.lb 50 %	Insulation		: F : 1.00		
Locked rotor toro Breakdown torqu	ue :2	90 %	Service factor Temperature rise		: 80 K		
Rated speed		85 rpm	Design		: B		
Heating constant	t						
Cooling constant	t						
Rev.		Changes Summary		Performed	Checked	Date	
<b>D</b> ( ) ) )		1					
Performed by		-			D	Decision	
Checked by	12/04/2022	-			Page	Revision	

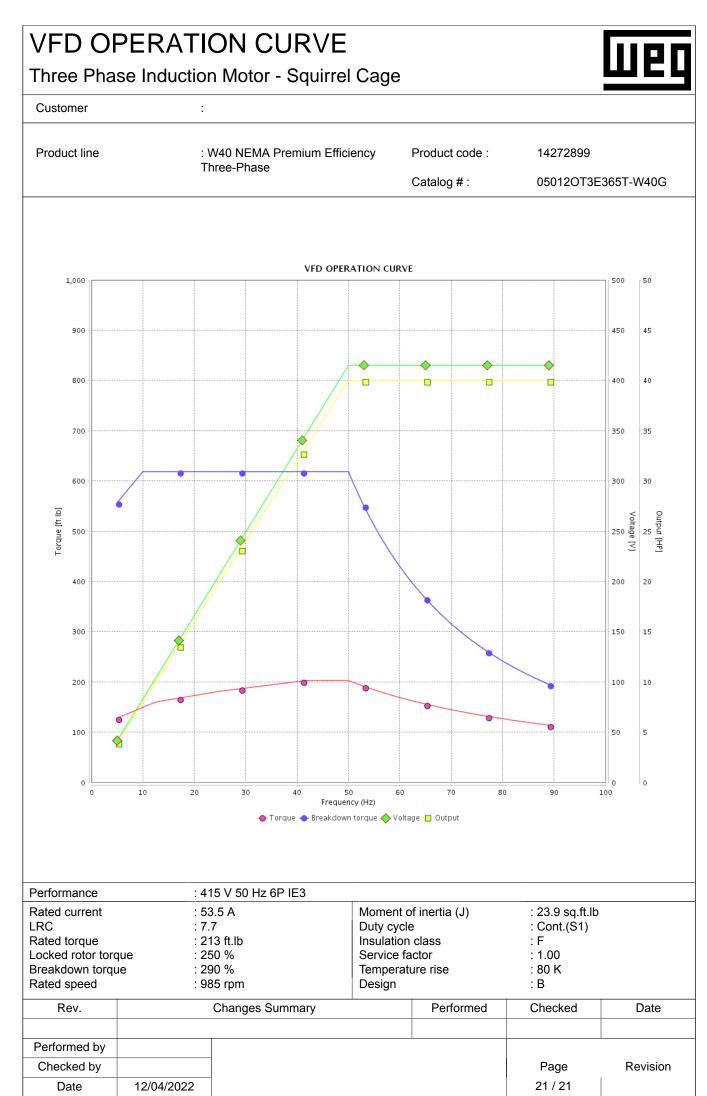
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

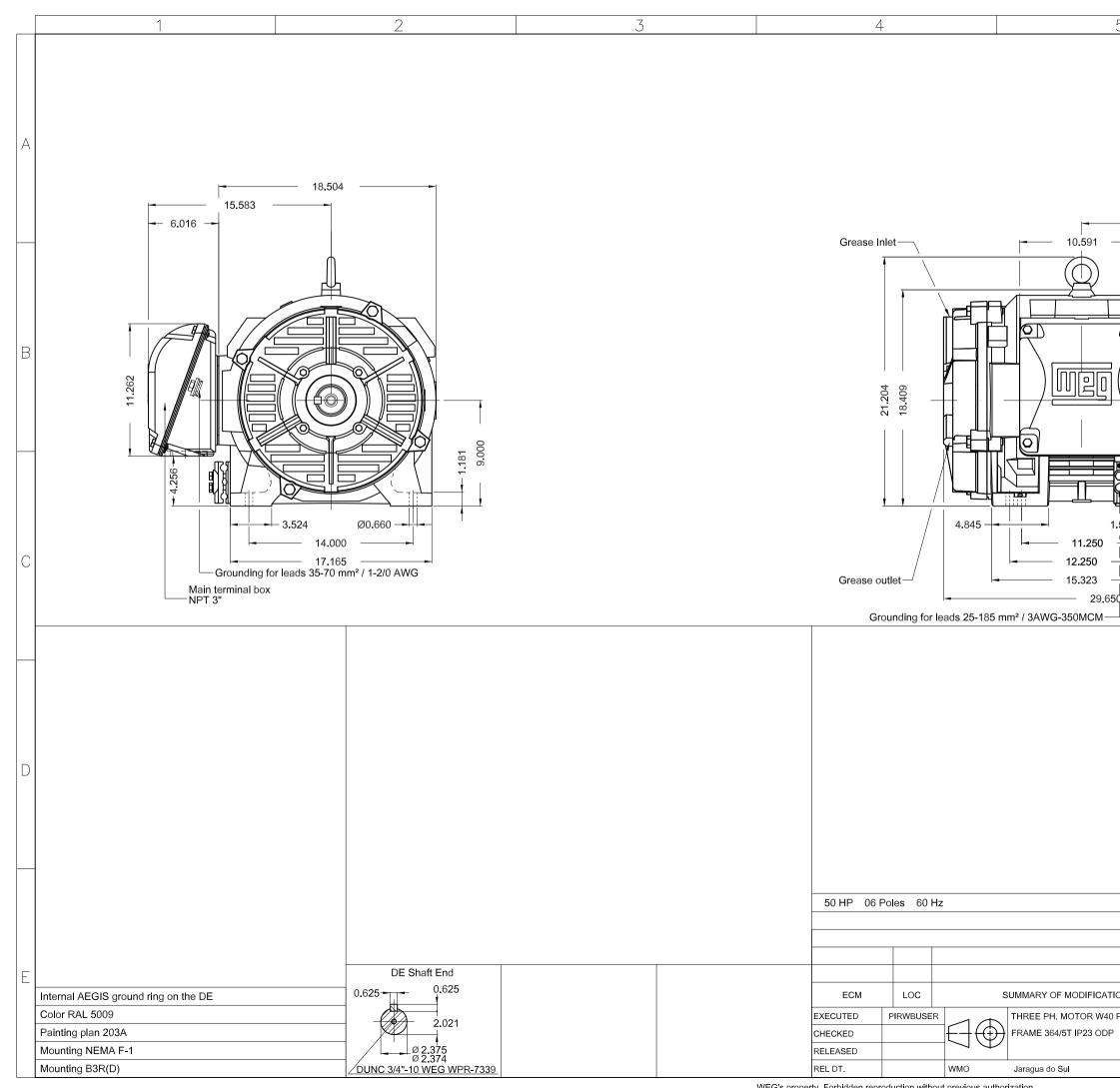












WEG's property. Forbidden reproduction without previous authorization.

					1	
5			6			
- 12.000	1					
		-Grease Inlet				
	/					
	L /	331 -				
	h - 4.					
	<u>и</u>	<b>J</b>				
	$\backslash$					
1.536	5.87	75 <u> </u>				
<u> </u>		5				
		Grease outlet				
50						
						les
						ר inch
						ons ir
						Dimensions in inches
						Din
					A	
				1:8		
				1.0		
IONS EXE	ECUTED	CHECKED	RELEASED	DATE	VER	
PREM. EFF.				·		
) )		PREVI				A3
		WDD		ШВ		
Product Engir	neering	SHEET	1 / 1			XME
. <u> </u>						

