# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

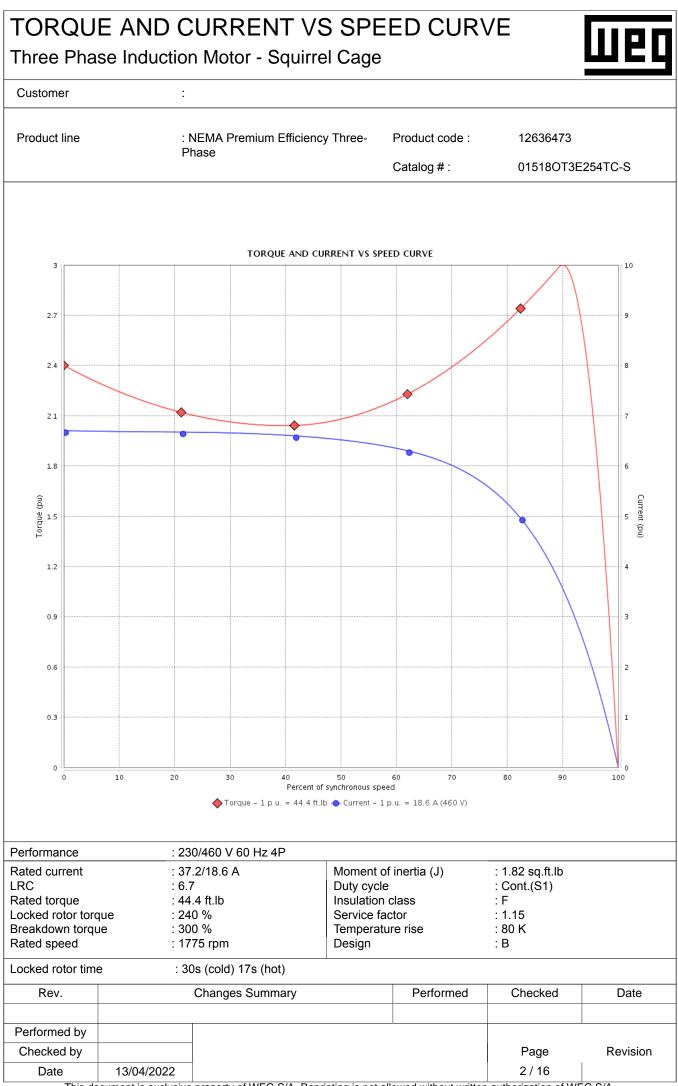
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#### Customer

Product line		: NEMA Premium Efficiency T Phase	hree- Product code :	12636473		
		1 11000	Catalog # :	01518OT3E	254TC-S	
Frame Insulation class Duty cycle		: 254/6TC : F : Cont.(S1)	Cooling method Mounting Rotation <sup>1</sup>	: IC01 - ODP : F-1 : Both (CW and CCW)		
Ambient temperature Altitude Design		: -20°C to +40°C : 1000 m.a.s.l. : B	Starting method Approx. weight <sup>3</sup> Moment of inertia (J)	: Direct On I : 203 lb : 1.82 sq.ft.ll		
Output [HP]		15	15	· · ·	15	
Poles		4	4		4	
Frequency [Hz]		60	50		50	
Rated voltage [V]		230/460	190-220/380		415	
Rated current [A]		37.2/18.6	43.8-37.8/21.9		20.9	
L. R. Amperes [A]		249/125	237-204/118		132 October 11)	
_RC [A] No load current [A	1	6.7x(Code H) 19.0/9.50	5.4x(Code F) 17.3-15.0/8.67		Code H) 10.5	
Rated speed [RPN		19.0/9.50	17.3-15.0/8.67		10.5 1470	
Rated speed [RPN Slip [%]	vi]	1.39	2.33		2.00	
Rated torque [ft.lb]	1	44.4	53.8		2.00 53.6	
Locked rotor torqu		240	170		210	
Breakdown torque		300	220		270	
Service factor	. [ , .]	1.15	1.15		1.15	
Temperature rise		80 K	80 K		30 K	
Locked rotor time		30s (cold) 17s (hot)	Os (cold) Os (hot)		d) 0s (hot)	
Noise level <sup>2</sup>		64.0 dB(A)	62.0 dB(A)		0 dB(A)	
	25%					
$\Gamma$ fficiency (0/)	50%	91.7	91.3		90.3	
Efficiency (%)	75%	92.4	91.0		90.9	
	100%	93.0	89.7		90.3	
	25%					
Power Factor	50%	0.62	0.71		0.62	
	75%	0.73	0.81		0.75	
	100%	0.80	0.85	5 0.		
Bearing type Sealing		Drive end 6309 Z C3Non drive end 6208 Z C3WithoutWithout	Max. traction : 592 lb Max. compression : 795 lb			
Lubrication interv Lubricant amoun		Bearing Seal Bearing Seal 20000 h 20000 h 13 g 8 g	al			
Lubricant type		: Mobil Polyrex EM				
Notes USABLE @208V	/ 41.1A SF 1.	00 SFA 41.1A				
This revision repla must be eliminate	ed. Notor from the		These are average values power supply, subject to the MG-1.			
<ul><li>(1) Looking the m</li><li>(2) Measured at 1</li><li>(3) Approximate v</li><li>manufacturing pro</li></ul>	weight subjec ocess.	t to changes after				
<ul><li>(1) Looking the m</li><li>(2) Measured at 1</li><li>(3) Approximate v</li></ul>	weight subjec ocess.					
<ul><li>(1) Looking the m</li><li>(2) Measured at 1</li><li>(3) Approximate v</li><li>manufacturing pro</li></ul>	weight subjec ocess.		Performed	Checked	Date	
(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	weight subjec ocess.	t to changes after	Performed	Checked	Date	
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(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	weight subjec ocess.	t to changes after	Performed	Checked Page 1 / 16	Date	

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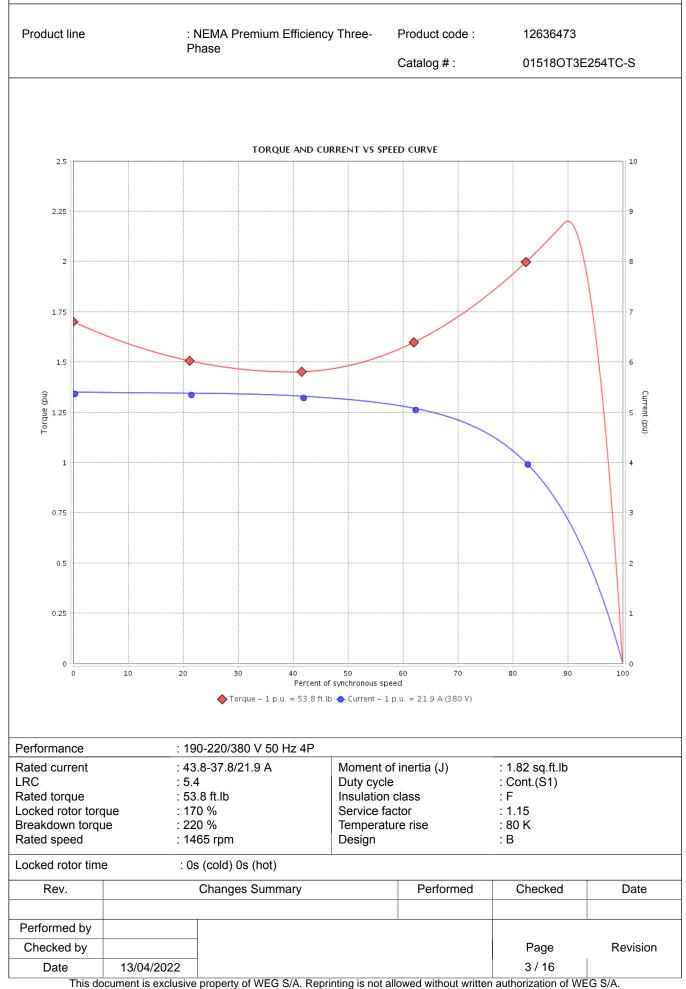
### TORQUE AND CURRENT VS SPEED CURVE

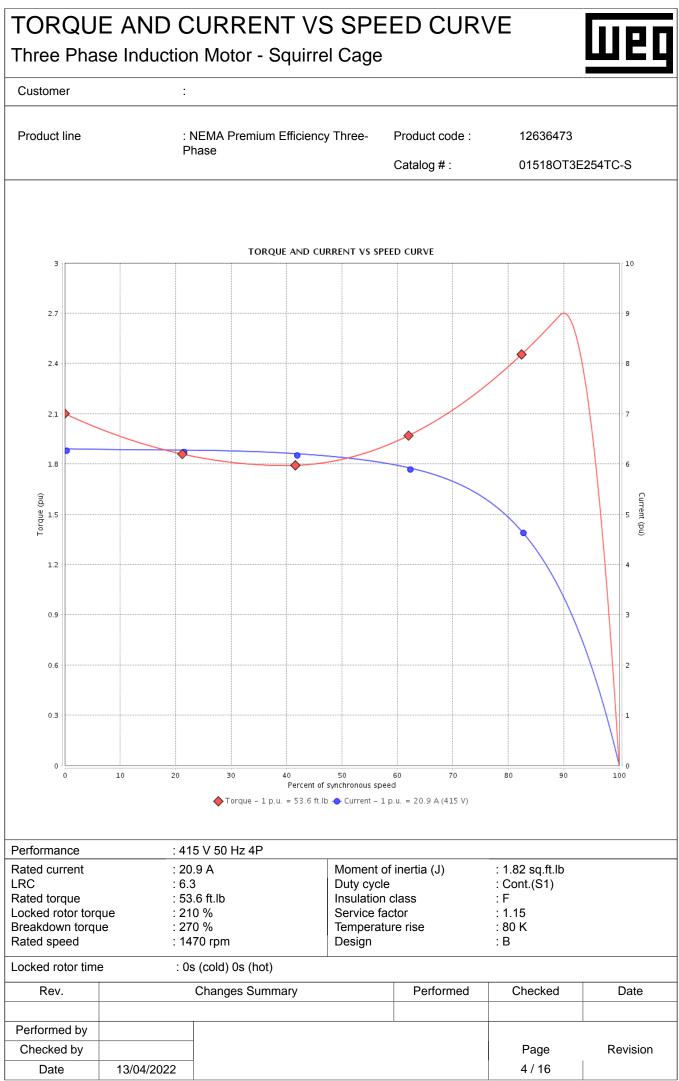
Three Phase Induction Motor - Squirrel Cage

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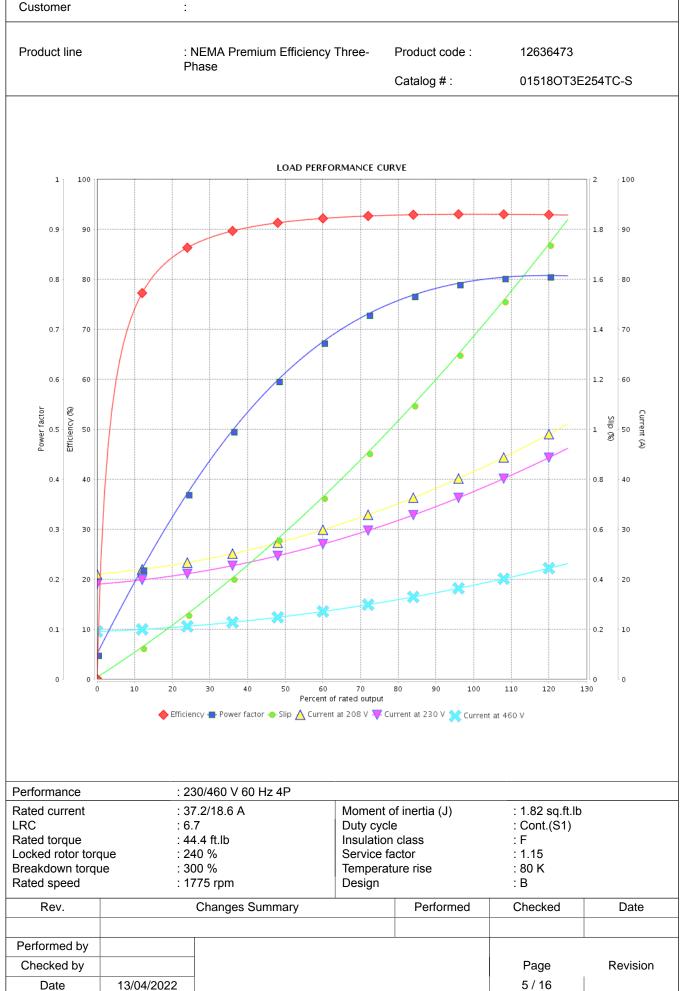




# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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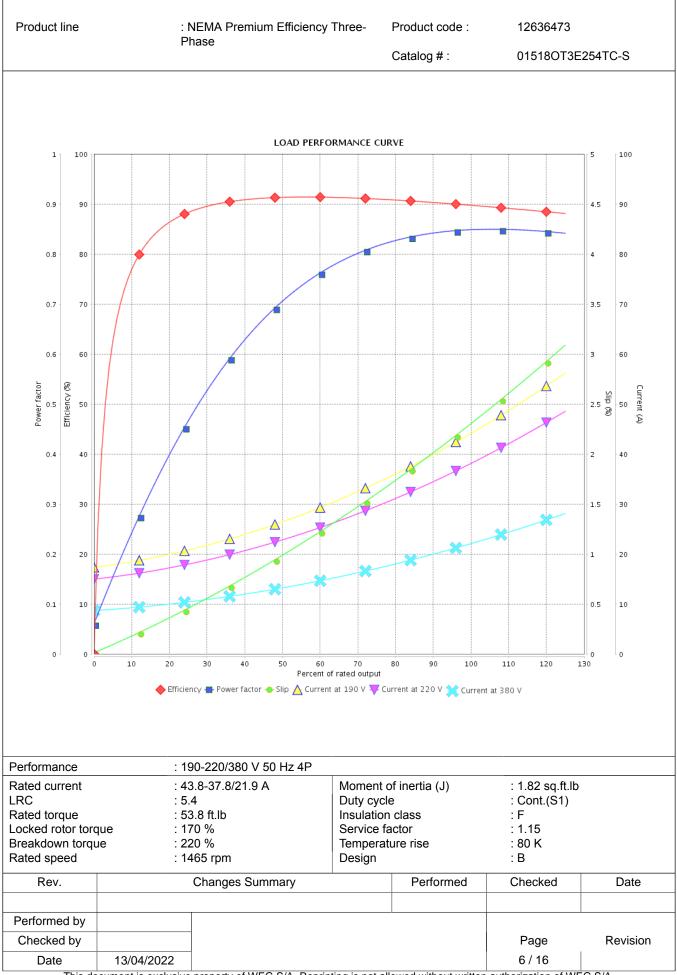
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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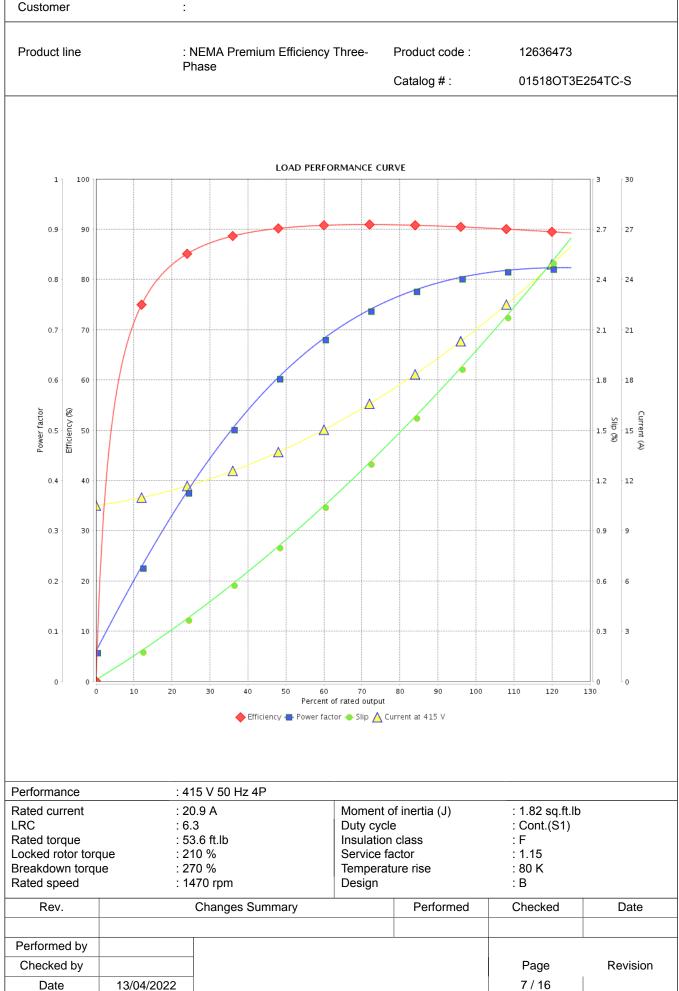
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

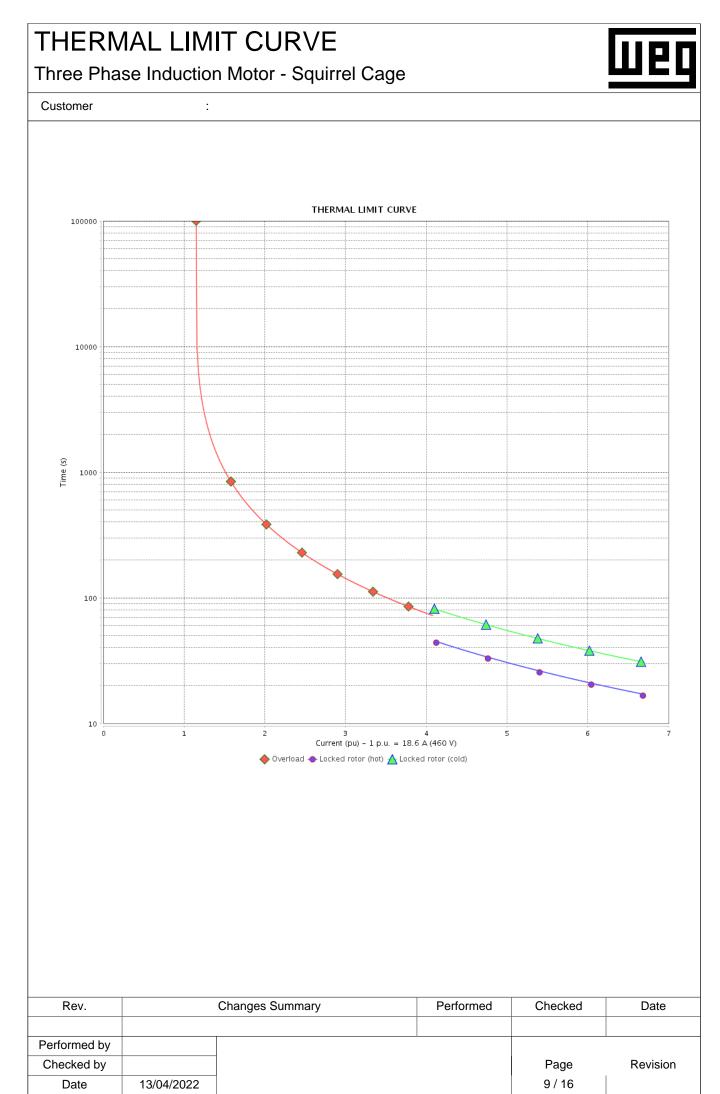
#### Customer



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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		Jage					
Product line	: NEMA Premium Efficiency Th Phase	nree- Product code : Catalog # :	12636473 01518OT3E254TC-S				
Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.2/18.6 A I : 6.7 I : 44.4 ft.lb I : 240 % 5 : 300 %	Moment of inertia (J) Duty cycle nsulation class Service factor Temperature rise Design	: 1.82 sq.ft.lb : Cont.(S1) : F : 1.15 : 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	1		8 / 16	
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	IMIT CURVE ction Motor - Squirrel (	Cage	шер
Customer	:		
Product line	: NEMA Premium Efficiency Tl Phase	hree- Product code : Catalog # :	12636473 01518OT3E254TC-S
Performance	: 190-220/380 V 50 Hz 4P		4.00
Rated current LRC		Moment of inertia (J) Duty cycle	: 1.82 sq.ft.lb : Cont.(S1)
Rated torque		Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque		Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

	13/04/2022		10 / 16			
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Subject to change without notice						

Changes Summary

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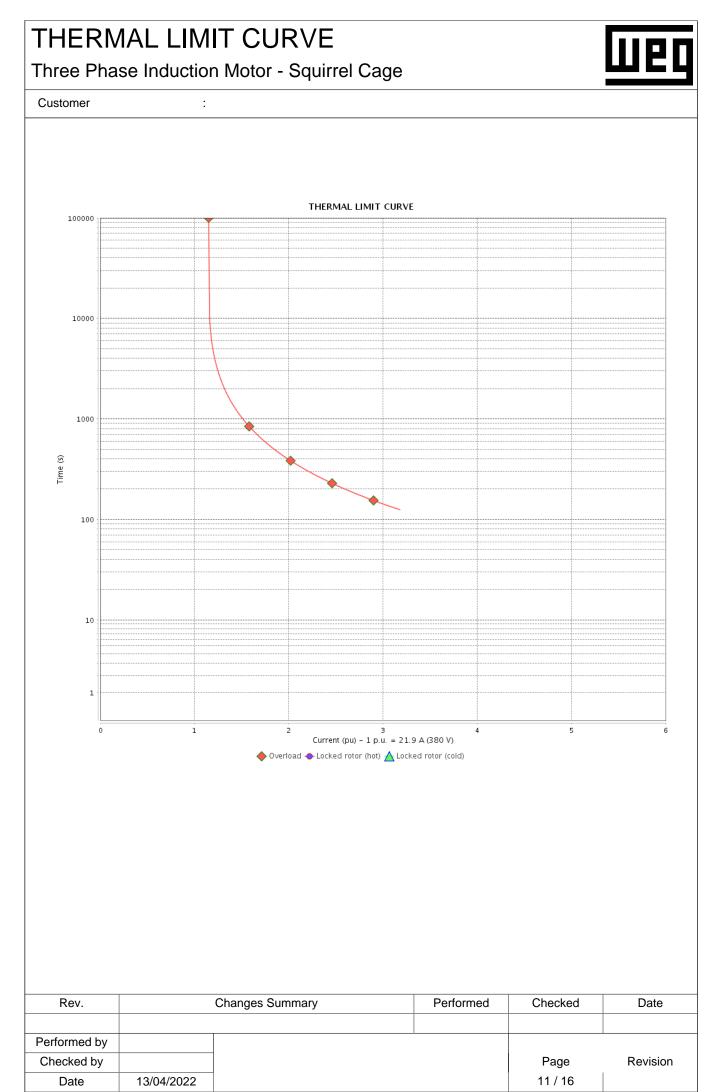
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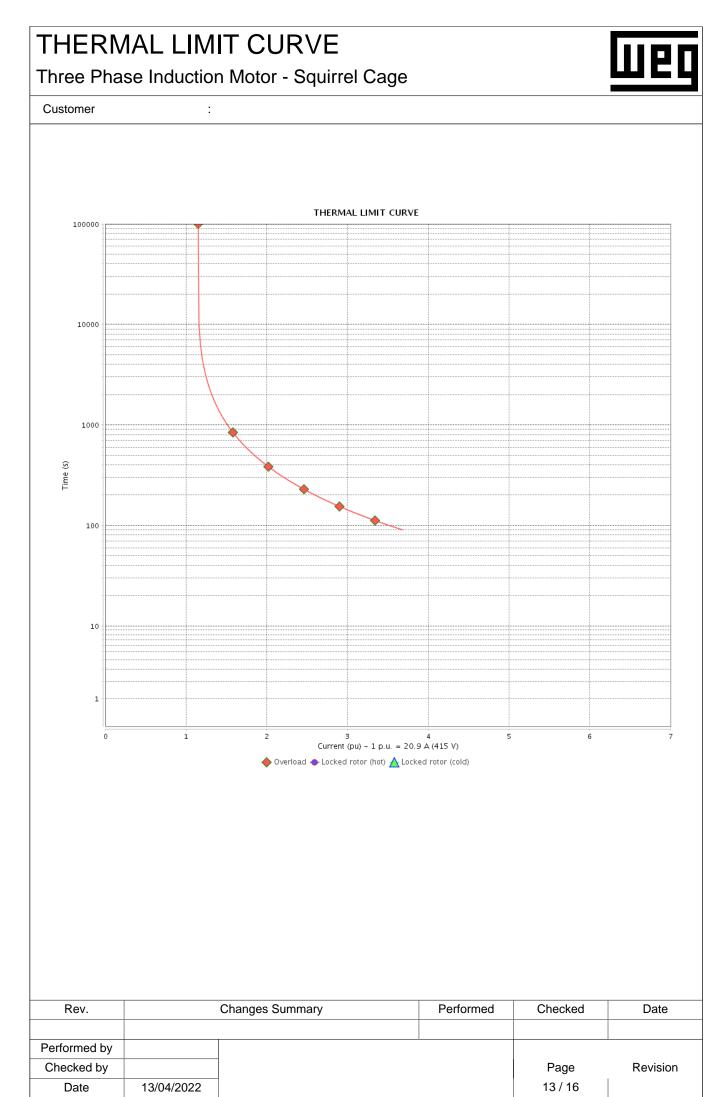
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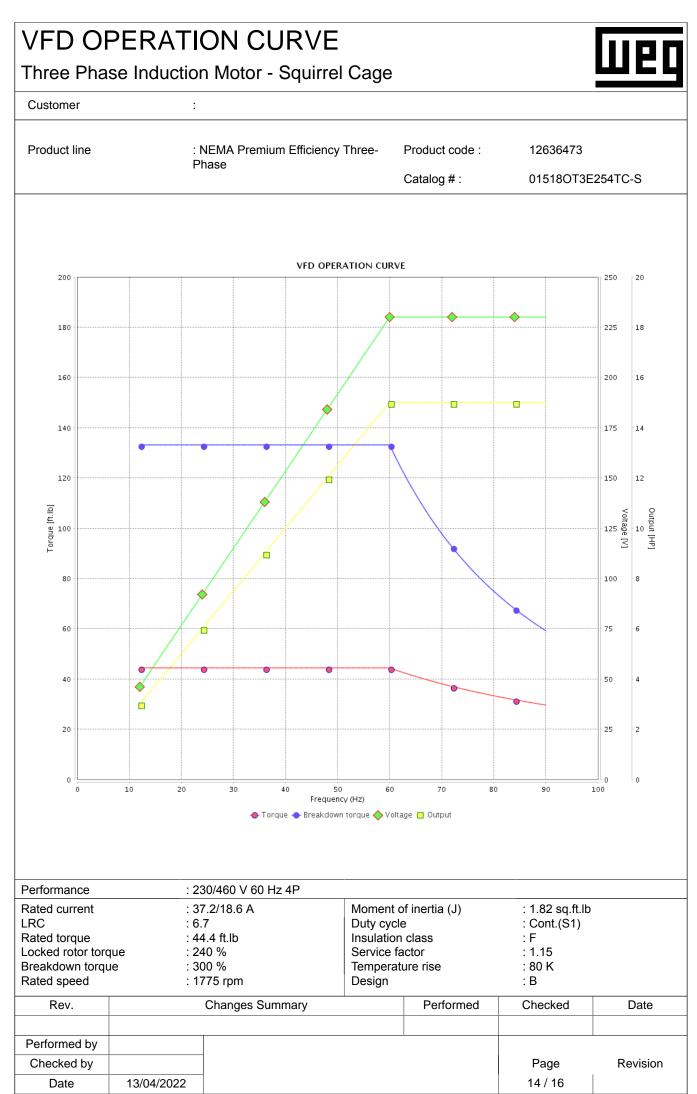
Revision

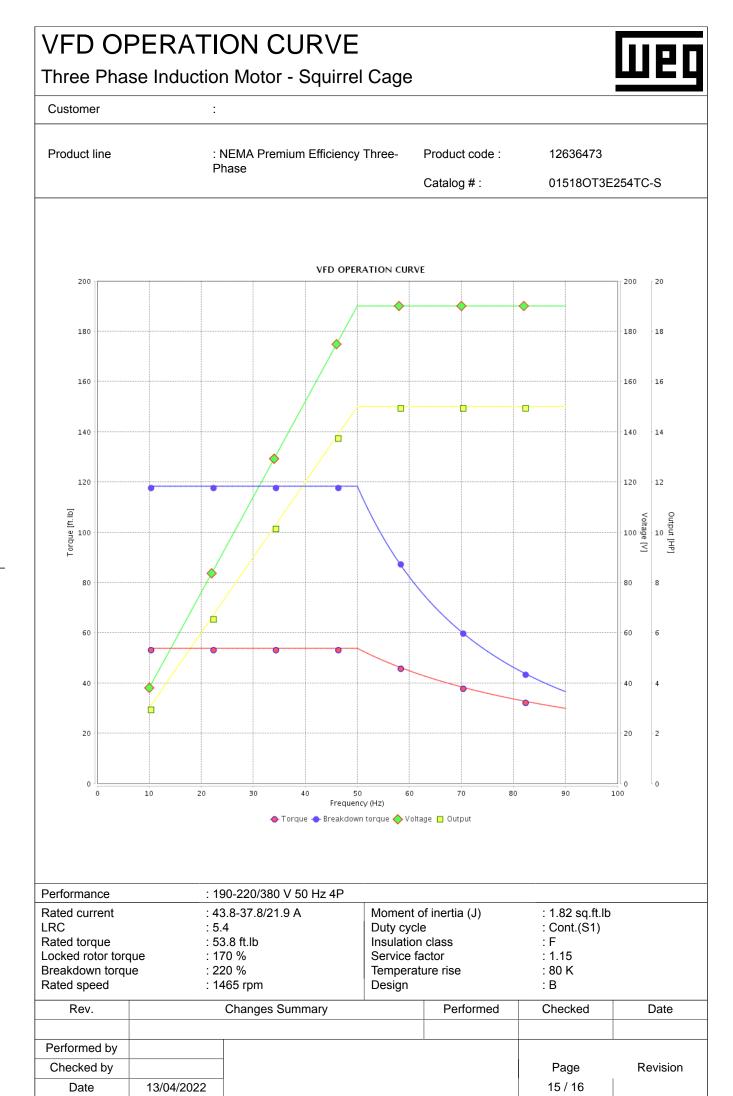


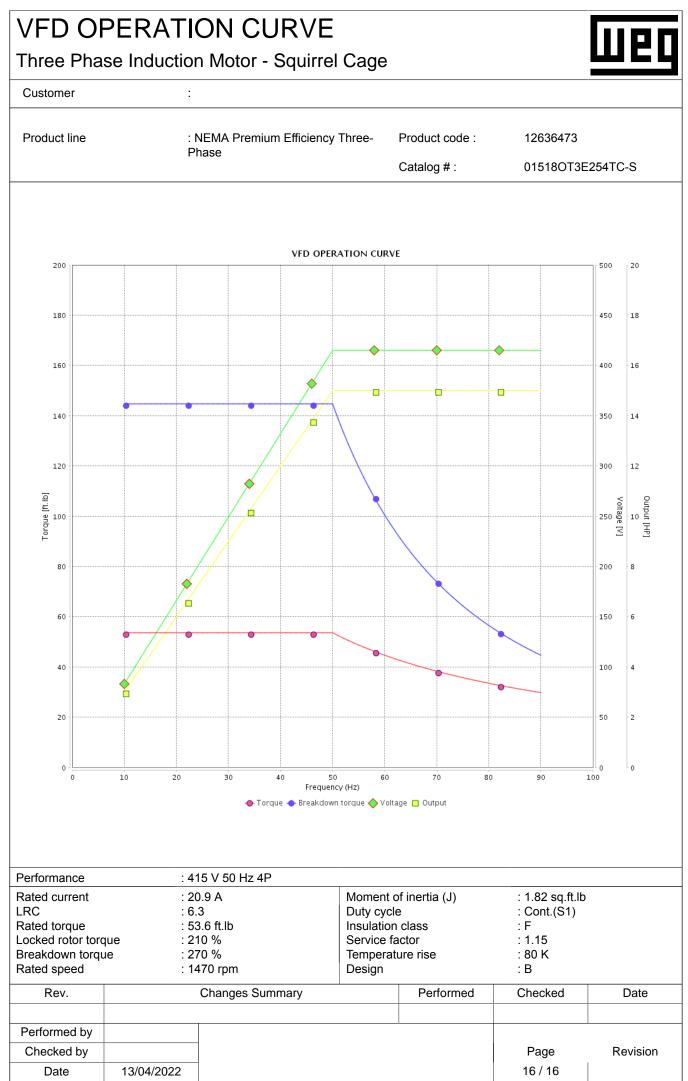
THERMAL LI	MIT CURVE	Cage		Шед
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	12636473 01518OT3E254TC-S
Performance	: 415 V 50 Hz 4P	Moment	of inortic (1)	· 1.92 og ft lb
Rated current LRC	: 20.9 A : 6.3	Duty cycl		: 1.82 sq.ft.lb : Cont.(S1)
Rated torque	: 53.6 ft.lb	Insulation	n class	: F
Locked rotor torque Breakdown torque	: 210 % : 270 %	Service f		: 1.15 : 80 K
Rated speed	: 1470 rpm	Design		: B

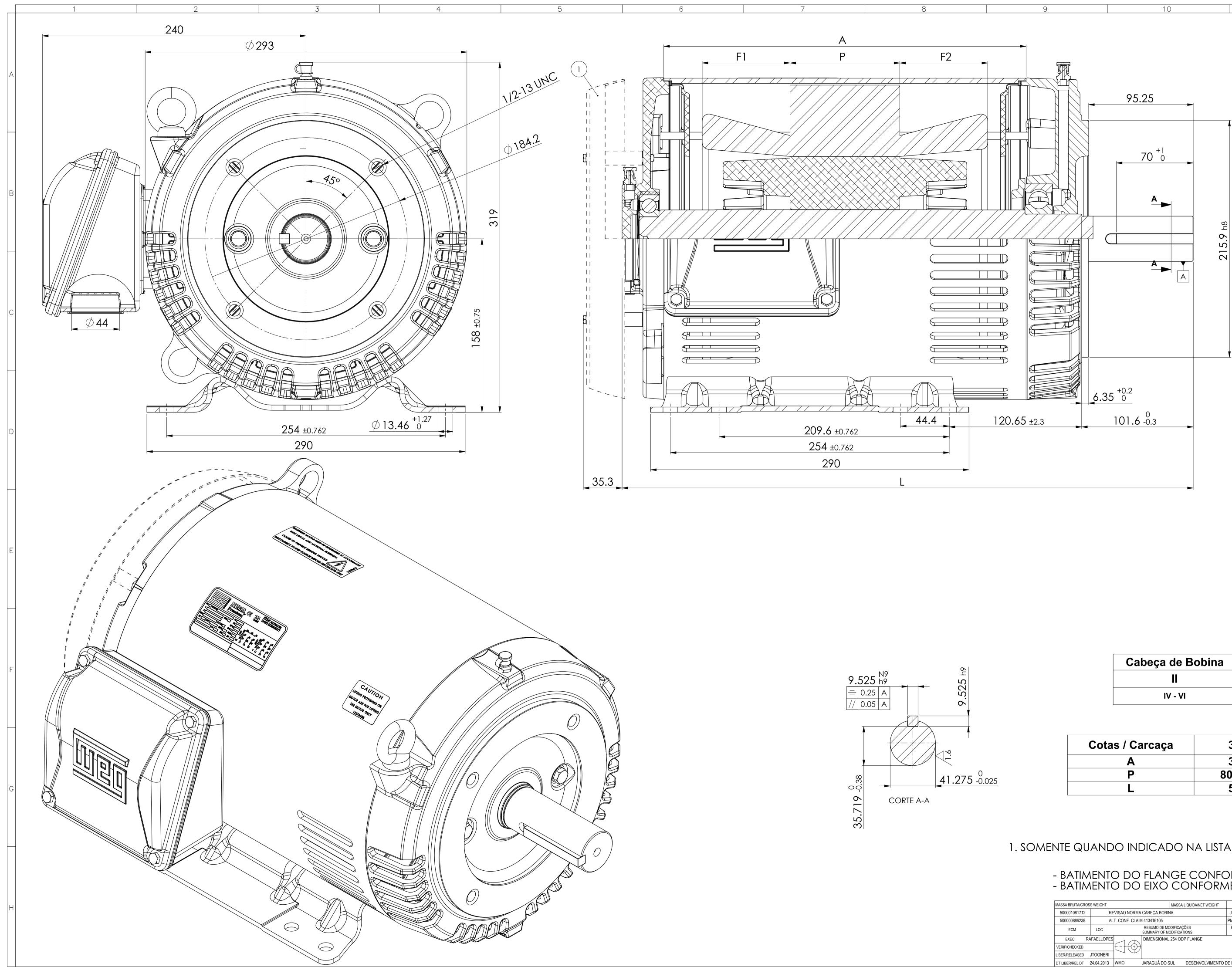
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	-		Page	Revision
13/04/2022			12 / 16	
		Changes Summary	Changes Summary Performed	Changes Summary Performed Checked











Cabeça de Bobina	<b>F1</b>	<b>F2</b>
II	80	80
IV - VI	65	65

Cotas / Carcaça	330
Α	330
Р	80-150
L	520

1. SOMENTE QUANDO INDICADO NA LISTA TÉCNICA DO MOTOR

# - BATIMENTO DO FLANGE CONFORME TBG-387 - BATIMENTO DO EIXO CONFORME TBG-178

MASSA BRUTA/GRO	SS WEIGHT			MASSA LÍQUIDA/NET WEIGHT			ESCALA/SCALE	1:5	
500001081712		REVISAO NORMA	CABEÇA BOBIN	A	JROPELATO		JHONATANP	02.09.2015	05
500000886238		ALT. CONF. CLAIN	1 413416105		PMAUERBER	G	ALISSON	16.05.2014	04
ECM	LOC		RESUMO DE MO SUMMARY OF MO		EXECUTADO EXECUTED	VERIFICADO CHECKED	LIBERADO RELEASED	DATA DATE	VER
EXEC R	RAFAELLOP	ES	DIMENSIONAL	254 ODP FLANGE		100020	36006		
VERIF/CHECKED		_{{-+(⊕)				100020			
LIBER/RELEASED	JTOGNER					000	05		
DT LIBER/REL DT	24.04.2013	WMO	JARAGUÁ DO S	OUL DESENVOLVIMENTO	DE PRODUTO	FOL/SHEET 1	/ 1		
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