DATA SHEET

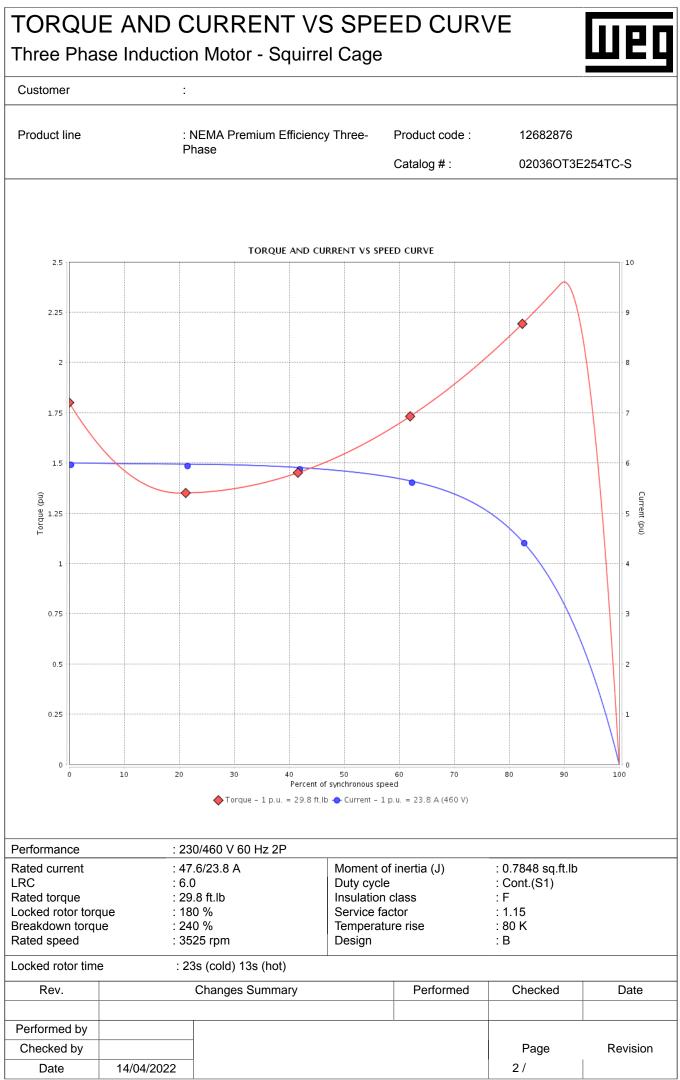
Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Efficiency T Phase	hree- Product code :	12682876
			Catalog # :	02036OT3E254TC-S
Frame Insulation class Duty cycle Ambient temperature Altitude Design		: 254/6TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : B	Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 179 lb : 0.7848 sq.ft.lb
Output [HP]		20	20	20
Poles		20	20	20
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		47.6/23.8	58.0/29.0	51.7/27.4
. R. Amperes [A]		286/143	261/131	264/140
.RC [A]		6.0x(Code G)	4.5x(Code D)	5.1x(Code E)
lo load current [A		17.0/8.50	16.2/8.09	17.1/9.04
Rated speed [RPN	/I]	3525	2895	2905
Slip [%]		2.08	3.50	3.17
Rated torque [ft.lb		29.8	36.3	36.2
ocked rotor torqu		180	130	140
Breakdown torque	e [%]	240	190	210
Service factor		1.15	1.00	1.00
emperature rise		80 K	105 K	80 K
ocked rotor time		23s (cold) 13s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
loise level ²	0.70/	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
	25%	90.0	92.6	91.6
Efficiency (%)	50%	90.2	90.6	90.6
	75%	91.0	89.5	90.0
	100%	91.0	87.2	88.7
	25%	0.49	0.56	0.51
Power Factor	50% 75%	0.76 0.83	0.82	0.78
	100%	0.87	0.88 0.90	0.86
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type	val	Drive end 6309 Z C3Non drive end 6208 Z C3:Without Bearing Seal 20000 hWithout 20000 h:13 g8 g:Mobil Polyrex EM	Foundation loads Max. traction Max. compression	: 274 lb : 453 lb
Notes USABLE @208V	′ 52.6A SF 1.	00 SFA 52.6A		
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with t weight subjec ocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). tt to changes after		ased on tests with sinusoidal tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. notor from the 1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the	
nust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pro (4) At 100% of ful	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to the MG-1.	tolerances stipulated in NEMA
nust be eliminate 1) Looking the m 2) Measured at 7 3) Approximate v nanufacturing pr 4) At 100% of ful Rev.	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to the MG-1.	tolerances stipulated in NEMA



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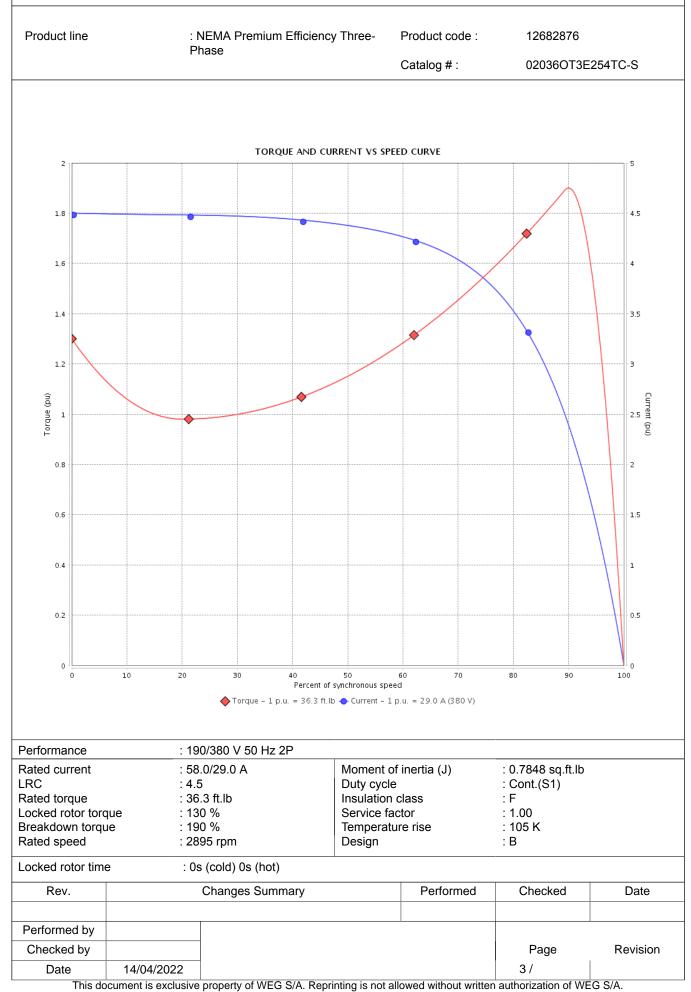
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

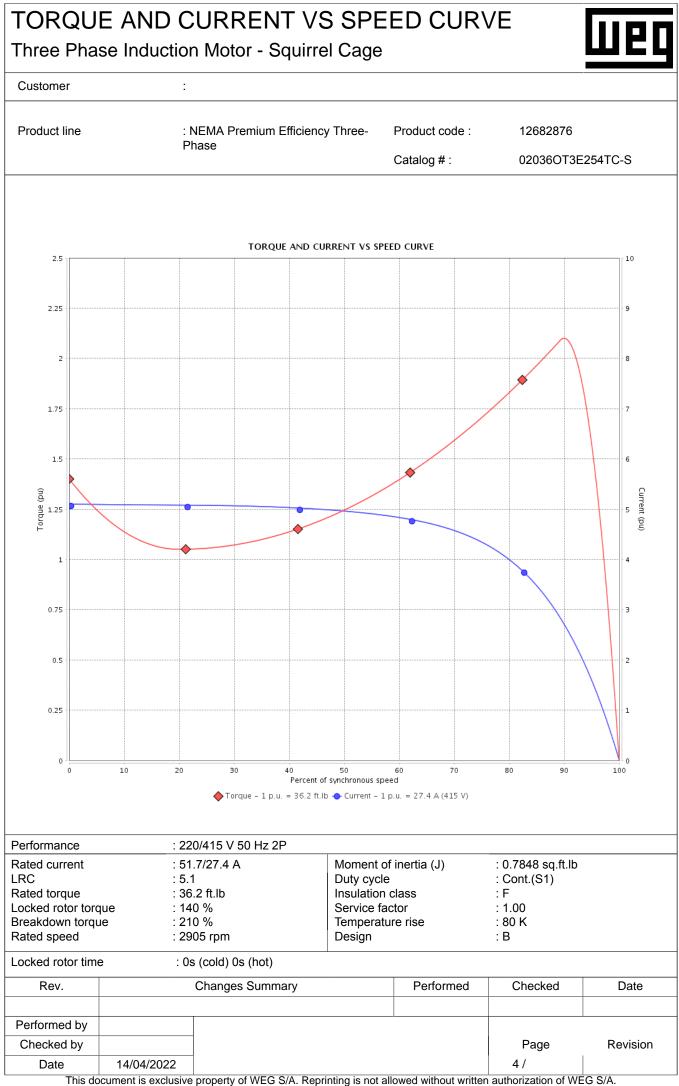
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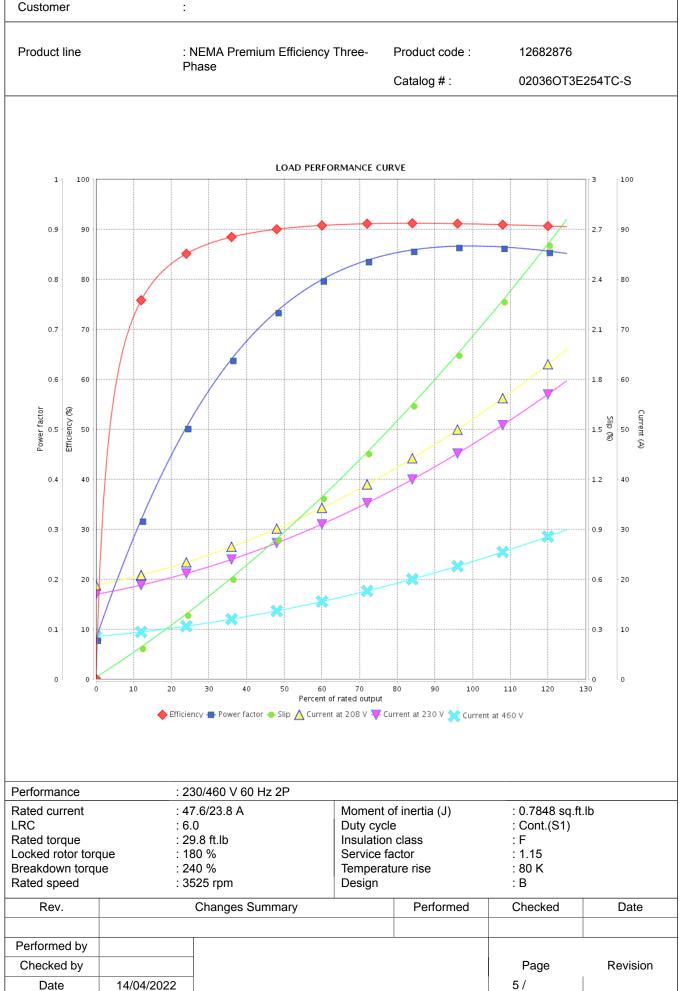
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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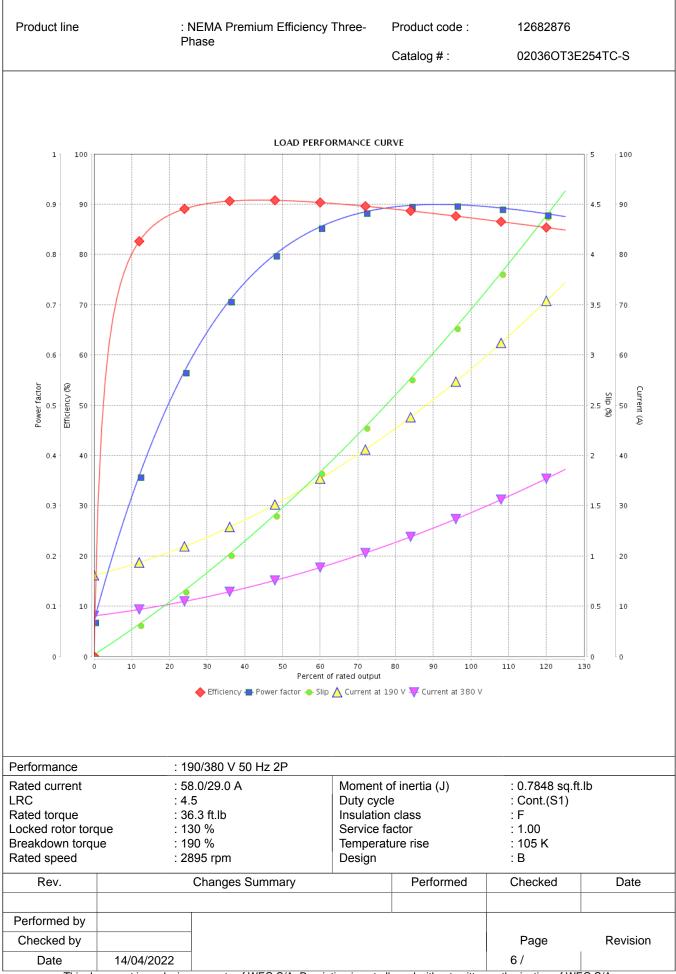
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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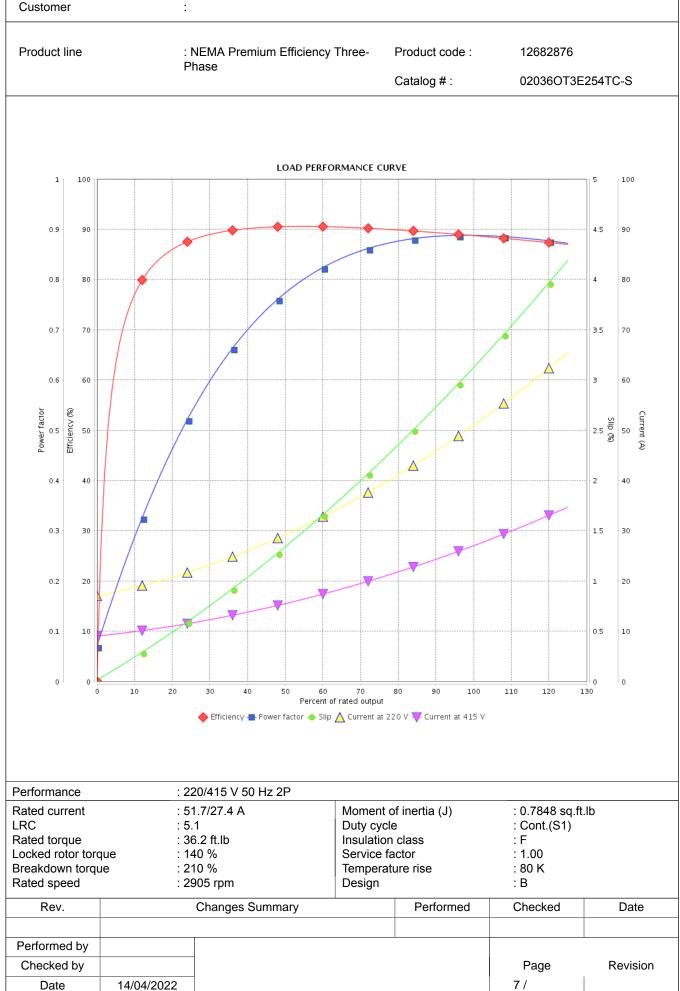
Customer



LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

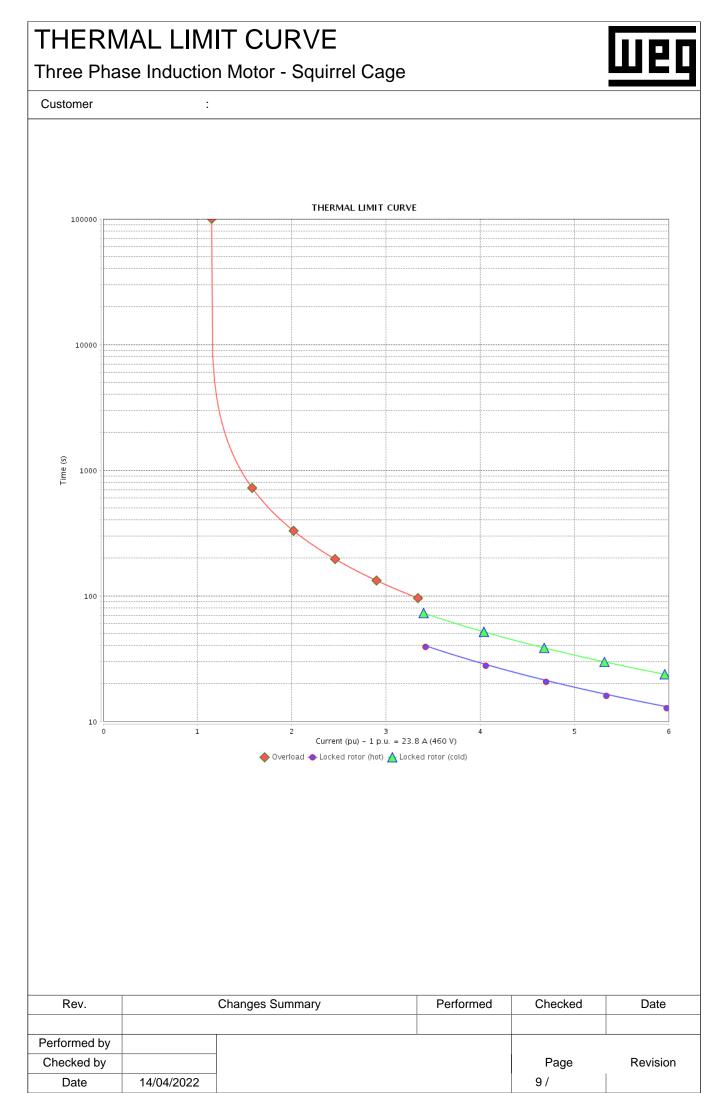
Customer



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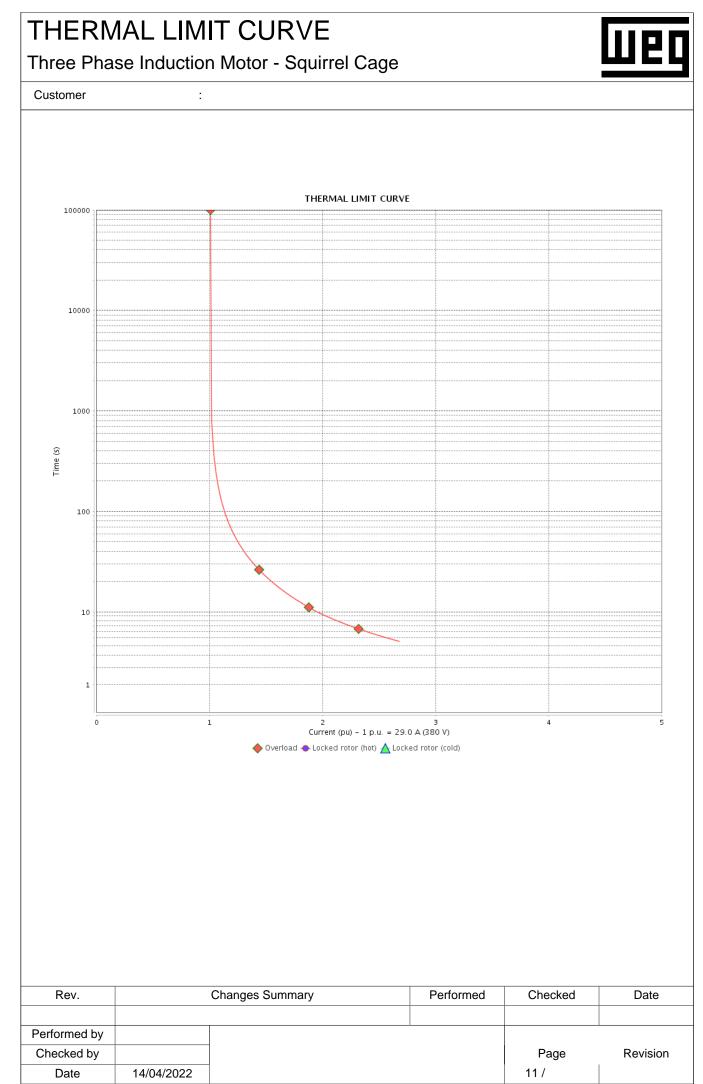
THERMAL LIMIT CURVE							
Three Phase Induc	tion Motor - Squirrel	Cage			шсц		
Customer	:						
Product line	: NEMA Premium Efficiency T	hree-	Product code :	12682876			
	Phase		Catalog # :	02036OT3E	254TC-S		
Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.6/23.8 A : 6.0 : 29.8 ft.lb : 180 % : 240 % : 3525 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.7848 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	.lb		
Heating constant							
Cooling constant Rev.	Changes Summary		Performed	Checked	Date		
Performed by					I		

Checked by			Page	Revision	
Date	14/04/2022		8 /		
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THERMAL LI	MIT CURVE tion Motor - Squirrel	Cage			Шeg
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12682876 020360T3E	254TC-S
Performance	: 190/380 V 50 Hz 2P				
Rated current LRC	: 58.0/29.0 A : 4.5	Moment of Duty cycle	of inertia (J)	: 0.7848 sq.ff : Cont.(S1)	.lb
Rated torque	: 36.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 130 % : 190 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed	: 2895 rpm	Temperat Design		: 105 K : B	
Heating constant		-			
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date

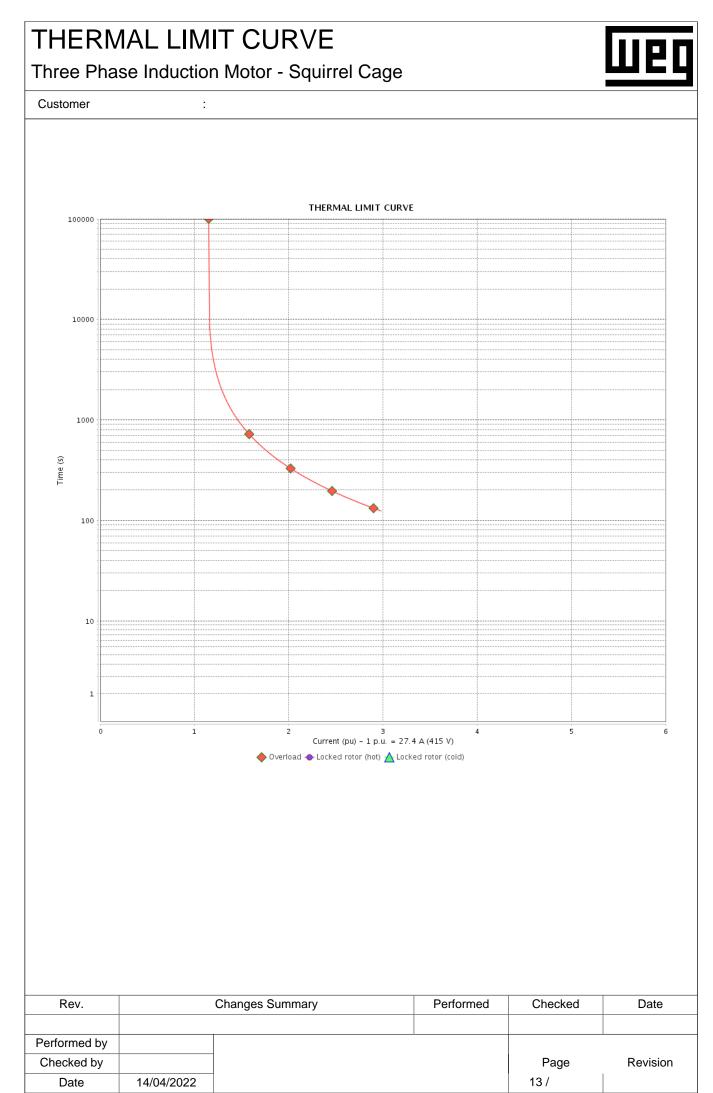
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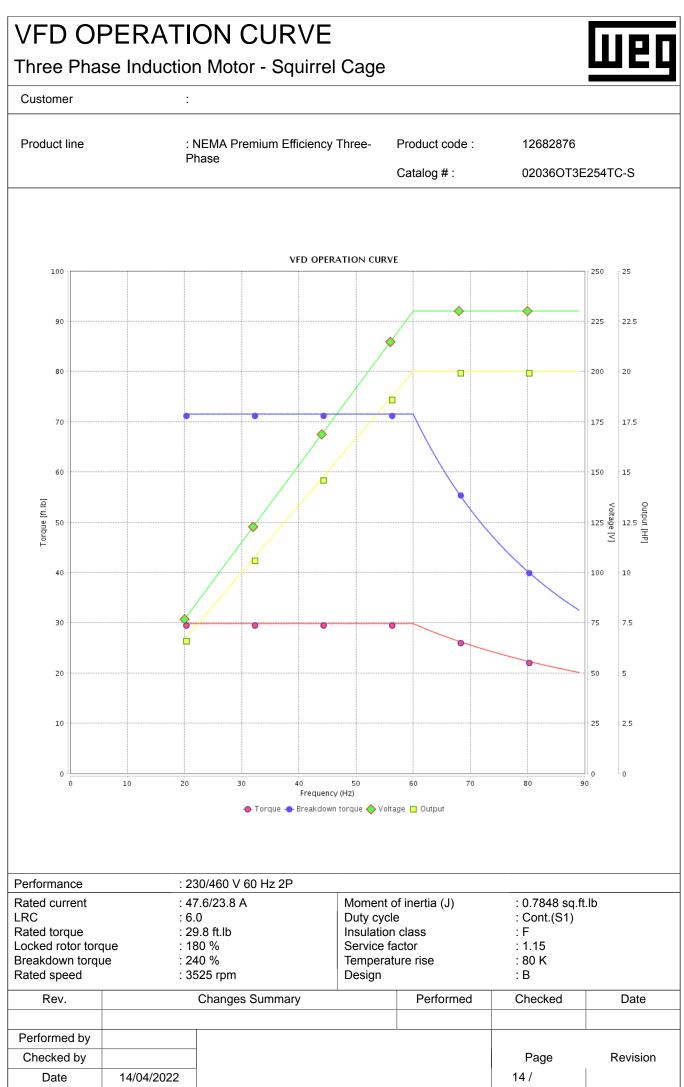


THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		:					
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12682876 02036OT3E	254TC-S	
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 220/415 V 50 Hz 2P : 51.7/27.4 A : 5.1 : 36.2 ft.lb : 140 % : 210 % : 2905 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.7848 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
Rev.		Changes Summary		Performed	Checked	Date	

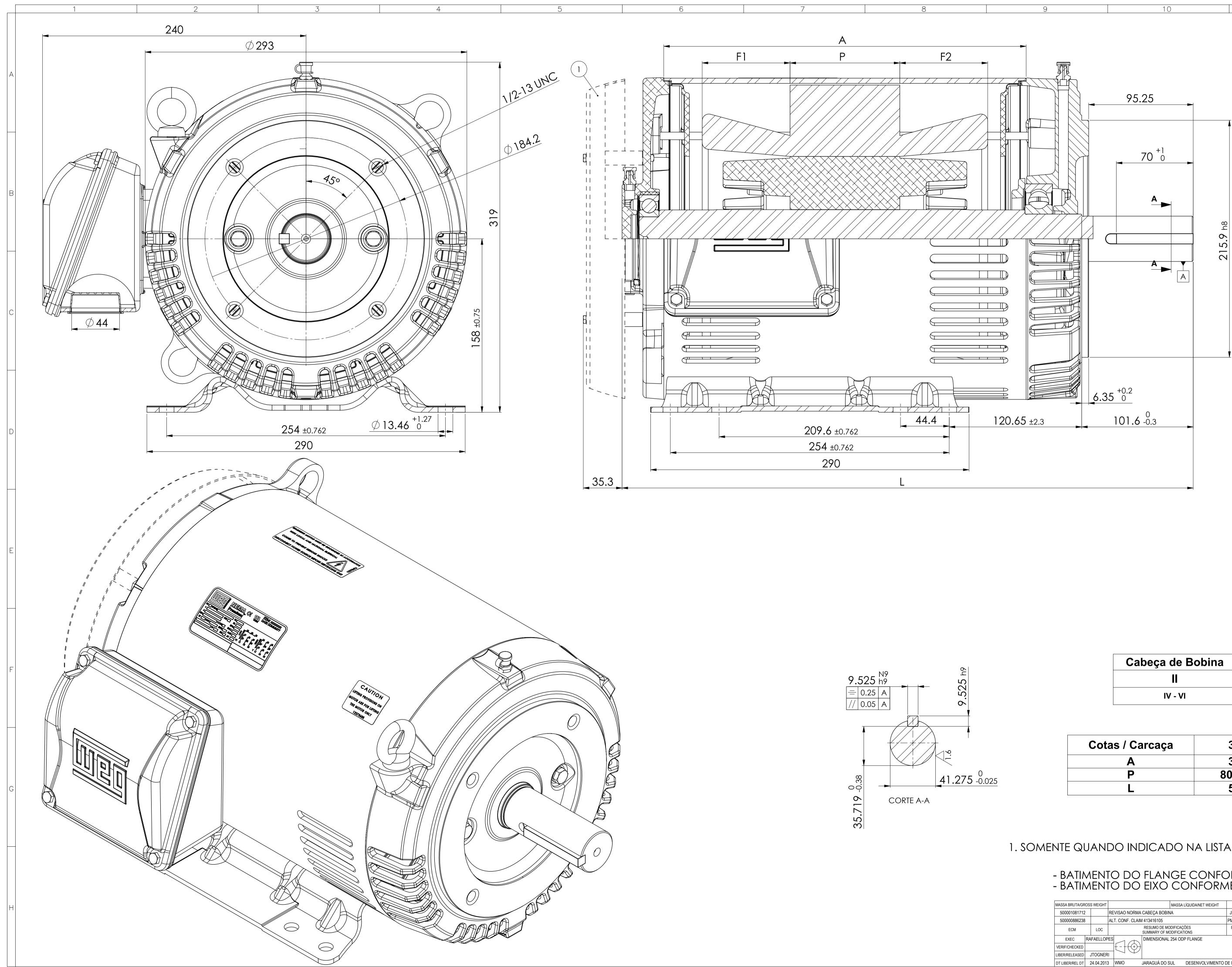
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Checked by			Page	Revision	
Date	14/04/2022		12 /		
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Cabeça de Bobina	F1	F2
II	80	80
IV - VI	65	65

Cotas / Carcaça	330
Α	330
Ρ	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	MASSA BRUTA/GROSS WEIGHT		MASSA LÍQUIDA/NET WEIGHT			ESCALA/SCALE	1:5		
500001081712		REVISAO NORMA	REVISAO NORMA CABEÇA BOBINA				JHONATANP	02.09.2015	05
500000886238		ALT. CONF. CLAIN	LT. CONF. CLAIM 413416105			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	SUL DESENVOLVIMENTO	DE PRODUTO	FOL/SHEET 1	/ 1		
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