# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

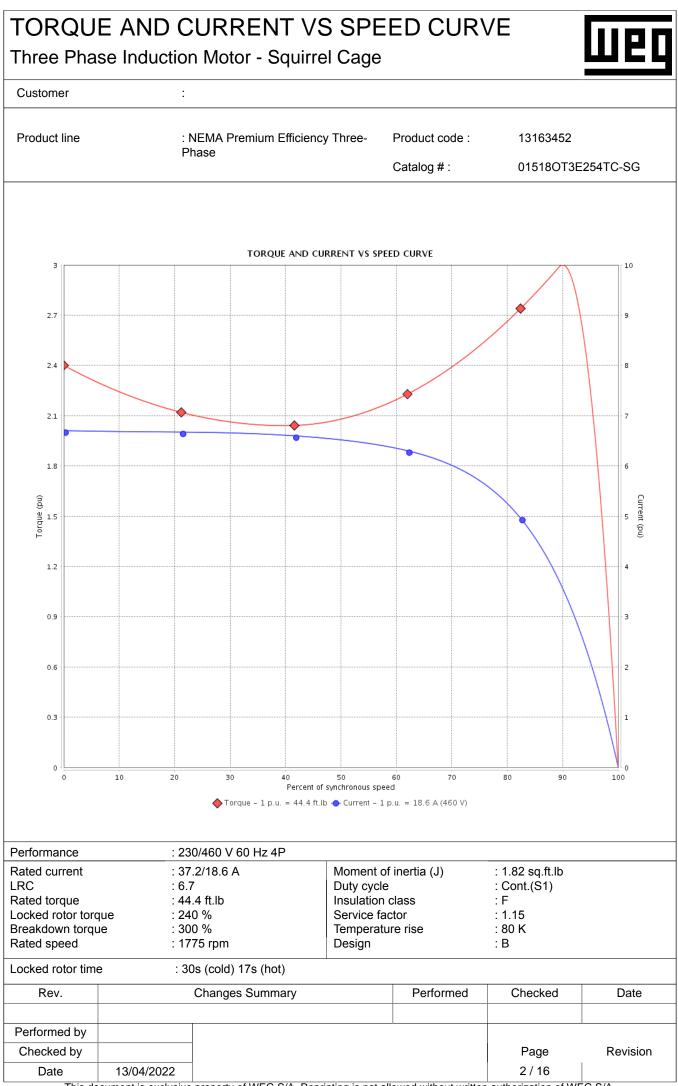
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#### Customer

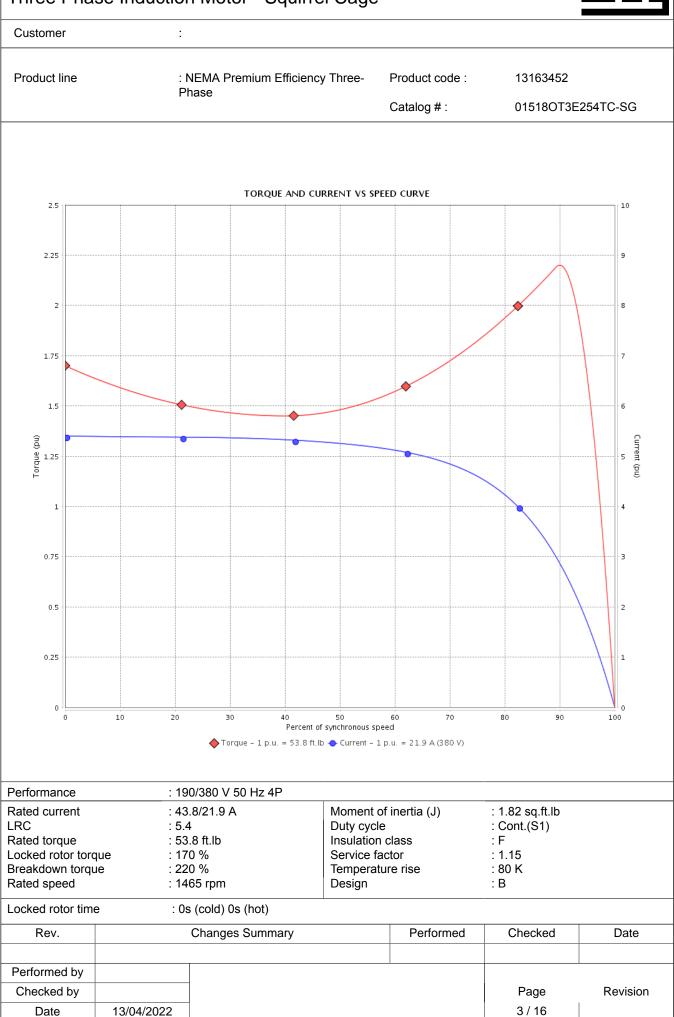
Product line		: NEMA Premium Efficiency T Phase	niee- P	roduct code :	13163452		
		1 11030	Catalog # :		01518OT3E	01518OT3E254TC-SG	
Frame		: 254/6TC	Cooling r		: IC01 - OD	Р	
Insulation class		:F	Mounting		: F-1		
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>		•	: Both (CW and CCW)	
Ambient tempera	ature	: -20°C to +40°C	Starting r			: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. v		: 203 lb		
Design		: B	Moment of inertia (J)		: 1.82 sq.ft.l	b	
Dutput [HP]		15		15		15	
Poles		4		4		4	
Frequency [Hz]		60		50		50	
Rated voltage [V]		230/460		190/380		220/415	
Rated current [A]		37.2/18.6		43.8/21.9		40.0/21.2	
L. R. Amperes [A]		249/125	237/118			236/125	
_RC [A]		6.7x(Code H)	5.4x(Code F)		5.9x	5.9x(Code G)	
No load current [A]	]	19.0/9.50		17.3/8.67		.3/9.68	
Rated speed [RPM		1775		1465		1470	
Slip [%]		1.39		2.33		2.00	
Rated torque [ft.lb]	]	44.4		53.8		53.6	
Locked rotor torqu		240		170		200	
Breakdown torque		300		220		250	
Service factor		1.15		1.15		1.15	
Temperature rise		80 K		80 K		80 K	
Locked rotor time		30s (cold) 17s (hot)	<u>() s (</u>	cold) 0s (hot)		Os (cold) Os (hot)	
Noise level <sup>2</sup>		64.0 dB(A)		62.0 dB(A)		62.0 dB(A)	
	25%	91.0		92.3 02.		91.4	
	50%	91.7		91.3		90.8	
Efficiency (%)	75%	92.4		91.0 91.1			
	100%	92.4		89.7		91.1 90.2	
	25%	0.36		0.45		90.2 0.40	
				0.45			
Power Factor	50%	0.62		0.71		0.66	
	75%	0.73				0.78	
	100%	0.80		0.85		0.83	
<b>_</b>		Drive end Non drive end	Foundation loads				
Bearing type		: 6309 Z C3 6208 Z C3	Max. tract		: 541 lb		
Sealing		: Without Without	Max. compression		: 744 lb		
		Bearing Seal Bearing Seal					
Lubrication interv		: 20000 h 20000 h					
Lubricant amoun	t	: 13 g 8 g					
Lubricant type		: Mobil Polyrex EM					
Notes USABLE @208V	41.1A SF 1.	00 SFA 41.1A					
must be eliminate (1) Looking the m	d. otor from the m and with t veight subjec	olerance of +3dB(A).		•	based on tests wi		
(4) At 100% of full							
Rev. Changes Summary			Performed	Checked	Date		
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Performed by							
Checked by					Page	Revision	
Date	13/04/2022				1/16		
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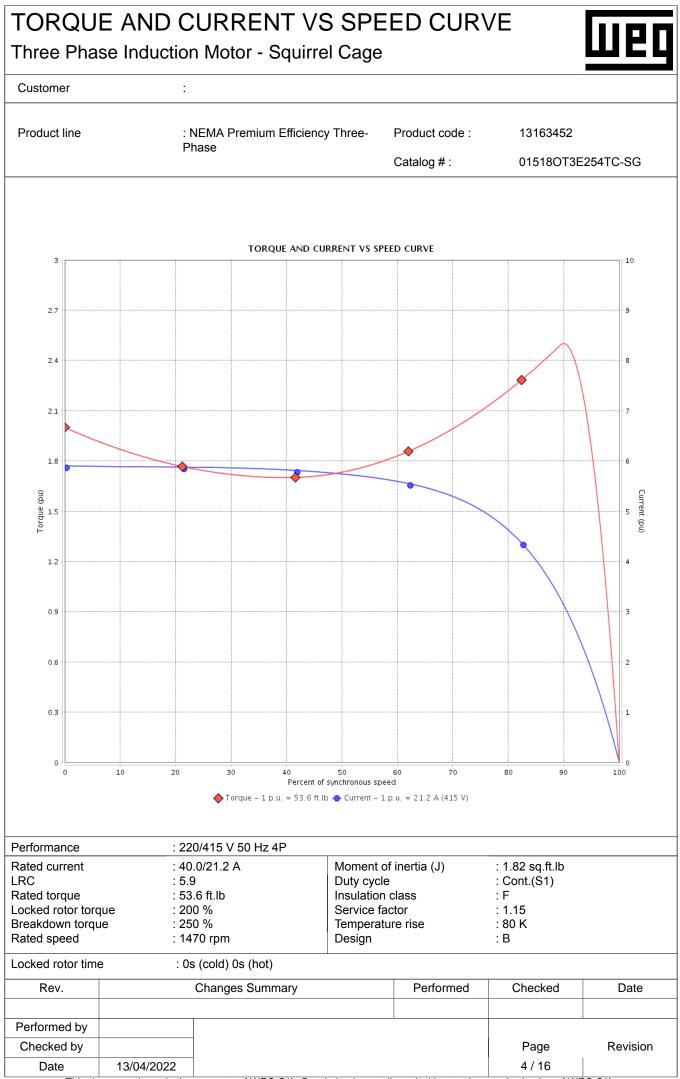


### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



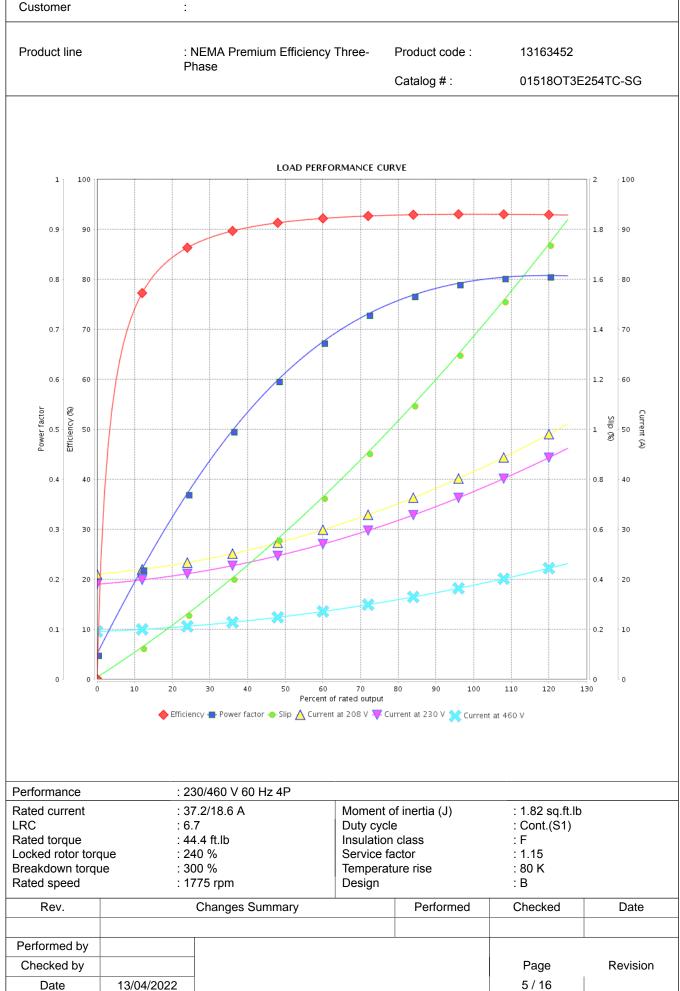
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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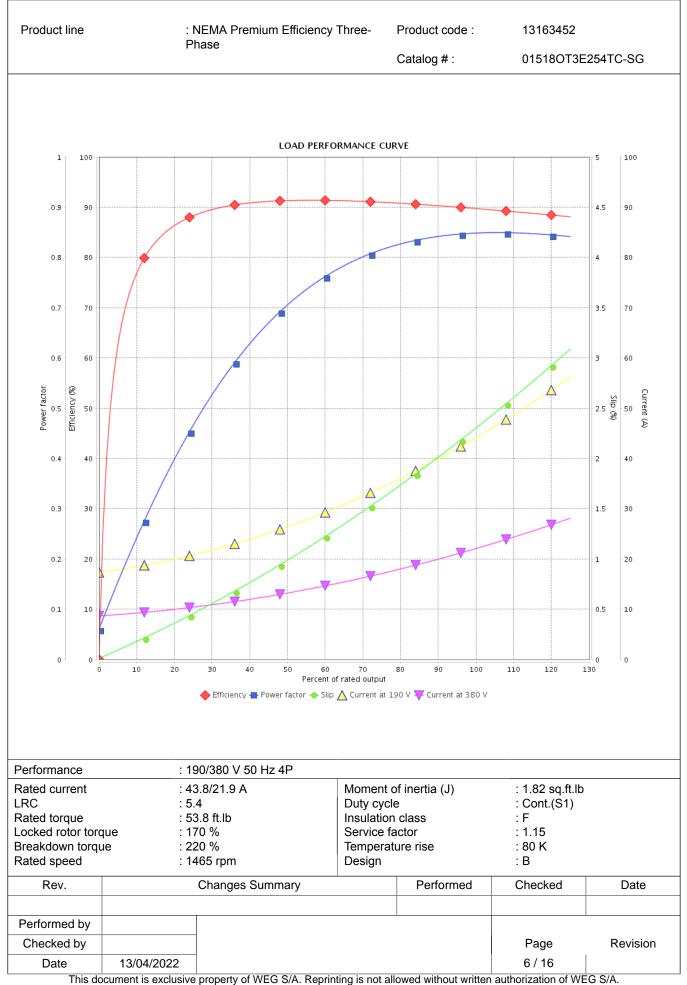
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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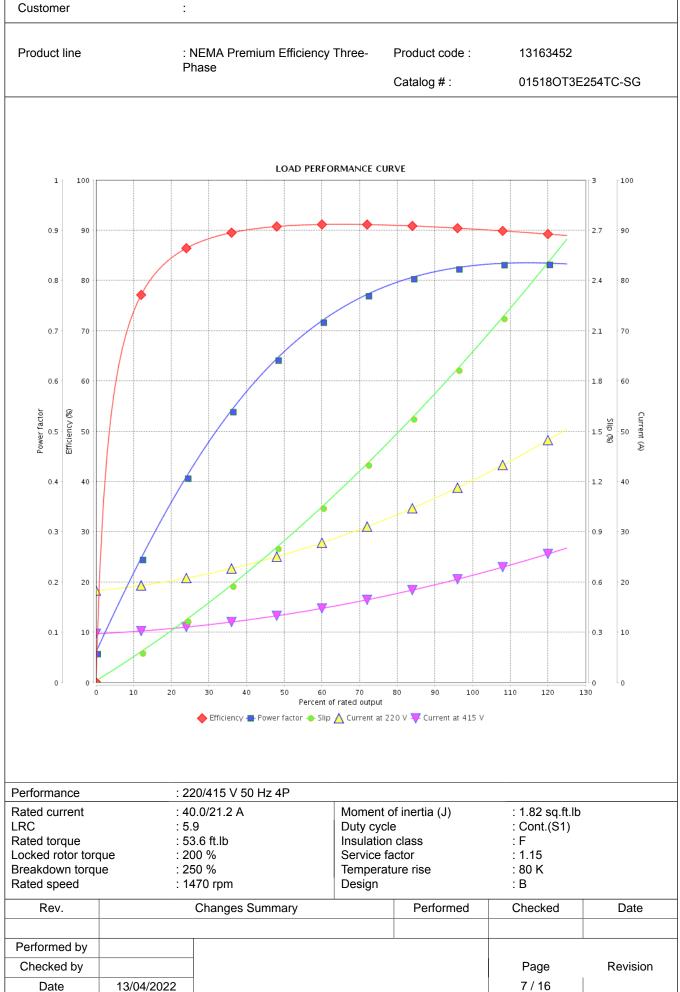
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# LOAD PERFORMANCE CURVE

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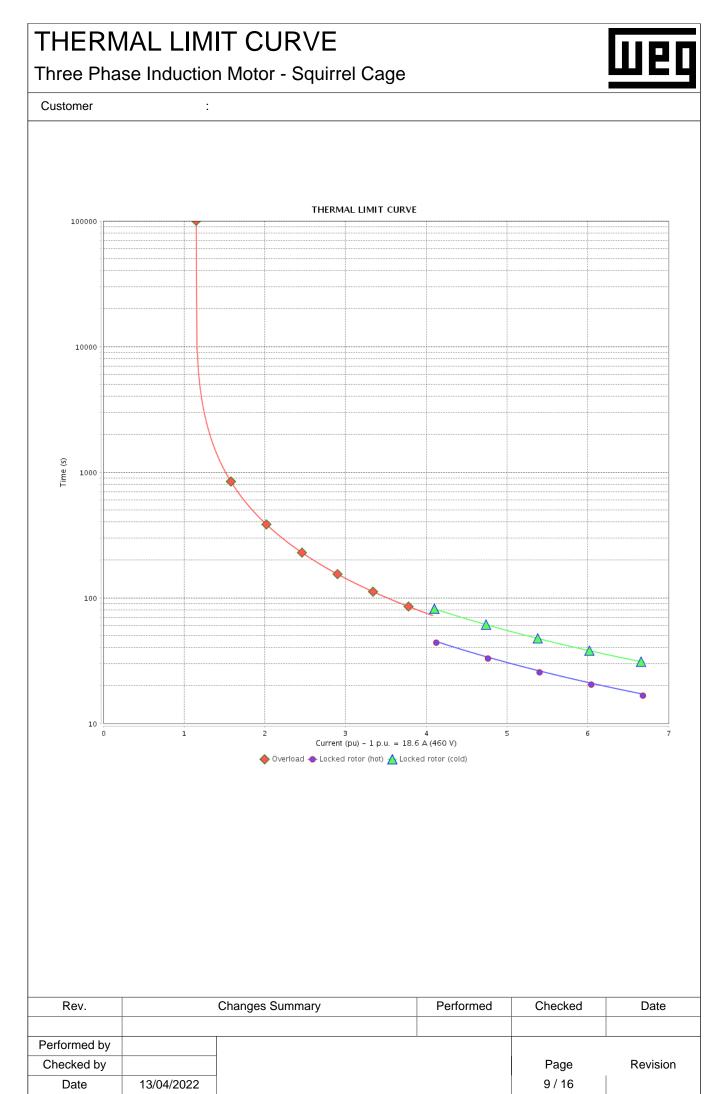
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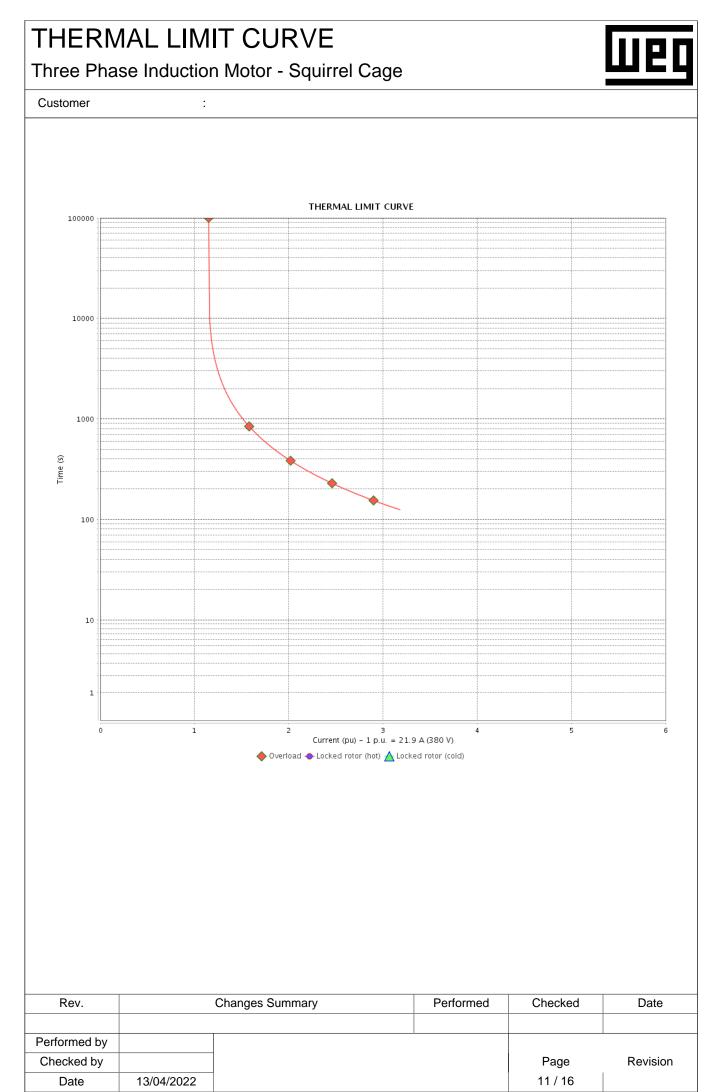
THERMAL LIMIT CURVE   Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	13163452 01518OT3E254TC-SG			
Performance	: 230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.2/18.6 A : 6.7 : 44.4 ft.lb : 240 % : 300 % : 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.82 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			

Heating constant	t				
Cooling constant	t				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
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Date	13/04/2022			8 / 16	



THERMAL LIMIT CURVE							
Customer	nduction Motor - Squirrel C	age					
Product line	: NEMA Premium Efficiency Thre Phase	ee- Product code : Catalog # :	13163452 01518OT3E254TC-SG				
rformance	: 190/380 V 50 Hz 4P						
ted current C	: 43.8/21.9 A M	oment of inertia (J) Ity cycle	: 1.82 sq.ft.lb : Cont.(S1)				

1 chomanee	. 13	50/500 V 50 HZ <del>H</del> I				
Rated current: 43.8/21.9 ALRC: 5.4Rated torque: 53.8 ft.lbLocked rotor torque: 170 %Breakdown torque: 220 %Rated speed: 1465 rpm		4 3.8 ft.lb 70 % 20 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.82 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by		-			Page	Revision
Date	13/04/2022				10 / 16	



THERMAL LIMIT CURVE						
Three Phase Induc	tion Motor - Squirrel	Cage				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	13163452 01518OT3E254TC-SG		
Derfermenes						
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 220/415 V 50 Hz 4P : 40.0/21.2 A : 5.9 : 53.6 ft.lb : 200 % : 250 % : 1470 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class factor	: 1.82 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						

Performed

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Date

Revision

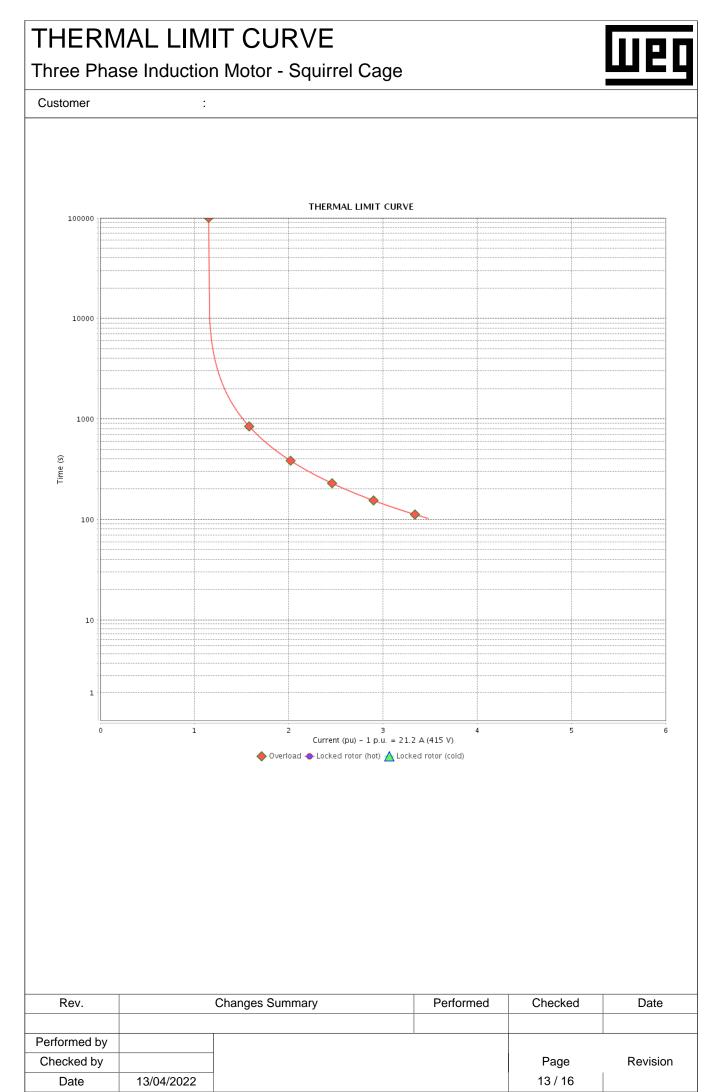
Changes Summary

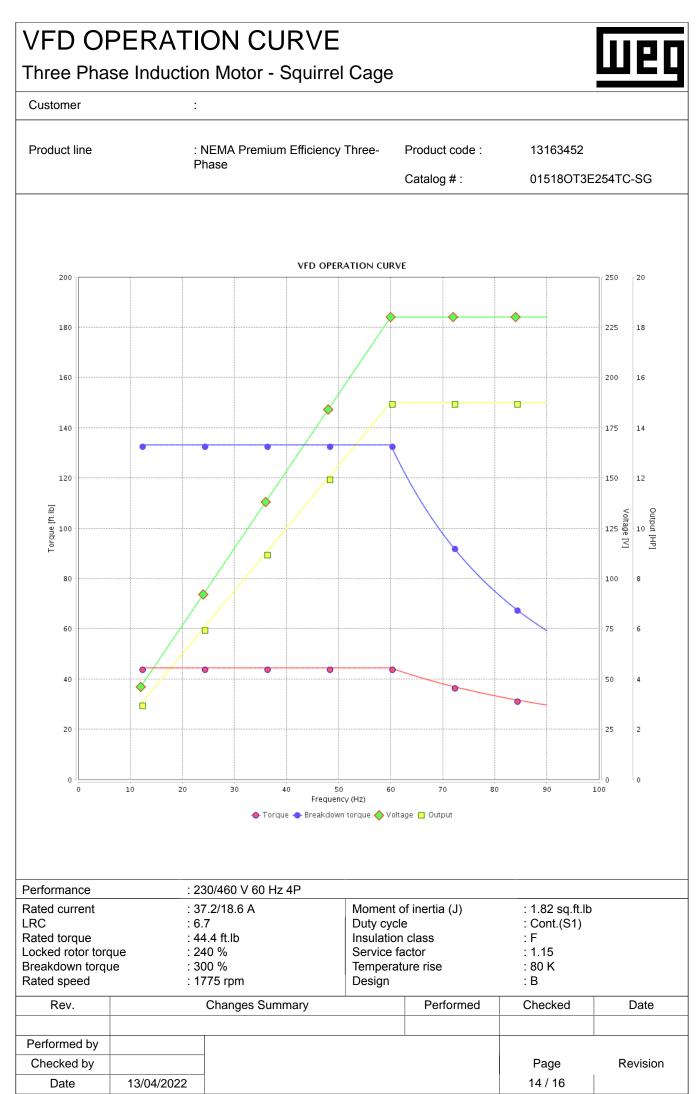
Cooling constant Rev.

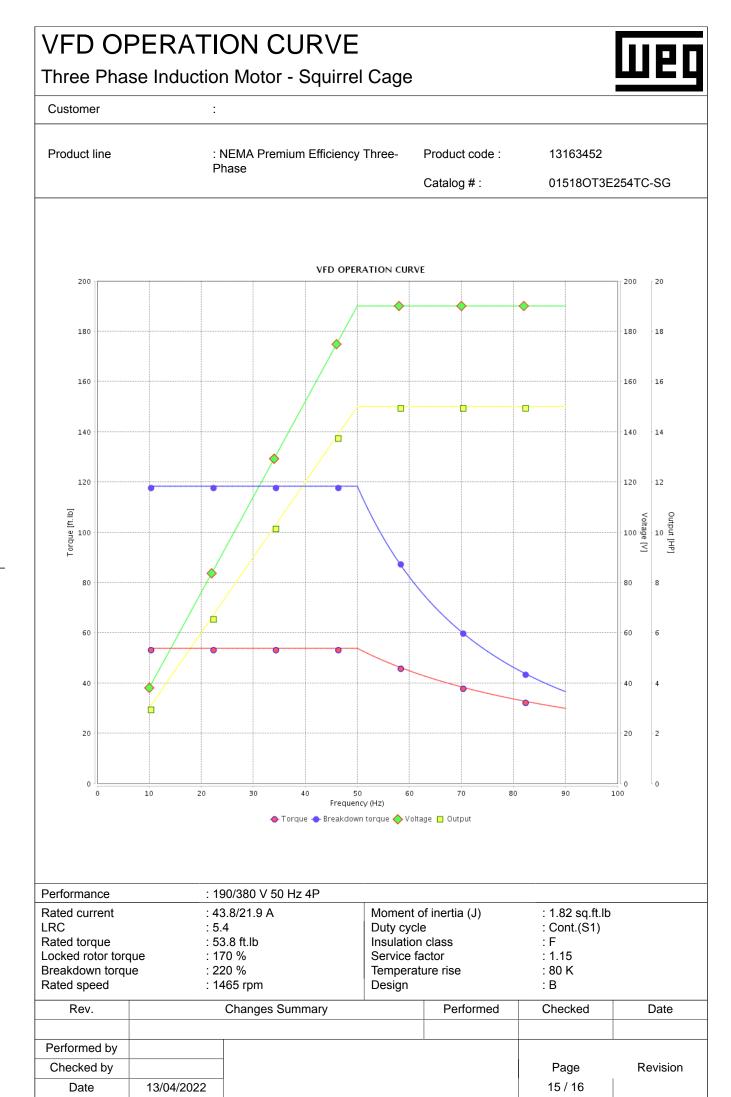
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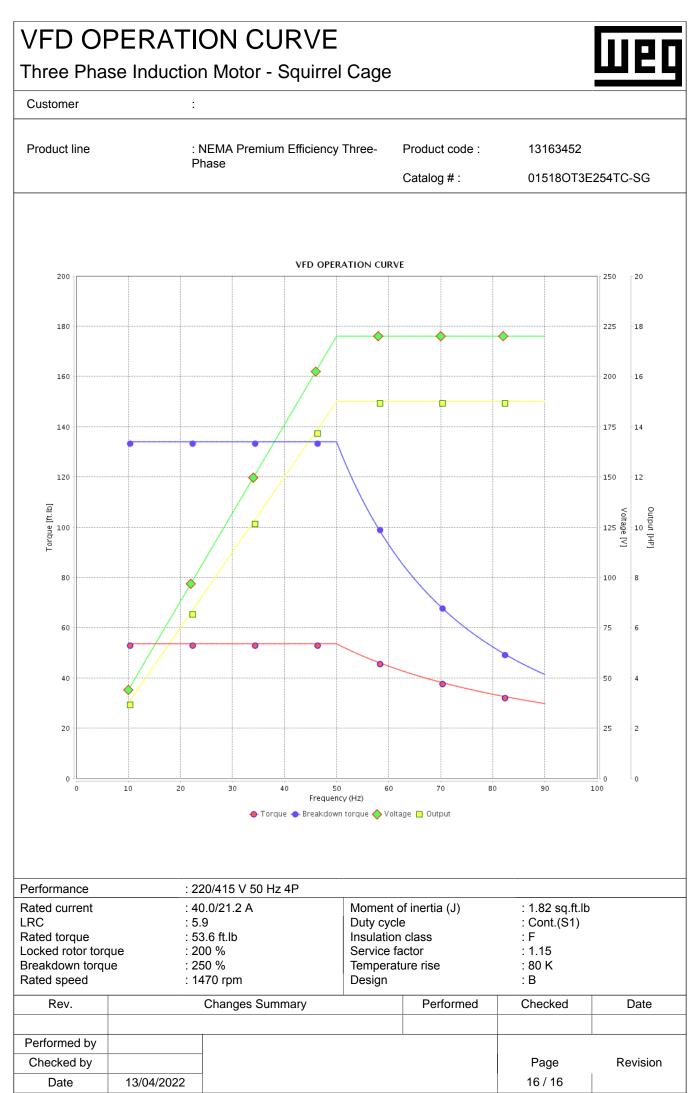
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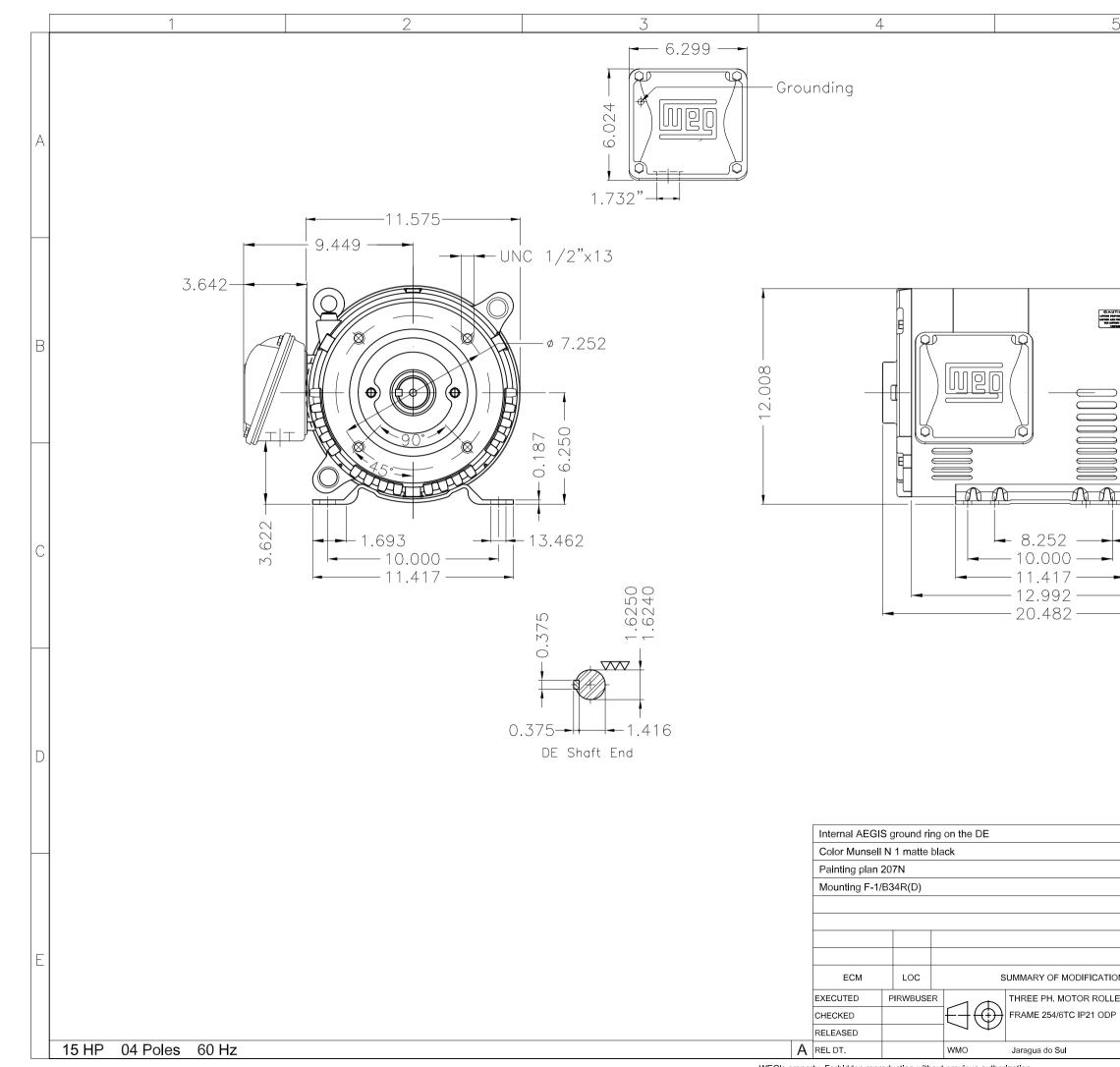
13/04/2022











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	0.25	- 3.750 - 2.756 	Ø 8.500		
					Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
LED STEEL PREM. E		PREV			
P		WDD		ШР	le A3
Produc	t Engineering	SHEET	1 / 1		XME

