# DATA SHEET

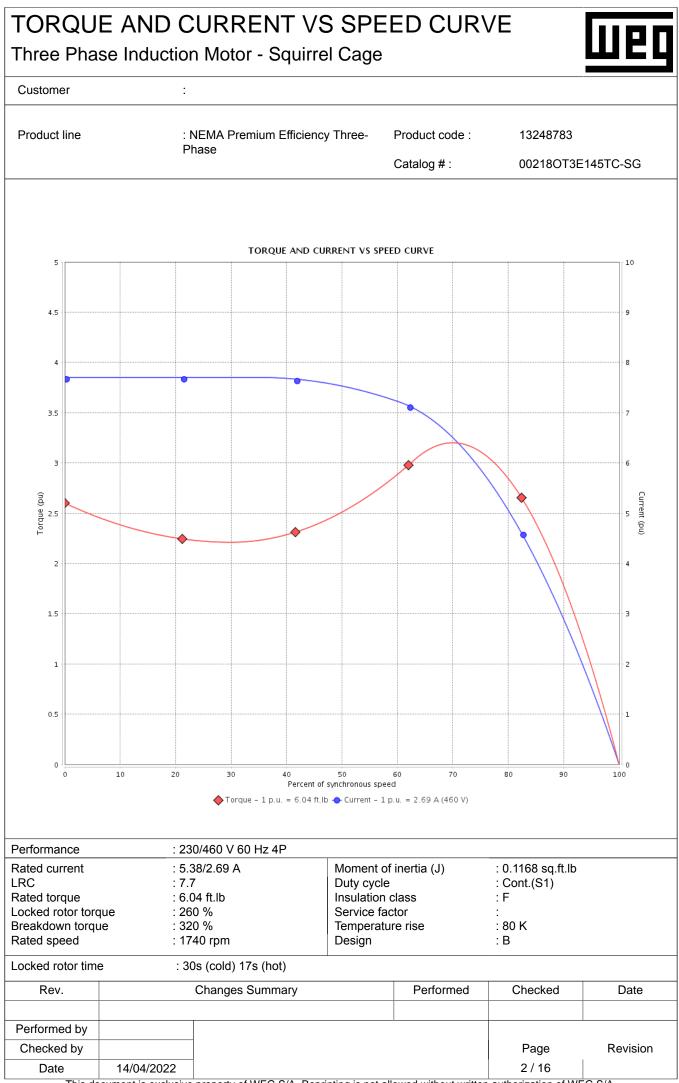
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: NEMA Premium Efficienc Phase	y Three-	Product code :	13248783		
		1 11030		Catalog # :	00218OT3E	145TC-SG	
Frame Insulation class Duty cycle Ambient temperature Altitude		: 143/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : B	Mountii Rotatio Starting Approx	n <sup>1</sup> y method . weight <sup>3</sup>	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 40.3 lb		
Design			Momen	t of inertia (J)	: 0.1168 sq.		
Output [HP] Poles		2 4		2 4		2 4	
Frequency [Hz]		60		50		50	
Rated voltage [V]		230/460		190/380	22	220/415	
Rated current [A]		5.38/2.69		6.52/3.26		90/3.13	
L. R. Amperes [A]		41.4/20.7		36.5/18.3		.6/19.4	
LRC [A]		7.7x(Code K)		5.6x(Code G)		(Code H)	
No load current [A	.]	2.75/1.38		2.70/1.35		32/1.49	
Rated speed [RPN		1740		1410		1420	
Slip [%]	-	3.33		6.00		5.33	
Rated torque [ft.lb]	]	6.04		7.45		7.40	
Locked rotor torqu		260		200		220	
Breakdown torque		320		229		260	
Service factor				1.00		1.00	
Temperature rise		80 K		105 K		80 K	
Locked rotor time		30s (cold) 17s (hot)	05	s (cold) 0s (hot)		ld) 0s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)		49.0 dB(A)		0 dB(A)	
	25%	85.2		88.2		86.4	
$\Box$ $H$ is is a set $\langle 0/\rangle$	50%	85.5		85.9		85.2	
Efficiency (%)	75%	86.5		85.0		85.2	
	100%	86.5		82.2		83.4	
	25%	0.36		0.42		0.38	
Power Factor	50%	0.61		0.69		0.64	
FUWER FACION	75%	0.74		0.80		0.77	
	100%	0.81		0.85		0.83	
Bearing type Sealing Lubrication interv Lubricant amoun		Drive end     Non drive end       6205 ZZ     6203 ZI       Without     Without       Bearing Seal     Bearing S       -     -       -     -	Max. tra	tion loads ction mpression	: 147 lb : 187 lb		
Lubricant type Notes USABLE @208V	5.95A SF 1.	: Mobil Polyrex EM 00 SFA 5.95A					
must be eliminate (1) Looking the m	ed. lotor from the Im and with to veight subjec ocess.	olerance of +3dB(A).		re average values upply, subject to th			
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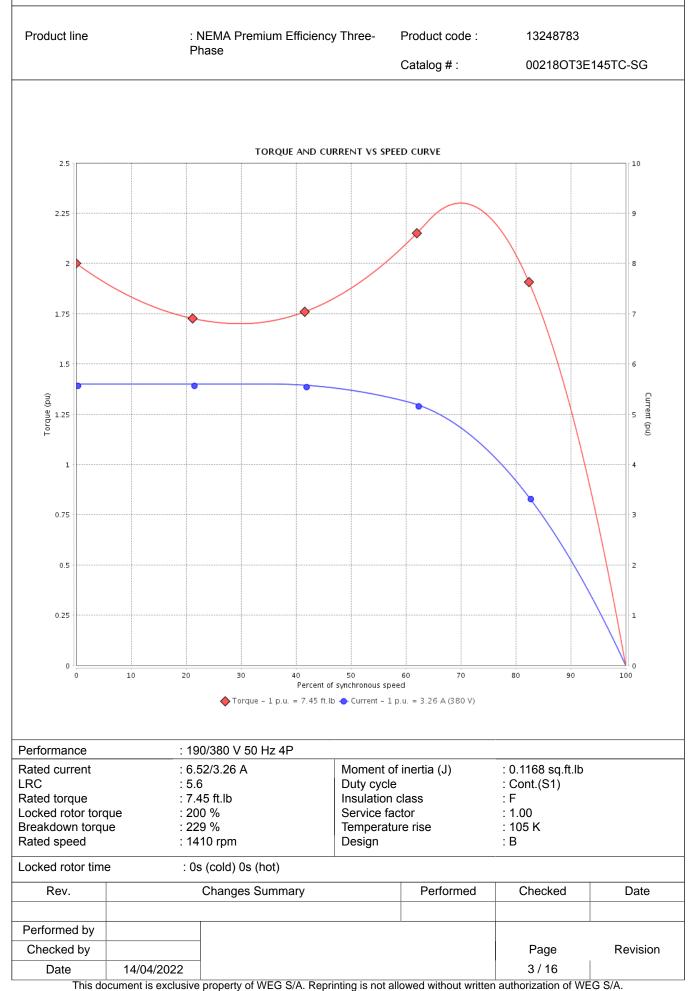
### TORQUE AND CURRENT VS SPEED CURVE

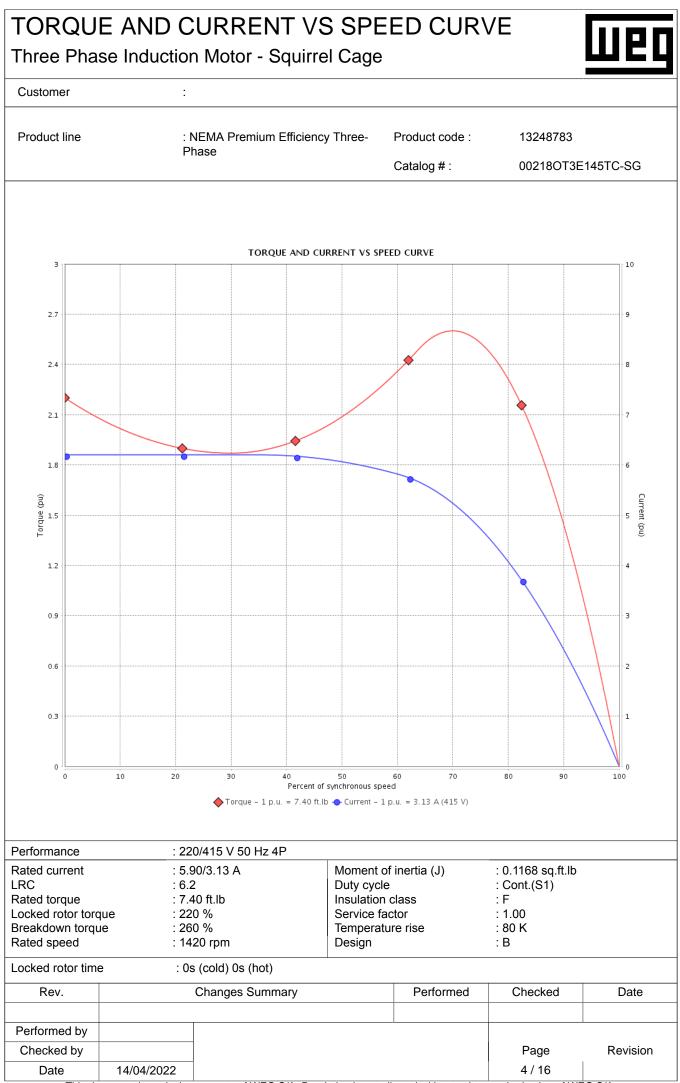
Three Phase Induction Motor - Squirrel Cage

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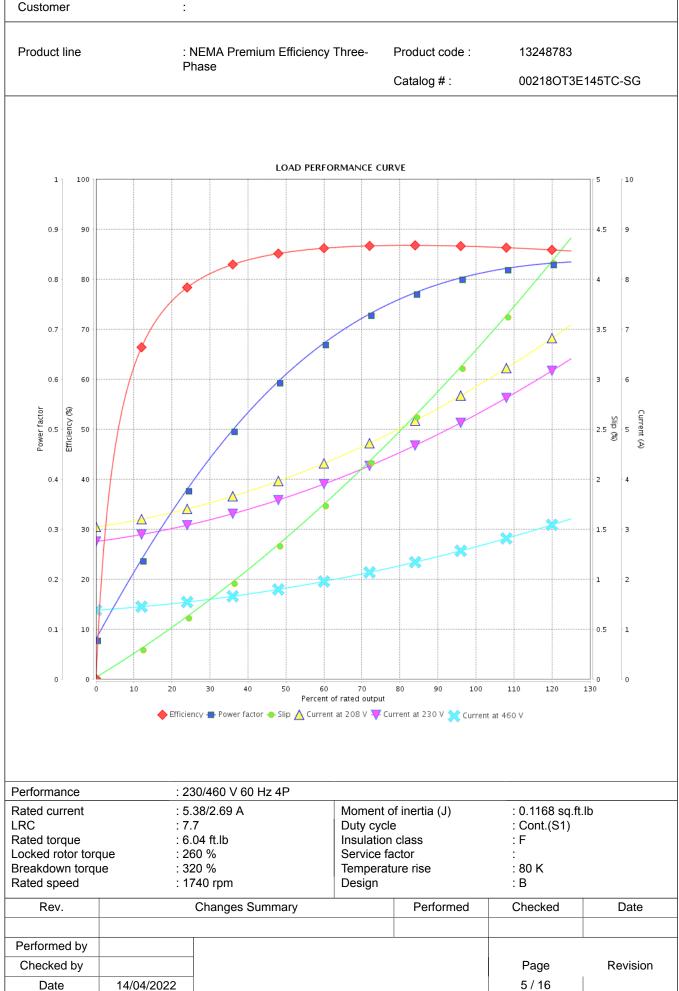




## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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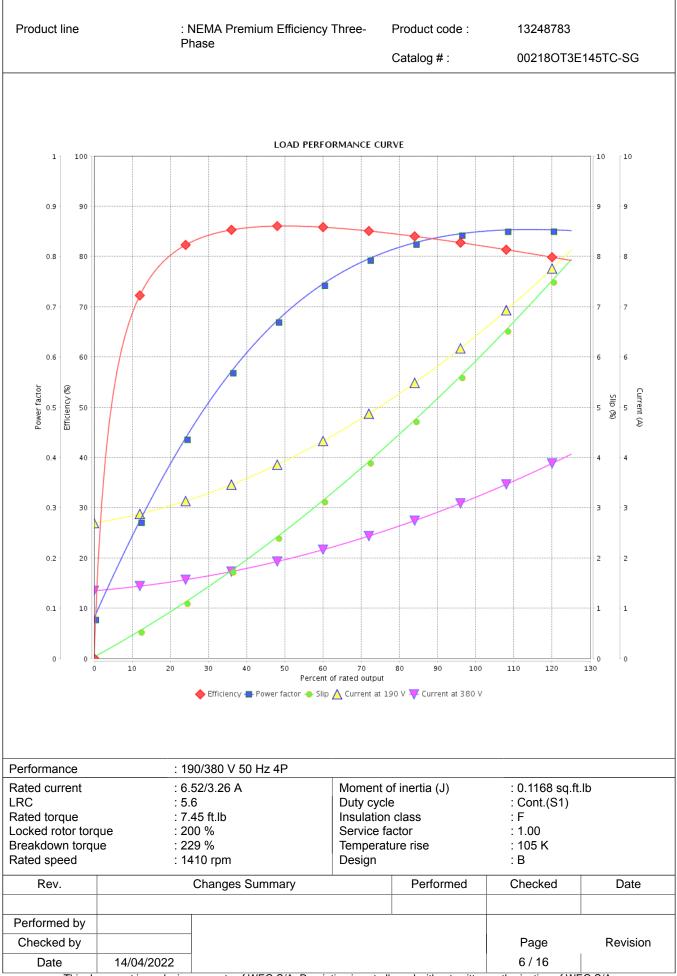
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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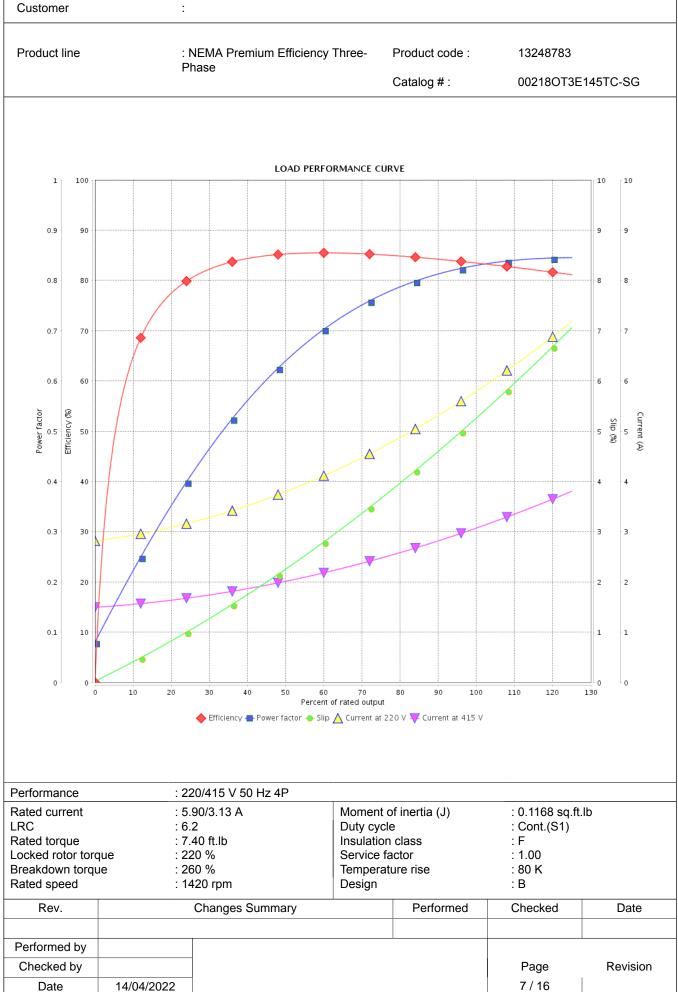
Customer



## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



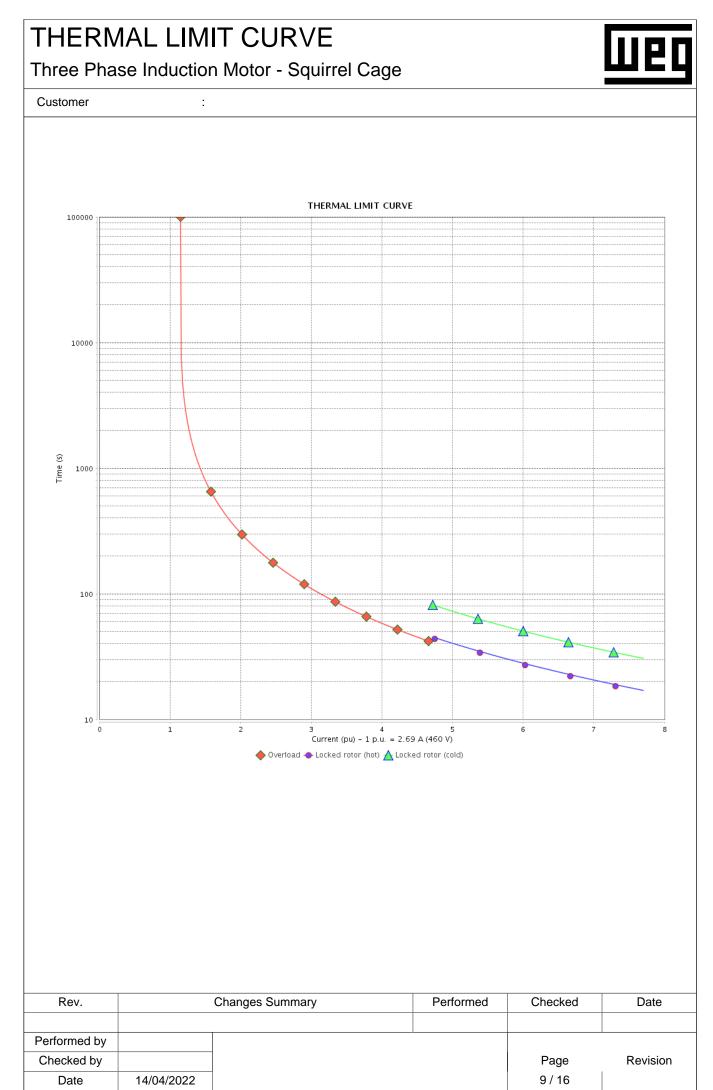
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THERMAL LIMIT CURVE							
Three Pha	se Inductio	n Motor - Squirrel	Cage			шед	
Customer	:						
Product line	oduct line : NEMA Premium Efficiency Phase			Product code :	13248783		
				Catalog # :	00218OT3E	145TC-SG	
Performance	: 2	30/460 V 60 Hz 4P					
LRC: 7.7Rated torque: 6.04 ftLocked rotor torque: 260 %Breakdown torque: 320 %		.04 ft.lb 60 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1168 sq.ft.l : Cont.(S1) : F : : 80 K : B	b	
Heating constan	t						
Cooling constant	t						
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THERMAL LIMIT CURVE							
Three Pha	se Inductio	n Motor - Squirrel	Cage			шед	
Customer	:						
Product line		NEMA Premium Efficiency T hase		Product code :	13248783		
				Catalog # :	00218OT3E	145TC-SG	
Performance	: 1	90/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		.52/3.26 A .6 .45 ft.lb 00 % 29 % 410 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant							
Cooling constant		Changes Summers		Dorformed	Charlest	Data	
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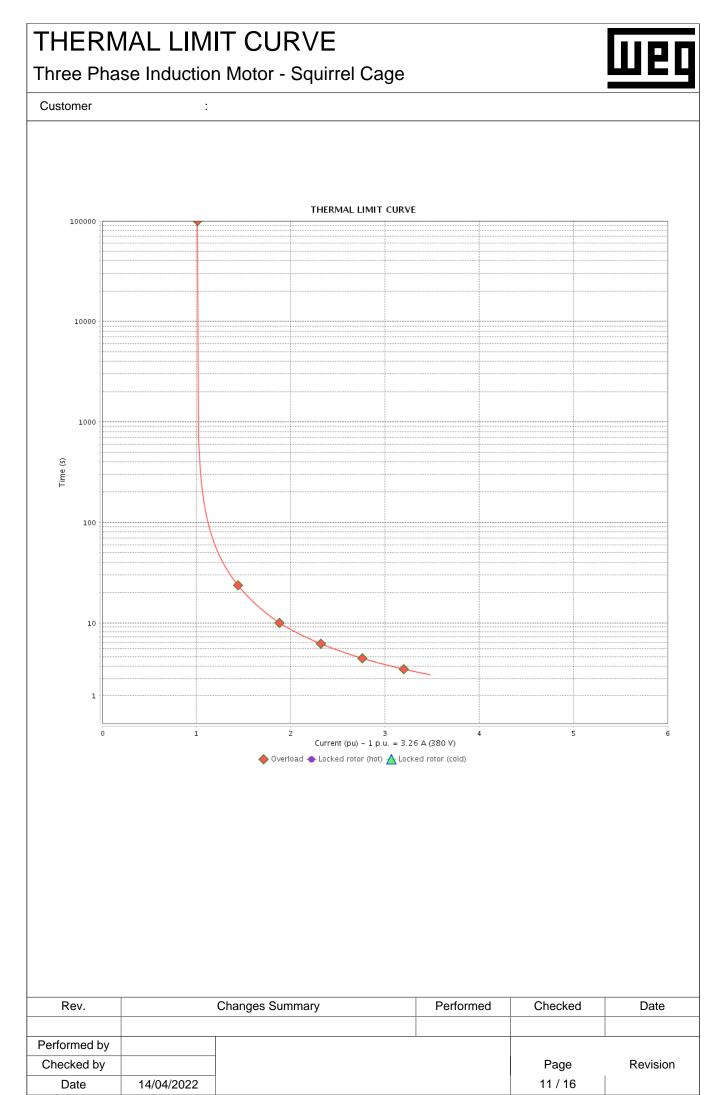
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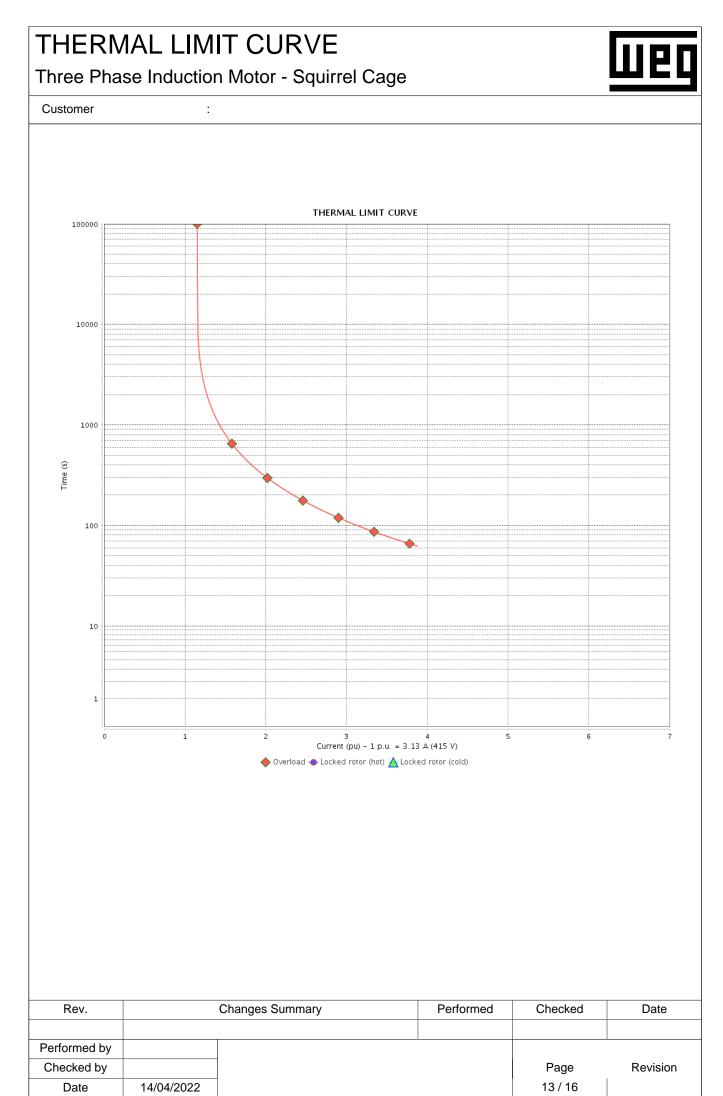


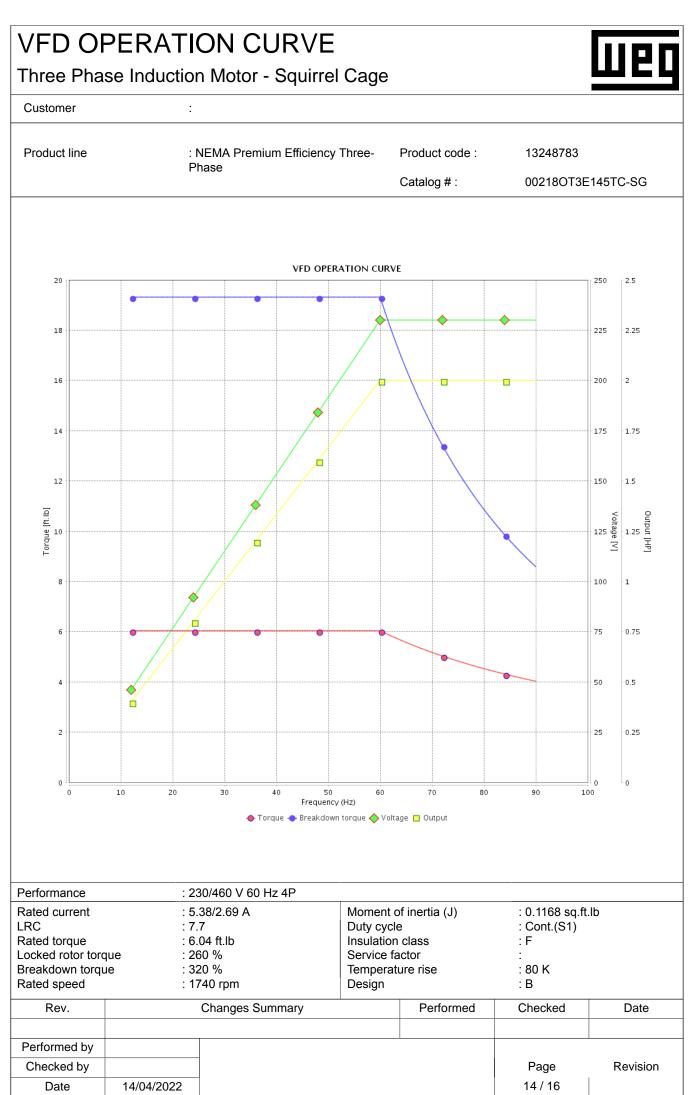
THERMAL LIMIT CURVE							
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц	
Customer	:						
Product line		: NEMA Premium Efficiency 1 Phase		Product code :	13248783		
				Catalog # :	00218OT3E	45TC-SG	
Performance		20/415 V 50 Hz 4P	1				
LRC: 6.2Rated torque: 7.4Locked rotor torque: 220Breakdown torque: 260		5.90/3.13 A 5.2 7.40 ft.lb 120 % 160 % 420 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1168 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b	
Cooling constant							
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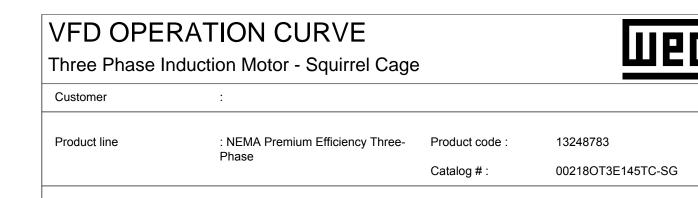
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VFD OPERATION CURVE

2.5

2.25

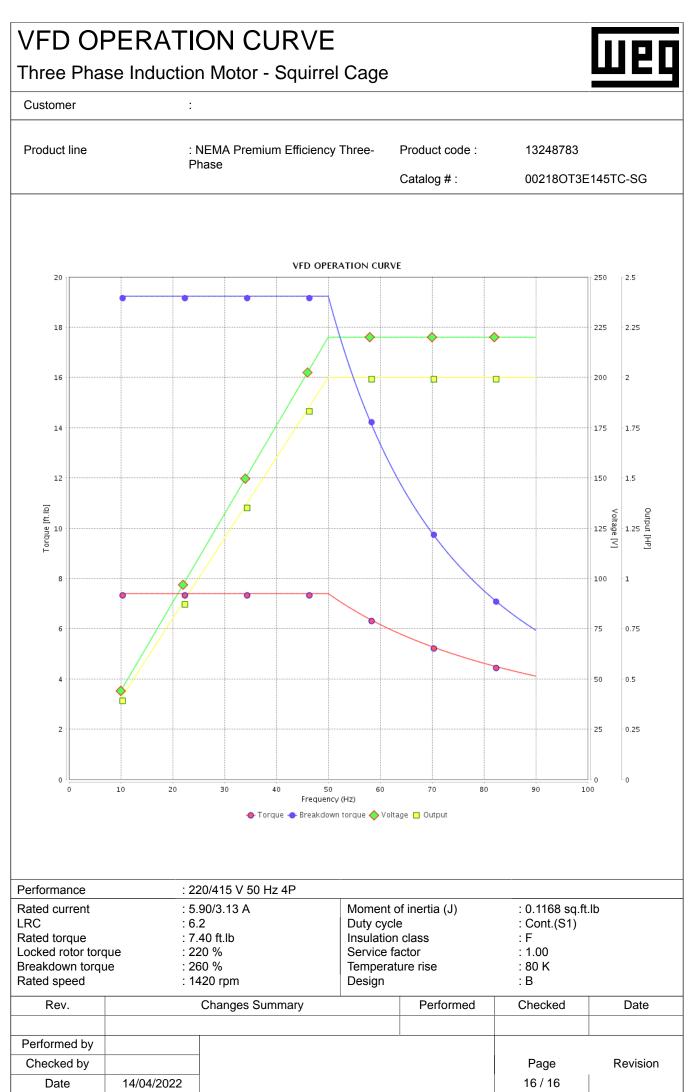
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1.75

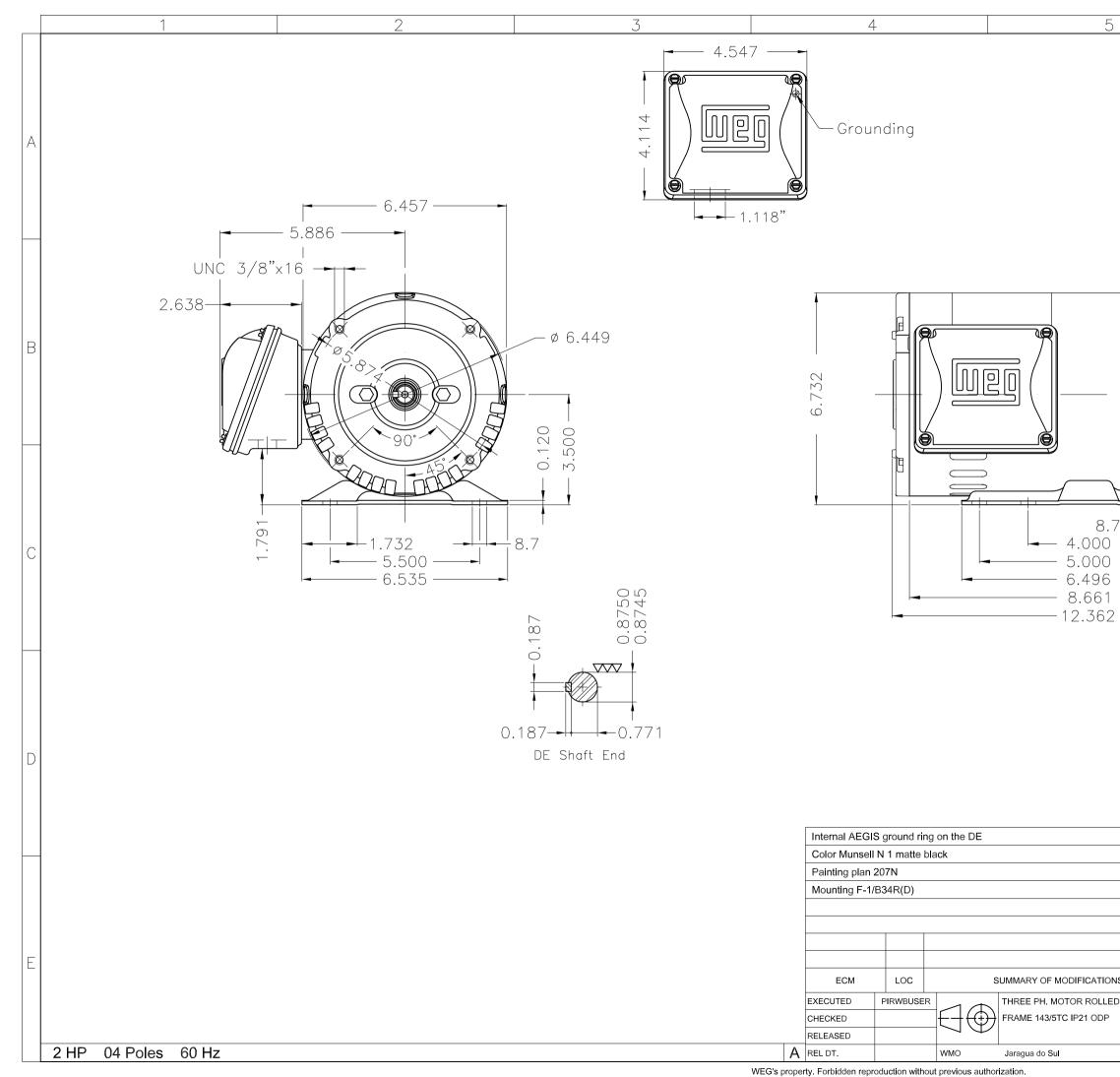
1.5

[1] I0 In the second	/						Voltage [V]	Output 1.25 ut [Hp]
8	•						80	1
6				•			60	- 0.75
4							40	- 0.5
2							20	- 0.25
o ]	10 20	30	40 50 Frequency	60 y (Hz)	70	80 90 3	0	0
Performance	• 10	● T 00/380 V 50	orque 🔶 Breakdow	n torque 🔷 Volta	ige 🔁 Output			
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 5. : 7. que : 20 Je : 22	52/3.26 A	112 41	Moment c Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1168 sq.f : Cont.(S1) : F : 1.00 : 105 K : B	ft.lb	
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