# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Effic Phase	ciency T	hree- P	roduct code :	143712	274
		FIIdSC		C	atalog # :	001562	KT3E143TC
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: F-1 : Both ( : Direct : 72.0 II	- TEFC (CW and CCW) t On Line b 3 sq.ft.lb
Output [HP]		1.5		1.5	1.	5	1.5
Poles		2		2	2		2
Frequency [Hz]		60		50	5		50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		4.10/2.05		2.36	2.3	32	2.29
. R. Amperes [A]		37.7/18.9		18.9	19		19.9
LRC [A]		9.2x(Code M)	8.0	0x(Code K)	8.4x(C	ode L)	8.7x(Code L)
No load current [A		2.00/1.00		0.900	1.0		1.10
Rated speed [RPN		3500		2860	28		2895
Slip [%]		2.78		4.67	3.8		3.50
Rated torque [ft.lb]		2.25		2.75	2.7		2.72
Locked rotor torqu		340		280	32		360
Breakdown torque	e [ <mark>%]</mark>	440		300	33		360
Service factor		1.15	1.00		1.(		1.00
Temperature rise		80 K	80 K		80		80 K
Locked rotor time		36s (cold) 20s (hot)	19s (cold) 11s (hot)				19s (cold) 11s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)		62.0 0		62.0 dB(A)
	25%	76.9	79.0		79		82.4
Efficiency (%)	50%	78.5	79.5		80		81.5
	75%	82.5		82.5	82		84.0
	100%	84.0	82.5		82		82.5
	25%	0.38	0.46		0.4		0.38
Power Factor	50%	0.62		0.70	0.6		0.63
	75%	0.73		0.81	0.7		0.74
	100%	0.80		0.86	0.8	33	0.81
Bearing type		: 6205 2RS 620	<u>ive end</u> 4 2RS	Max. tracti	on	: 49 lb	
Sealing		: Oil Seal Lip	Seal	Max. comp	pression	: 121 lb	
Lubrication interv		-	-				
Lubricant amoun	IT	- • • • • • • • • • • • • • • • • • • •	-				
Lubricant type		: Mobil Polyrex E					
Notes USABLE @208V	4.53A SF 1.	15 SFA 5.21A					
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with to weight subjec ocess.	cel the previous one, wh shaft end. olerance of +3dB(A). t to changes after	hich				sts with sinusoidal stipulated in NEMA
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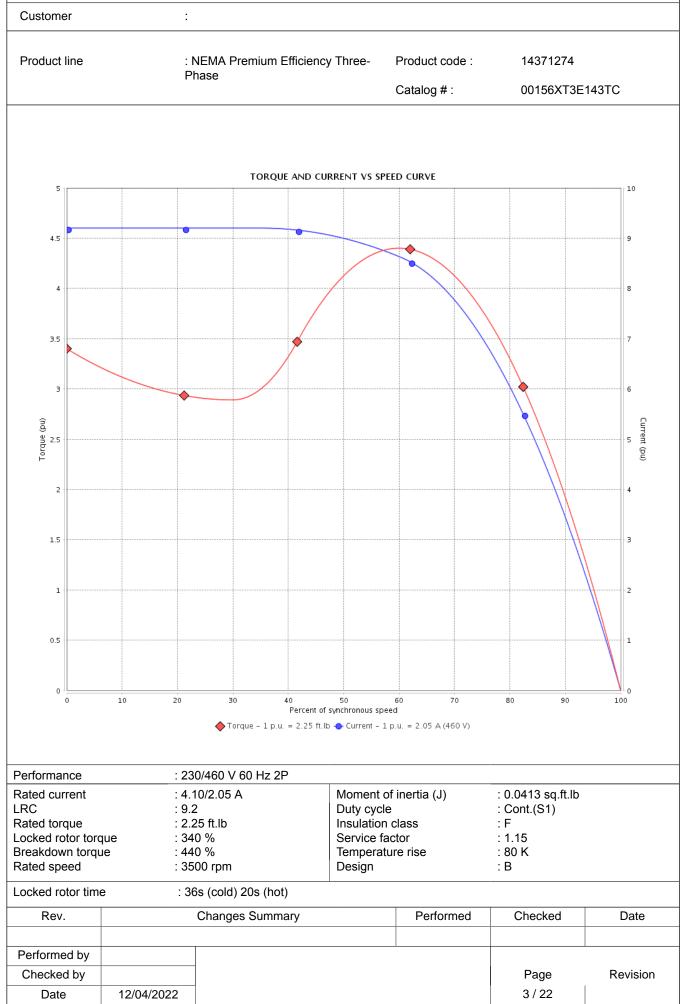


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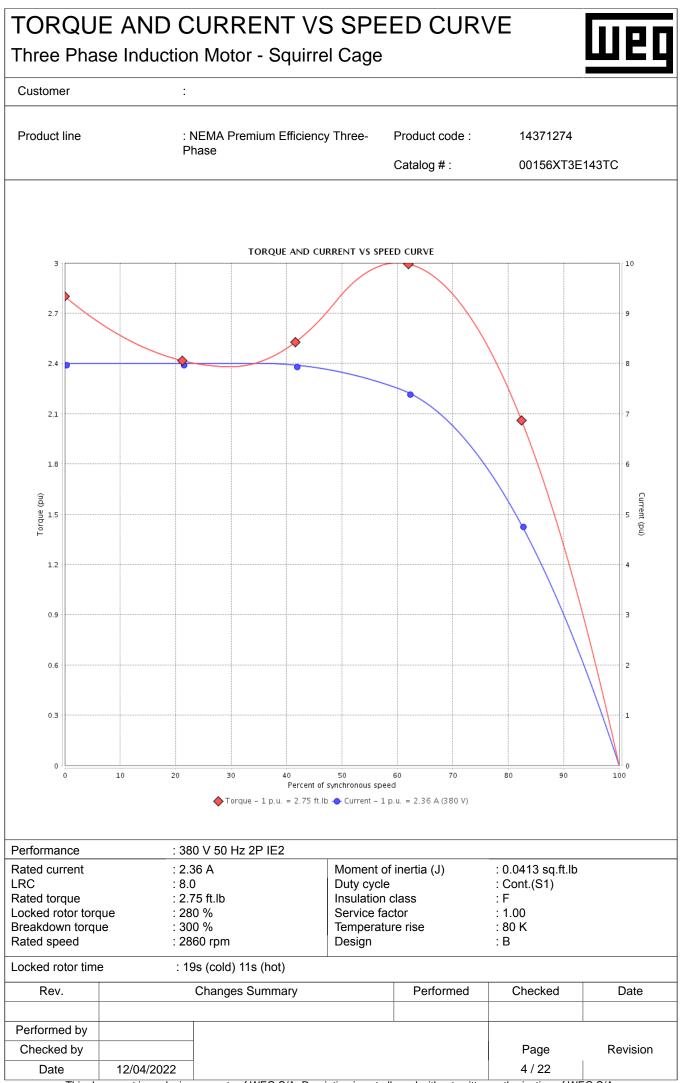
		Thermal protection		- ·	
ID	Application	Туре	Quantity	Sensing Te	
1	Winding	Thermostat - 2 wires	1 x Phase	130	5°C
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### TORQUE AND CURRENT VS SPEED CURVE

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## TORQUE AND CURRENT VS SPEED CURVE

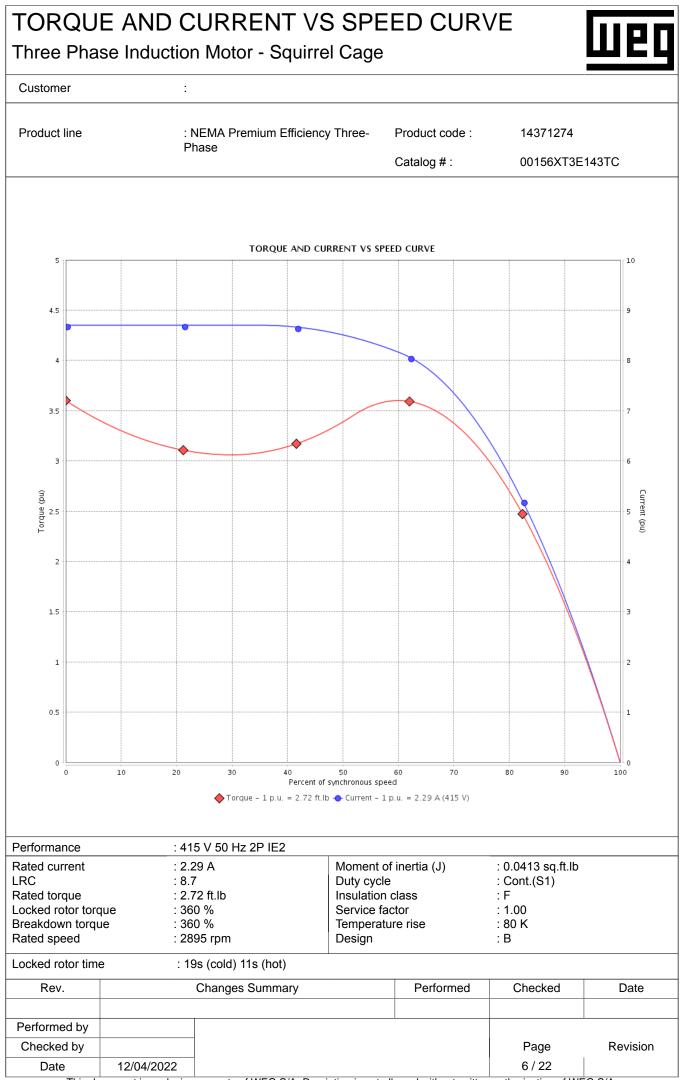
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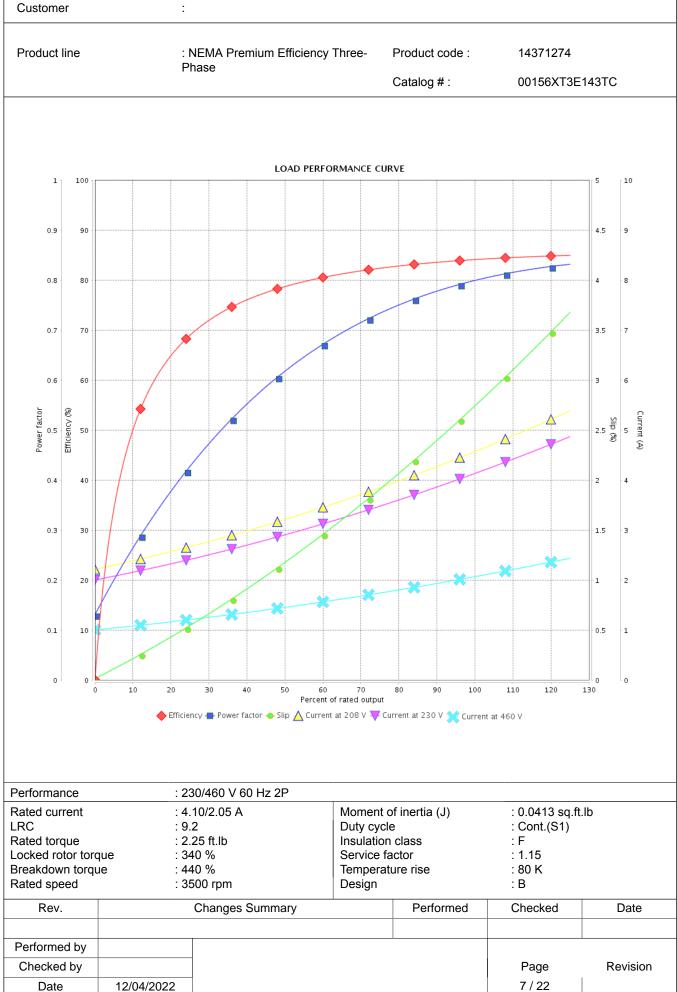
### Customer

Product line		: NEMA Premium Efficiency Three- Phase		e: 14371274	
	Pha	ase	Catalog # :	00156XT3E1	43TC
		TORQUE AND CURRENT	VS SPEED CURVE		
5					10
4.5					9
4 -	•				8
3.5				<u></u>	7
3	<u> </u>	•			6
(nd)					Curre
(nd) 91 2.5 10 10 10 10 10 10 10 10 10 10 10 10 10					5 Current (pu)
2					4
1.5					3
1					2
0.5					1
0	10 20	30 40 50 Percent of synchron	60 70 nous speed	80 90	100
		◆ Torque - 1 p.u. = 2.73 ft.lb ◆ Cur	rent – 1 p.u. = 2.32 A (400	V)	
erformance	· 400	V 50 Hz 2P IE2			
ated current	: 2.32	2 A Mon	nent of inertia (J)	: 0.0413 sq.ft.lb	
RC ated torque	: 8.4 : 2.73	3 ft.lb Insu	/ cycle lation class	: Cont.(S1) : F	
ocked rotor torque reakdown torque	e : 320 : 330		vice factor perature rise	: 1.00 : 80 K	
ated speed	: 288	5 rpm Des		: B	
ocked rotor time		s (cold) 11s (hot)	D		Data
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### Customer



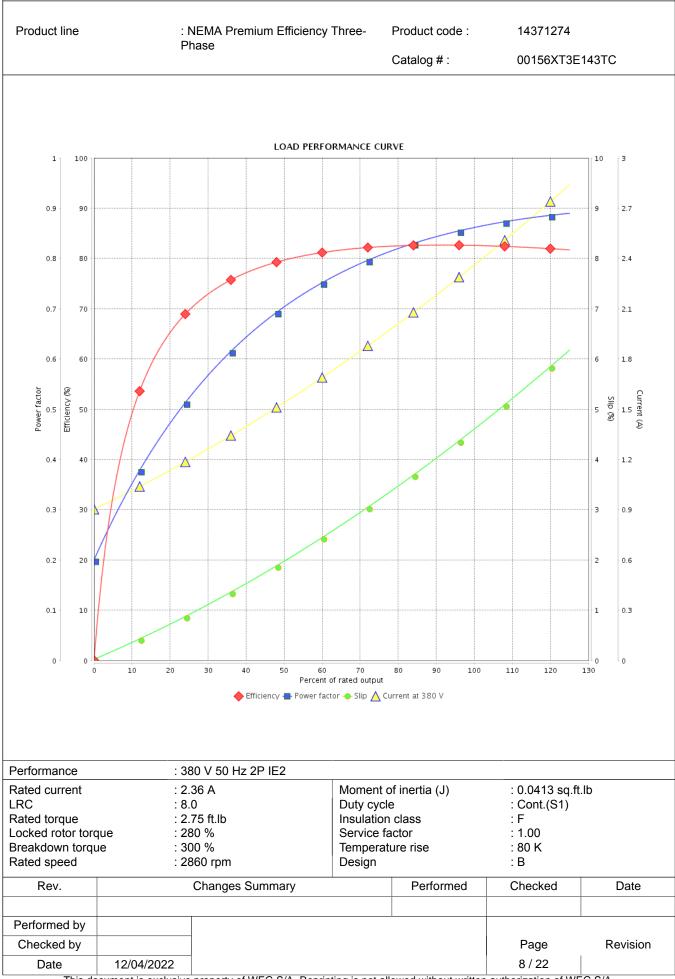
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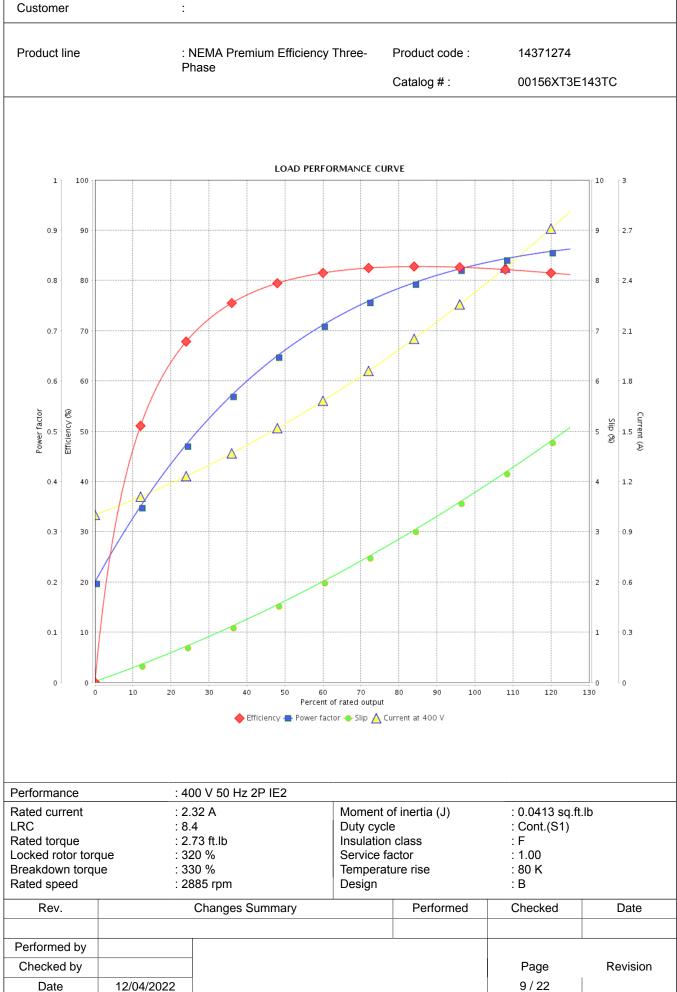


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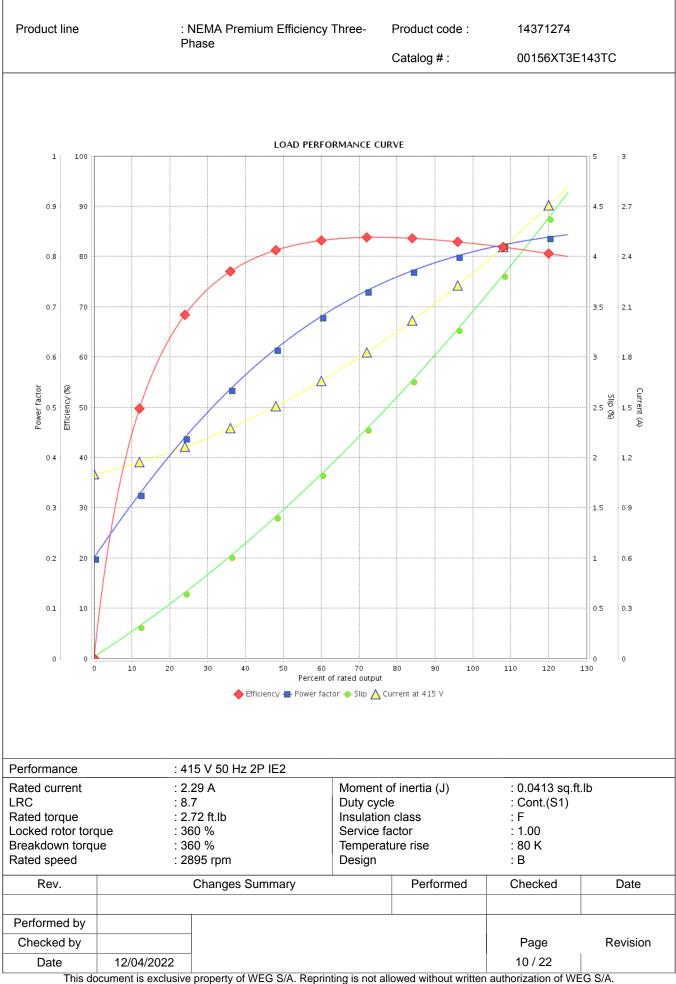
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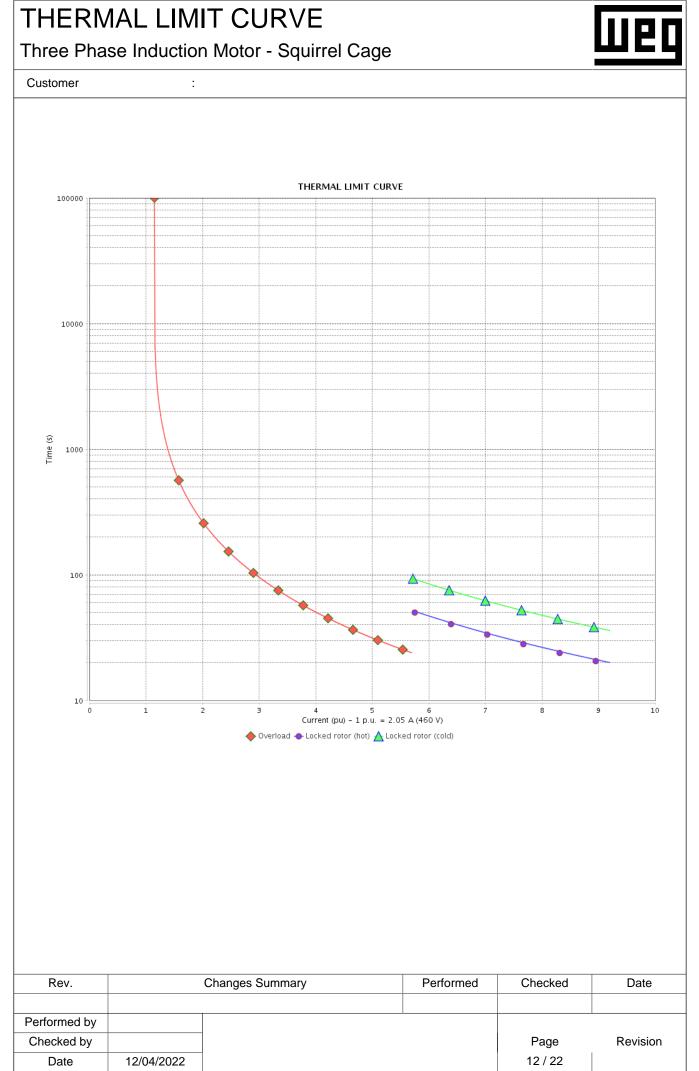
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### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14371274
	Phase	Catalog # :	00156XT3E143TC

Шед

Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 9. : 2. jue : 34 ie : 44	10/2.05 A .2 .25 ft.lb 40 % 40 % 500 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design		: 0.0413 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant	t					
Cooling constant	:					
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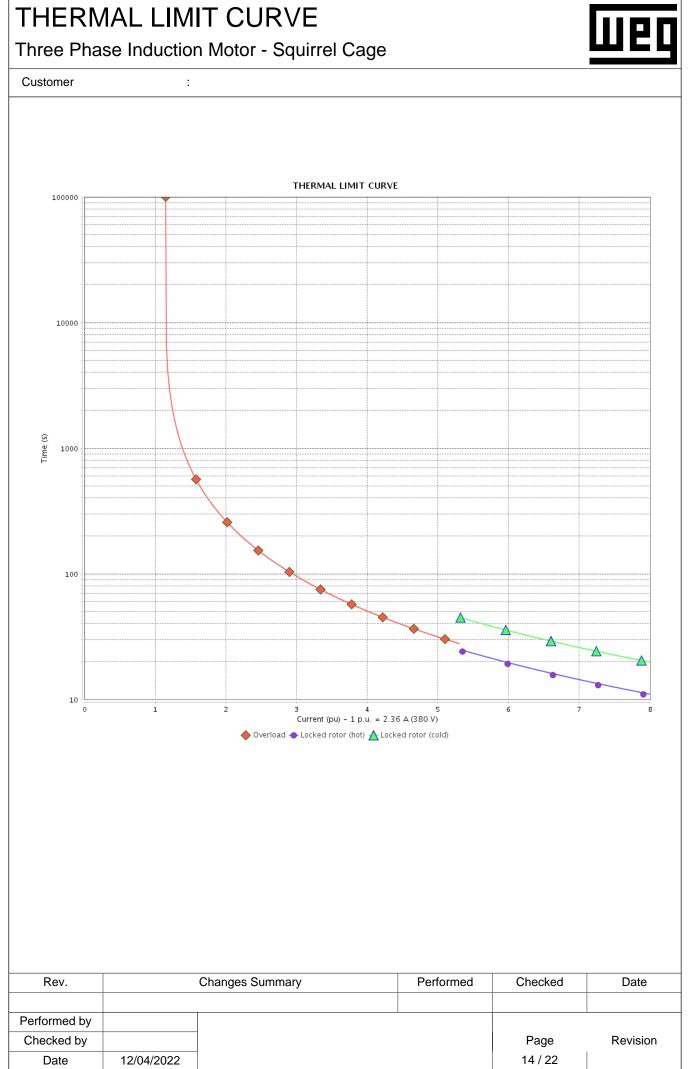
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### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14371274
	Phase	Catalog # :	00156XT3E143TC

Шед

Performance	: 38	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8. : 2. jue : 28 ie : 30	36 A .0 .75 ft.lb 80 % 00 % 860 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design		: 0.0413 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant	t					
Cooling constant	:					
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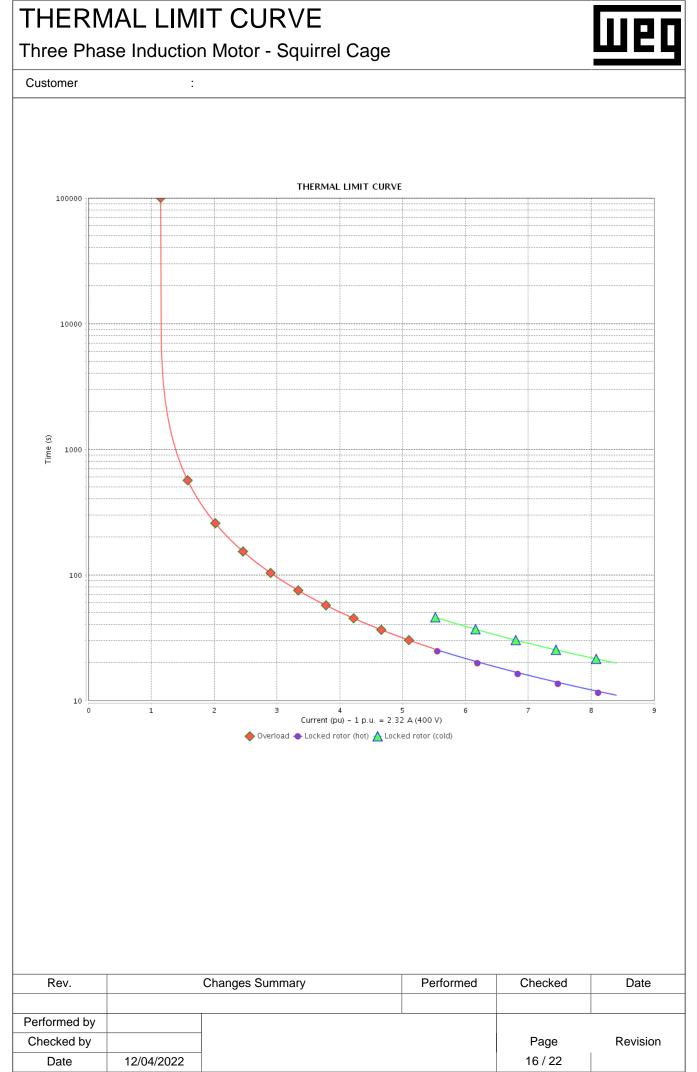
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### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14371274
	Phase	Catalog # :	00156XT3E143TC

Шеq

Performance	:	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	2.32 A 8.4 2.73 ft.lb 320 % 330 % 2885 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0413 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
Cooling constant						
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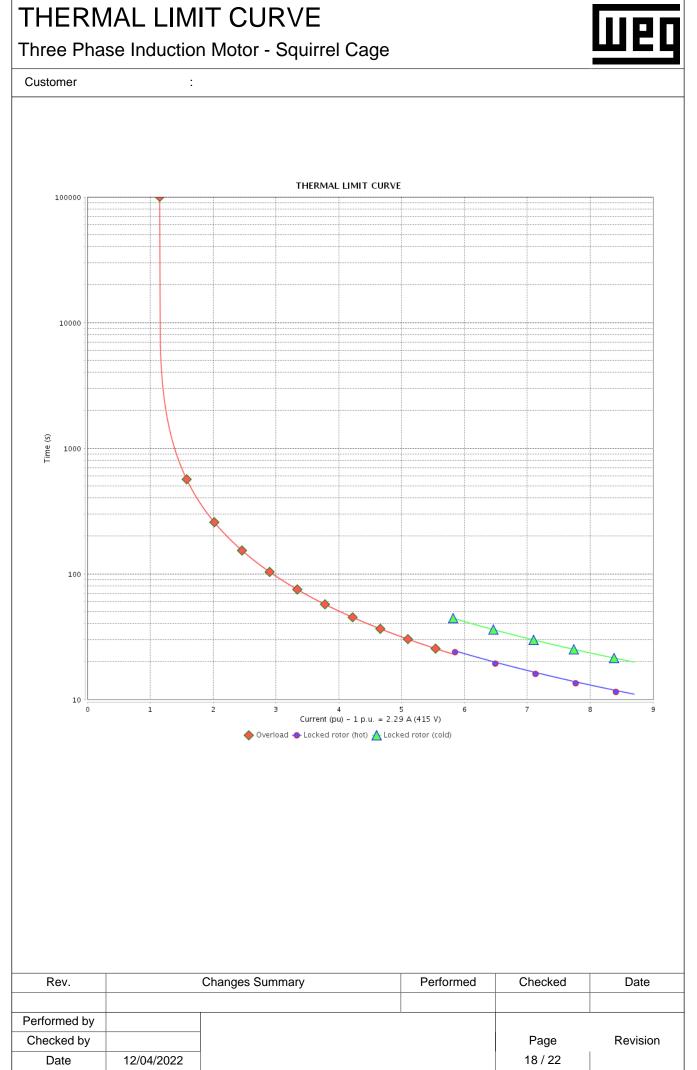
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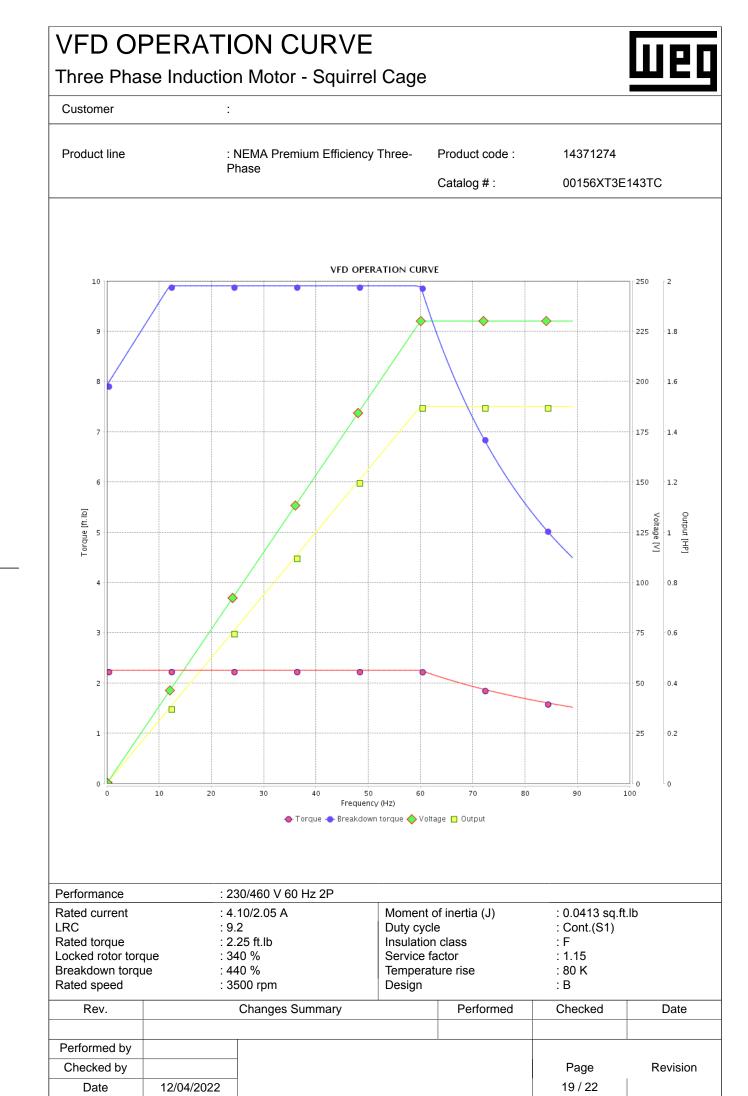
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14371274
	Filase	Catalog # :	00156XT3E143TC

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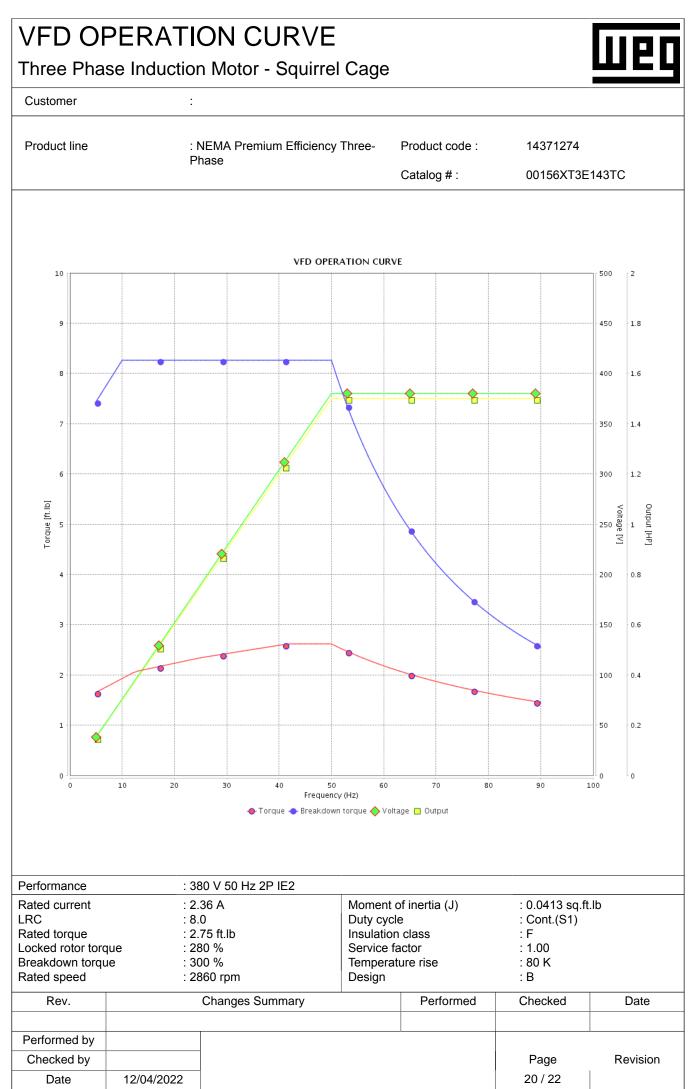
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 2.29 A : 8.7 : 2.72 ft.lb : 360 % : 360 % : 2895 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0413 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant Cooling constant						
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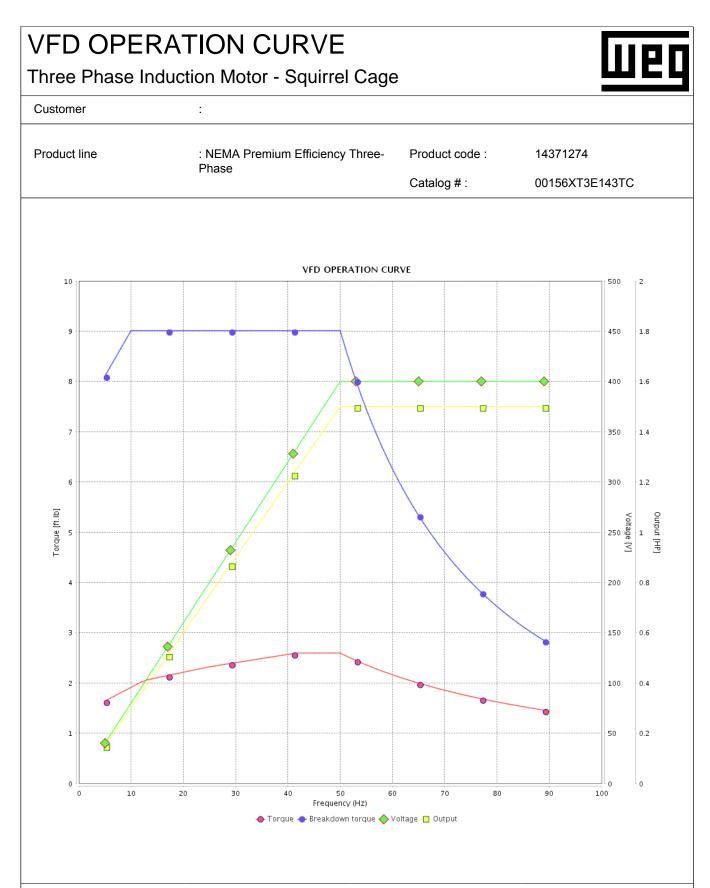
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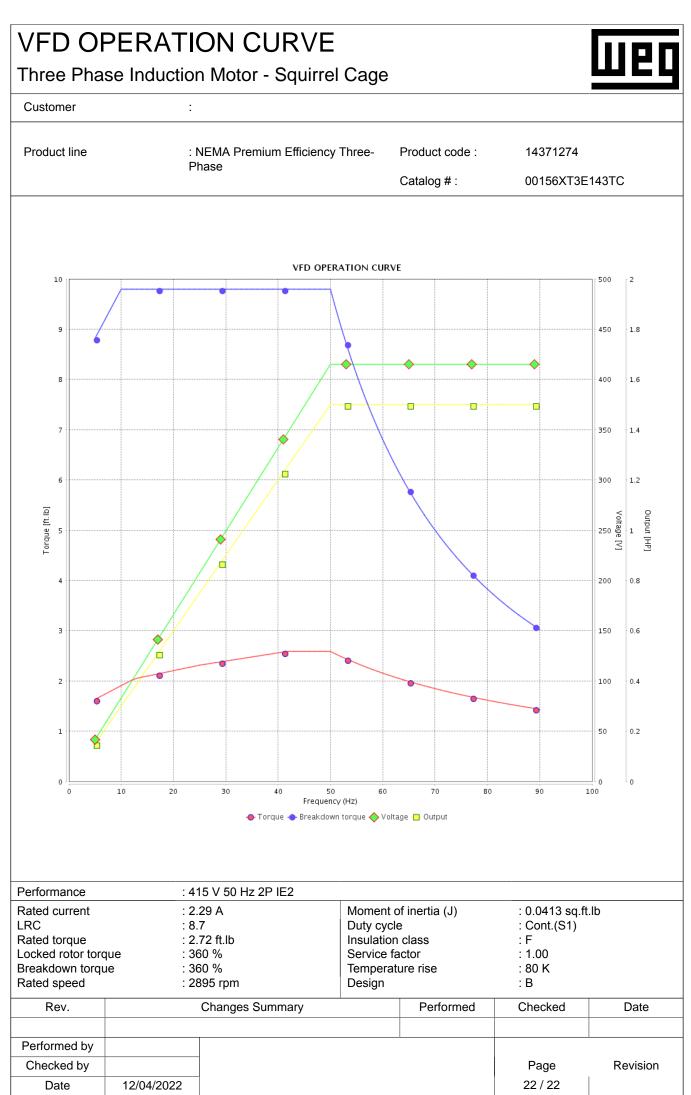
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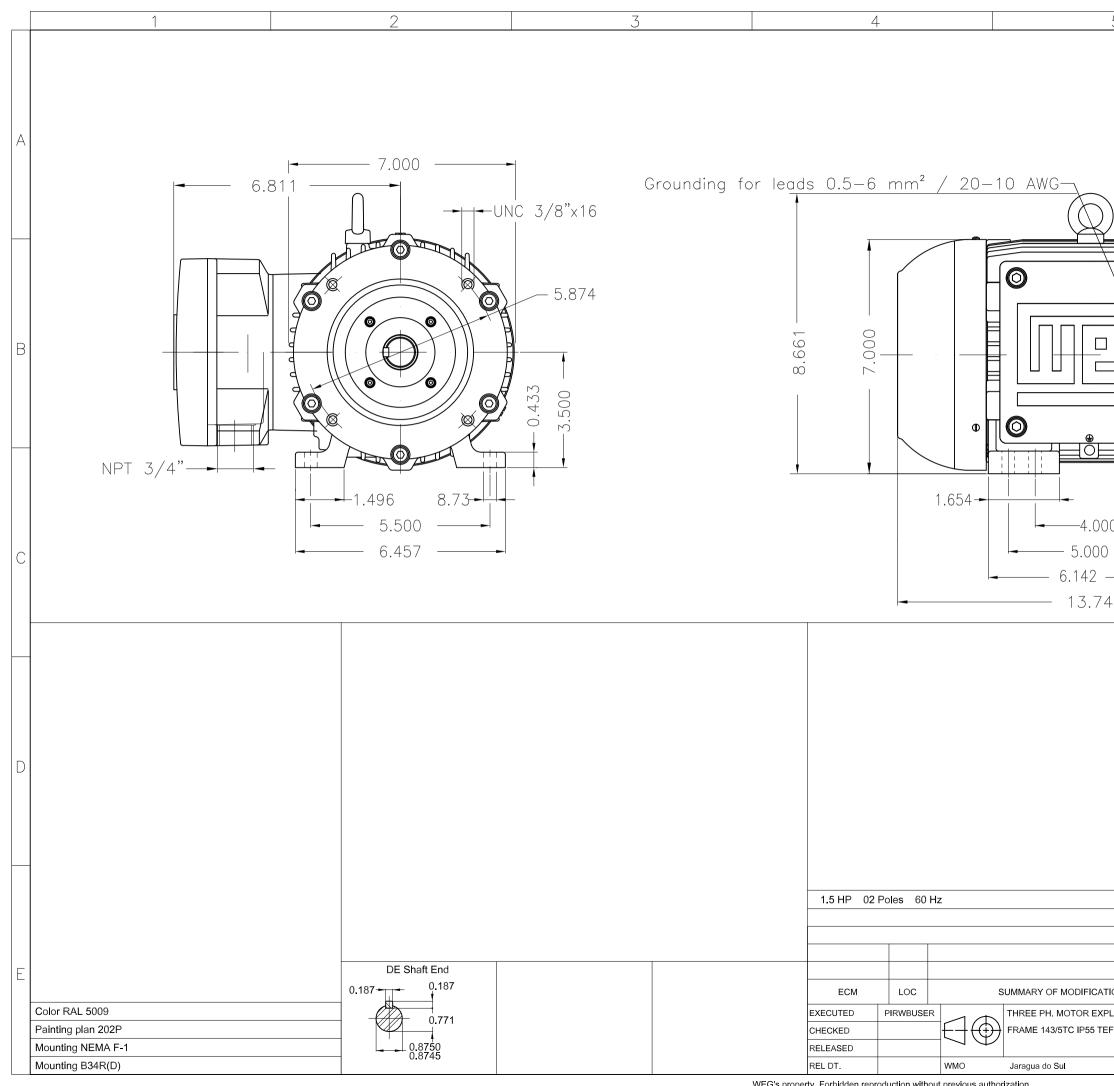
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Performance	: 40	00 V 50 Hz 2P IE2				
Rated current	: 2.	.32 A	Moment of inertia (J)		: 0.0413 sq.ft.	lb
LRC	: 8.	.4	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2.	.73 ft.lb	Insulation	class	: F	
Locked rotor torg	ue : 32	20 %	Service factor		: 1.00	
Breakdown torqu	ie : 33	30 %	Temperature rise		: 80 K	
•		885 rpm	Design		: B	
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