DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi Phase	ciency T	hree- Pr	oduct code :	1440698	0	
		i naoc		Ca	atalog # :	00712XT3E254T		
Frame Insulation class Duty cycle Ambient temperature		: F : Cont.(S1) : -20°C to +40°C		Mounting Rotation ¹ Starting m	Rotation ¹ Starting method		TEFC CW and CCW) On Line	
Altitude Protection degree Design		: 1000 m.a.s.l. : IP55 : B		Approx. we Moment of	eignt ^a f inertia (J)	: 322 lb : 3.32 sq	.ft.lb	
Output [HP]		7.5		7.5	7.	5	7.5	
Poles		6		6	6		6	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40	00	415	
Rated current [A]		19.5/9.73		11.5	11		10.8	
. R. Amperes [A]		136/68.1		64.4	68	.2	71.3	
_RC [A]		7.0x(Code J)	5.6	6x(Code G)	6.2x(C	ode H)	6.6x(Code H)	
No load current [A]	10.4/5.20		5.20	5.5		5.80	
Rated speed [RPN		1175		960	96	5	965	
Slip [%]		2.08		4.00	3.5	50	3.50	
Rated torque [ft.lb]		33.5		41.0	40		40.8	
Locked rotor torqu		270		175	20	00	220	
Breakdown torque		320			26	60	280	
Service factor		1.15	1.15		1.0		1.00	
Temperature rise		80 K		80 K	80		80 K	
_ocked rotor time		45s (cold) 25s (hot)	18s (d	cold) 10s (ho	t) 18s (cold)	10s (hot)	18s (cold) 10s (hot)	
Noise level ²		59.0 dB(A)	57.0 dB(A)		57.0 0		57.0 dB(A)	
	25%	87.5		90.1	89		89.8	
Efficiency (%)	50%	88.5		89.5	89		89.5	
	75%	90.2		89.5	90		90.2	
	100%	91.0		88.5	89		89.5	
	25%	0.34		0.40	0.3		0.34	
Power Factor	50%	0.58		0.65	0.6		0.59	
	75%	0.71		0.77	0.7		0.72	
	100%	0.78		0.82	3.0	31	0.79	
Bearing type			<u>rive end</u> 09 C3	Foundation Max. traction		: 387 lb		
Sealing		: Oil Seal Lip	o Seal	Max. comp	ression	: 709 lb		
Lubrication interv			000 h					
Lubricant amoun	t		9 g					
Lubricant type		: Mobil Polyrex E	ΞM					
Notes USABLE @208V	21.5A SF 1.	15 SFA 24.7A						
must be eliminate (1) Looking the m	ed. otor from the m and with t veight subjec ocess.	olerance of +3dB(A).	hich				s with sinusoidal tipulated in NEMA	
Rev.		Changes Summary	,	· 	Performed	Checked	Date	
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ID	Application	Туре	Quantity	Sensing 1	Femperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
1	winding	memostat - 2 wires	I X FIIdSe		55 C
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TORQUE AND CURRENT VS SPEED CURVE

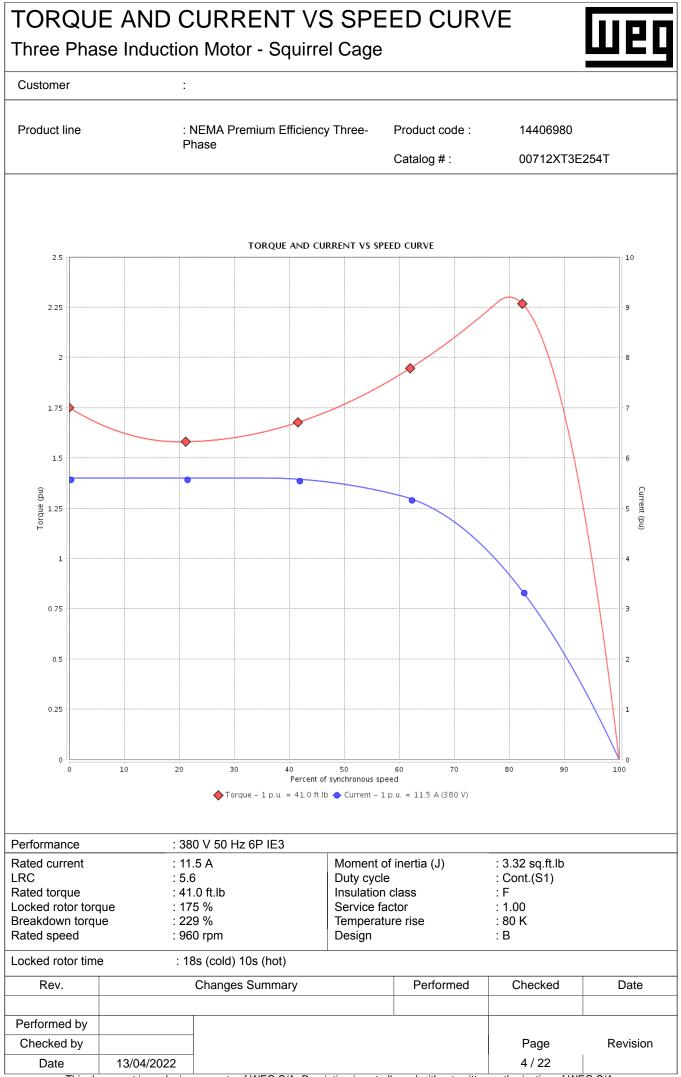
Three Phase Induction Motor - Squirrel Cage

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Product line	: NEMA Premium Efficier Phase		roduct code : atalog # :	14406980 00712XT3E2	254T
	TORQUE AND	CURRENT VS SPEED	CURVE		
5					10
4.5					9
4					8
3.5	• •				7
3					6
<u> </u>			◆ \		5
(nd) 2.5					Current (pu)
To					(uc
2					4
1.5					3
1					2
0.5 -					1
0					
0 10		50 60 t of synchronous speed	70	80 90	100
	♦ Torque – 1 p.u. = 33.5	ft.lb 🔶 Current – 1 p.u.	= 9.73 A (460 V)		
erformance ated current	: 230/460 V 60 Hz 6P : 19.5/9.73 A	Moment of in	ertia (J)	: 3.32 sq.ft.lb	
RC	: 7.0	Duty cycle		: Cont.(S1)	
ated torque ocked rotor torque	: 33.5 ft.lb : 270 %	Insulation cla Service facto	r	: F : 1.15	
reakdown torque ated speed	: 320 % : 1175 rpm	Temperature Design	rise	: 80 K : B	
ocked rotor time	: 45s (cold) 25s (hot)				
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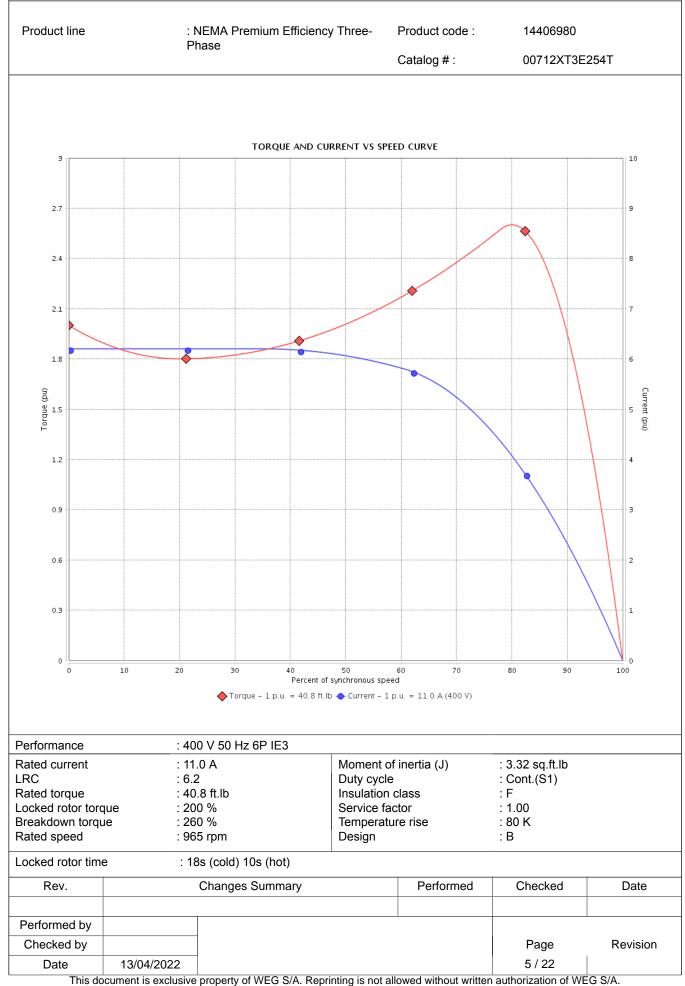
TORQUE AND CURRENT VS SPEED CURVE

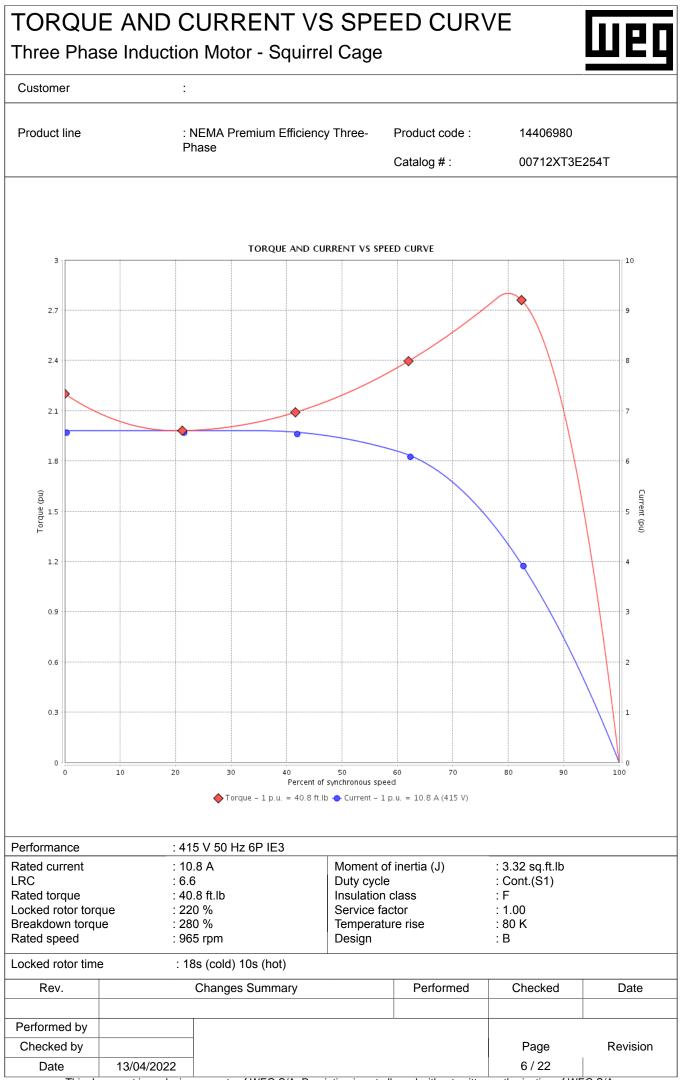
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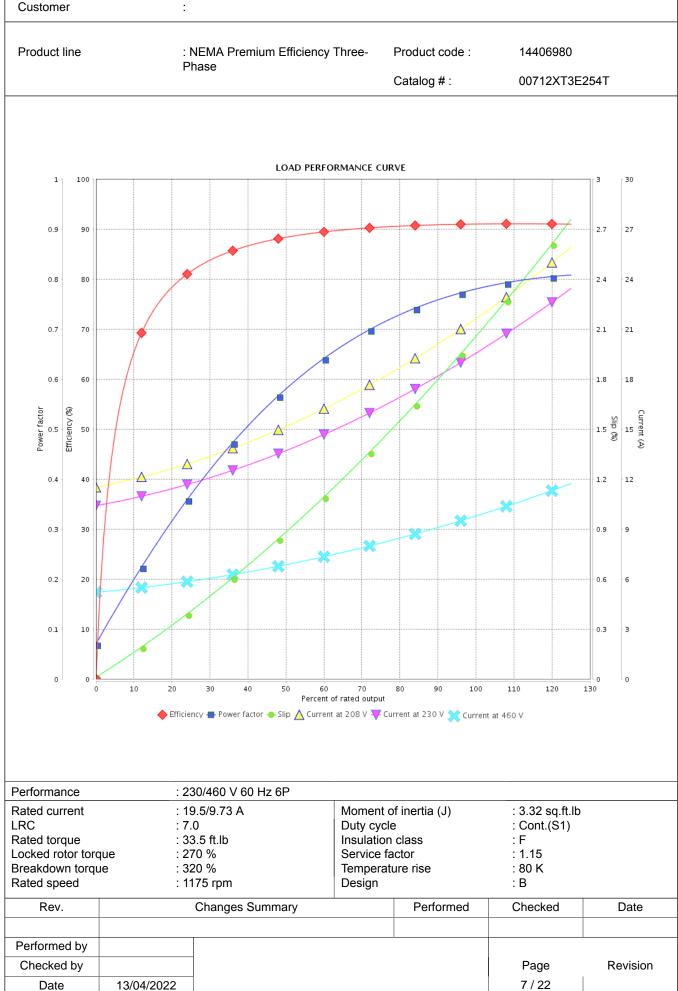




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Customer



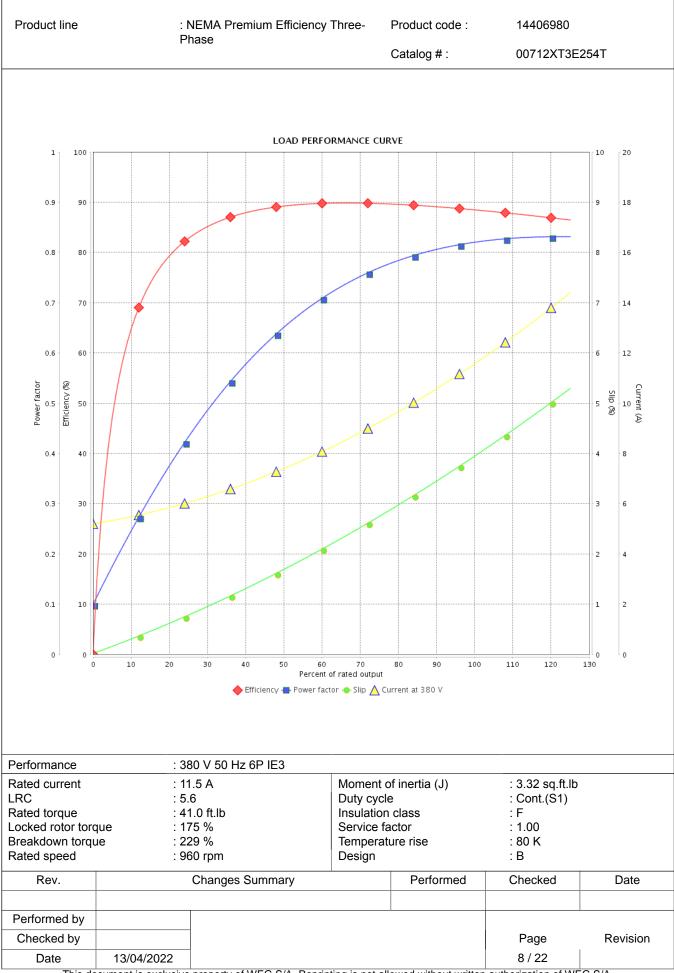
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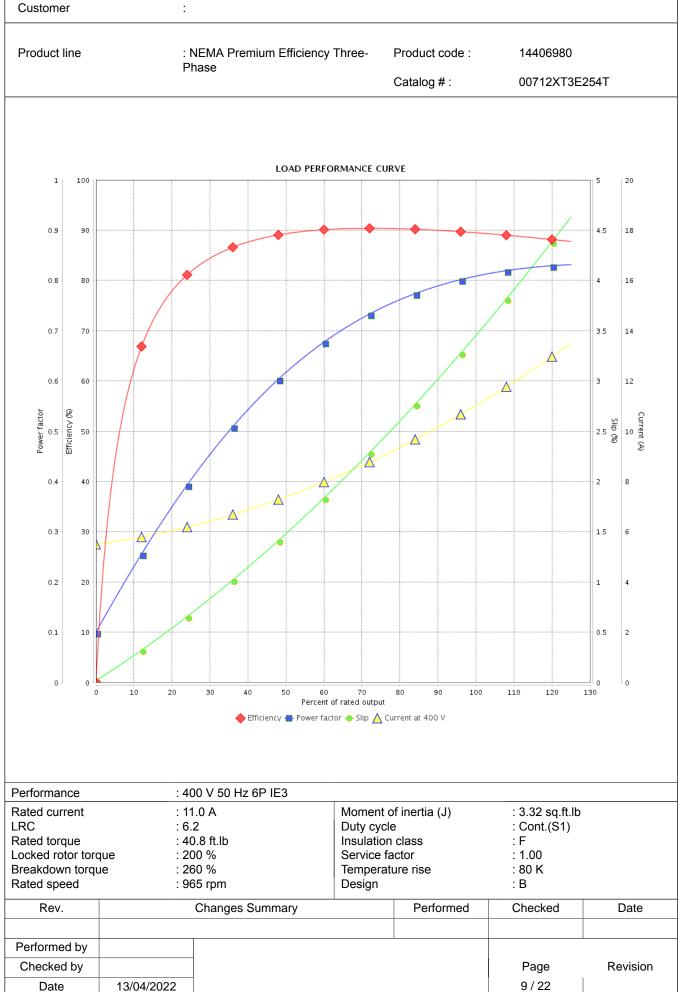


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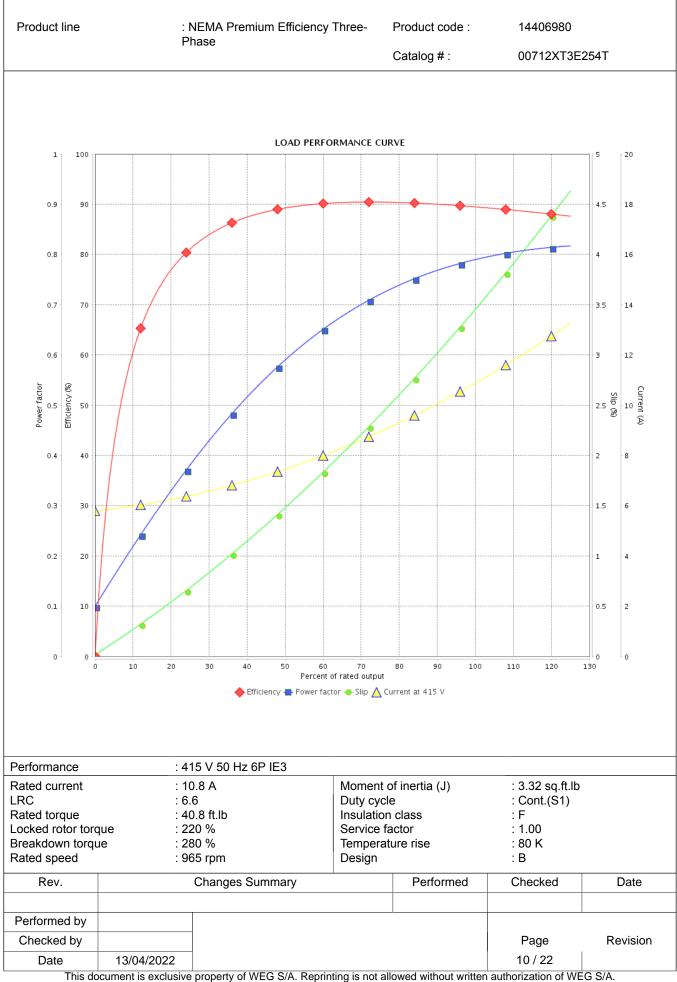
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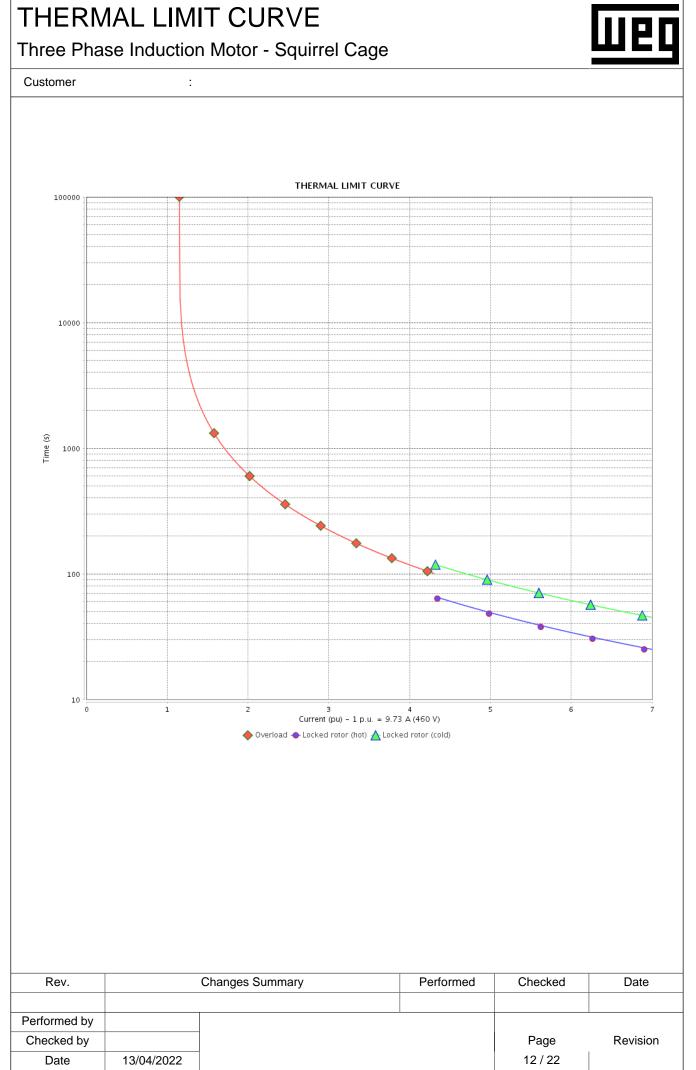
Three Phase Induction Motor - Squirrel Cage

Customer

: NEMA Premium Efficiency Three-	Product code :	14406980
Phase	Catalog # :	00712XT3E254T

Шед

Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	que	: 19.5/9.73 A : 7.0 : 33.5 ft.lb : 270 % : 320 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.32 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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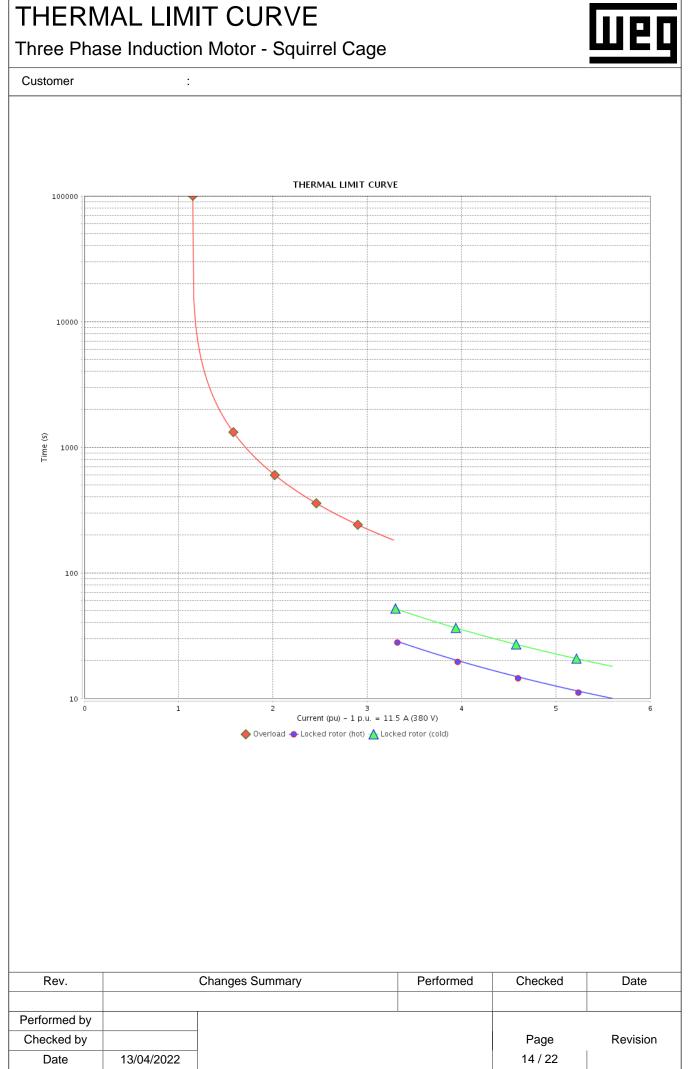
Three Phase Induction Motor - Squirrel Cage

Customer

: NEMA Premium Efficiency Three-	Product code :	14406980
Phase	Catalog # :	00712XT3E254T

Шед

Performance	:	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	jue :	11.5 A 5.6 41.0 ft.lb 175 % 229 % 960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.32 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	:					
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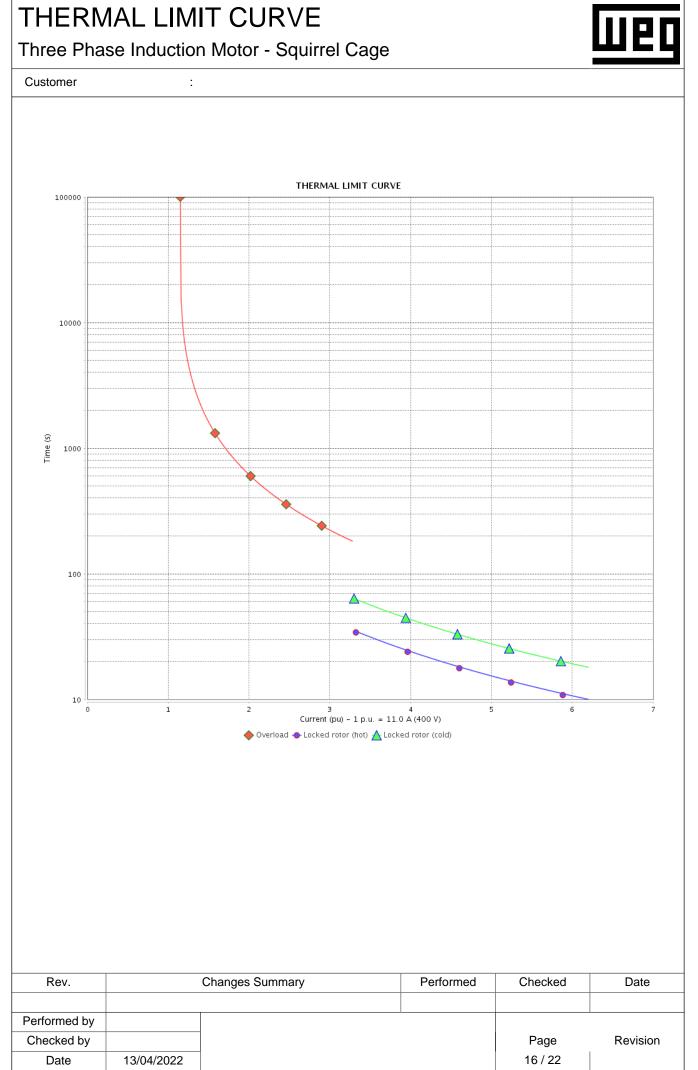
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14406980	
		Catalog # :	00712XT3E254T	

Шед

Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 40 jue : 20 ie : 20	1.0 A .2 0.8 ft.lb 00 % 60 % 65 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.32 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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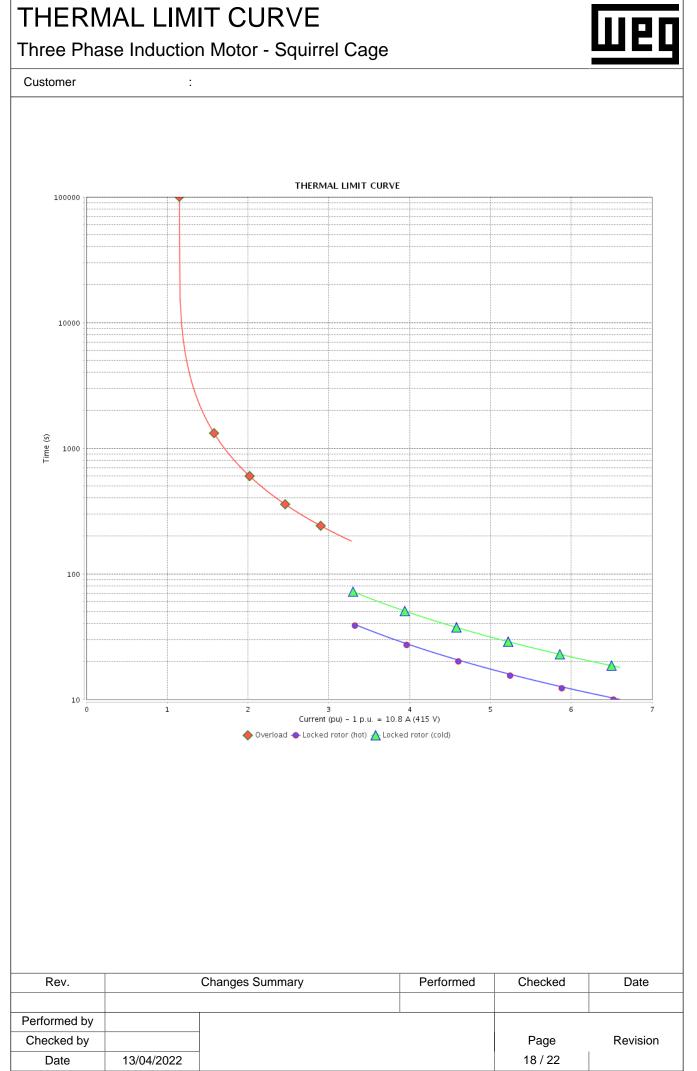
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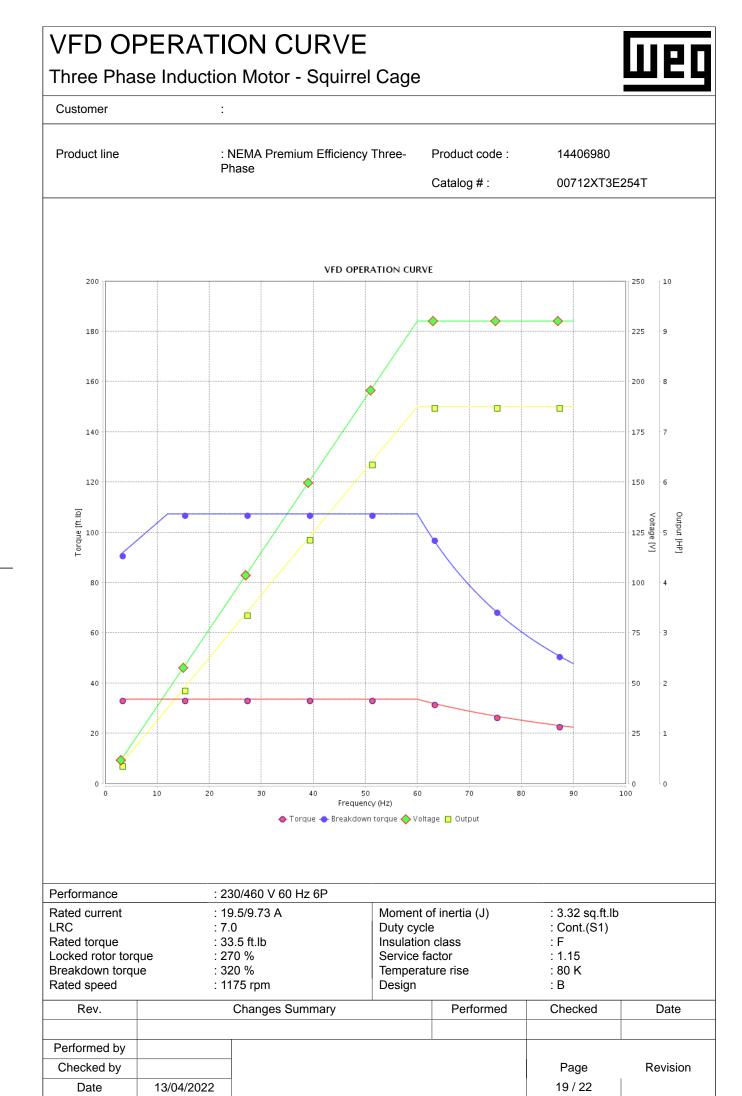
: NEMA Premium Efficiency Three-	Product code :	14406980
Phase	Catalog # :	00712XT3E254T

Шед

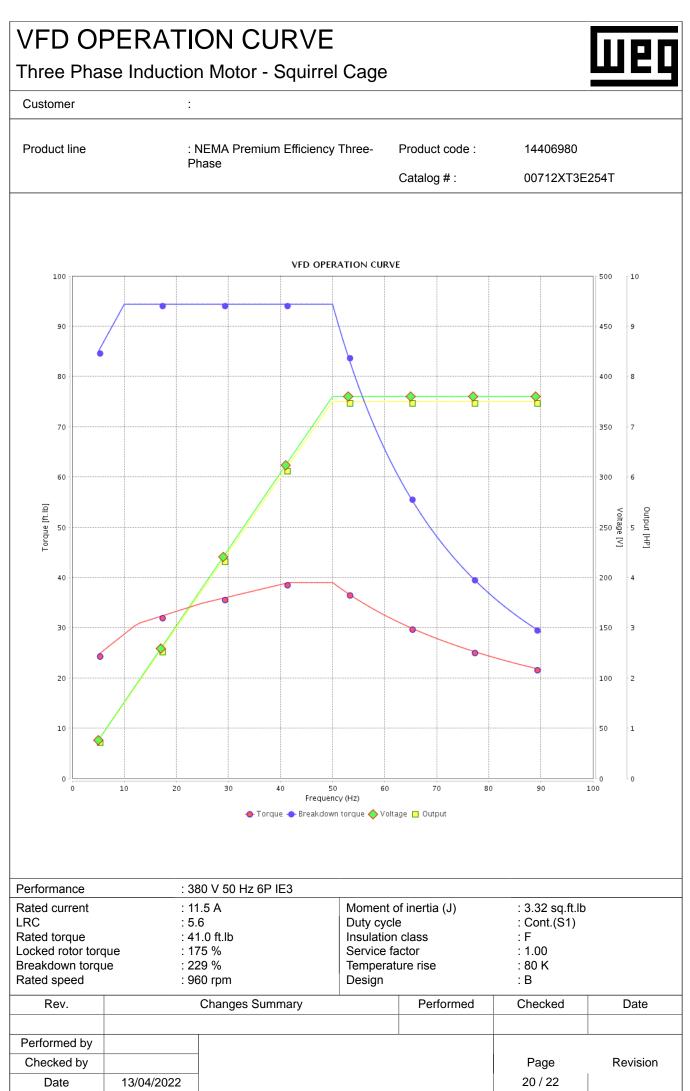
Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant	: 6 : 4 iue : 2 ie : 2 : 9	8 AMoment of ine Duty cycle8 ft.lbInsulation class0 %Service factor0 %Temperature in Design		class ctor	: 3.32 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant						
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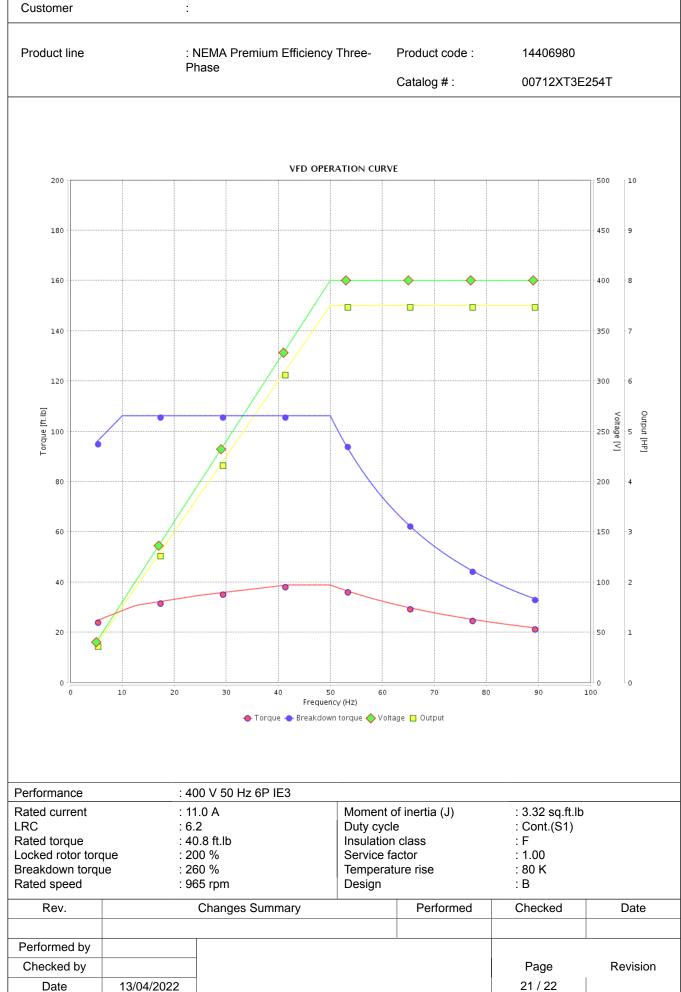


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VFD OPERATION CURVE

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Customer



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