DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi	ciency T	hree- Pro	oduct code :	1425532	21	
		Phase		Ca	atalog # :	00118X	T3E143T	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: F I : Cont.(S1) I : -20°C to +40°C S : 1000 m.a.s.l. / : IP55 I		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 68.0 lb : 0.0975 sq.ft.lb		
Design Output [HP]		: B		1	1		1	
Poles		4		4			4	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		230/460		380	40		415	
Rated current [A]		2.86/1.43		1.68	1.6		1.59	
L. R. Amperes [A]		24.6/12.3		11.3	12		12.6	
_RC [A]		8.6x(Code M)	6	7x(Code J)	7.4x(C		7.9x(Code L)	
No load current [A	1	1.87/0.935	0.	0.924	0.9	,	1.06	
Rated speed [RPN		1.67/0.935		1440	14		1450	
	n]	2.22		4.00	3.3		3.33	
Slip [%] Batad targua [ft lb]	1							
Rated torque [ft.lb]		2.99		3.63	3.0		3.61	
Locked rotor torqu		290		220	25		280	
Breakdown torque	[%]	370		250	28		310	
Service factor		1.15	1.00		1.0		1.00	
Temperature rise		80 K	80 K		80		80 K	
Locked rotor time		32s (cold) 18s (hot)	36s (cold) 20s (hot				36s (cold) 20s (hot)	
Noise level ²	0501	51.0 dB(A)	49.0 dB(A)		49.0 0		49.0 dB(A)	
	25%	77.3	81.2		80		78.4	
Efficiency (%)	50%	80.0	81.5		81		80.0	
	75%	82.5		82.5	82		82.5	
	100%	85.5	82.5		82		84.0	
	25%	0.32		0.37	0.3		0.32	
Power Factor	50%	0.57		0.65	0.6		0.58	
	75%	0.70		0.77	0.7		0.72	
	100%	0.77		0.82	0.8	30	0.78	
Bearing type		: 6205 2RS 620	r <u>ive end</u>)4 2RS	Max. tractic	on	: 63 lb		
Sealing		: Oil Seal Lip	o Seal	Max. comp	ression	: 131 lb		
Lubrication interv		-	-					
Lubricant amoun	ι	- Mahil Dahara 1	-					
Lubricant type		: Mobil Polyrex E						
Notes USABLE @208V	3.16A SF 1.	15 SFA 3.64A						
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	ncel the previous one, where shaft end. colerance of +3dB(A). ct to changes after	hich		•		s with sinusoidal tipulated in NEMA	
Rev.		Changes Summary	1		Performed	Checked	Date	
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Checked by						Page	Revision	
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Date	11/04/202							

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Customer

Thermal protection ID Application Type Quantity Sensing Temperature						
ID	Application	Туре	Quantity			
1	Winding	Thermostat - 2 wires	1 x Phase	15:	<u>5 °C</u>	
Rev.	Chan	ges Summary	Performed	Checked	Date	
rformed by						

TORQUE AND CURRENT VS SPEED CURVE

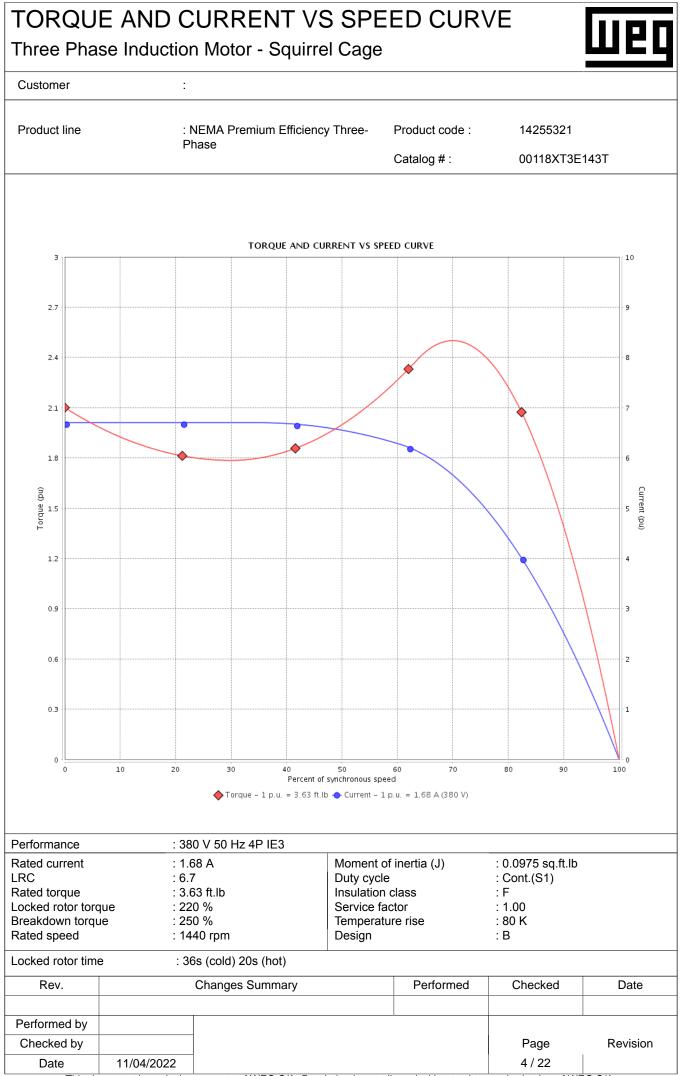
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Premium Efficiency Three- Phase		Product code :	14255321	
	Ph	lase		Catalog # :	00118XT3E1	43T
		TORQUE AND CURRE	NT VS SPE	ED CURVE		
5						10
4.5						
•	•	•				
4						
3.5						7
3						6
<u>-</u>						
(nd) 2.5						Current (pu)
Ĕ						5
2						4
1.5						3
1				-		2
0.5						1
0						
0	10 20	30 40 5 Percent of sync ◆ Torque – 1 p.u. = 2.99 ft.lb ◆	hronous spee		80 90	100
		•		,		
erformance		0/460 V 60 Hz 4P				
Rated current RC Rated torque ocked rotor torq Breakdown torqu Rated speed	: 8.6 : 2.9 ue : 290 e : 370	9 ft.lb Ir 0 % S 0 % T	Ioment of outy cycle nsulation of ervice fac emperatu besign	class ctor	: 0.0975 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
ocked rotor time		s (cold) 18s (hot)	20.911			
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TORQUE AND CURRENT VS SPEED CURVE

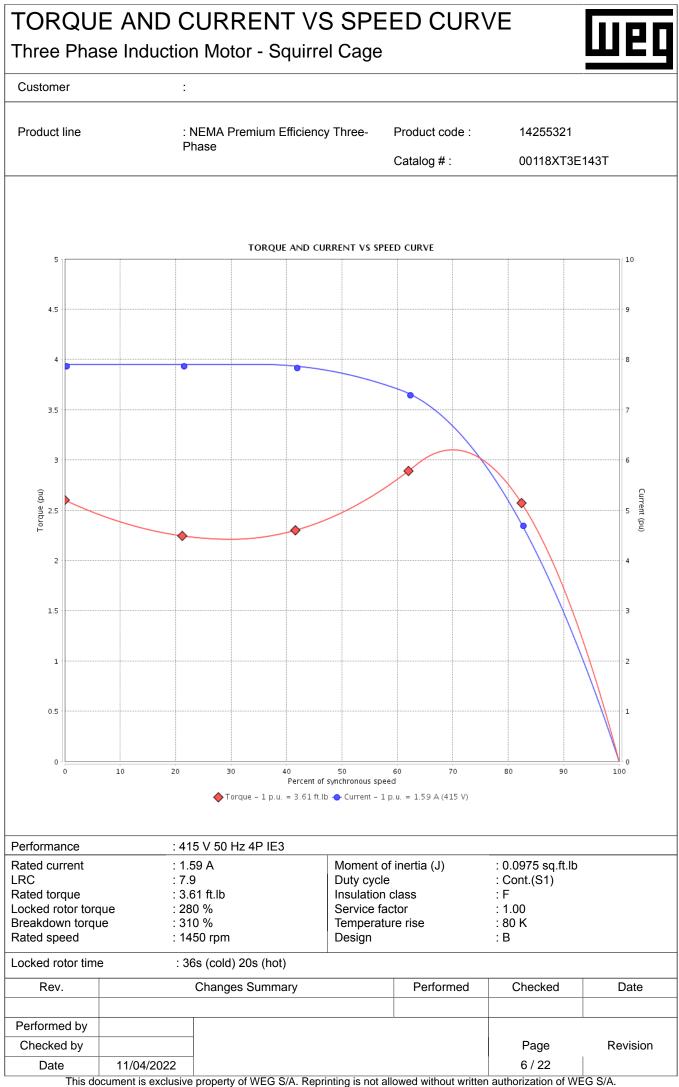
Three Phase Induction Motor - Squirrel Cage

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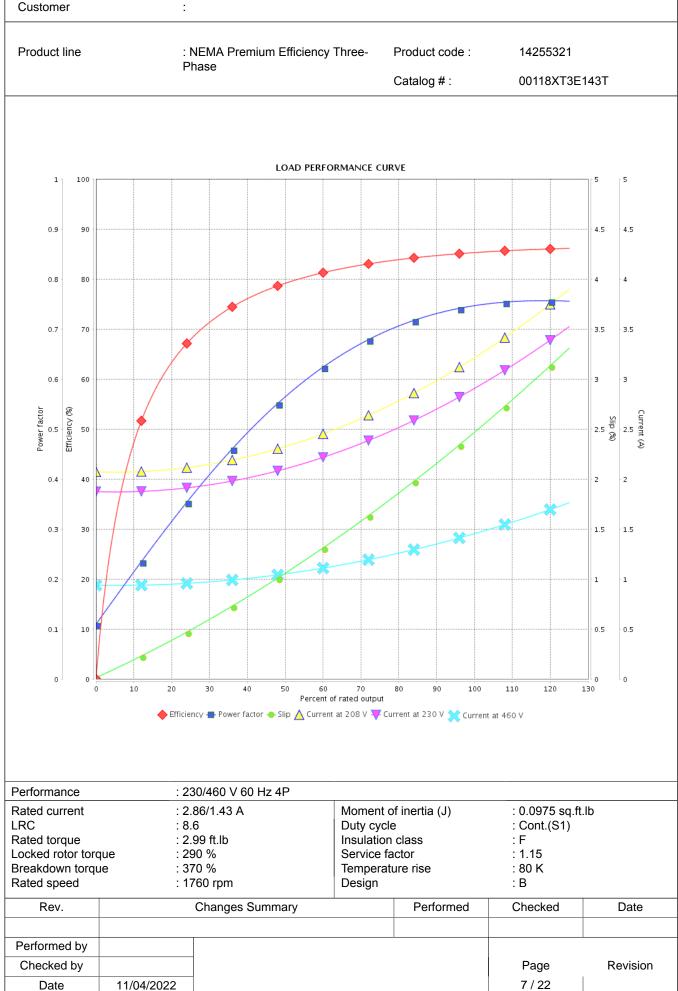
Customer

	: NEMA Premium Efficiency Three-		Product code :	14255321	
	FIIdSe		Catalog # :	00118XT3E	143T
	TORQUE AND CU	IRRENT VS SPI	EED CURVE		
					10
					9
					8
	•			*	
	•				7
					6
					Currei
					Current (pu)
				•	4
					з
					2
10 20	D 30 40	50	60 70	80 90	100
	Percent of	synchronous spe	ed		
:	7.4	Duty cycle	е	: Cont.(S1)	
le :	250 %	Service fa	actor	: 1.00	
		Temperate Design	ure rise	: 80 K : B	
:	: 36s (cold) 20s (hot)				
	Changes Summary		Performed	Checked	Date
				Page	Revision
e	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Phase TORQUE AND CU TORQUE AND CU TORQUE AND CU TORQUE AND CU AND	TORQUE AND CURRENT VS SP TORQUE AND CURRENT	Phase Catalog # : Catalog # :	Phase Catalog #: 0018XT3E1 TORQUE AND CURRENT VS SPEED CURVE TORQUE AND CURVE SPEED TORQUE AND CURVE SPEED



Three Phase Induction Motor - Squirrel Cage

Customer



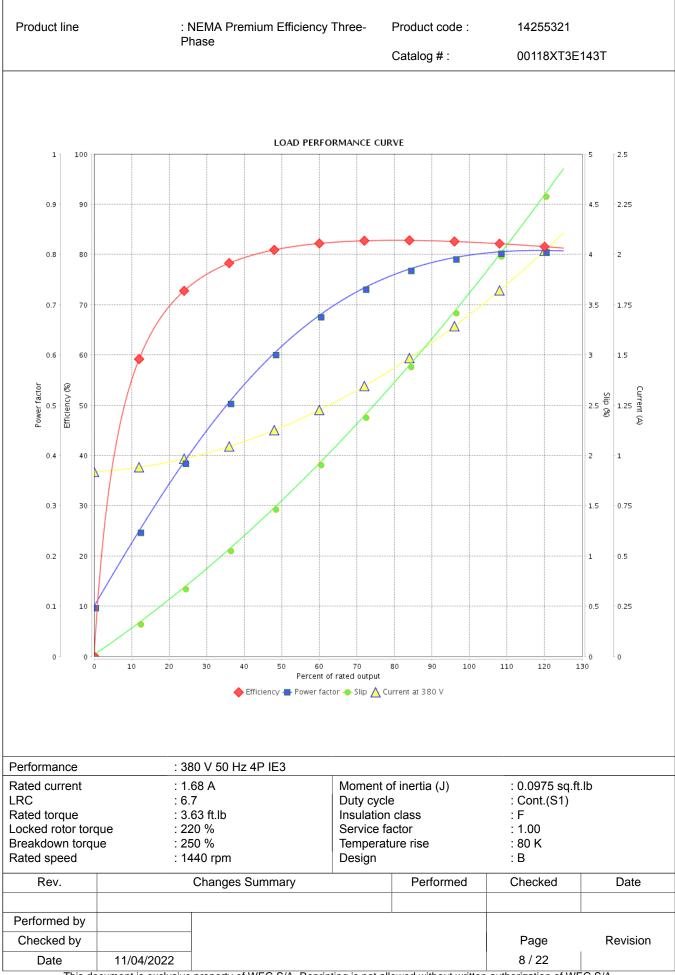
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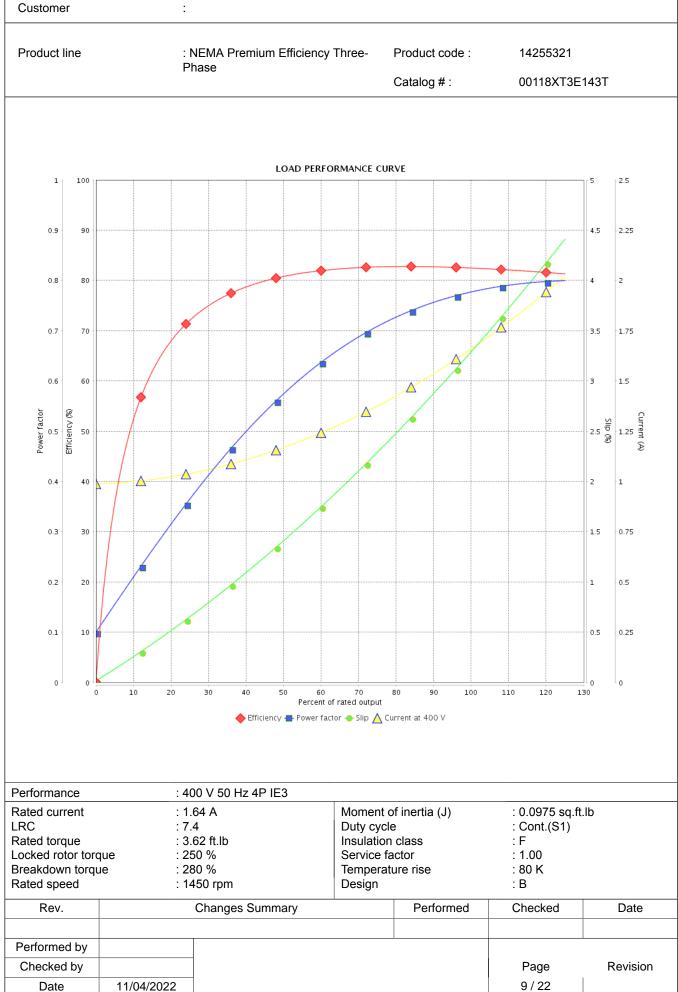


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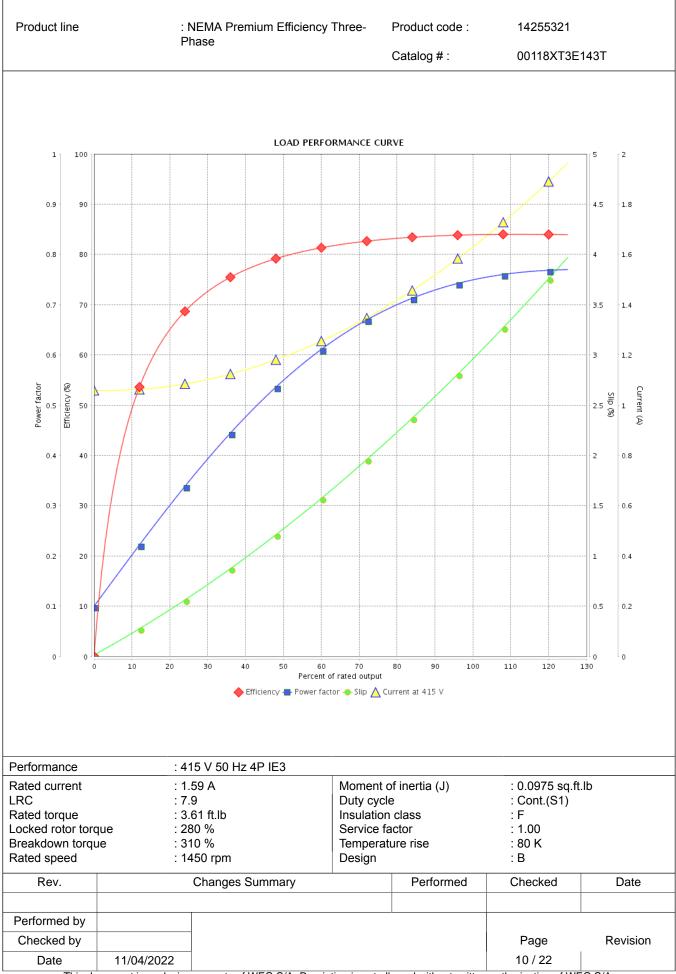
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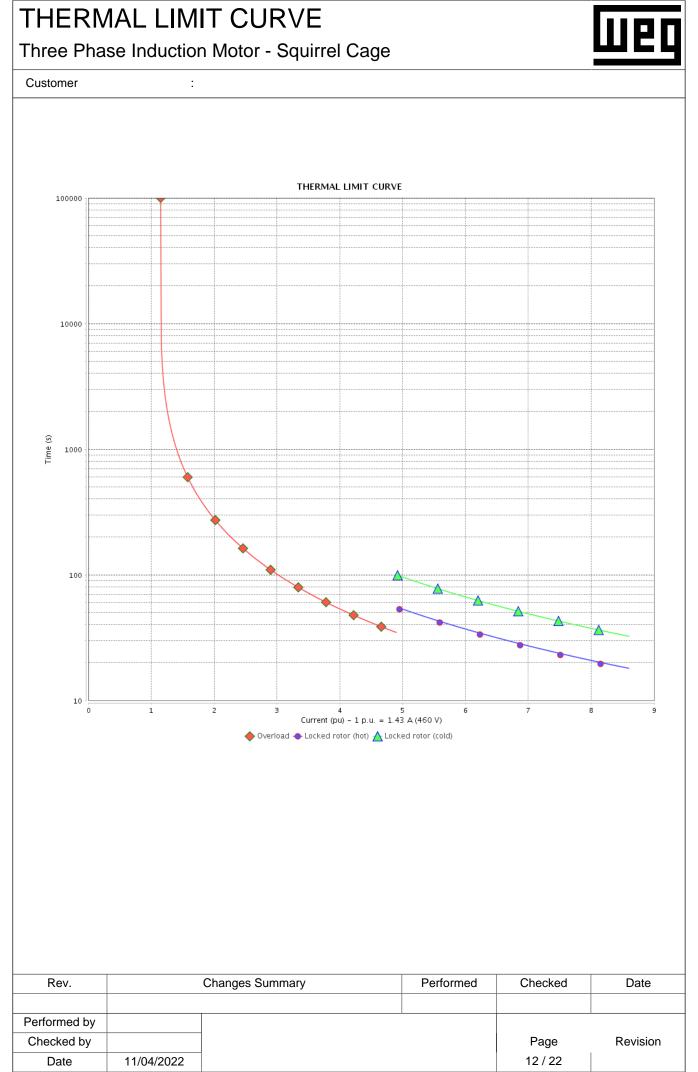
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14255321	
	Phase	Catalog # :	00118XT3E143T	

Шед

Performance	: 2:	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8. : 2. ue : 29 ie : 3 : 1	: 8.6 D : 2.99 ft.lb Ir : 290 % S : 370 % T		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
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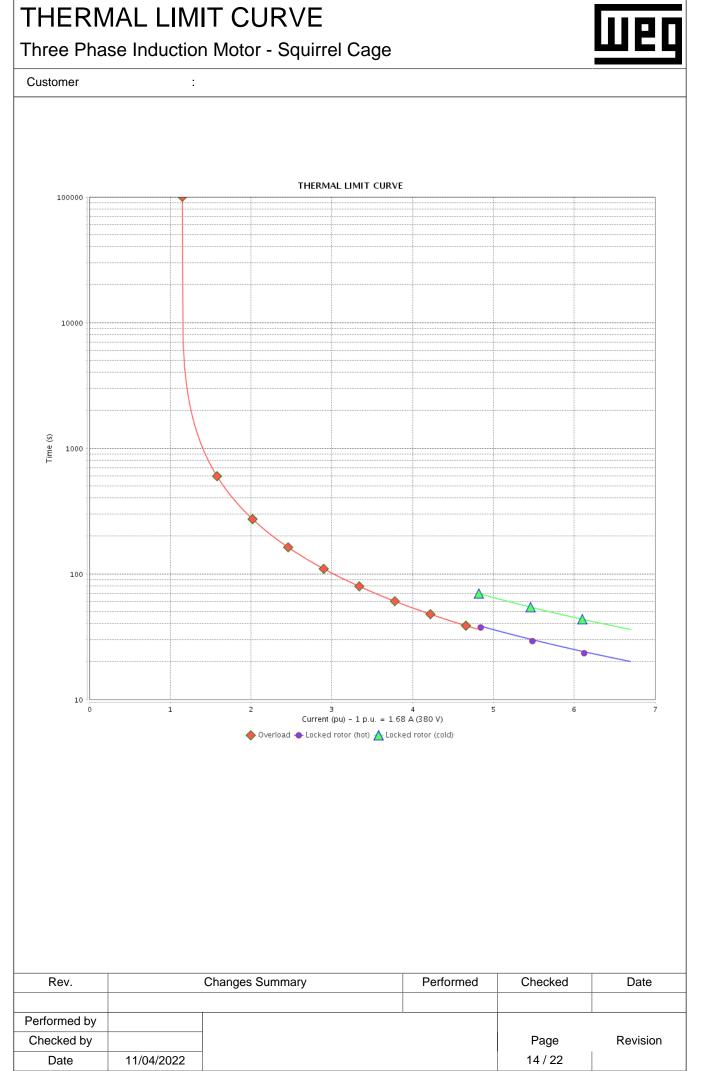
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14255321	
	Phase	Catalog # :	00118XT3E143T	

Шед

Performance	: 3	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 3 jue : 2 ie : 2	1.68 A 6.7 3.63 ft.lb 220 % 250 % 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0975 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
Heating constant	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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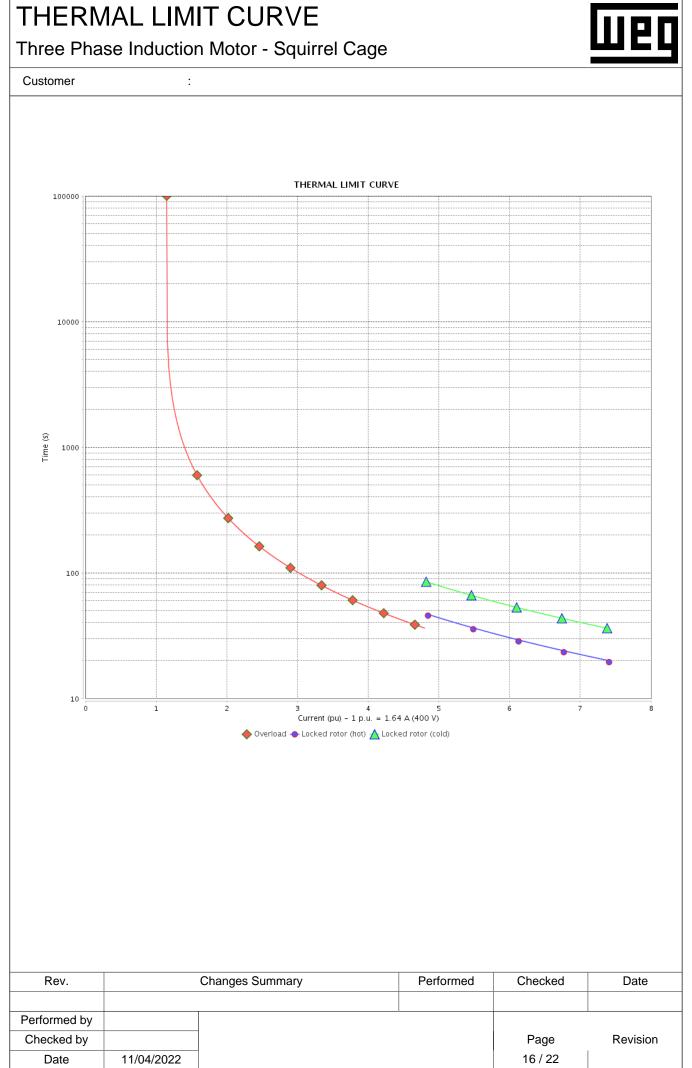
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14255321	
	Phase	Catalog # :	00118XT3E143T	

Шед

Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	jue :	1.64 A 7.4 3.62 ft.lb 250 % 280 % 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0975 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	b
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
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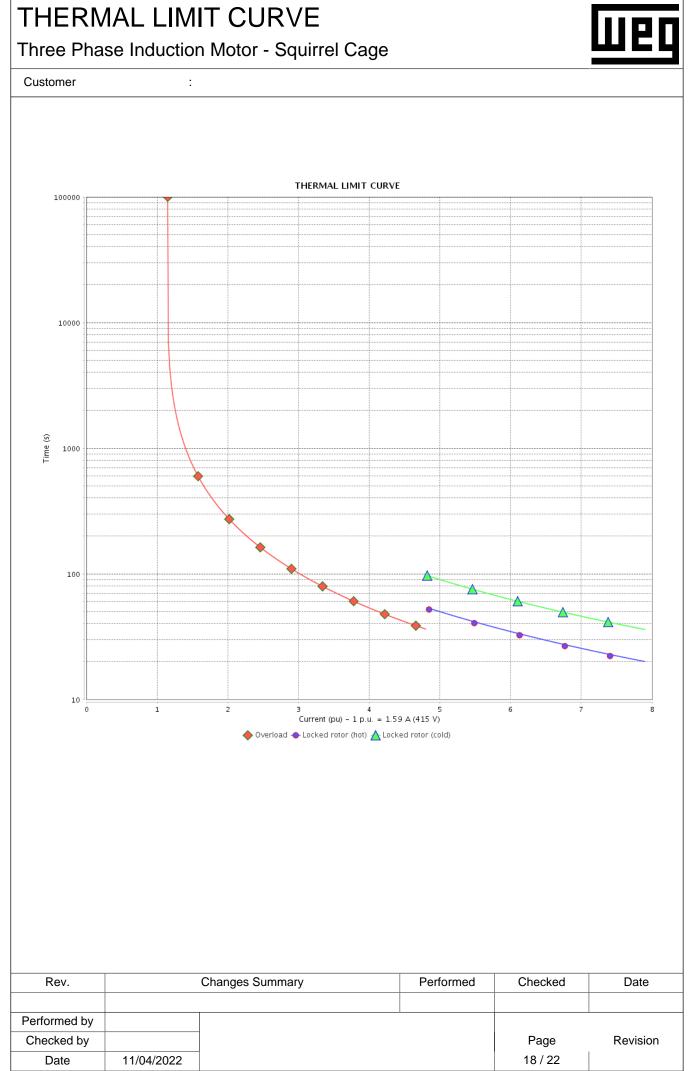
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14255321	
	Phase	Catalog # :	00118XT3E143T	

Шед

Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 3 jue : 26 ie : 3	59 AMoment of inert9Duty cycle61 ft.lbInsulation class90 %Service factor0 %Temperature ris50 rpmDesign		class ctor	: 0.0975 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
Cooling constant						
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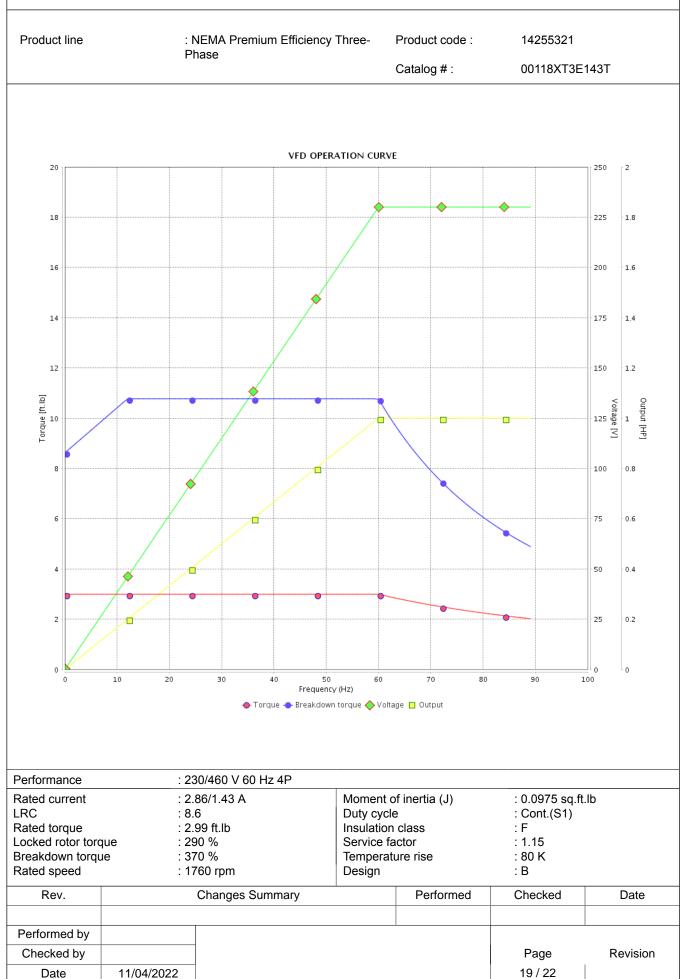
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VFD OPERATION CURVE

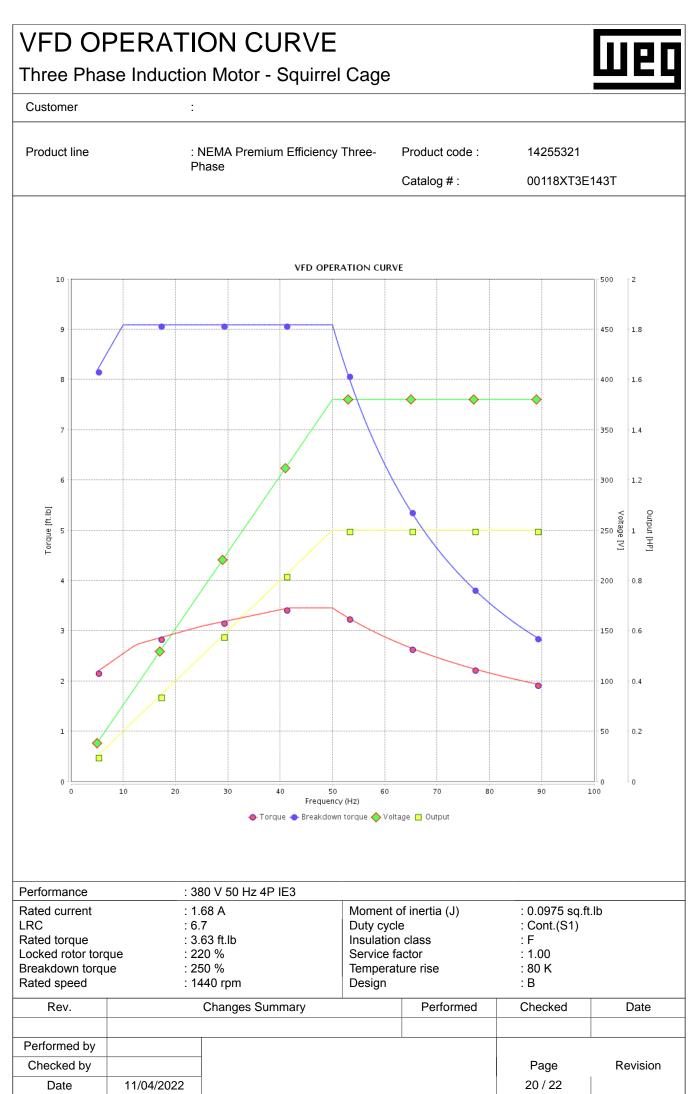
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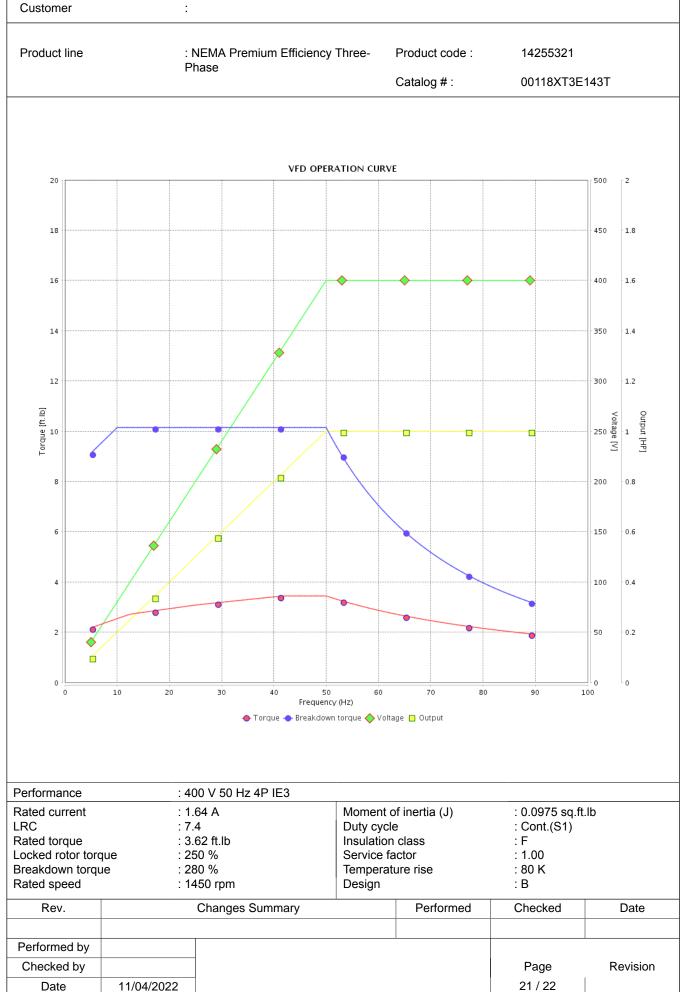


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VFD OPERATION CURVE

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