DATA SHEET

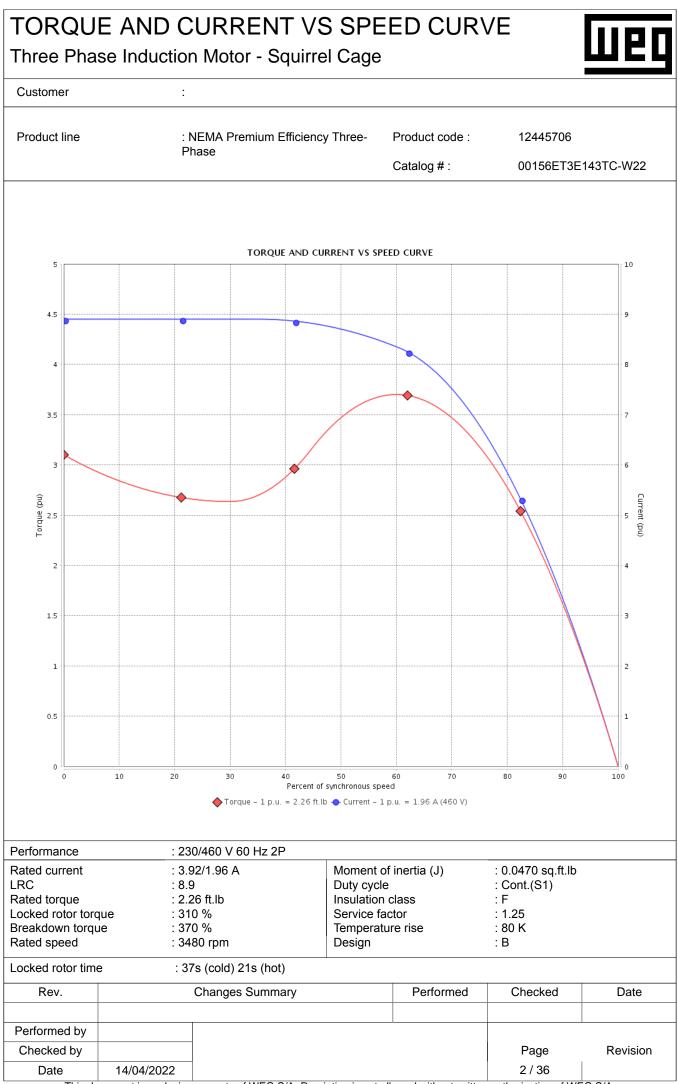
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Pre Phase	mium Efficier	ncy Thr	ee-	Product code		445706 156ET3E143 ⁻	TC-W/22
						-			10-1122
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre		: 143/5TC : F : Cont.(S1) : -20°C to + : 1000 m.a.s : IP55			Mounti Rotatio Starting Approx		: F : E : C : 4	C411 - TEFC -1 Both (CW and Direct On Line -6.4 lb 0.0470 sq.ft.lb	CCW)
Design		: B							
Output [HP]		1.5	1		1	1	1.5	1.5	1.5
Poles		2 60	2 50		2	2 50	2 50	2 50	2 50
Frequency [Hz] Rated voltage [V]		230/460	380	1	00	415	380	400	415
Rated current [A]		3.92/1.96	1.69	1	.66	1.65	2.36	2.24	2.21
L. R. Amperes [A]		34.9/17.4	15.5		6.1	16.8	15.8	16.6	17.5
LRC [A]		8.9x(Code L)	9.2x(Code M)	9.7x((Code M)			7.4x(Code J)	
No load current [A]	1.66/0.830	0.780		840	0.900	0.780	0.840	0.900
Rated speed [RPN		3480	2905		915	2920	2835	2860	2870
Slip [%]		3.33	3.17		.83	2.67	5.50	4.67	4.33
Rated torque [ft.lb]		2.26	1.81	1	.80	1.80	2.78	2.75	2.74
Locked rotor torqu		310	340	1	80	420	220	260	280
Breakdown torque	e [%]	370	390		40	480	260	290	310
Service factor		1.25 80 K	1.25 80 K		.25) K	1.25 80 K	1.25 80 K	1.25 80 K	1.25 80 K
Temperature rise Locked rotor time		37s (cold) 21s (hot)	27s (cold) 15s (hot)	27s ((cold) (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²		68.0 dB(A)			<u> </u>				
	25%	81.1	79.9	1	8.4	77.9	80.6	81.6	81.7
Efficiency (%)	50%	81.5	80.5	1	9.3	78.9	81.0	82.0	82.0
	75%	84.0	83.2		2.8	82.7	81.5	82.5	82.5
	100%	84.0	83.4	1	3.4	83.4	81.5	82.5	82.5
	25% 50%	0.43	0.39 0.63		.35	0.33 0.55	0.51 0.75	0.46	0.43
Power Factor	50% 75%	0.68	0.63		.58 .71	0.55	0.75	0.70	0.67
	100%	0.78	0.74		.71	0.08	0.87	0.80	0.78
Bearing type Sealing	100 /8	<u>Drive end</u> : 6205 ZZ : V'Ring	Non drive	<u>end</u> F ZZ N	Founda Max. tra	tion loads	: 5 [°] : 9	1 lb	0.04
Lubrication interv Lubricant amoun Lubricant type		: -	- - I Polyrex EM						
Notes USABLE @208V	4.20A SF 1.								
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with t weight subjee ocess.	e shaft end. tolerance of +3	dB(A).	F				n tests with sinces stipulated	
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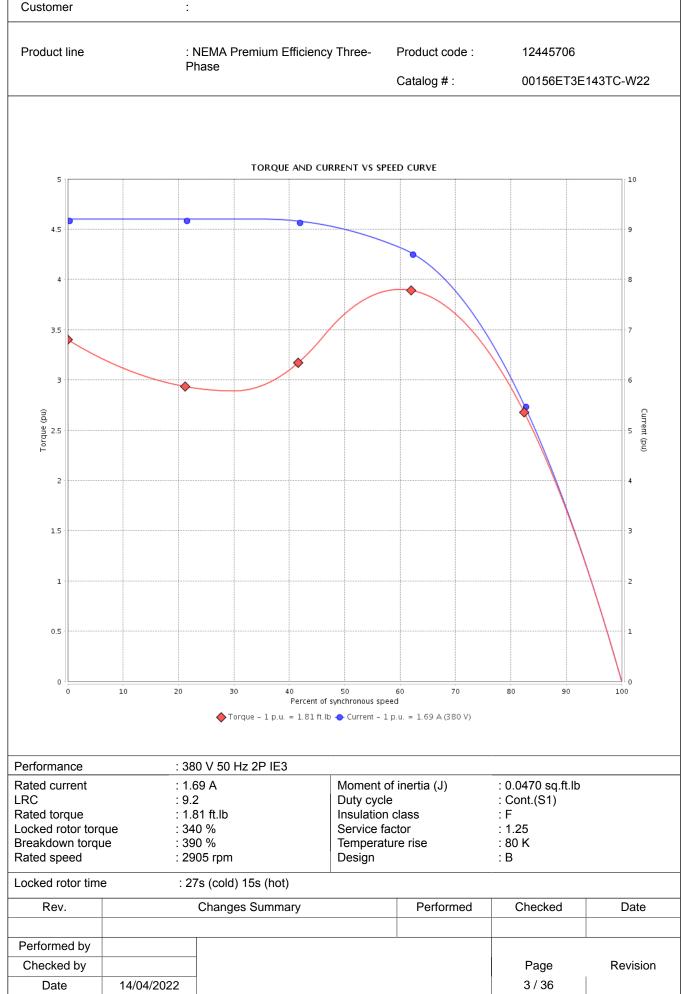
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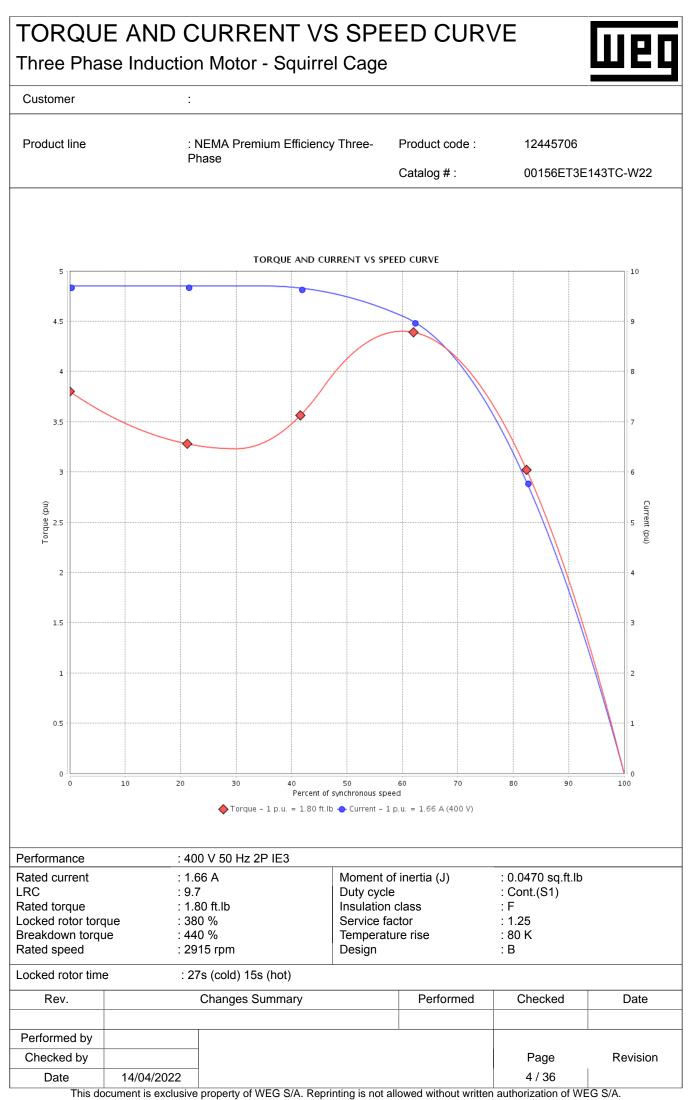
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



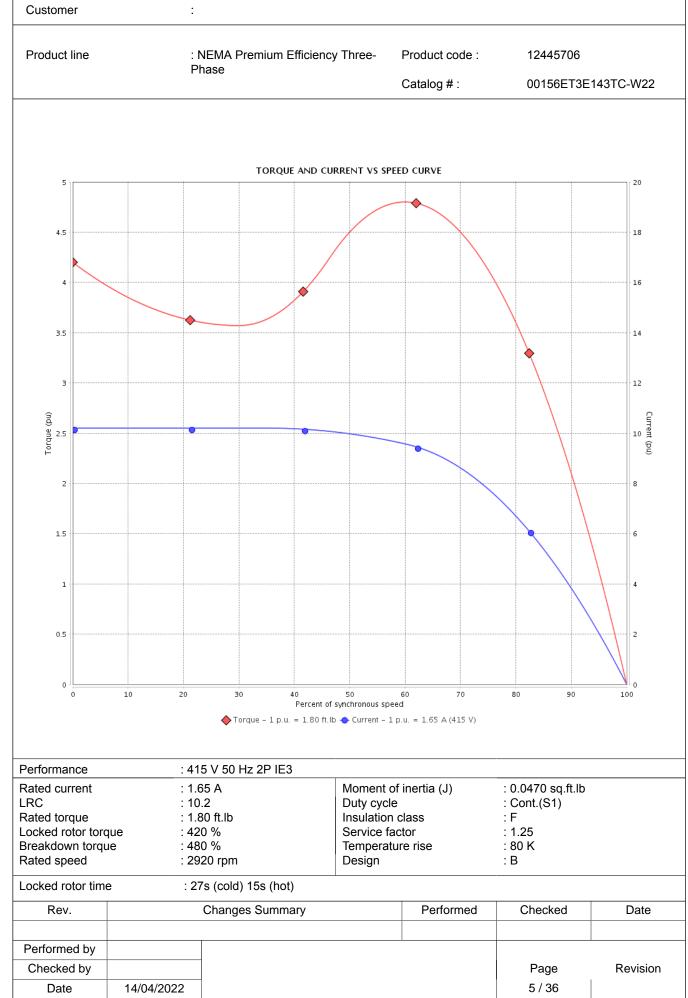
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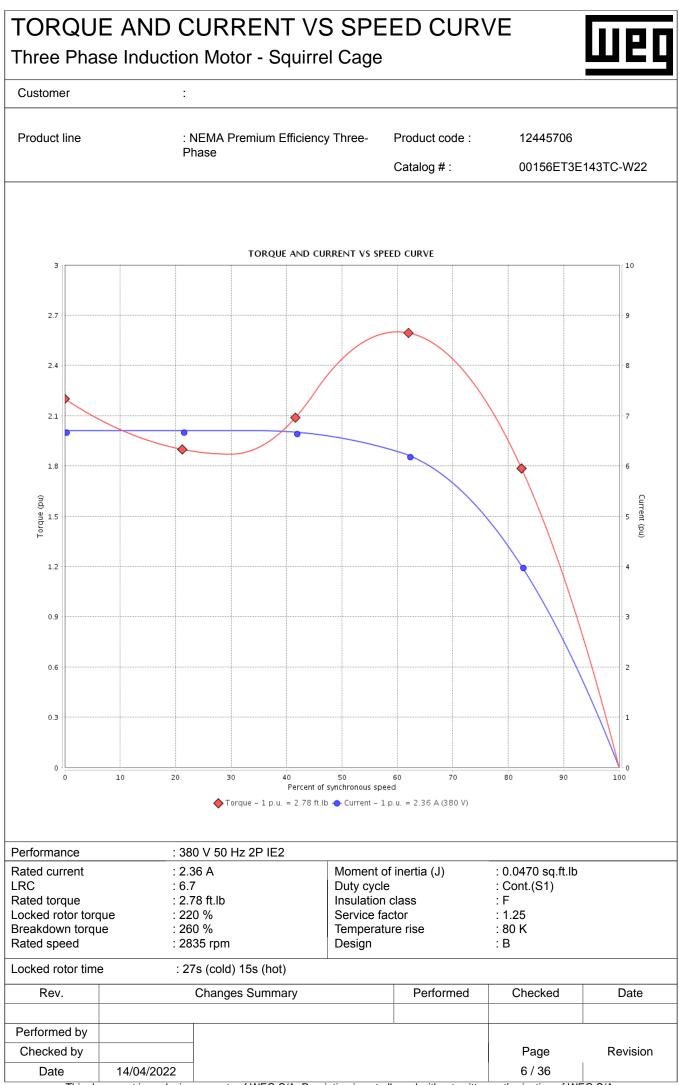
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

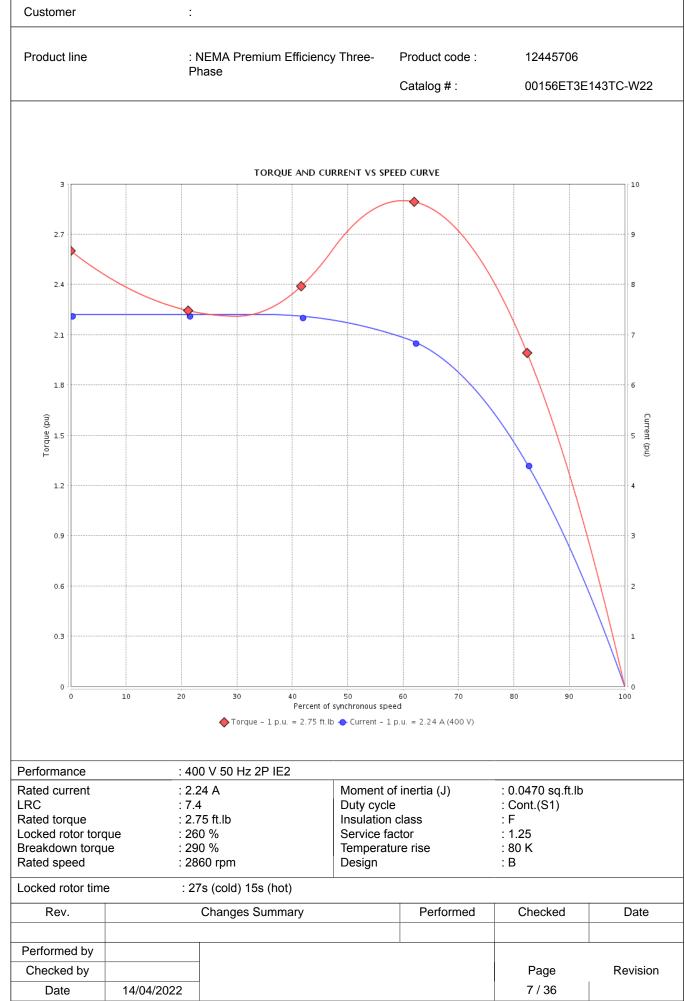


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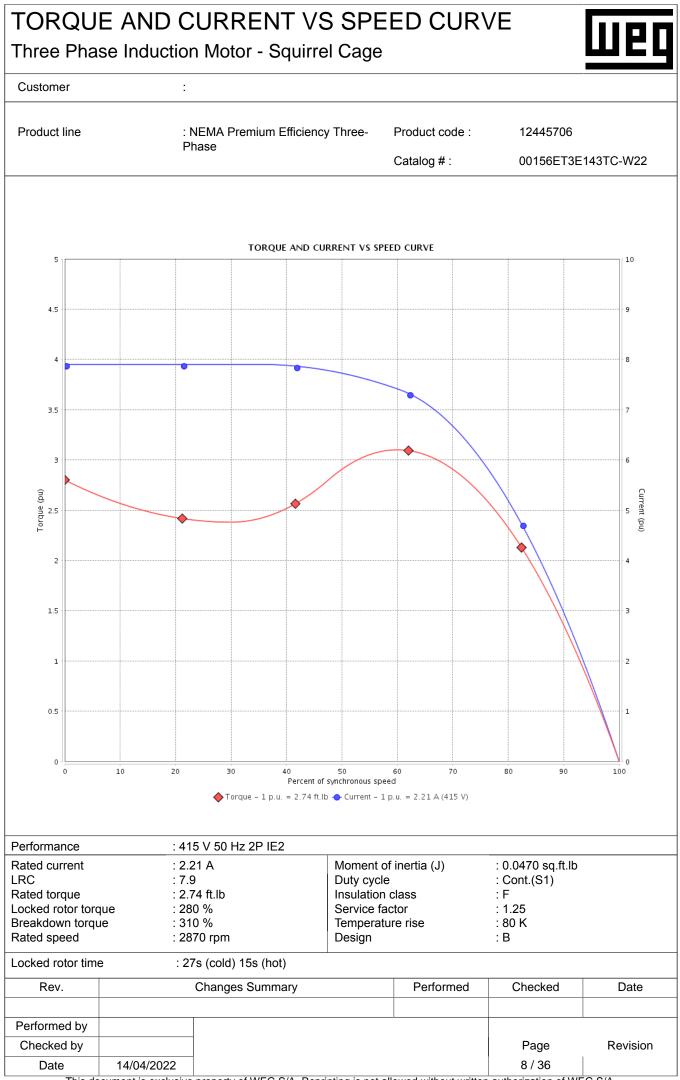


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

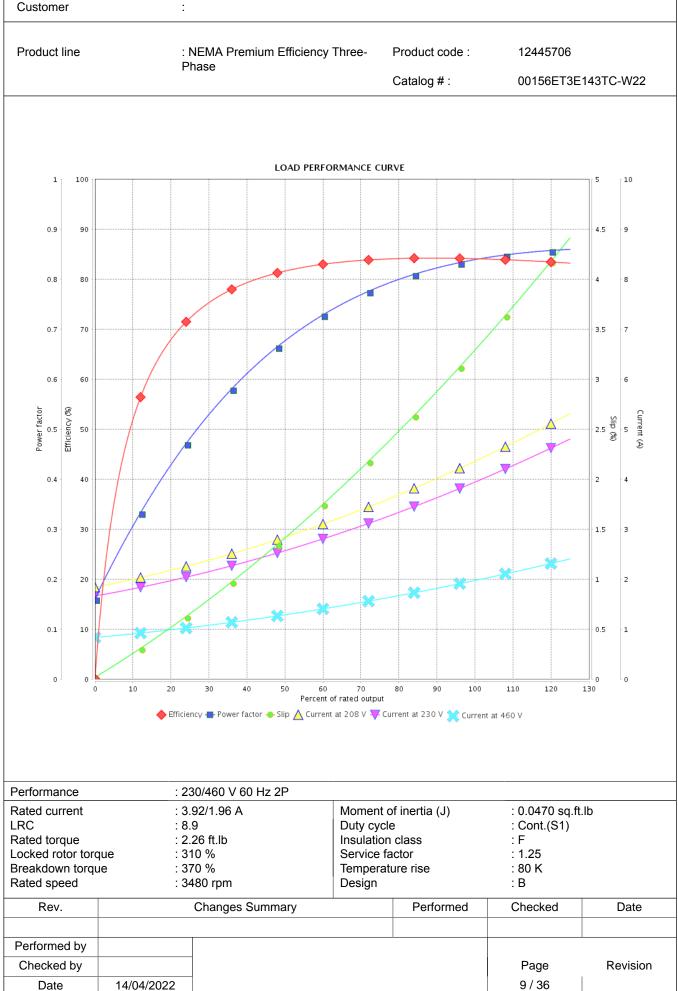


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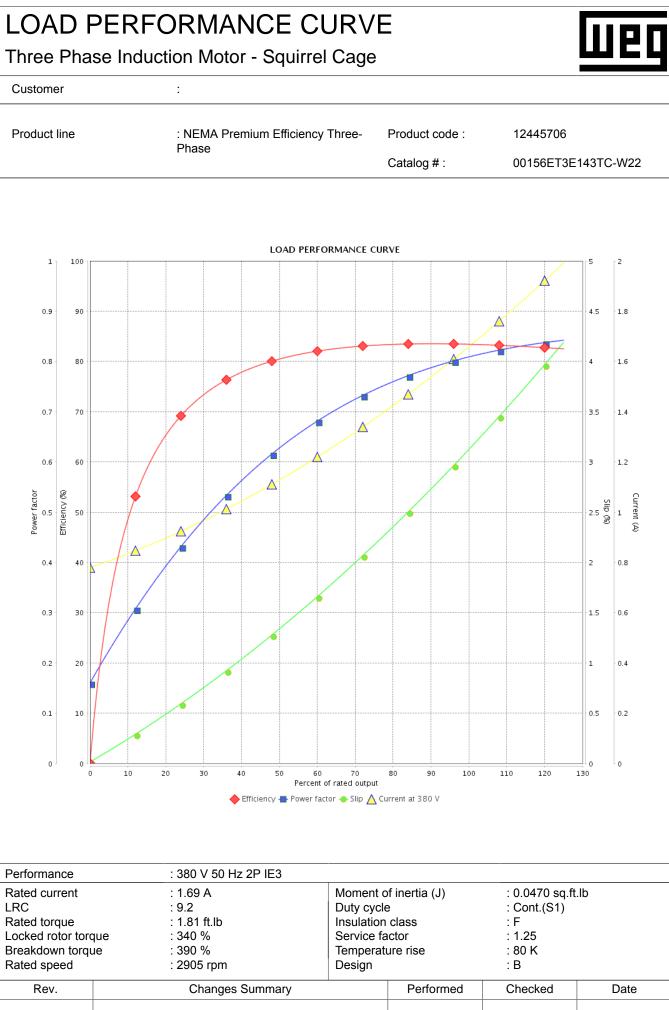


Three Phase Induction Motor - Squirrel Cage

Customer



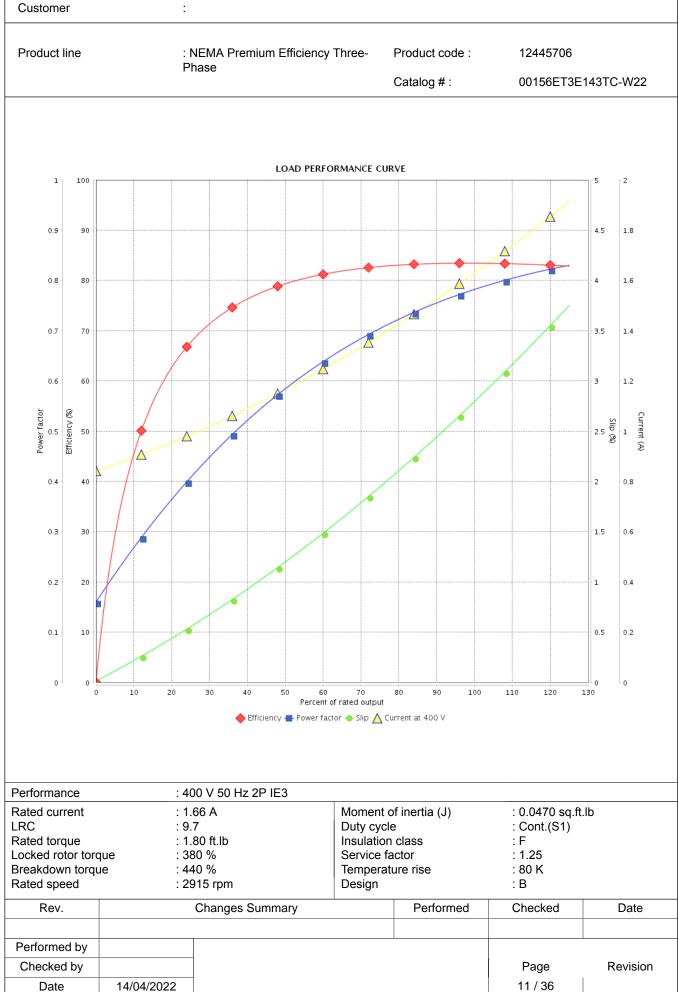
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Three Phase Induction Motor - Squirrel Cage

Customer



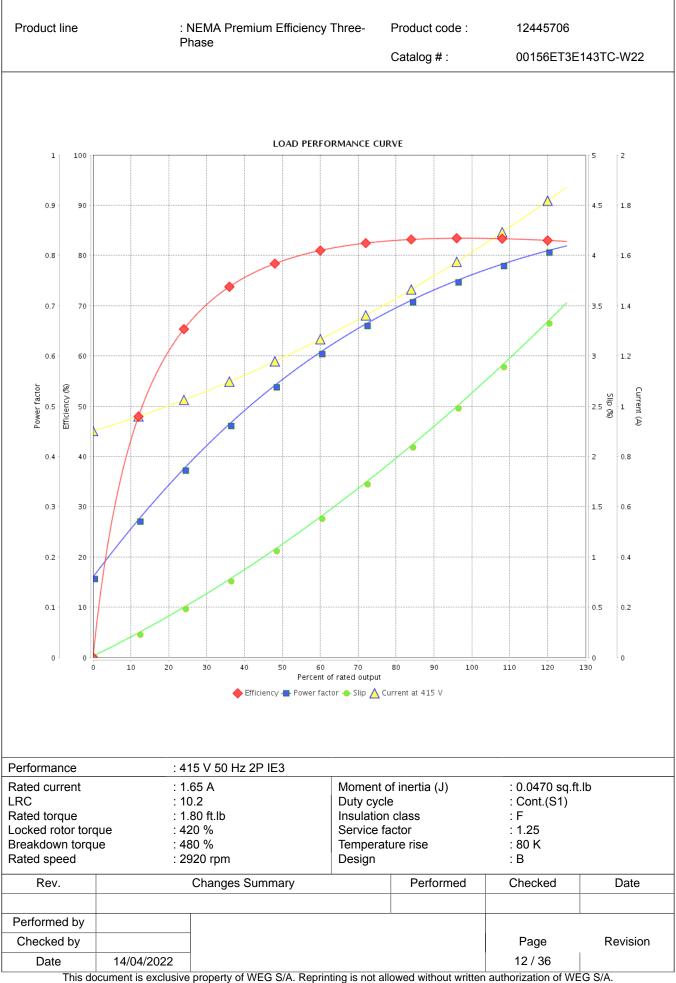
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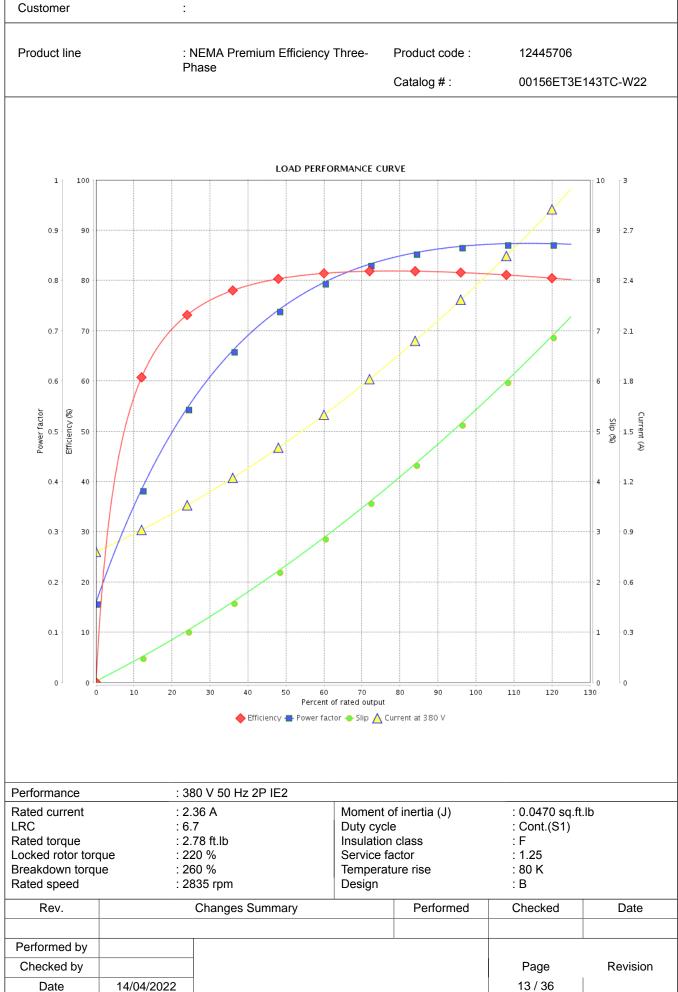


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Three Phase Induction Motor - Squirrel Cage

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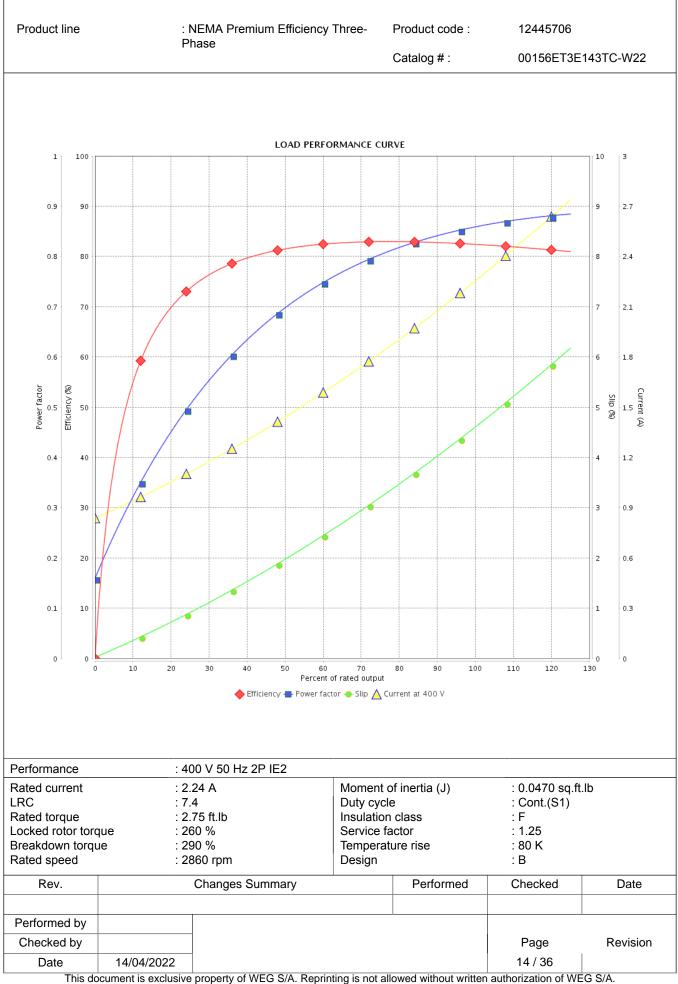
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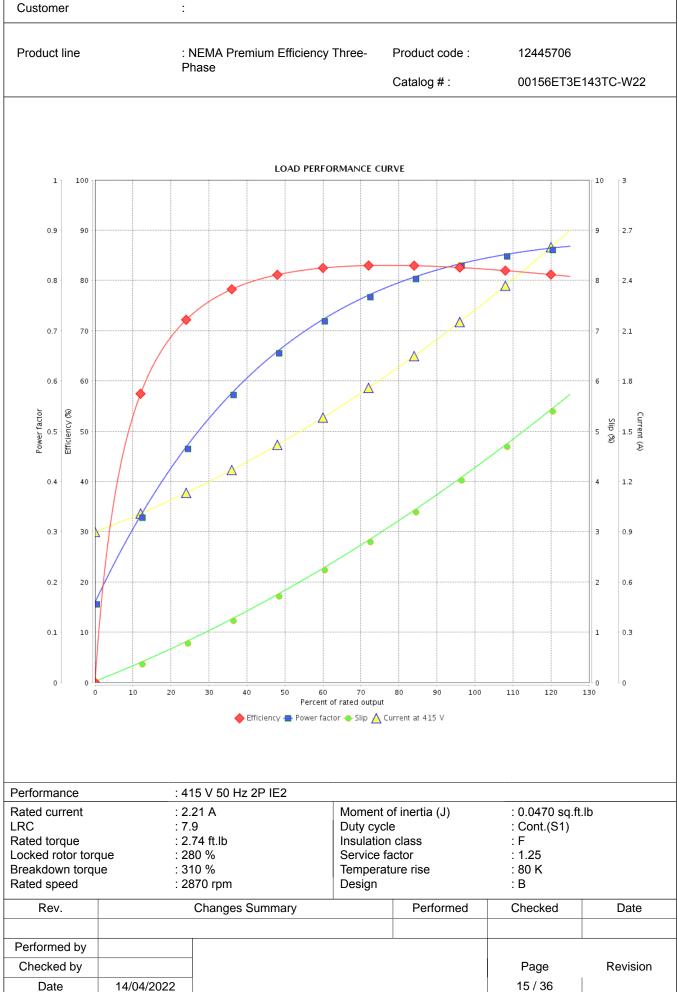


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Three Phase Induction Motor - Squirrel Cage

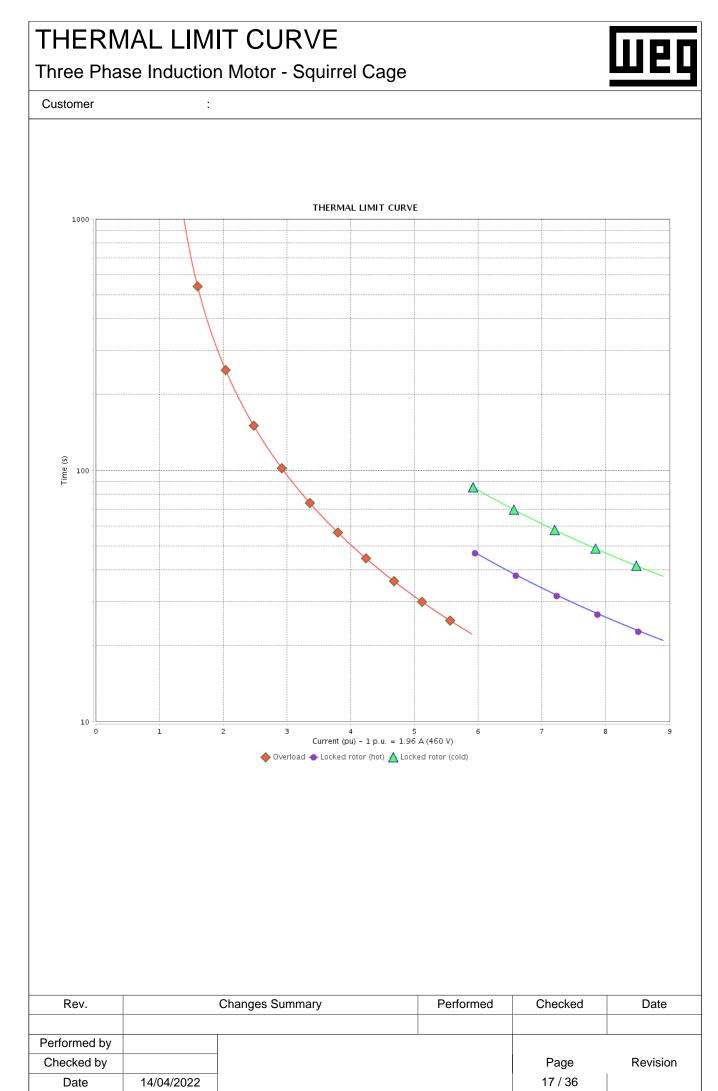
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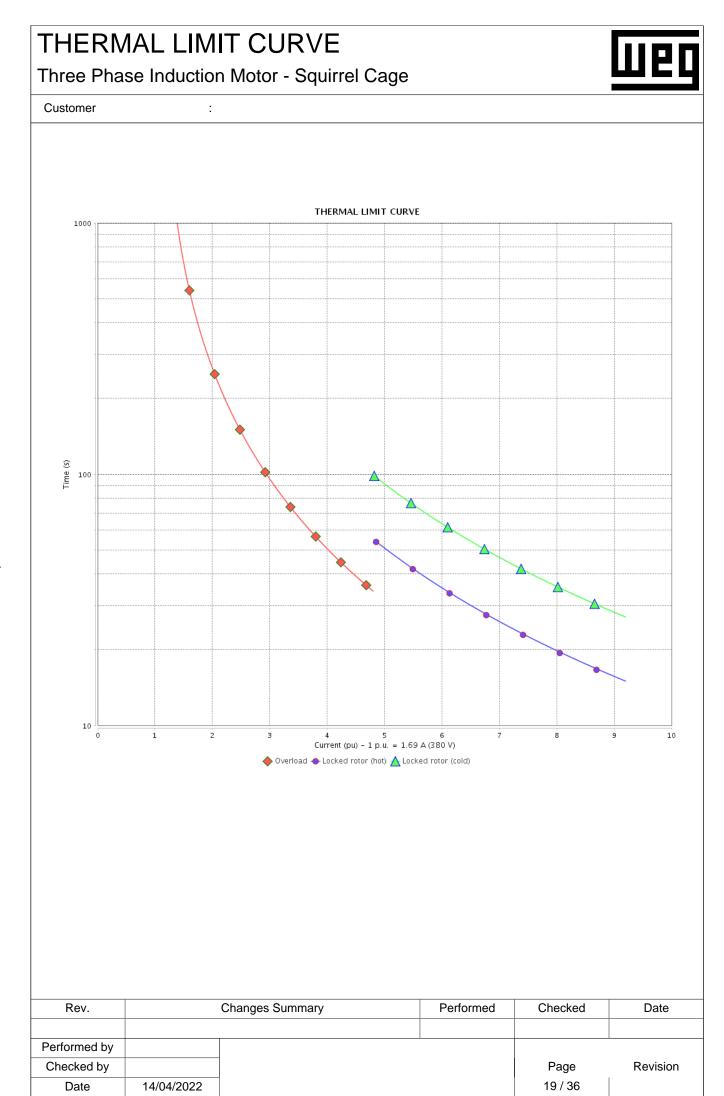
hree Phase Ir	duction Motor - Squirrel Cage)	ШВ
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	12445706
		Catalog # :	00156ET3E143TC-W22

Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 3	.92/1.96 A Moment of ir		f inertia (J)	: 0.0470 sq.ft	.lb
LRC	: 8			;	: Cont.(S1)	
Rated torque	: 2	.26 ft.lb	Insulation	class	:F	
Locked rotor tore	que : 3	10 %	Service fa	ctor	: 1.25	
Breakdown torqu	.e :3	70 %	Temperatu	ure rise	: 80 K	
Rated speed	: 3	480 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445706
	1 11450	Catalog # :	00156ET3E143TC-W22

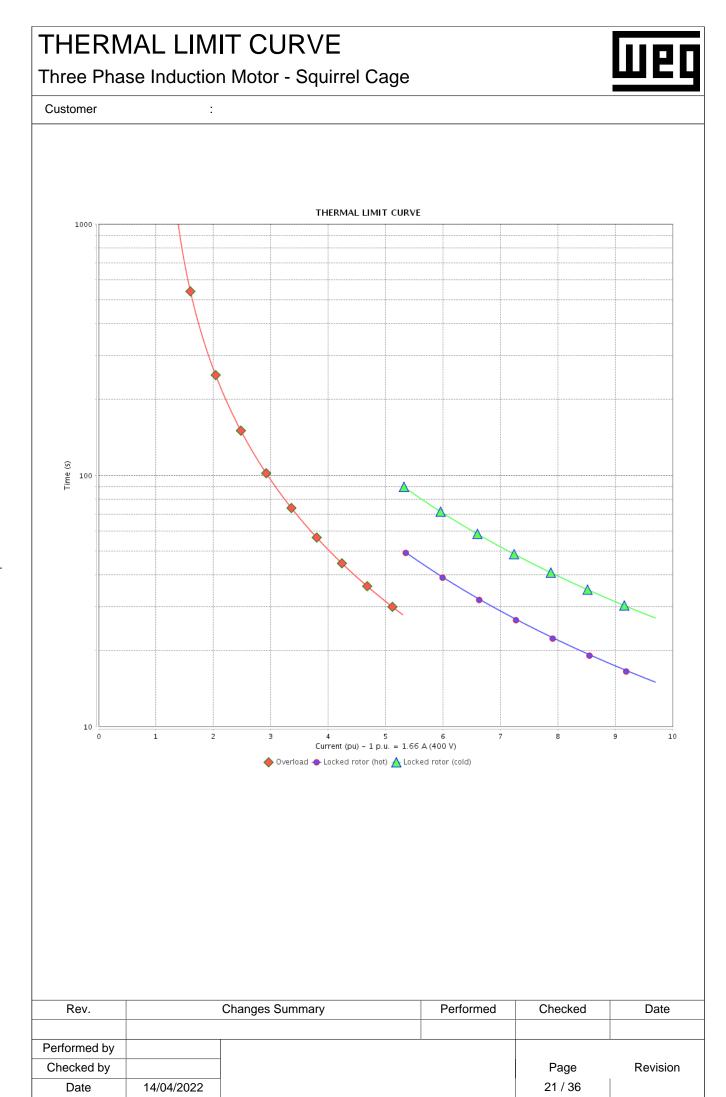
D (•					
Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1	.69 A Moment of ir		f inertia (J)	: 0.0470 sg.ft.lb	
LRC	: 9	.2	Duty cycle	· · /	: Cont.(S1)	
Rated torgue	: 1	.81 ft.lb	Insulation		:F ,	
Locked rotor toro	ue : 34	40 %	Service fa	ctor	: 1.25	
Breakdown torgu		90 %	Temperature rise		: 80 K	
Rated speed		905 rpm	Design		: B	
			Design			
Heating constant	t					
Cooling constant	t					
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roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12445706 00156ET3E143TC-W22

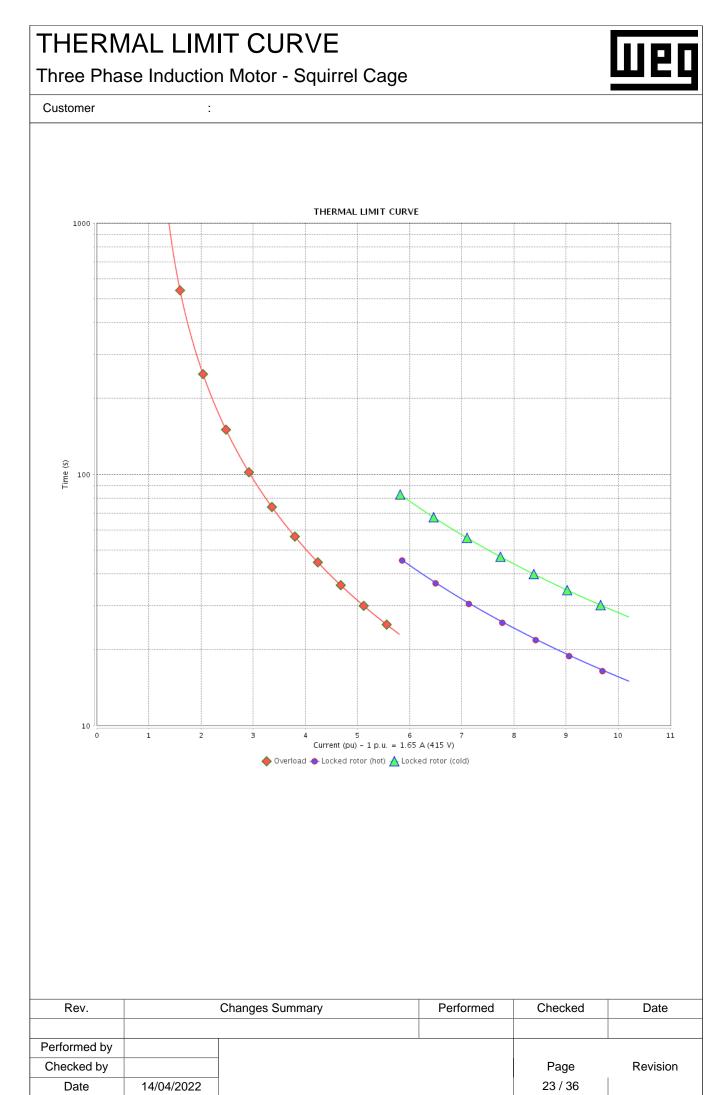
Performance	: 40	00 V 50 Hz 2P IE3					
Rated current LRC	: 1. : 9.			Moment of inertia (J): 0.0470 sDuty cycle: Cont.(S)			
Rated torque	: 1.	.80 ft.lb	Insulation	class	: F		
Locked rotor torc	que : 38	80 %	Service fa	ctor	: 1.25		
Breakdown torqu	ue : 44	40 %	Temperati	ure rise	: 80 K		
Rated speed	: 29	915 rpm	Design		: B		
Heating constant	t						
Cooling constant	t						
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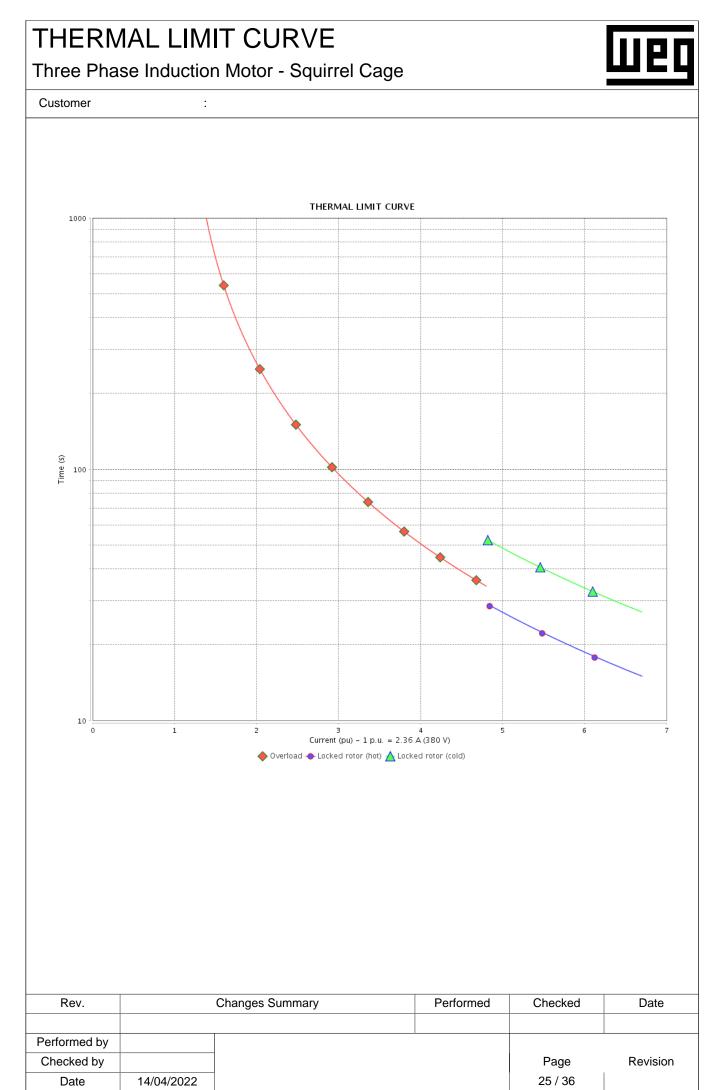
	LIMIT CURVE	9	шес
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12445706 00156ET3E143TC-W22
			00130E13E1431C-W22

Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 1	.65 A	Moment of inertia (J)		: 0.0470 sq.ft.lb	
LRC	: 1	0.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	.80 ft.lb	Insulation	class	: F	
Locked rotor tor	que :4	20 %	Service fa	ctor	: 1.25	
Breakdown torqu	ue :4	80 %	Temperature rise		: 80 K	
Rated speed	: 2	920 rpm	Design		: B	
Heating constan	t					
Cooling constan	t					
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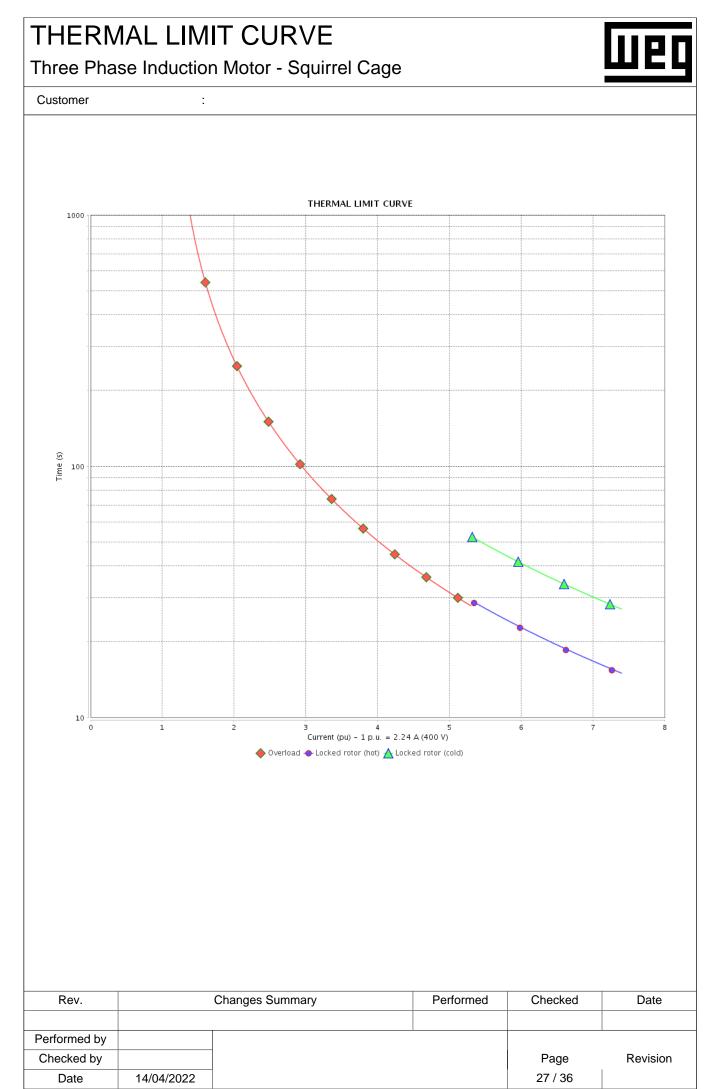
ustomer	:		
oduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12445706 00156ET3E143TC-W2

Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	: 2	36 A Moment o		Moment of inertia (J)		lb
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	.78 ft.lb	Insulation	class	:F	
Locked rotor torc	jue : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 2	60 %	Temperature rise		: 80 K	
Rated speed	: 2	835 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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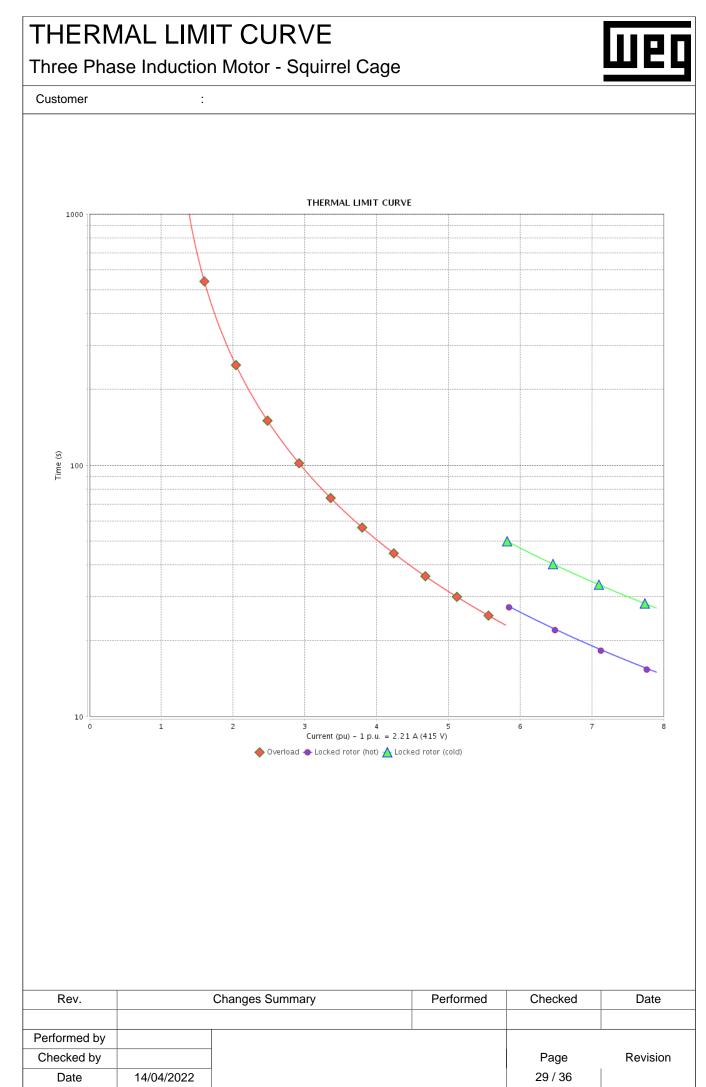
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roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12445706 00156ET3E143TC-W2

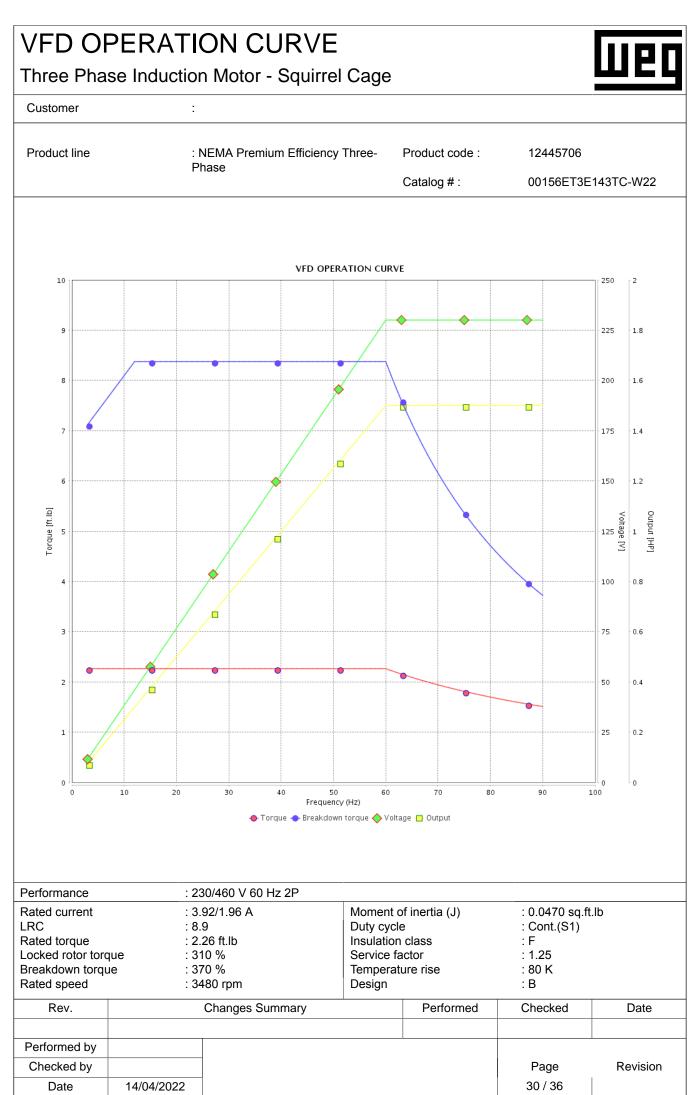
Performance	: 4	400 V 50 Hz 2P IE2				
Rated current	ated current : 2.24 A		Moment of inertia (J)		: 0.0470 sq.ft.lb	
LRC			Duty cycle		: Cont.(S1)	
Rated torque : 2.75 ft.lb		.75 ft.lb	Insulation class		: F	
Locked rotor torc	•		ctor	: 1.25		
Breakdown torque : 290 %		90 %	Temperature rise		: 80 K	
Rated speed	: 2	860 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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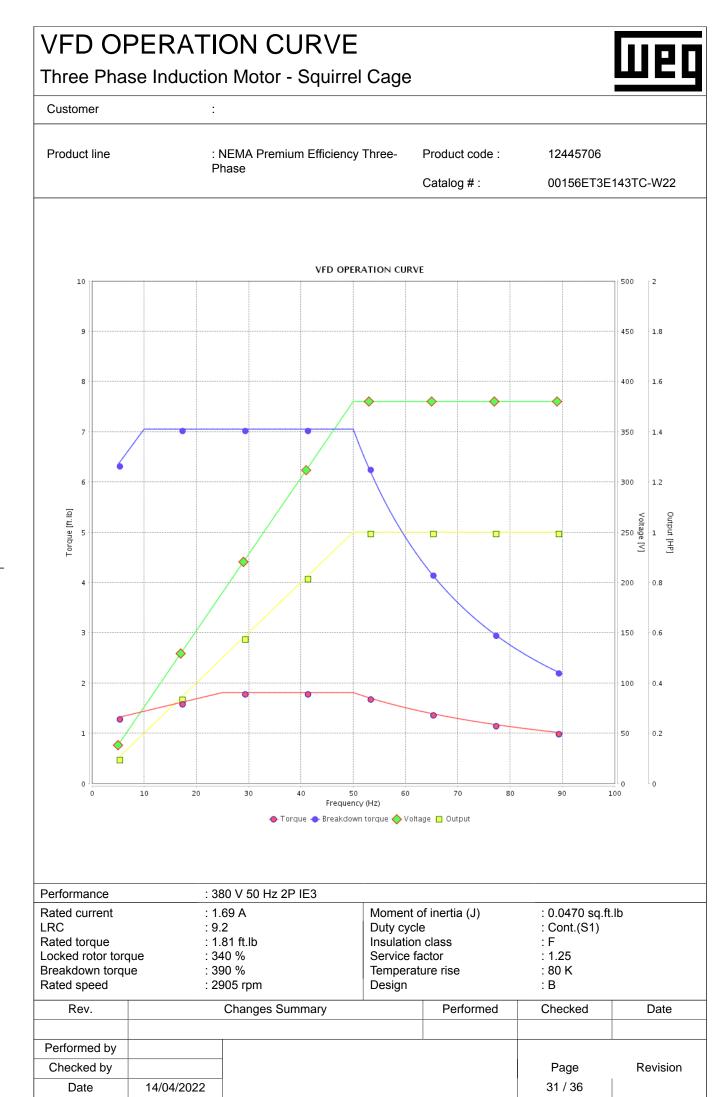


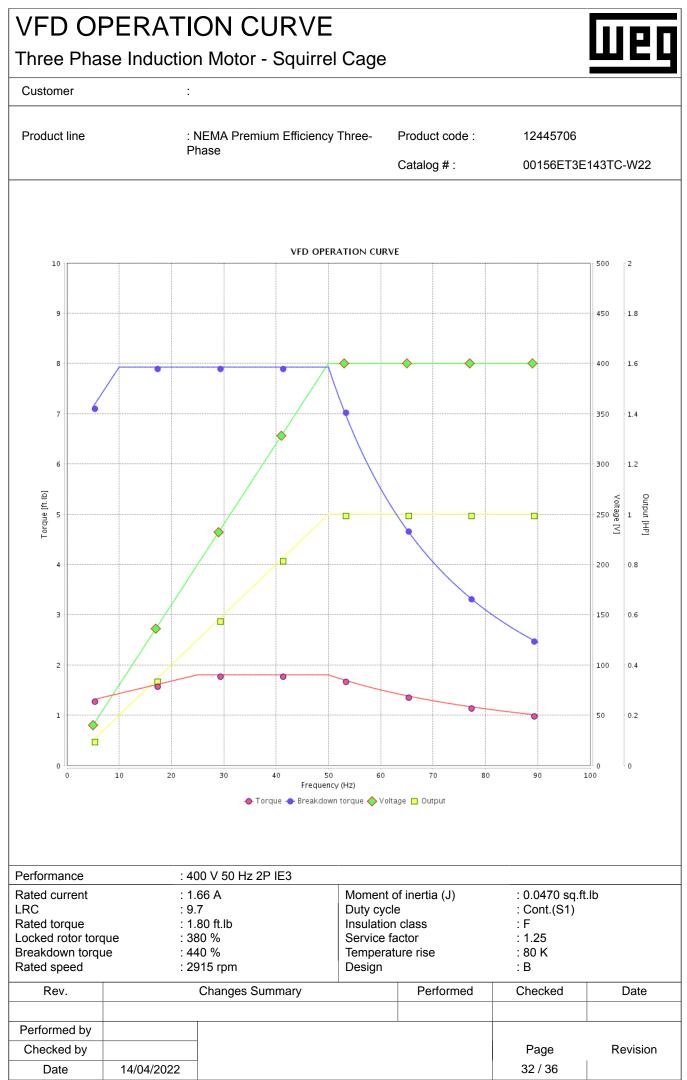
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Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445706	
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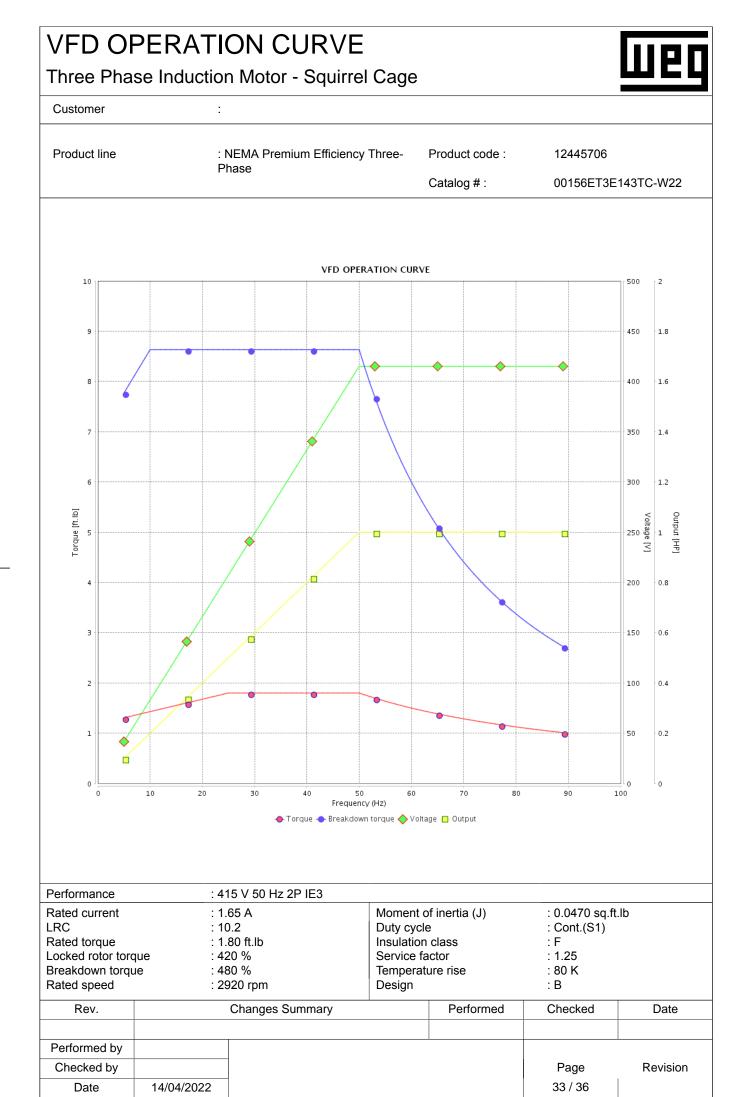
Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current : 2.21 A		Moment of inertia (J)		: 0.0470 sq.ft.lb		
LRC : 7.9		Duty cycle		: Cont.(S1)		
Rated torque : 2.74 ft.lb		.74 ft.lb	Insulation class		:F	
Locked rotor torque : 280 °		80 %	Service factor		: 1.25	
Breakdown torqu	down torque : 310 % Temperature rise		ure rise	: 80 K		
Rated speed	: 28	870 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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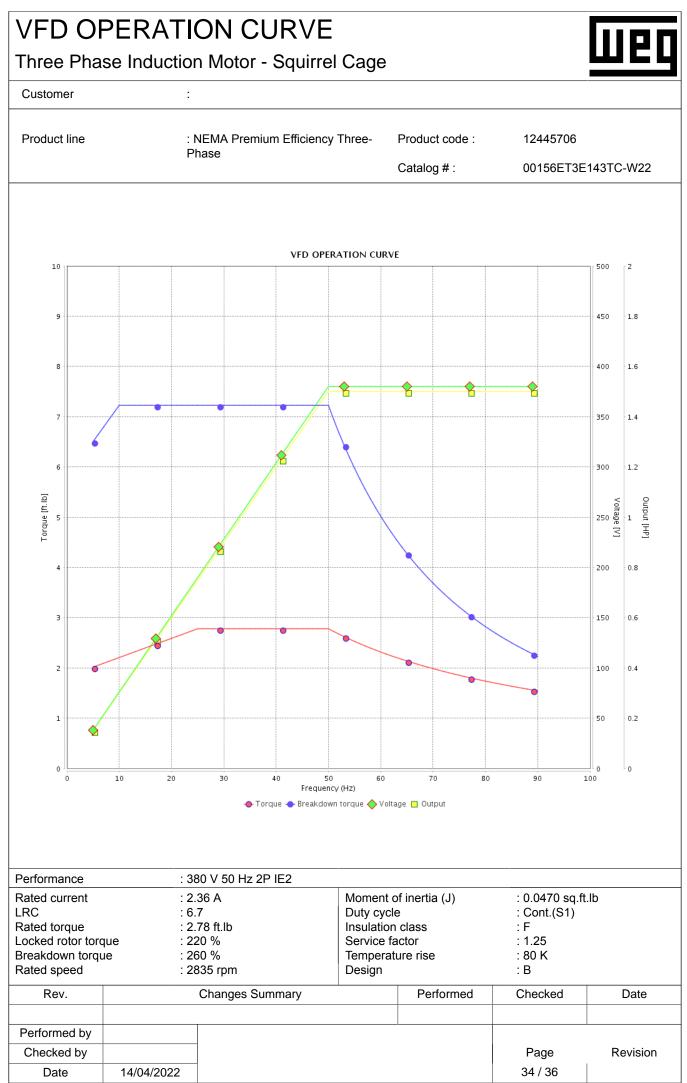


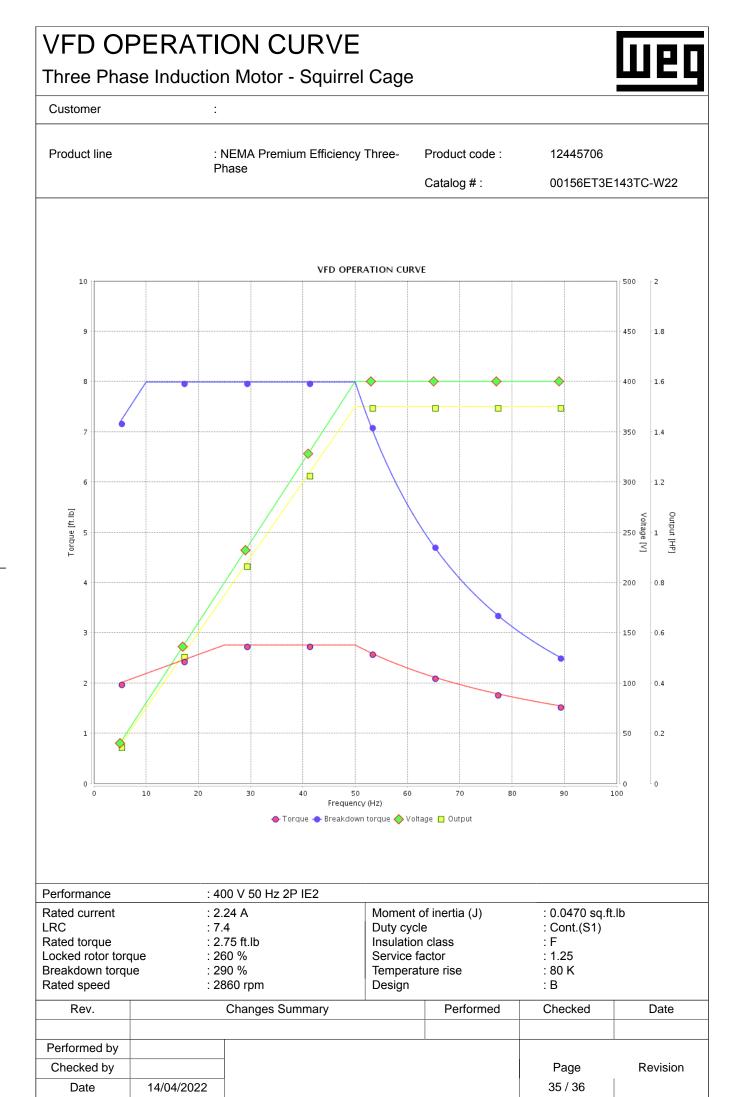




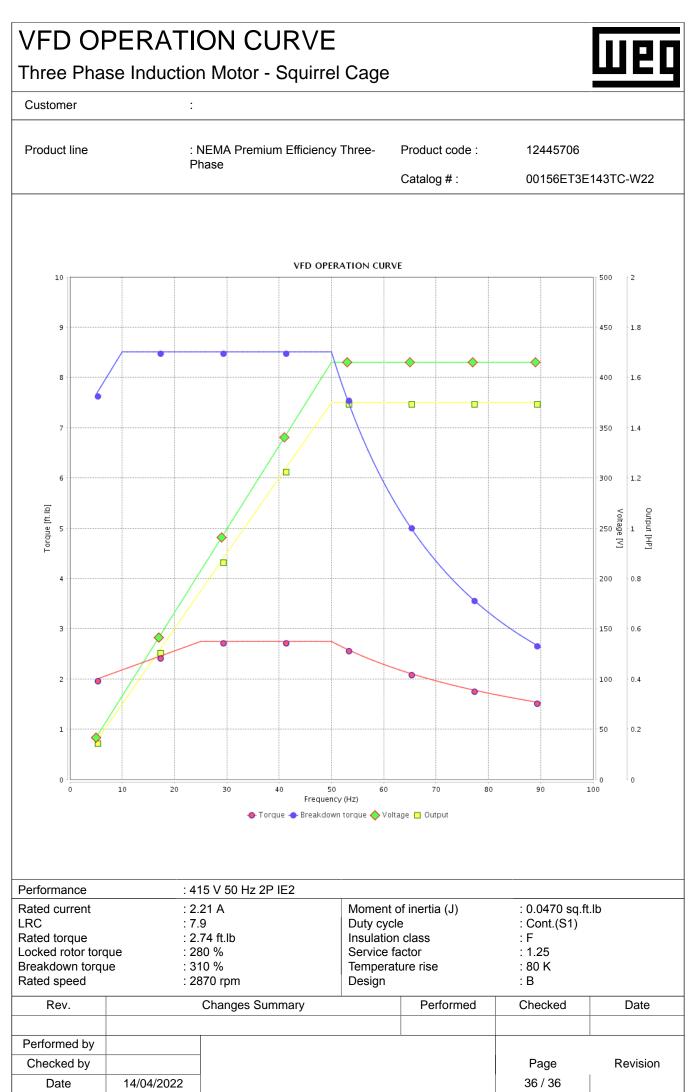


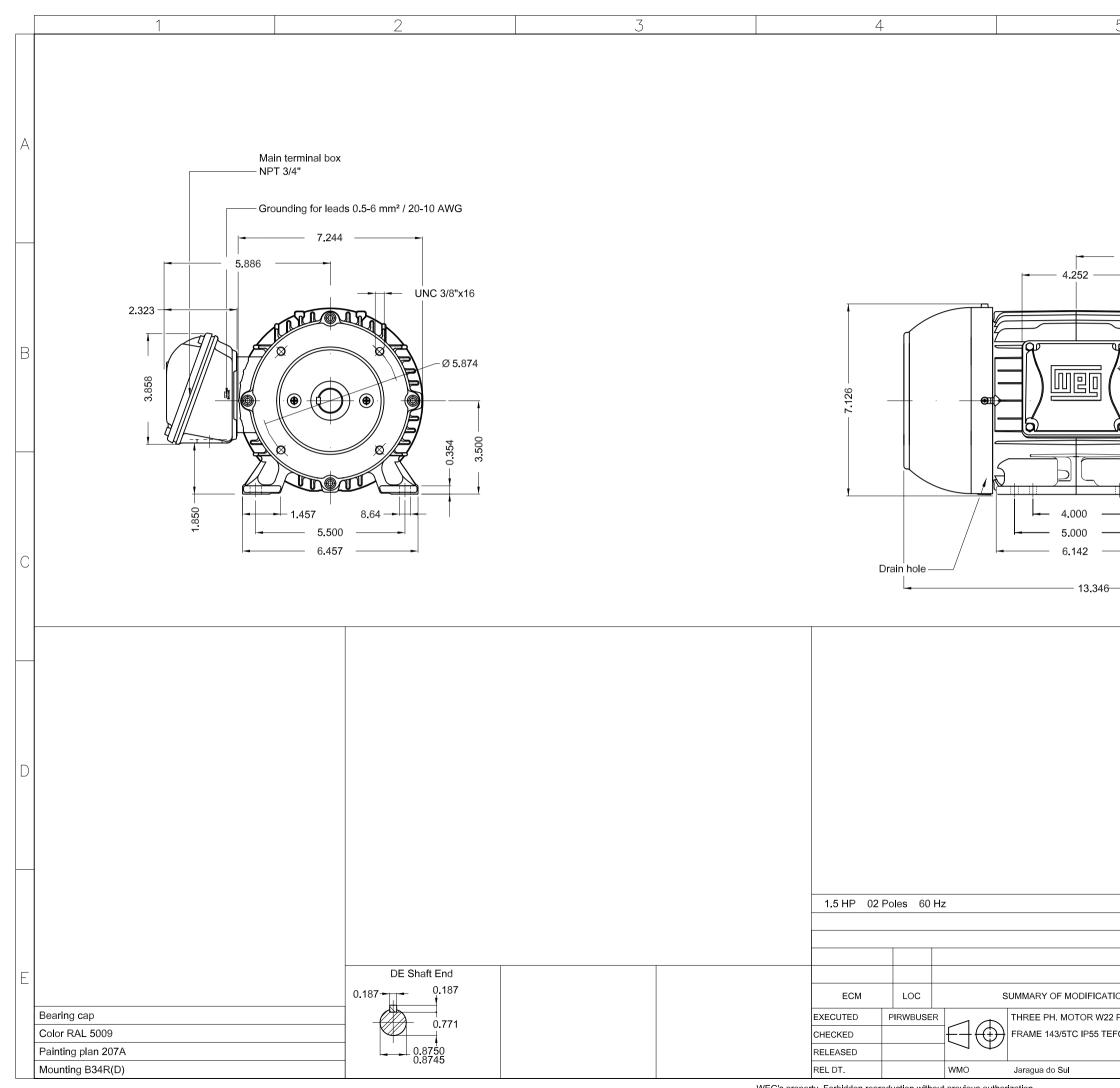






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	0.157	1.575 - 99 - 2.250 Drain hole	6.496			
					A	Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
PREM. EFF.		PREVI	EW			
FC		WDD		ШВ	D	A3
Product	t Engineering	SHEET	1 / 1			XME

