DATA SHEET

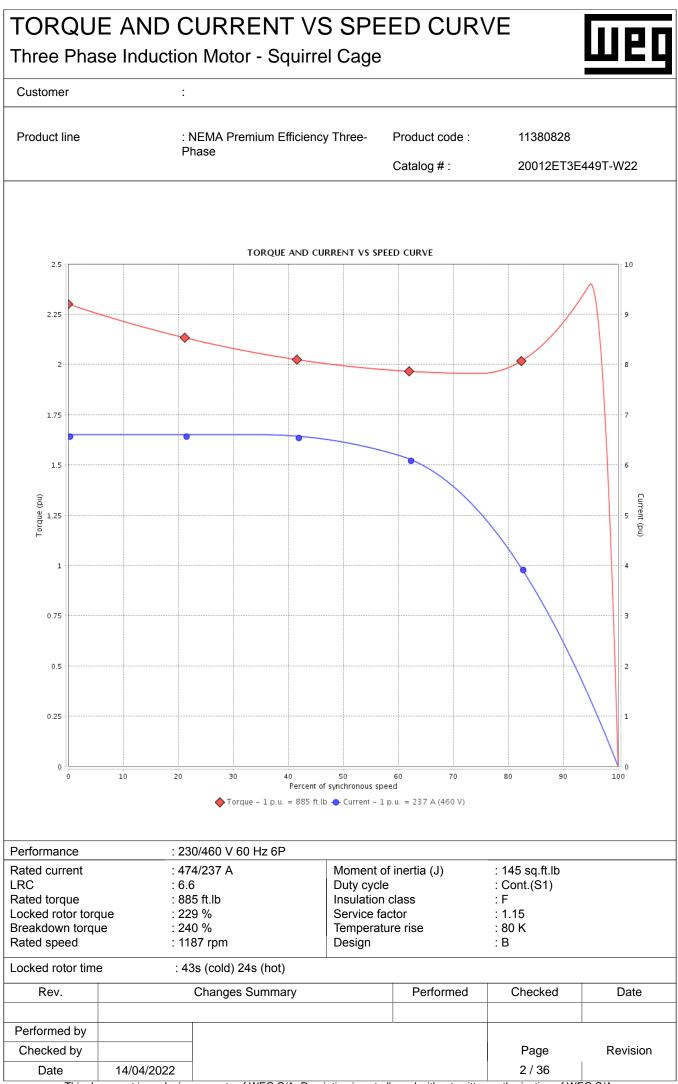
Three Phase Induction Motor - Squirrel Cage

:

Customer

Product line		: NEMA Premium Efficiency Three-			Product code	e: 11	380828	
		Phase			Catalog # :	20	012ET3E449	T-W22
Frame		: 447/9T			ing method		C411 - TEFC	
Insulation class		: F		Mou			-1	
Duty cycle		: Cont.(S1)	1000	Rota			Both (CW and	,
Ambient tempera	ature	: -20°C to +			ing method		Direct On Line	•
Altitude		: 1000 m.a.	S.I.		ox. weight ³		2.2 lb	
Protection degre	e	: IP55		Mom	ent of inertia (J)) :1	45 sq.ft.lb	
Design		: B						
Output [HP]		200	150	150	150	200	200	200
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		474/237	214	209	204	285	273	265
. R. Amperes [A]		3128/1564	1391	1505	1632	1482	1638	1749
_RC [A]		6.6x(Code	``	7.2x(Code	H)8.0x(Code J)	5.2x(Code E)		6.6x(Code
		G)	G)				G)	G)
No load current [A		180/90.0	85.0	90.0	95.0	85.0	92.0	95.0
Rated speed [RPN	/]	1187	988	990	990	980	983	985
Slip [%]		1.08	1.20	1.00	1.00	2.00	1.70	1.50
Rated torque [ft.lb		885	797	796	796	1070	1070	1070
Locked rotor torqu	ıe [%]	229	229	250	270	180	200	220
Breakdown torque	e [%]	240	260	280	310	190	210	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		43s (cold)	91s (cold)	50s (cold	46s (cold)	23s (cold)	25s (cold)	27s (cold)
		24s (hot)	51s (hot)	28s (hot)		13s (hot)	14s (hot)	15s (hot)
Noise level ²		70.0 dB(A)						1
	25%	94.5	94.4	94.4	94.4	94.8	94.4	93.4
Efficiency (%)	50%	95.0	94.5	94.5	94.5	94.5	94.5	94.0
	75%	95.4	95.1	95.1	95.1	94.5	94.5	94.5
	100%	95.8	95.1	95.1	95.1	94.0	94.5	95.0
	25%	0.44	0.41	0.39	0.36	0.51	0.47	0.45
Power Factor	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.68
	75%	0.79	0.76	0.74	0.71	0.83	0.81	0.79
	100%	0.83	0.82	0.80	0.79	0.85	0.84	0.83
		Drive end	Non drive	end Foun	dation loads			
Bearing type		: 6322 C3			traction	: 6!	537 lb	
Sealing		: WSeal	WSea	-	compression		539 lb	
Lubrication inter	val	: 11000 h				-		
Lubricant amour	nt	: 60 g	45 g					
Lubricant type			I Polyrex EM					
Notes USABLE @208V	′ 524A SF 1.(00 SFA 524A						
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate	ed. notor from the 1m and with t weight subjec	e shaft end. olerance of +3	3dB(A).		e are average va r supply, subjec			
manufacturing pr (4) At 100% of fu	ocess.					. 1		
Rev.		Changes	Summary		Performe	ed Che	ecked	Date
Performed by								
Checked by						Pa	age	Revision
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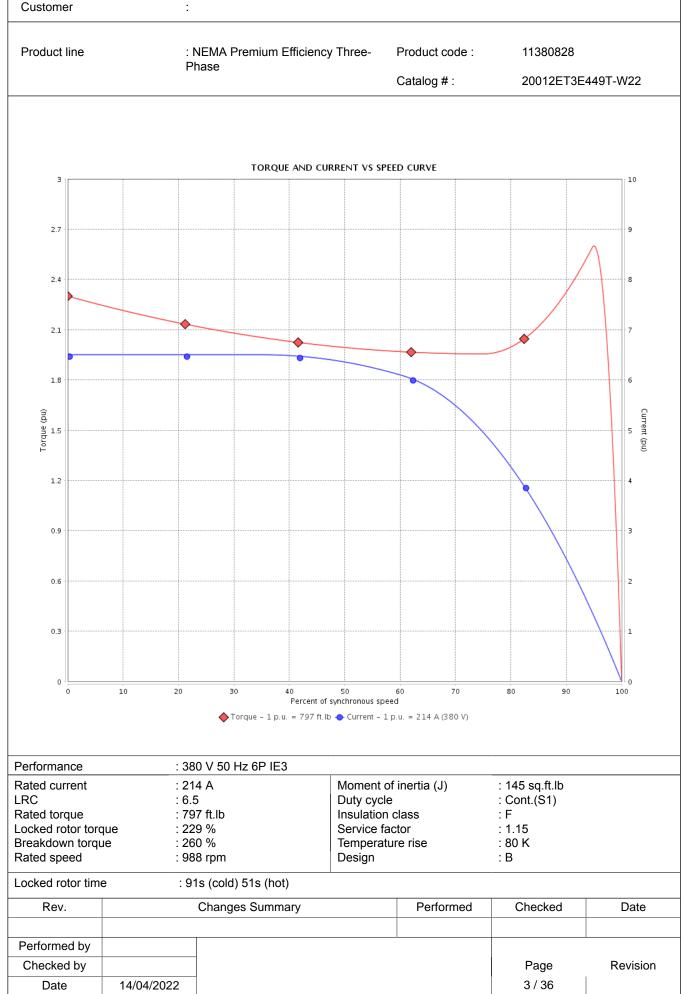




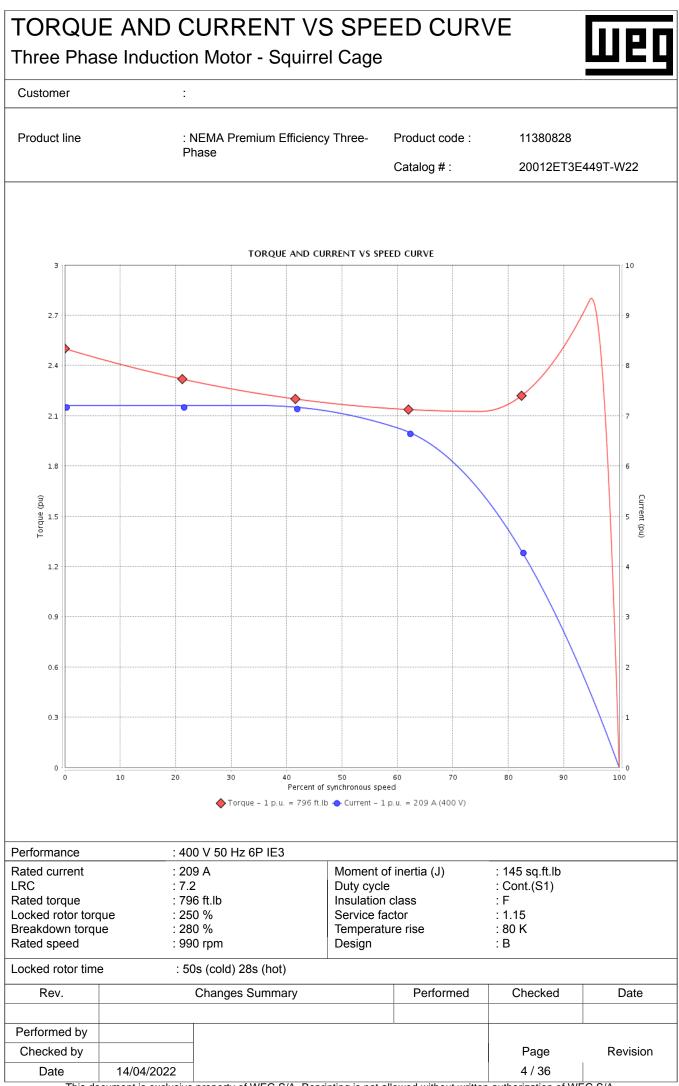
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





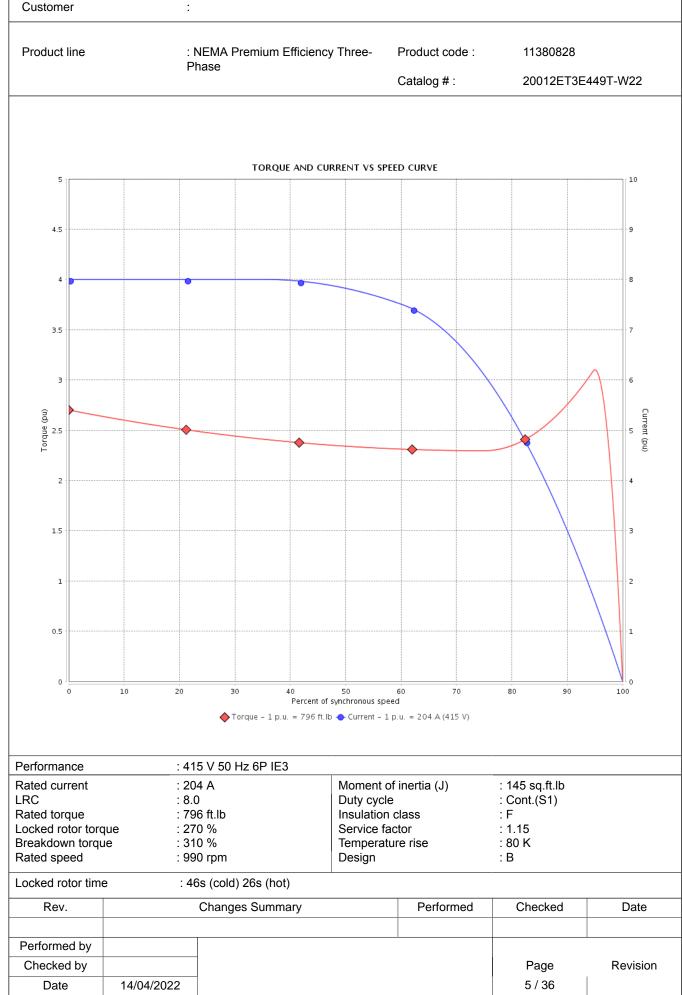
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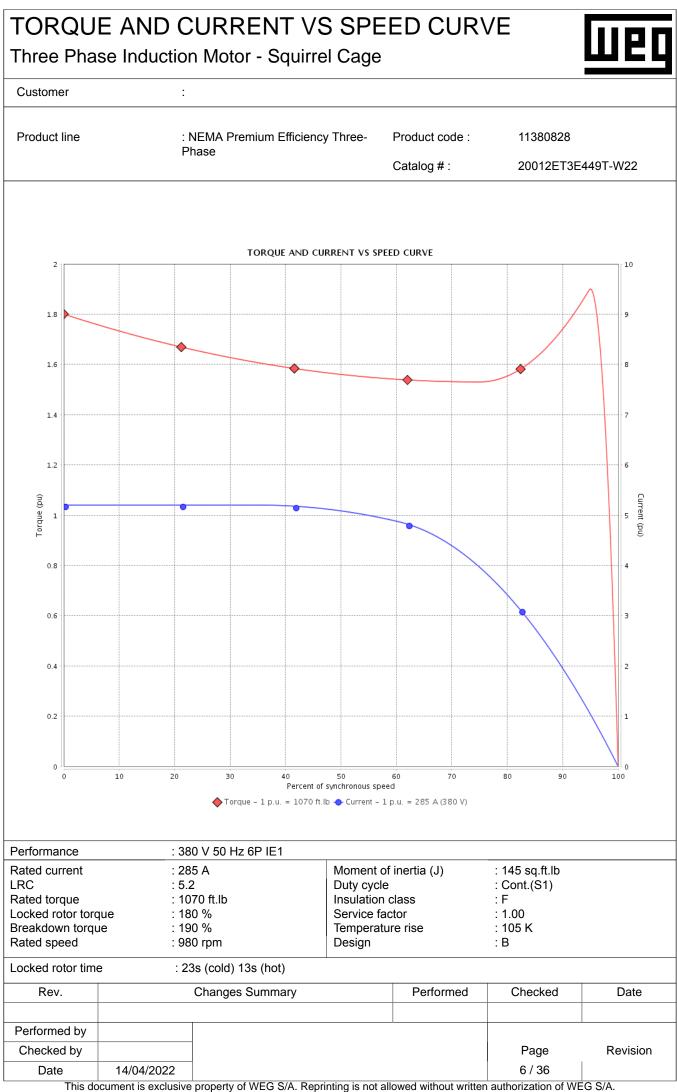
TORQUE AND CURRENT VS SPEED CURVE

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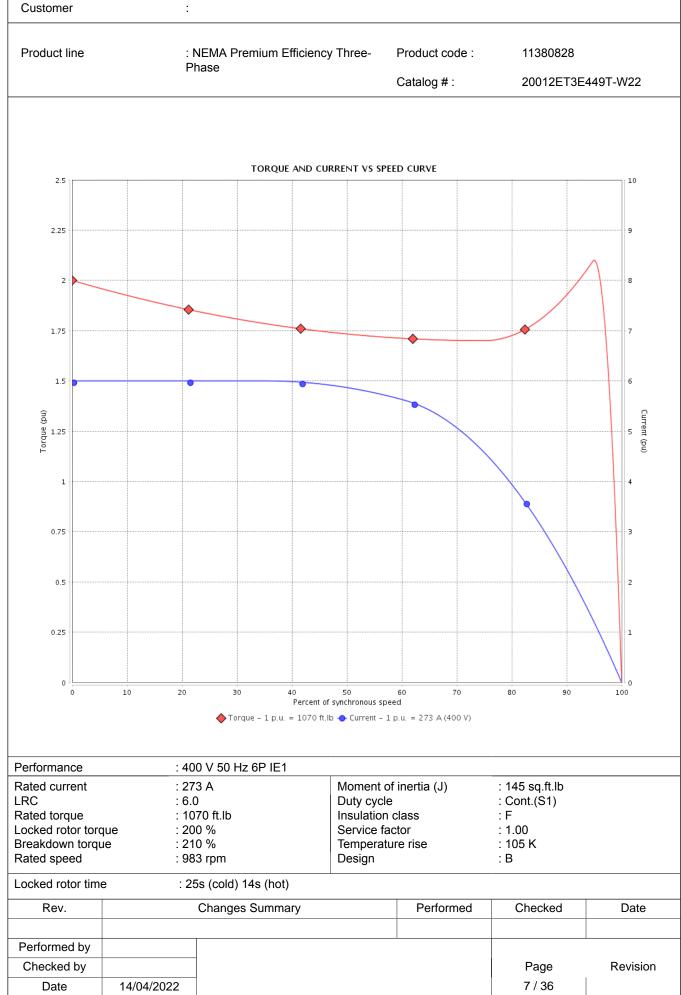


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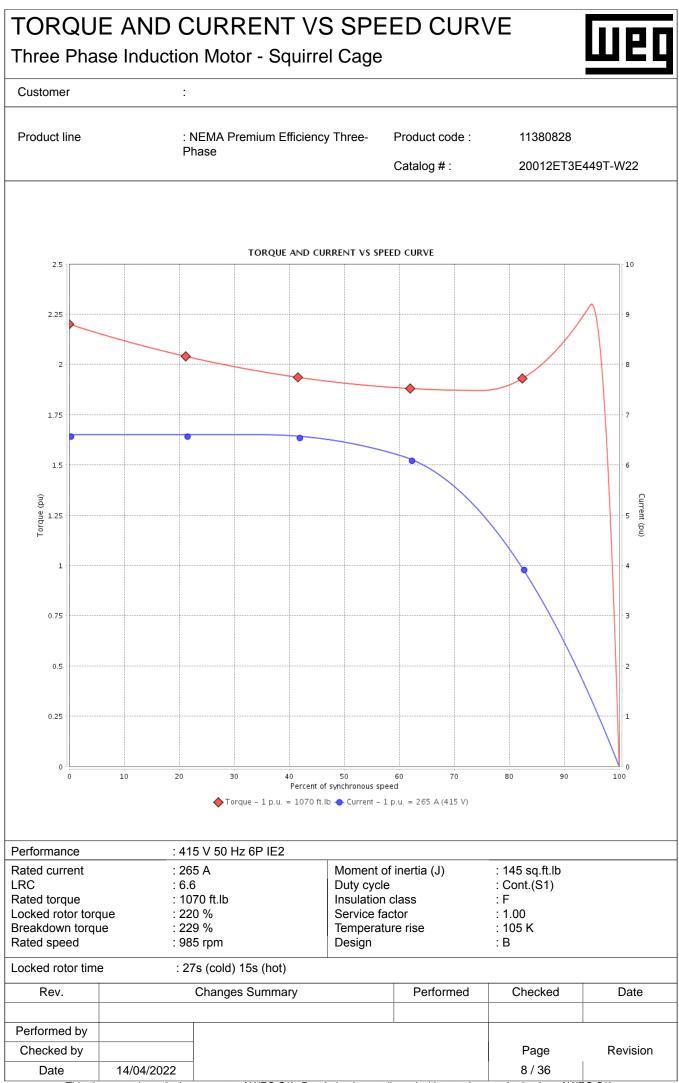
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



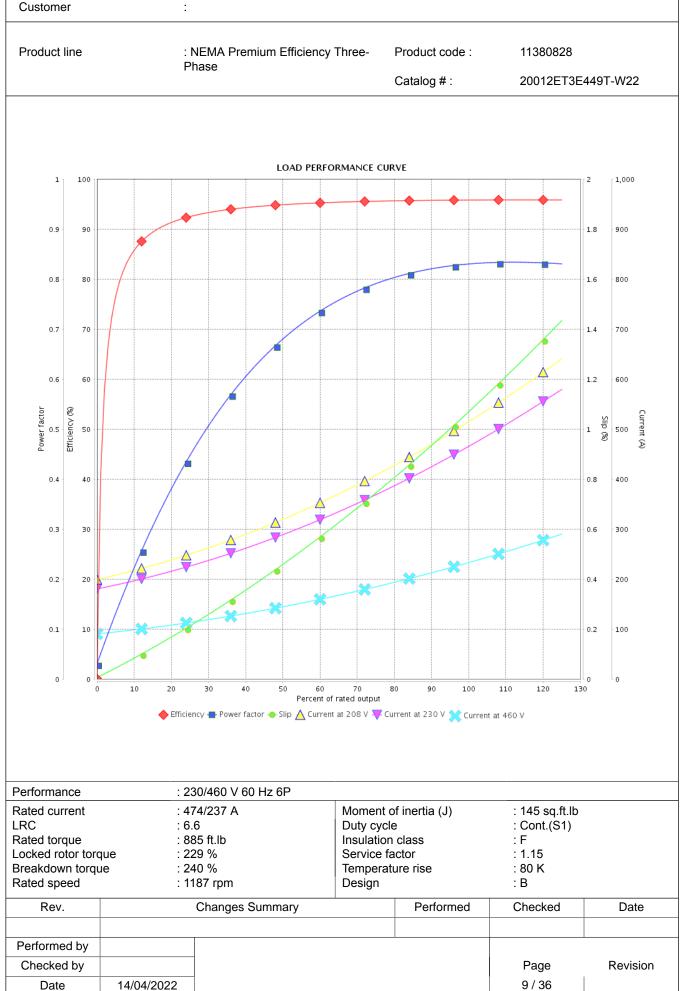


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Three Phase Induction Motor - Squirrel Cage

Customer



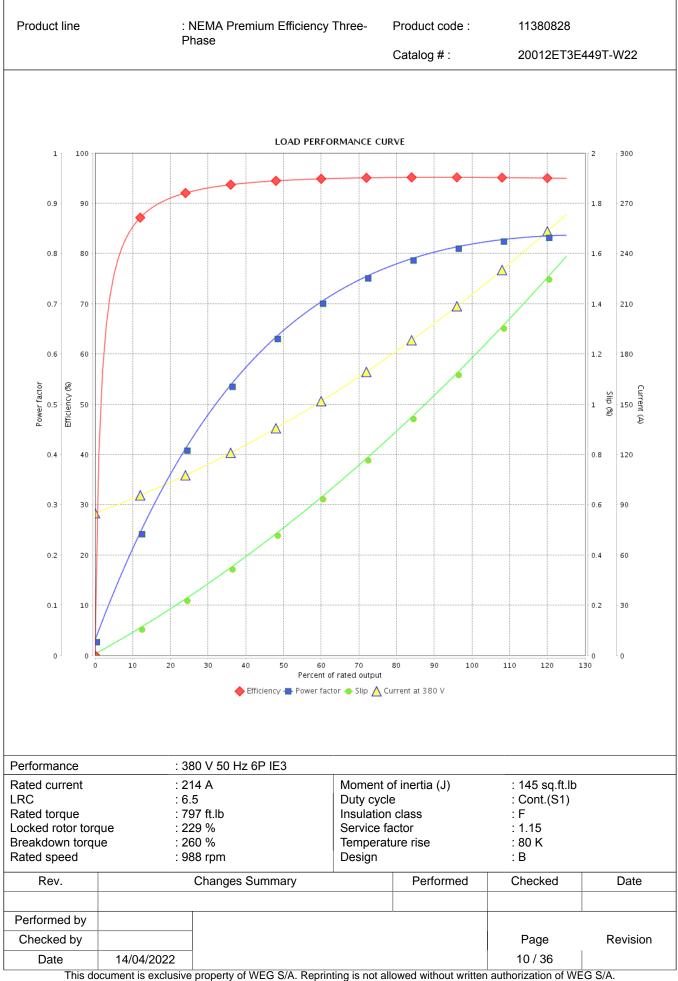
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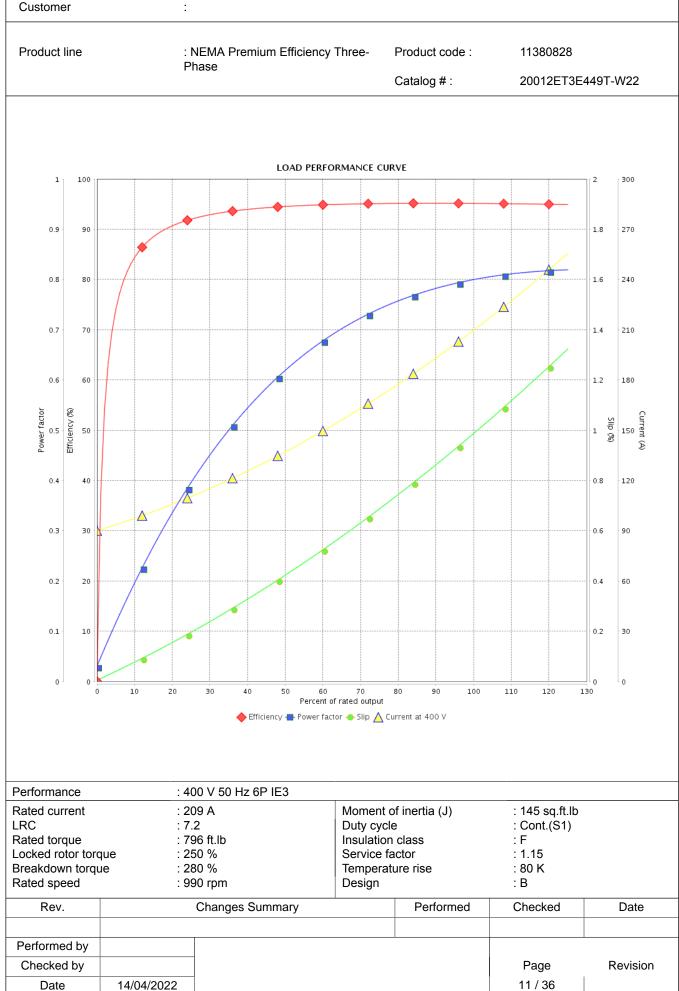


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



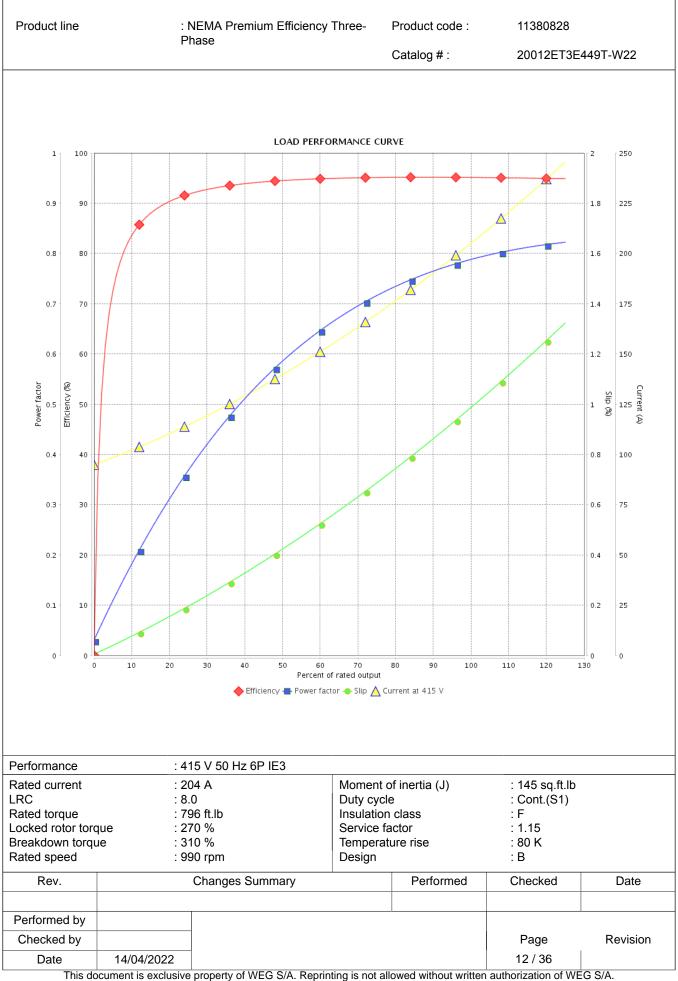
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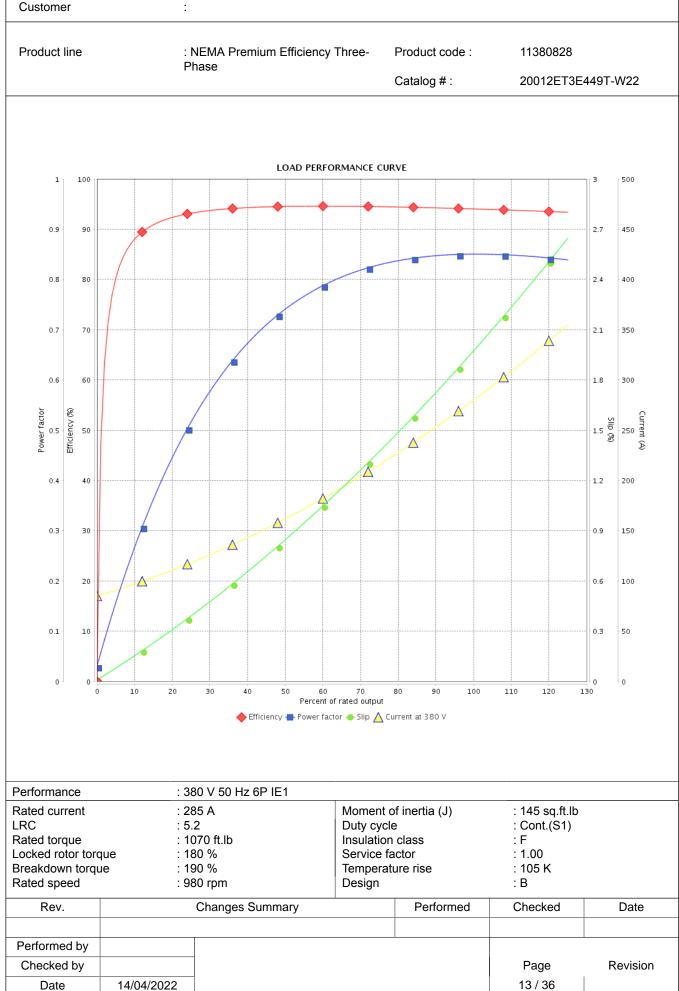
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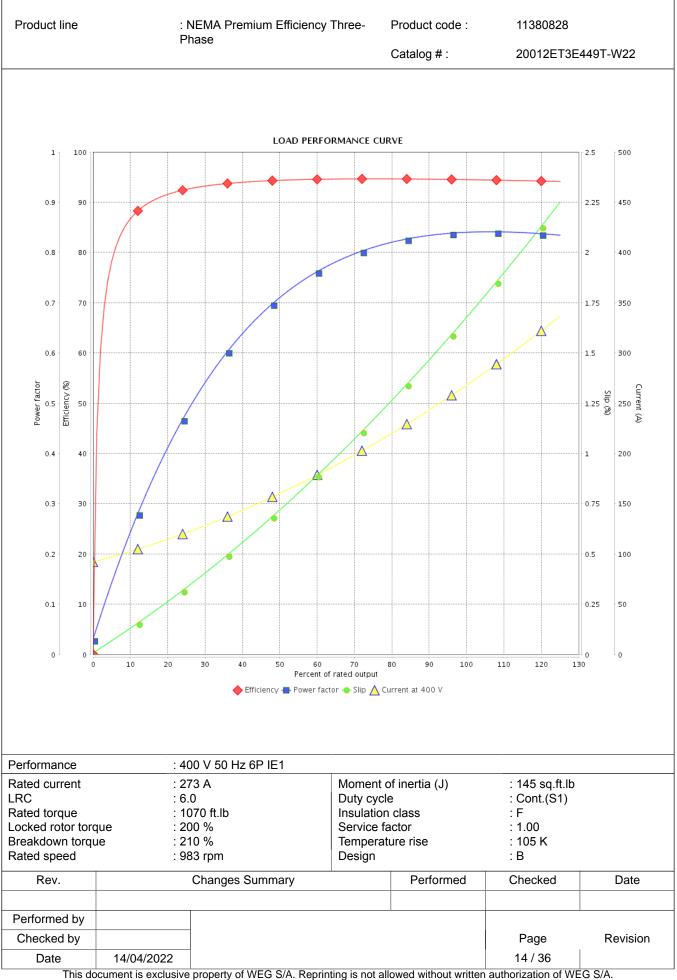
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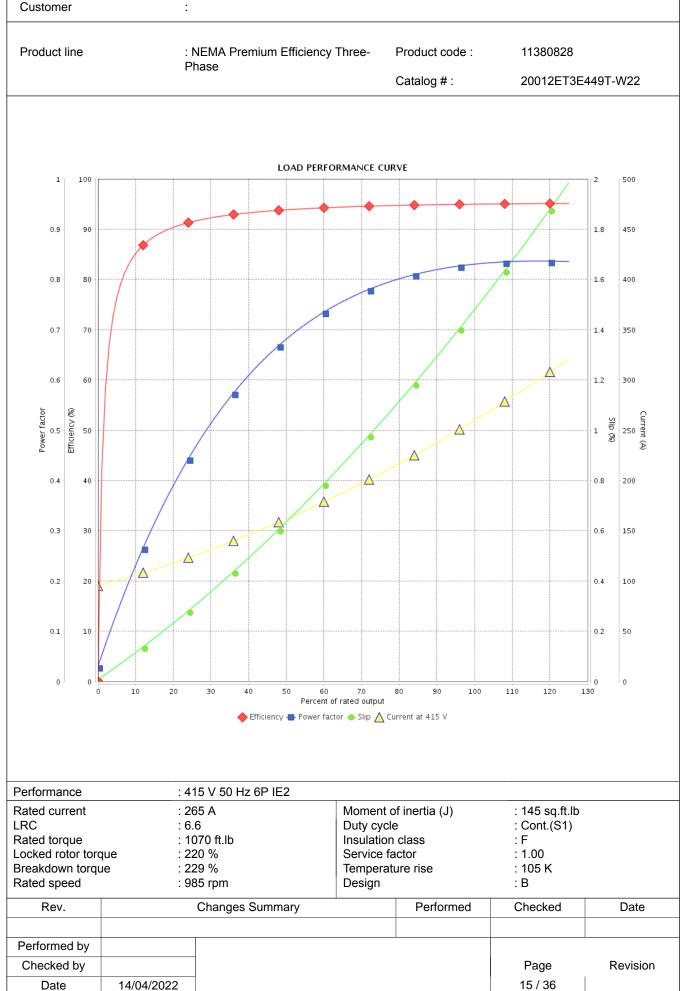
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Three Phase Induction Motor - Squirrel Cage

Customer



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[
	IMIT CURVE	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Tl Phase	hree- Product code : Catalog # :	11380828 20012ET3E449T-W22
Performance	: 230/460 V 60 Hz 6P		
Rated current	: 474/237 A	Moment of inertia (J)	: 145 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque Locked rotor torque		Insulation class Service factor	: F : 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed		Design	: B

Changes Summary

Heating constant Cooling constant Rev.

Performed by Checked by

Date

14/04/2022

Performed

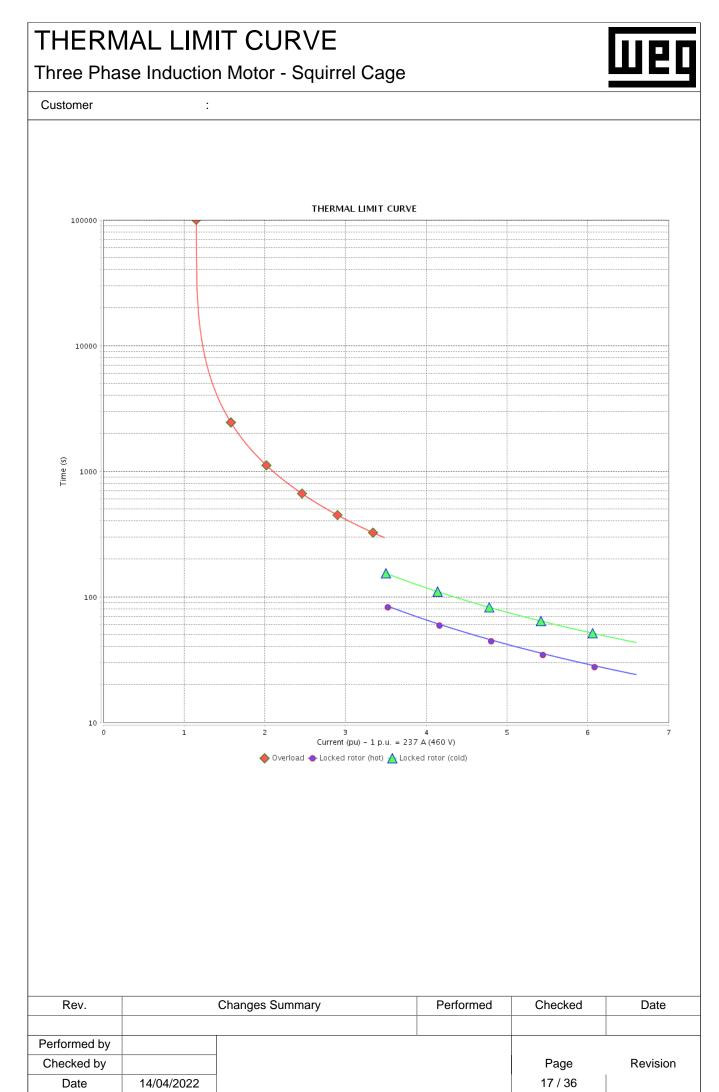
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Date

Revision

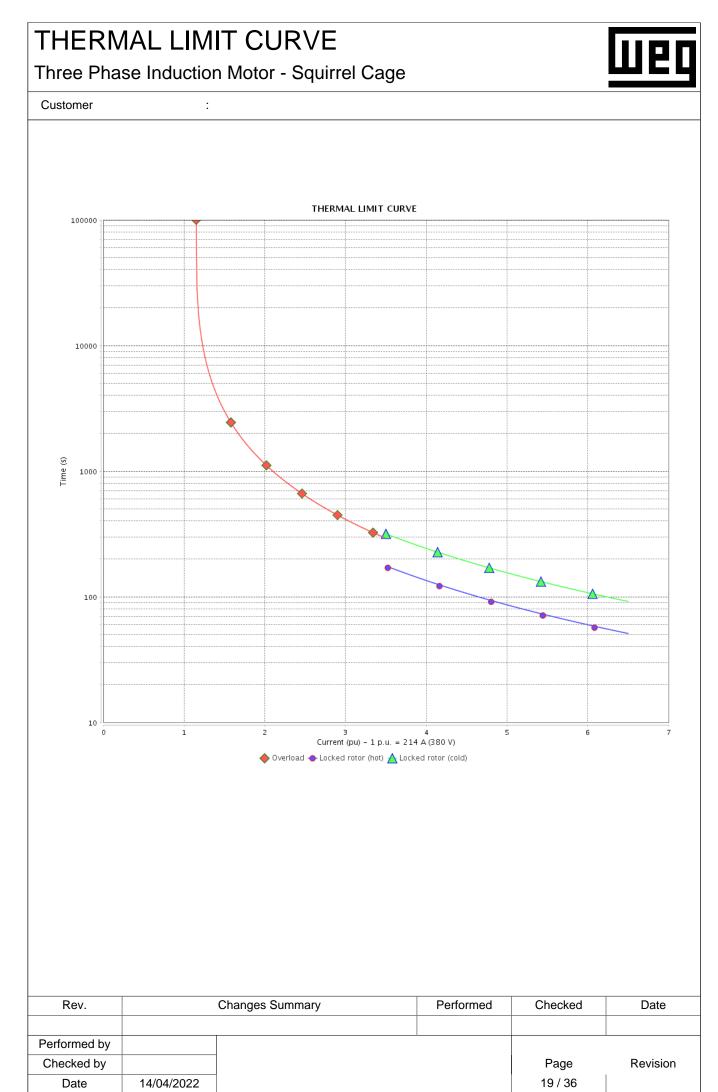


THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
· · ·							
: NEMA Premium Efficiency Th Phase	nree- Product code : Catalog # :	11380828 20012ET3E449T-W22					
: 380 V 50 Hz 6P IE3							
: 6.5 : 797 ft.lb : 229 % \$	Duty cycle Insulation class Service factor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K					
	ction Motor - Squirrel (: :NEMA Premium Efficiency TI Phase : 380 V 50 Hz 6P IE3 : 214 A : 6.5 : 797 ft.lb : 229 %	: Product code : Phase Catalog # : : Catalog # :					

Locked rotor toro Breakdown torqu Rated speed	ie :2	29 % 60 % 88 rpm	Te	Service factor Temperature rise Design		: 1.15 : 80 K : B	
Heating constant	t						
Cooling constant	:						
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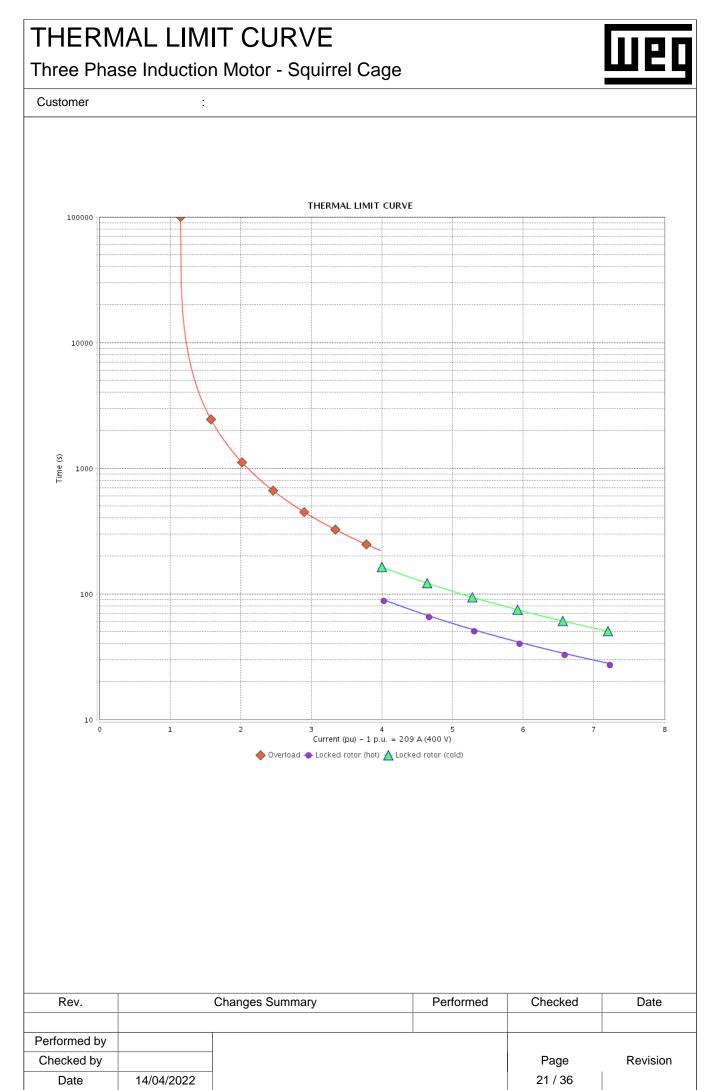
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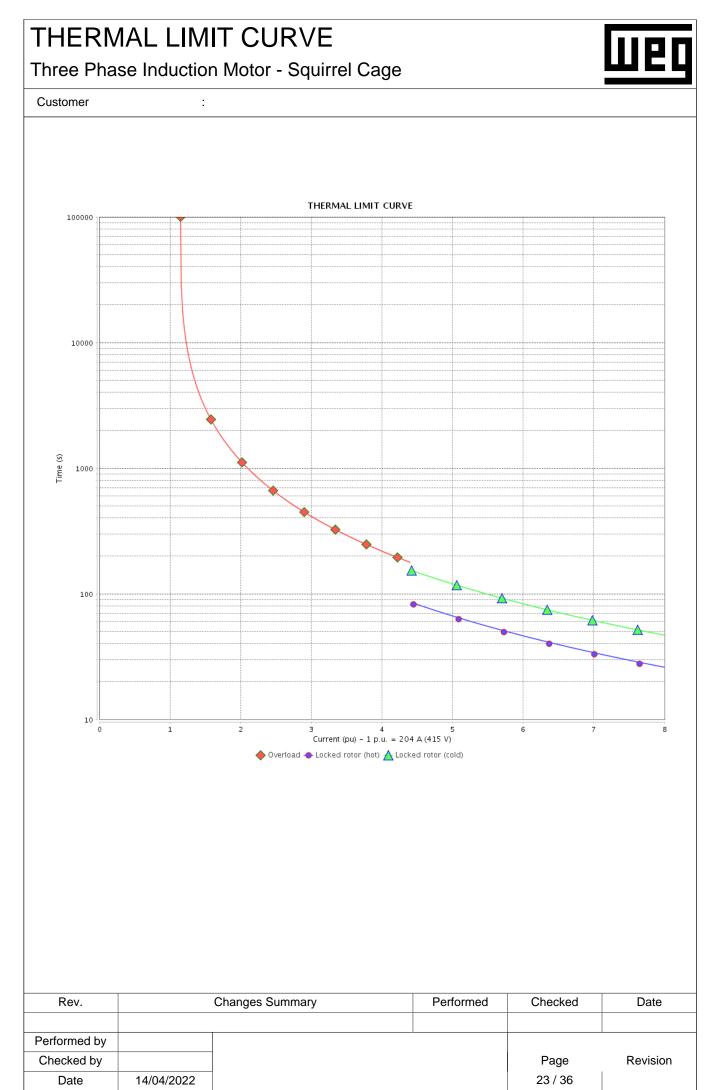
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11380828 20012ET3E449T-W22
Performance Rated current	: 400 V 50 Hz 6P IE3 : 209 A Momen	nt of inertia (J)	: 145 sq.ft.lb

iue : 28	2 96 ft.lb 50 % 30 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
				·	
	Changes Summary		Performed	Checked	Date
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	: 7. : 76 : 25 : 26 : 28 : 99 : 99	e : 280 % : 990 rpm Changes Summary	: 7.2 Duty cycle : 796 ft.lb Insulation jue : 250 % ie : 280 % : 990 rpm Design	: 7.2 Duty cycle : 796 ft.lb Insulation class jue : 250 % ie : 280 % : 990 rpm Design Changes Summary Performed	: 7.2 Duty cycle : Cont.(S1) : 796 ft.lb Insulation class : F ue : 250 % Service factor : 1.15 ue : 280 % Temperature rise : 80 K : 990 rpm Design : B



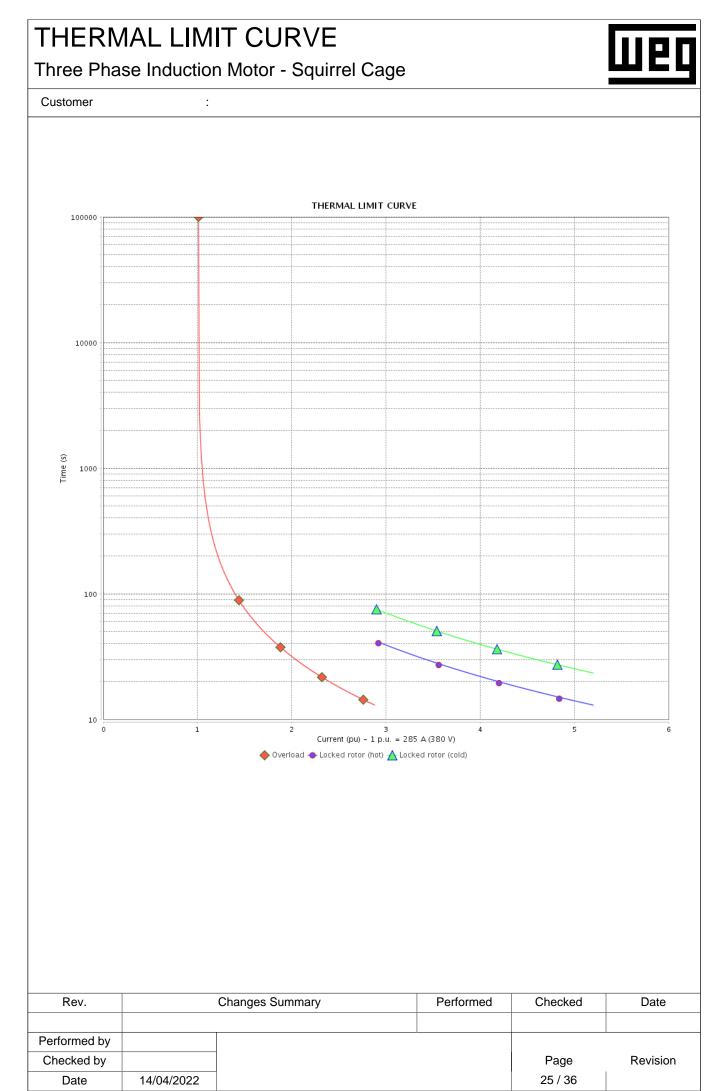
								
THERMAL LIMIT CURVE								
Three Phase Ind	luction Motor - Squirrel C	Cage	шсч					
Customer	:							
Product line	: NEMA Premium Efficiency Th	ree- Product code :	11380828					
	Phase	Catalog # :	20012ET3E449T-W22					
Performance	: 415 V 50 Hz 6P IE3							
Rated current LRC	: 8.0 E	Moment of inertia (J) Duty cycle	: 145 sq.ft.lb : Cont.(S1)					
Rated torque	: 796 ft.lb	nsulation class Service factor	: F : 1.15					

Rated torque: 796 ft.lbLocked rotor torque: 270 %Breakdown torque: 310 %Rated speed: 990 rpm		70 % 10 %	Insulation class Service factor Temperature rise Design		: F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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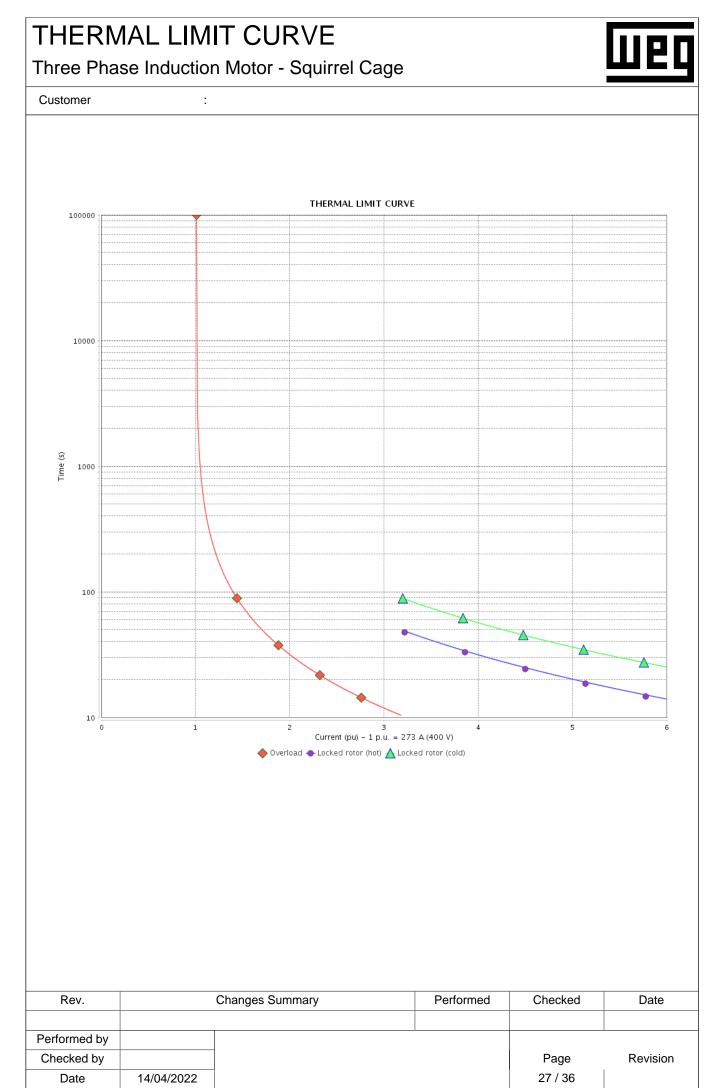
	LIMIT CURVE	le	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11380828 20012ET3E449T-W22
Performance	: 380 V 50 Hz 6P IE1		
Rated current LRC	: 5.2 Duty	ent of inertia (J) cycle	: 145 sq.ft.lb : Cont.(S1)

Rated current LRC	urrent : 285 A Moment of inertia (J) : 5.2 Duty cycle		()	: 145 sq.ft.lb : Cont.(S1)		
Rated torque				: F		
Locked rotor torc	jue : 18	30 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 19	90 %	Temperatu	ire rise	: 105 K	
Rated speed	: 98	30 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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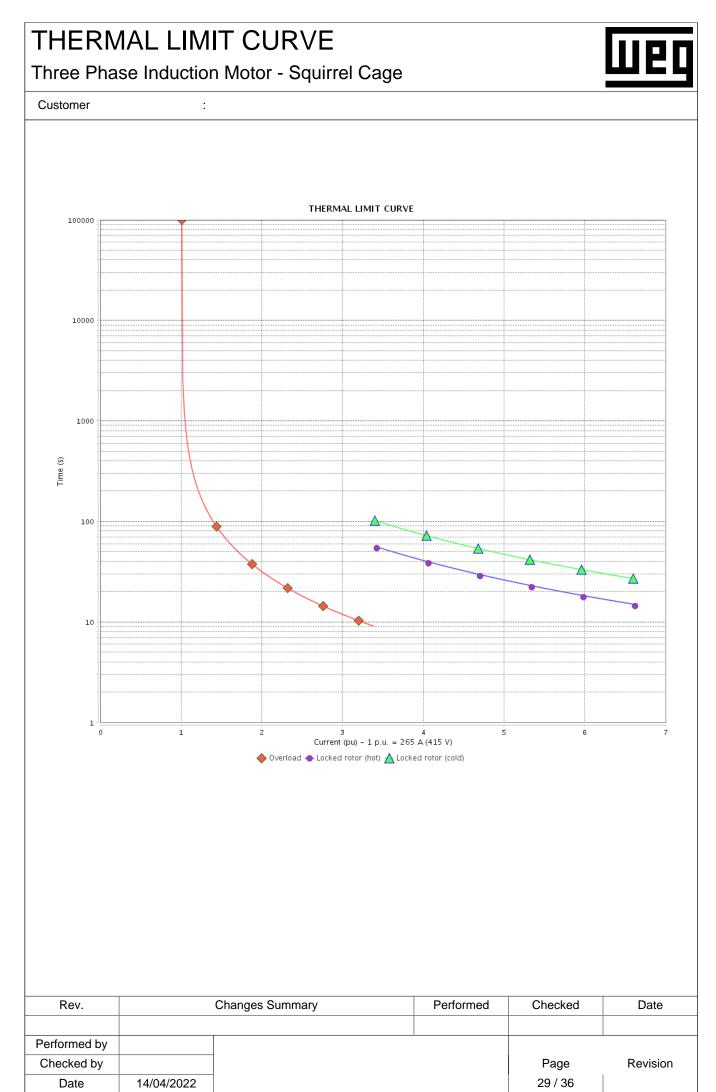
THERMAL	LIMIT CURVE		шес
Three Phase Ir Customer	nduction Motor - Squirrel Cag	e	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11380828 20012ET3E449T-W22
Performance	: 400 V 50 Hz 6P IE1		
Rated current		ent of inertia (J)	: 145 sq.ft.lb : Cont (S1)

Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 6. : 10 ue : 20 ie : 21	73 A 0 070 ft.lb 00 % 10 % 33 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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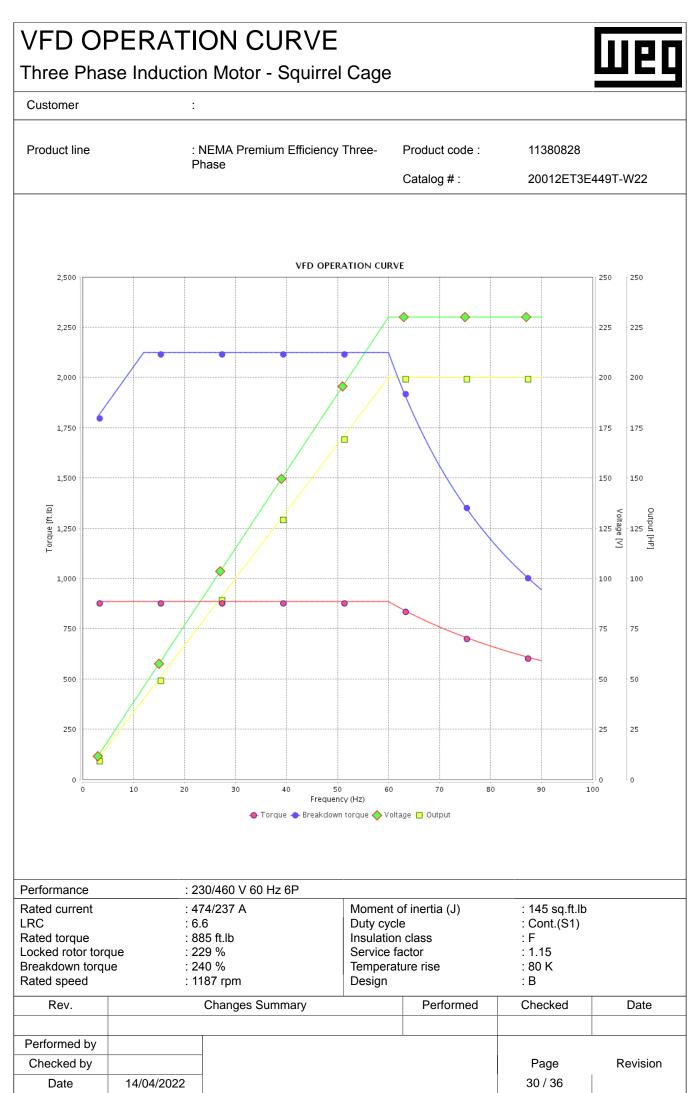


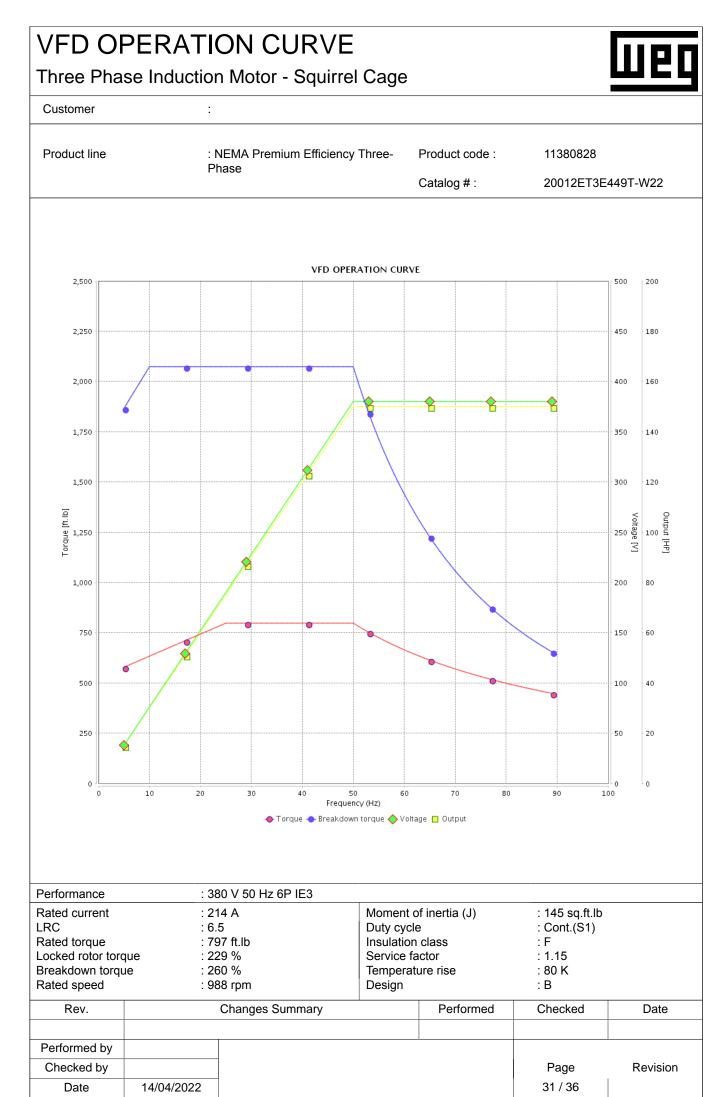
THERMAL LIMIT CURVE							
	nduction Motor - Squirrel Cage	9					
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11380828				
	Phase	Catalog # :	20012ET3E449T-W22				
erformance	: 415 V 50 Hz 6P IE2						

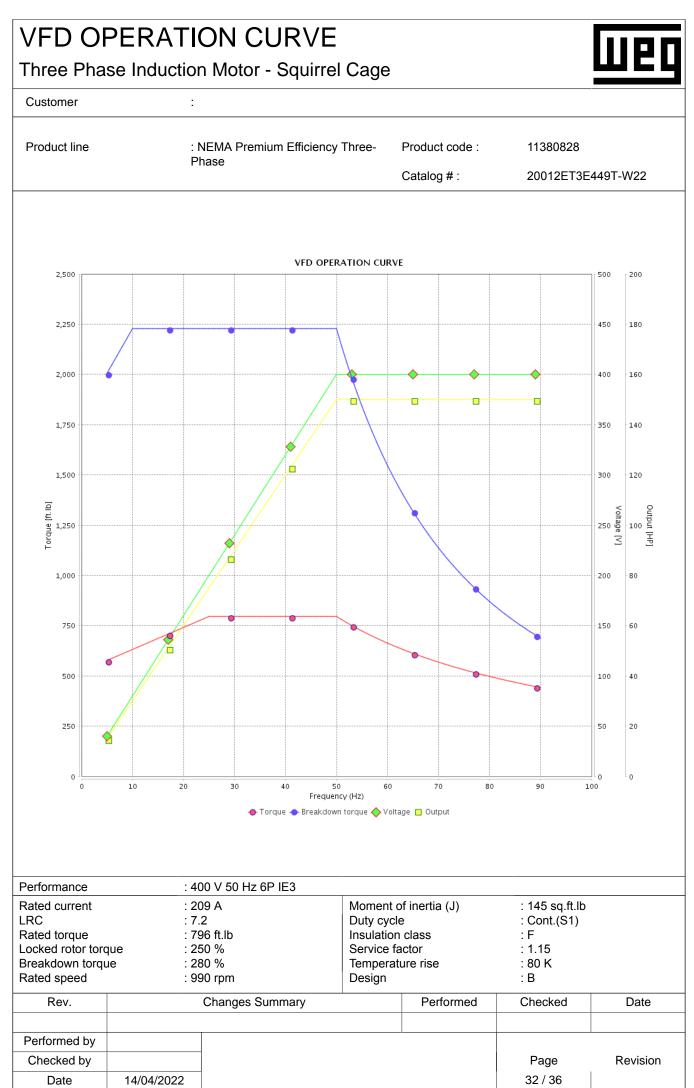
Rated current: 265 ALRC: 6.6Rated torque: 1070 ft.lbLocked rotor torque: 220 %Breakdown torque: 229 %Rated speed: 985 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant	t					
Cooling constant	t					
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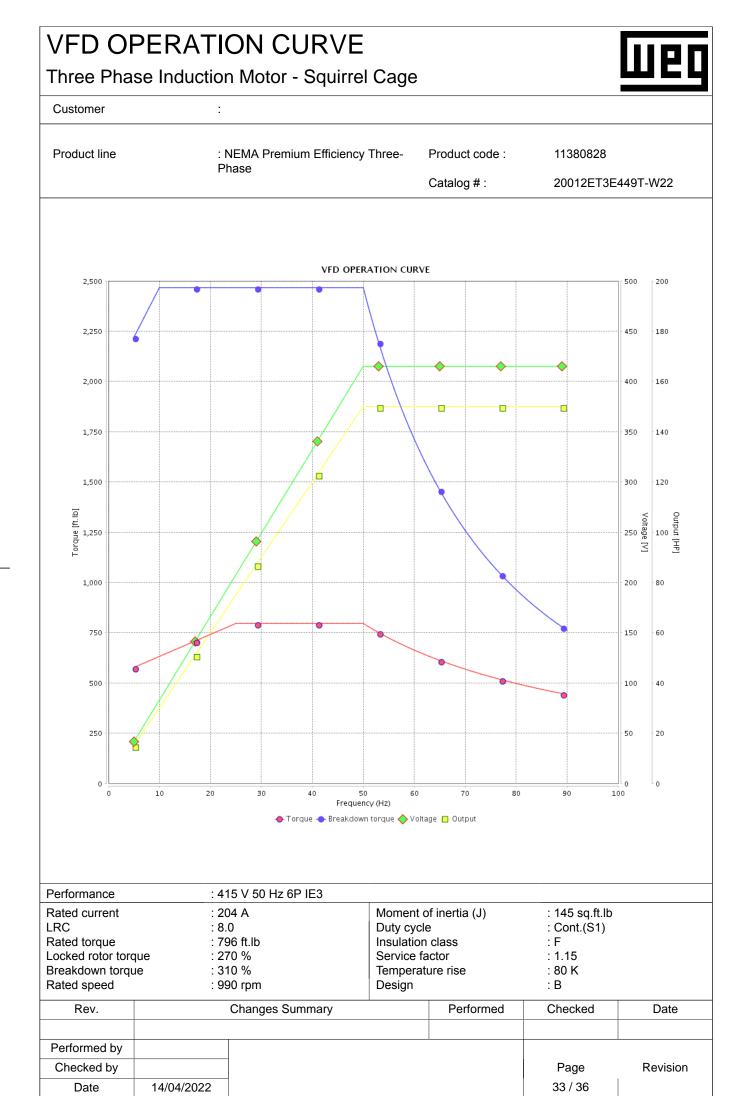


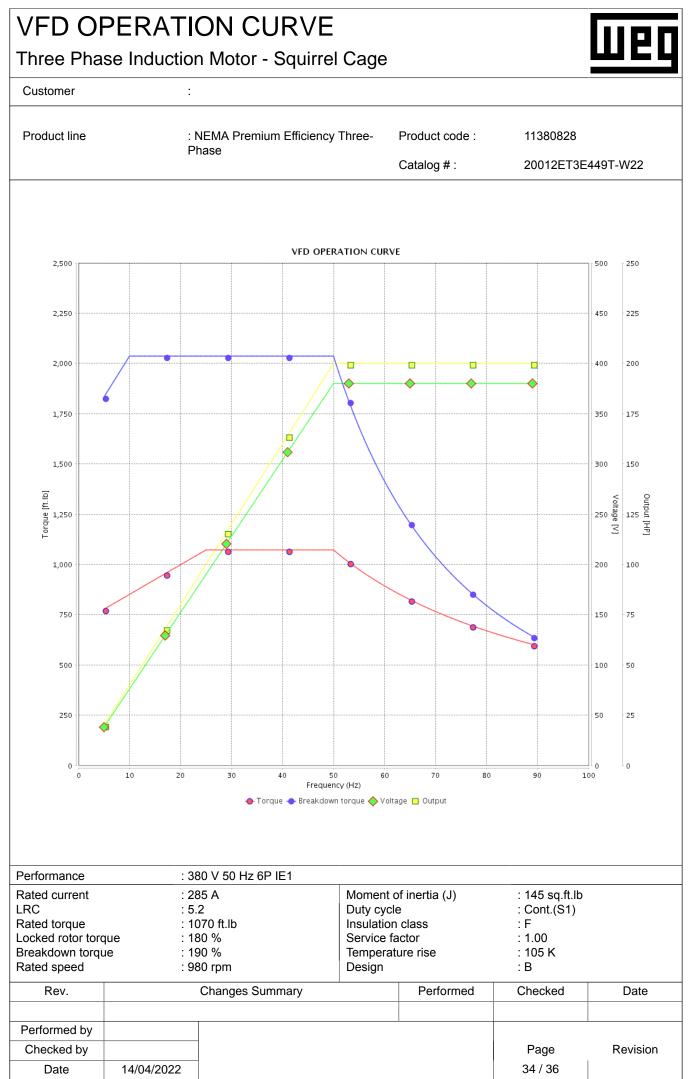
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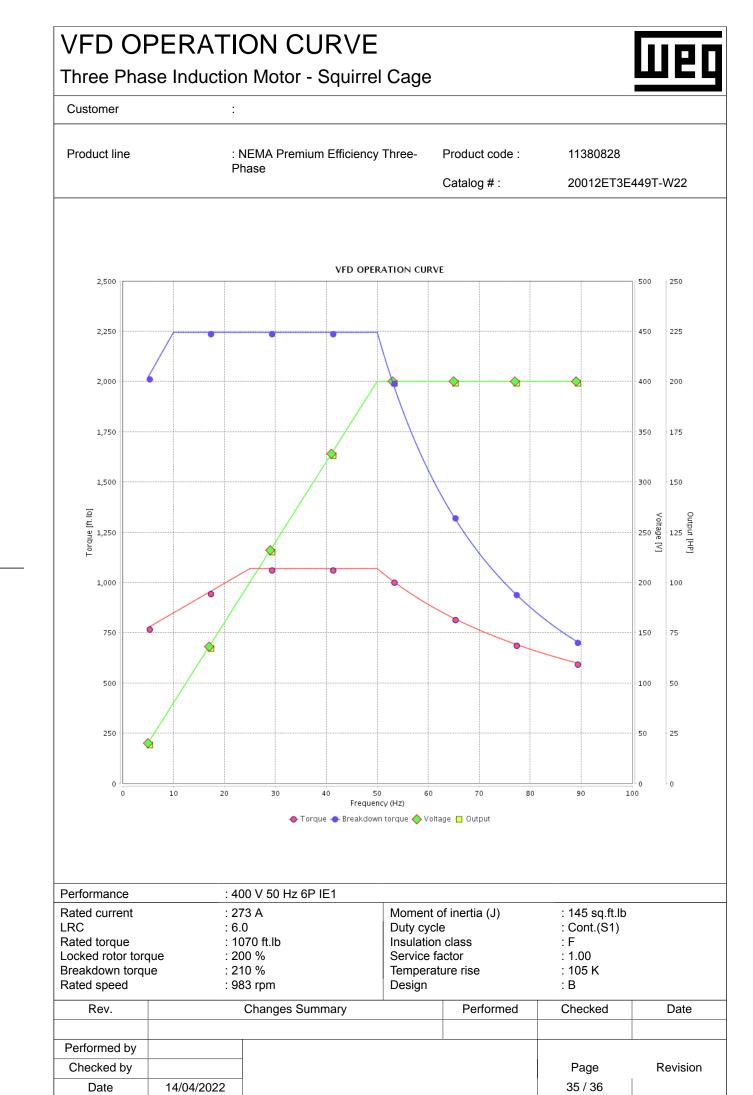


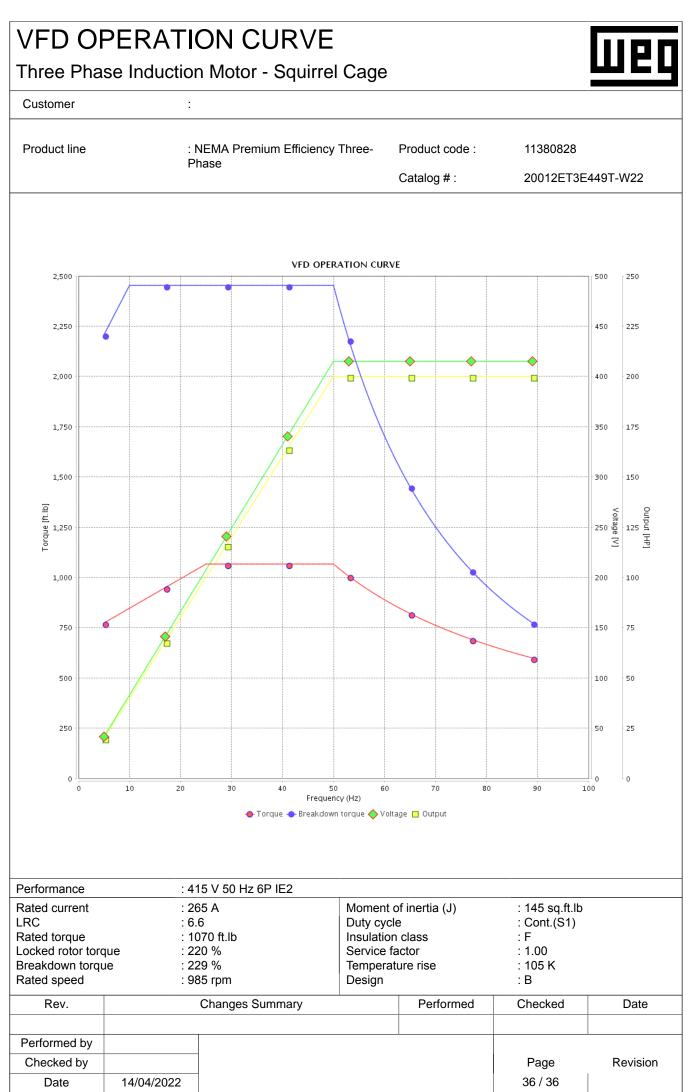


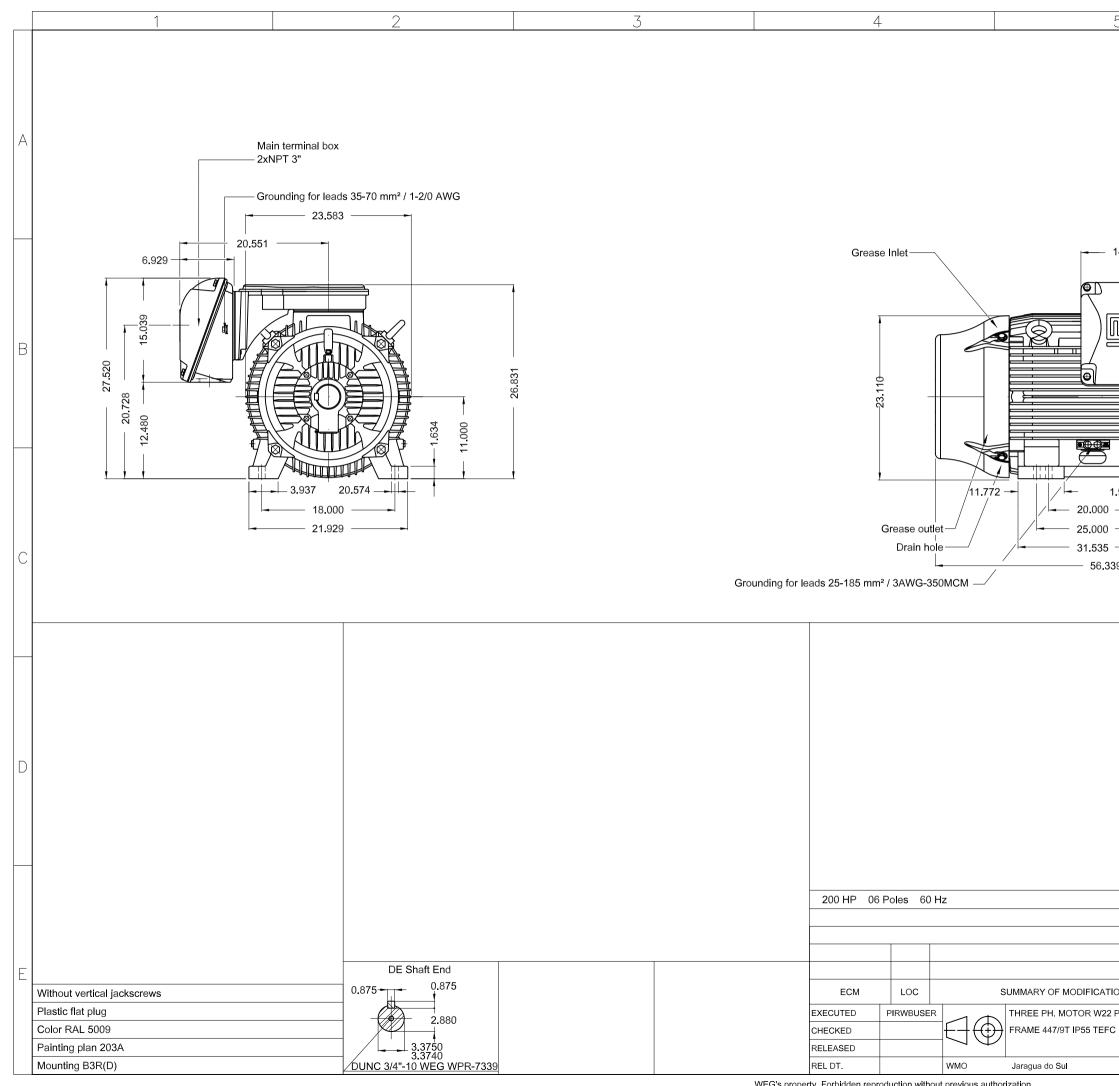












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