DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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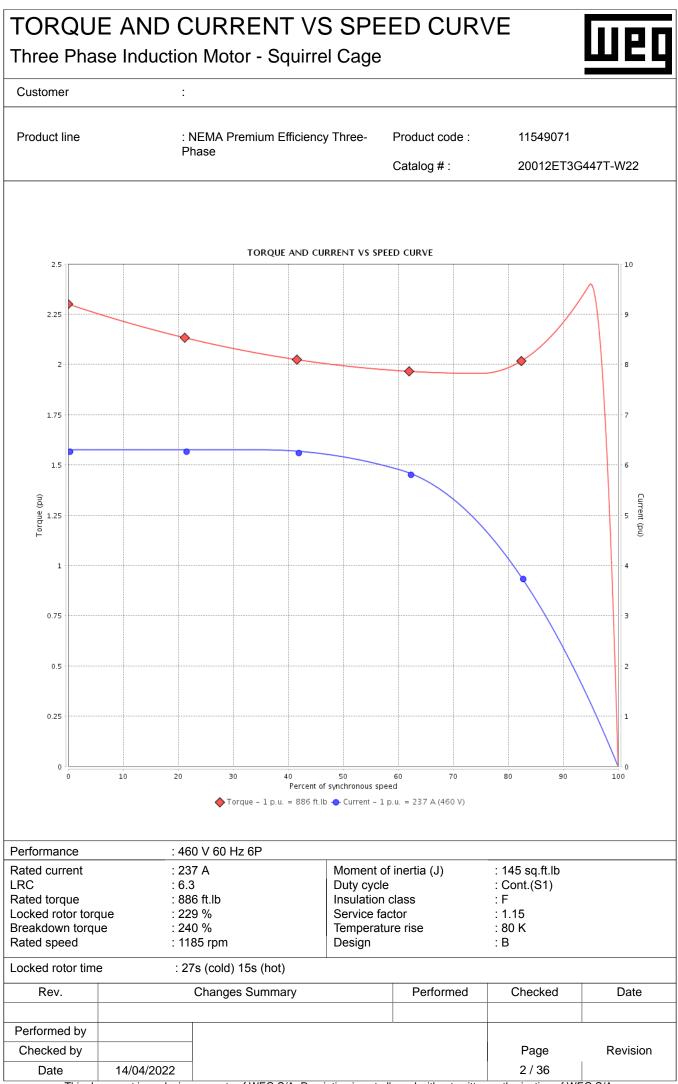
Customer

Product line			mium Efficier	су Т	hree-	Product code	e:	11549071	
		Phase				Catalog # :		20012ET3G4	47T-W22
Frame		: 445/7T			Cooling	g method		: IC411 - TEF	² C
Insulation class		: F			Mounti	ng		: F-1	
Duty cycle		: Cont.(S1)			Rotatio			: Both (CW a	,
Ambient tempera	ature	: -20°C to +				g method		: Direct On Li	ne
Altitude		: 1000 m.a.s	s.l.			. weight ³		: 2496 lb	
Protection degre	e	: IP55			Momer	nt of inertia (J)		: 145 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]		460	380		400	415	380	400	415
Rated current [A]		237	214		209	204	285	273	265
. R. Amperes [A]		1493	1391		1505	1571	1425	1529	1590
_RC [A]		6.3x(Code		1.2x	(Code H)	7.7x(Code J)	5.UX(Code	E)5.6x(Code	
No load ourrest [A	1	G) 100	G) 98.9		106	111	98.9	106	G) 111
No load current [A Rated speed [RPN		1185	98.9		985	985	98.9	980	980
	'']	1.25	1.50				2.00	2.00	2.00
Slip [%] Rated torque [ft.lb	1	886	800		1.50 800	1.50 800	2.00	1070	1070
_ocked rotor torqu		229	229		250	270	1070	200	220
Breakdown torque		229	229		250	310	180	200	220
Service factor	[/v]	1.15	1.15		280 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
_ocked rotor time		27s (cold)	21s (cold)		s (cold)	21s (cold)	21s (cold		
		15s (hot)	12s (hot)		s (cold)	12s (hot)	12s (hot	· · ·	
Noise level ²		69.0 dB(A)						, 123 (1100	, 120 (1101)
	25%	94.5	94.3		94.3	94.3	94.8	94.3	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%	0.42	0.39		0.36	0.34	0.48	0.45	0.42
Dowor Costor	50%	0.68	0.65		0.62	0.59	0.74	0.71	0.68
Power Factor	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	Founda	tion loads			
Bearing type		: 6319 C3			Max. tra		:	5323 lb	
Sealing		: WSeal	WSea	al		mpression		7819 lb	
Lubrication interv	/al	: 13000 h	16000	h		-			
Lubricant amoun	t	: 45 g	34 g						
Lubricant type		: Mobi	I Polyrex EM						
Notes									
110100									
This revision repla	aces and car	ncel the previo	us one, which		These a	ire average va	lues base	d on tests with	n sinusoidal
must be eliminate			· -			upply, subject			
(1) Looking the m	otor from the	e shaft end.			MG-1.				
(2) Measured at 1									
(3) Approximate v		ct to changes a	after						
manufacturing pro									
(4) At 100% of ful		01	<u></u>			Df	a ^		D-1
Rev.		Changes	Summary			Performe		Checked	Date
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Checked by									
Checked by Date	14/04/202							1/36	TC VISION

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 Date
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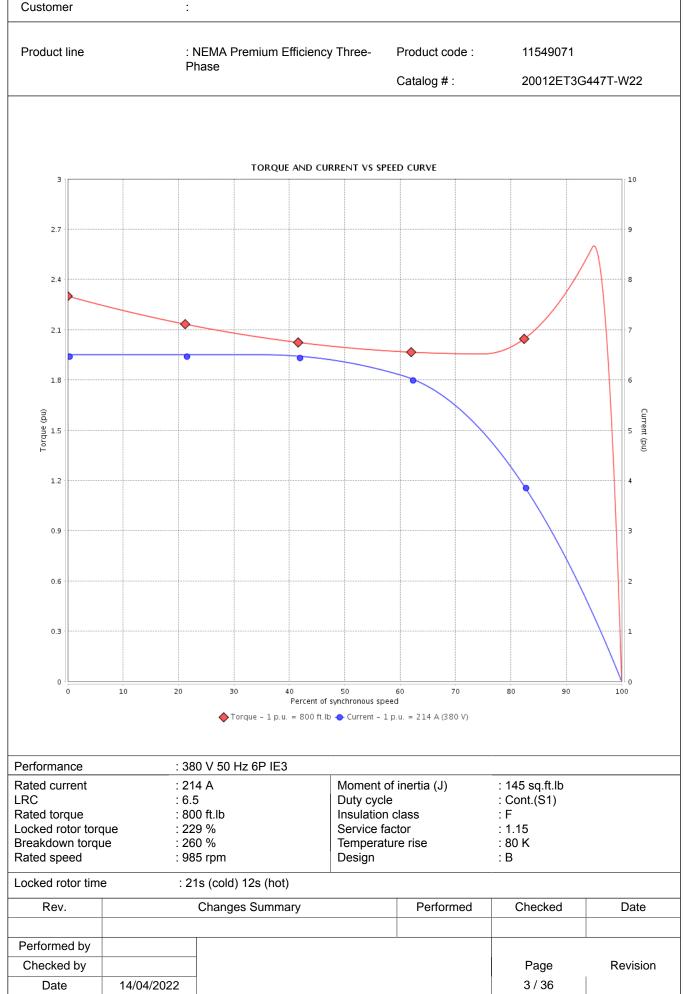
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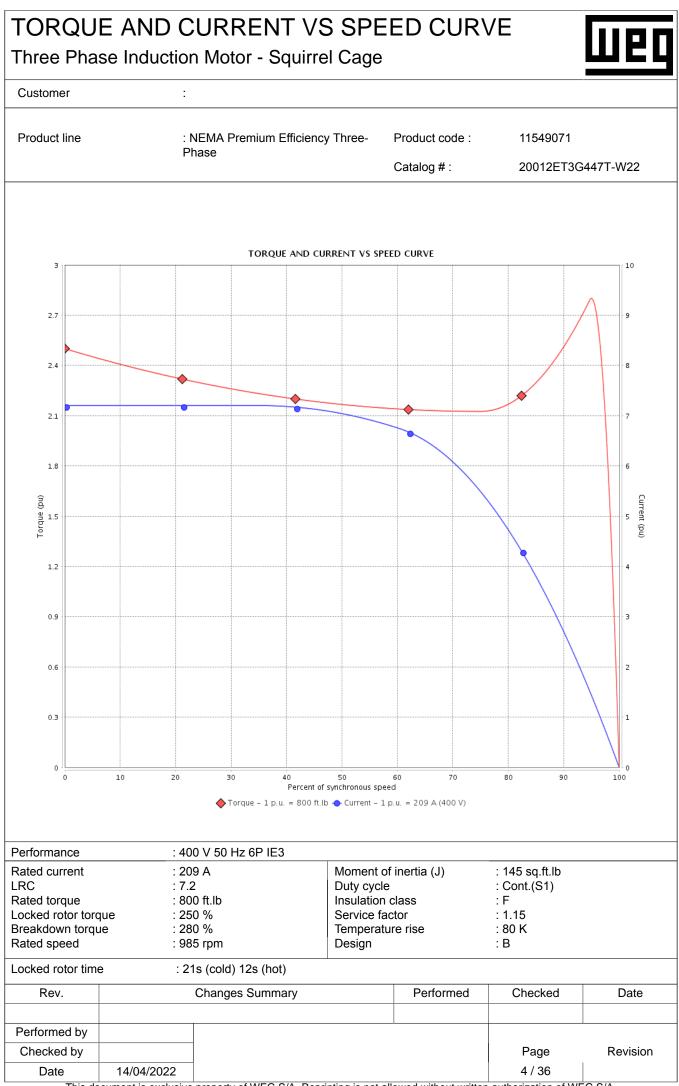
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





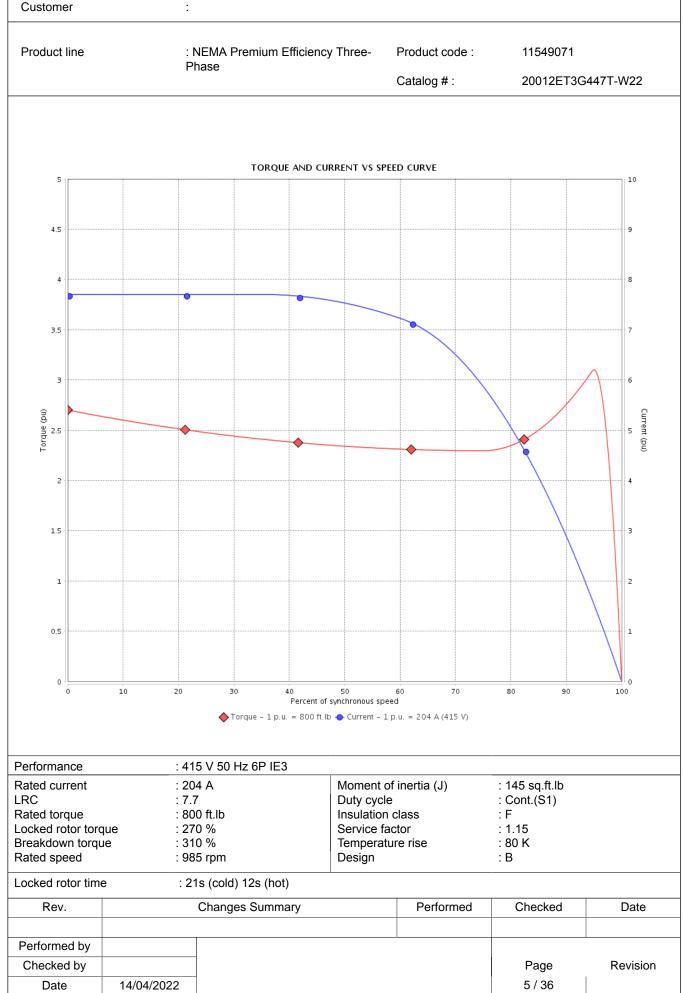
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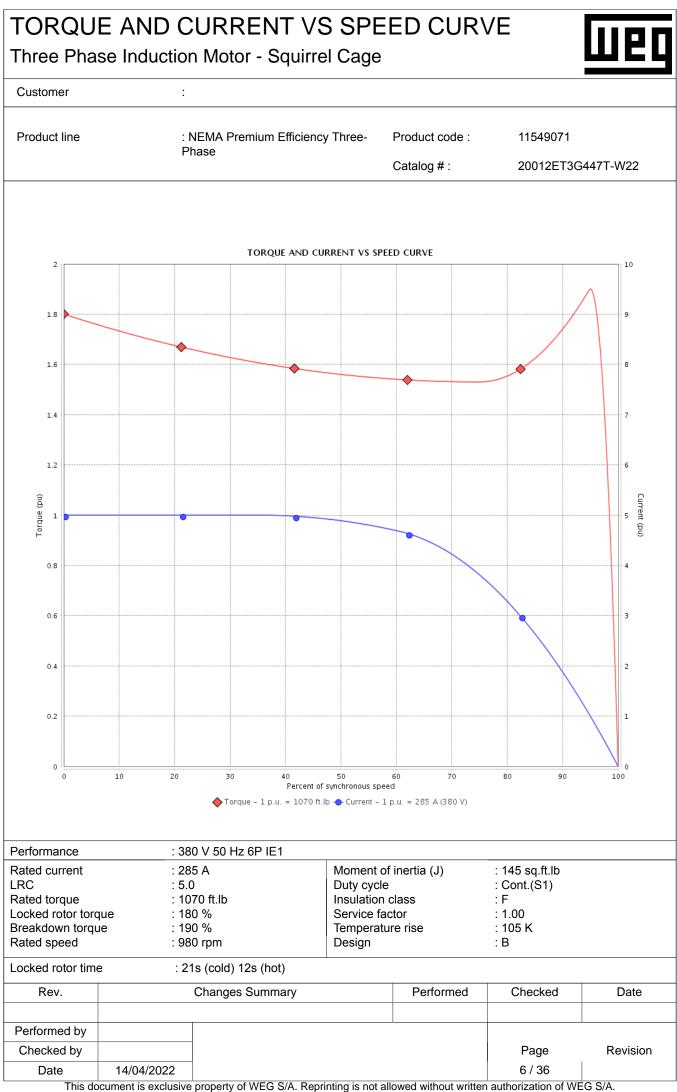
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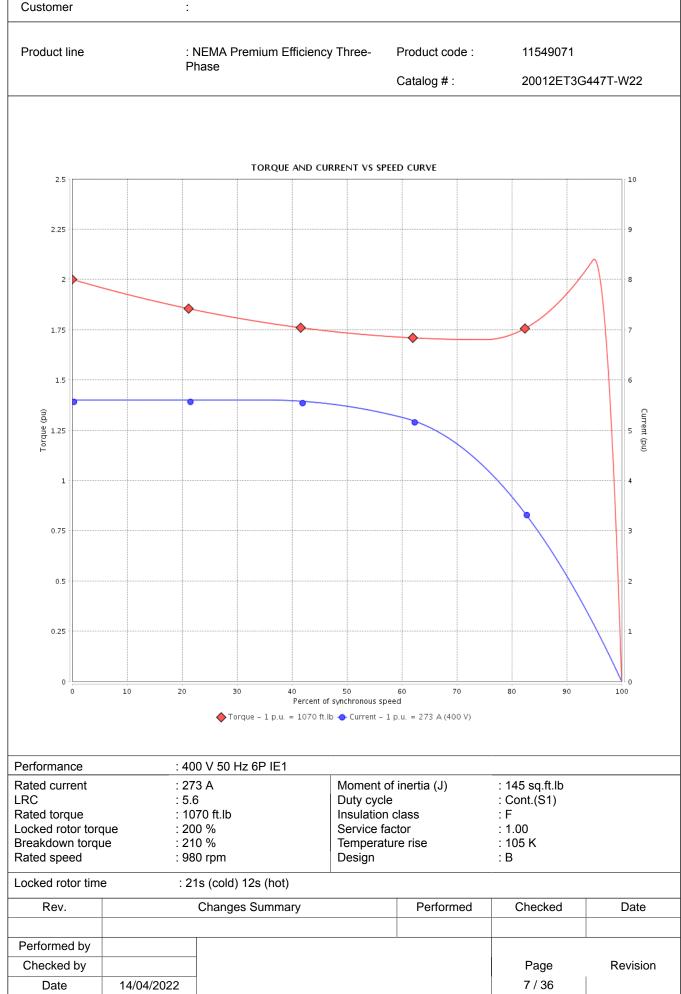


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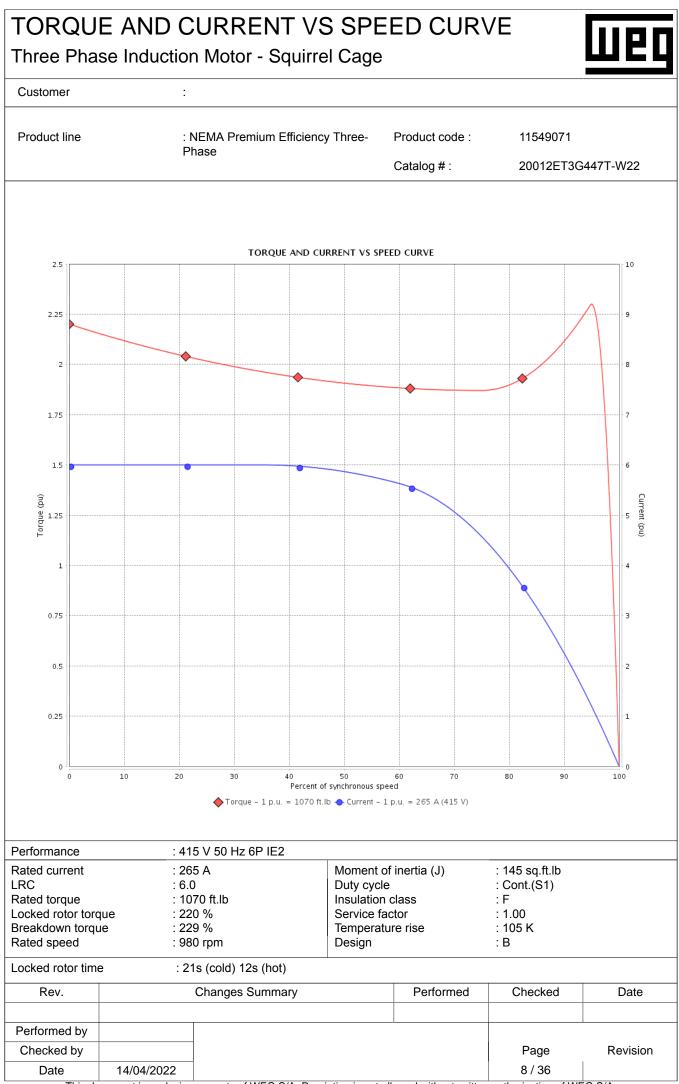
TORQUE AND CURRENT VS SPEED CURVE

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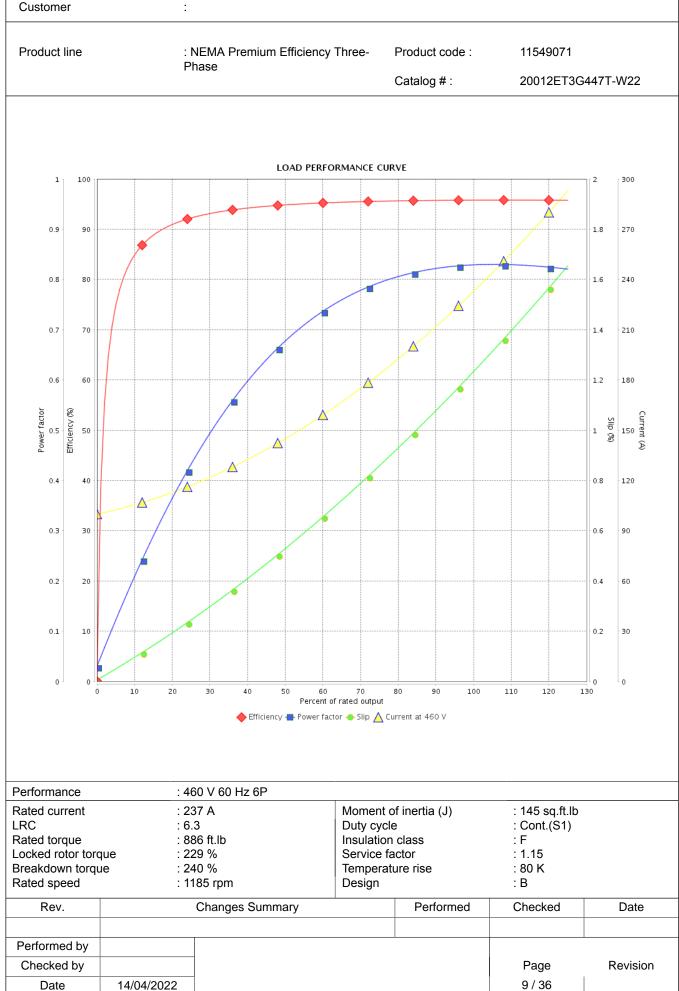


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Three Phase Induction Motor - Squirrel Cage

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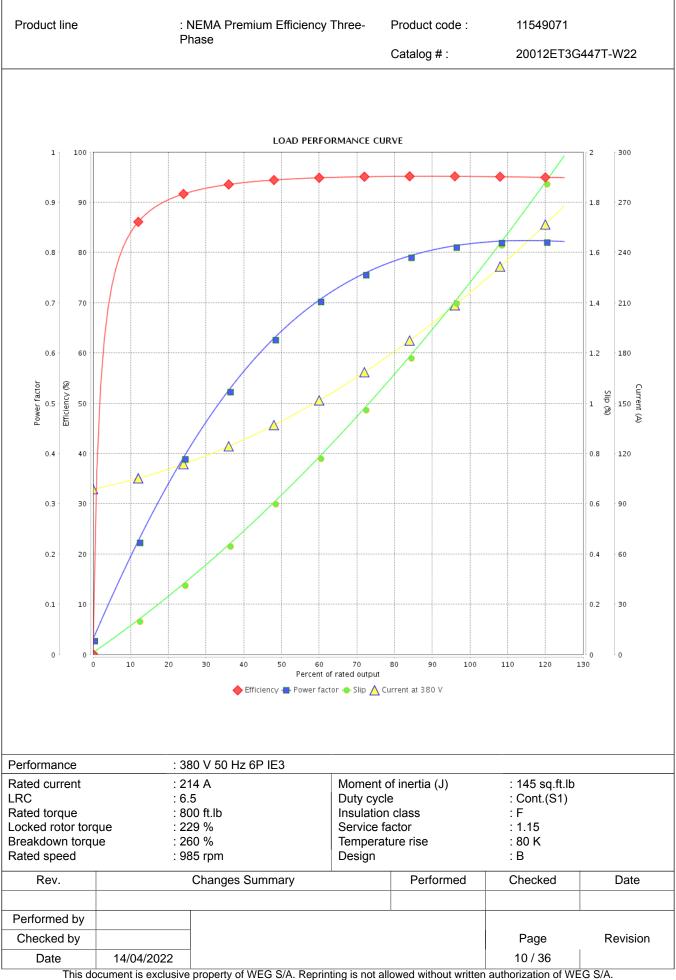
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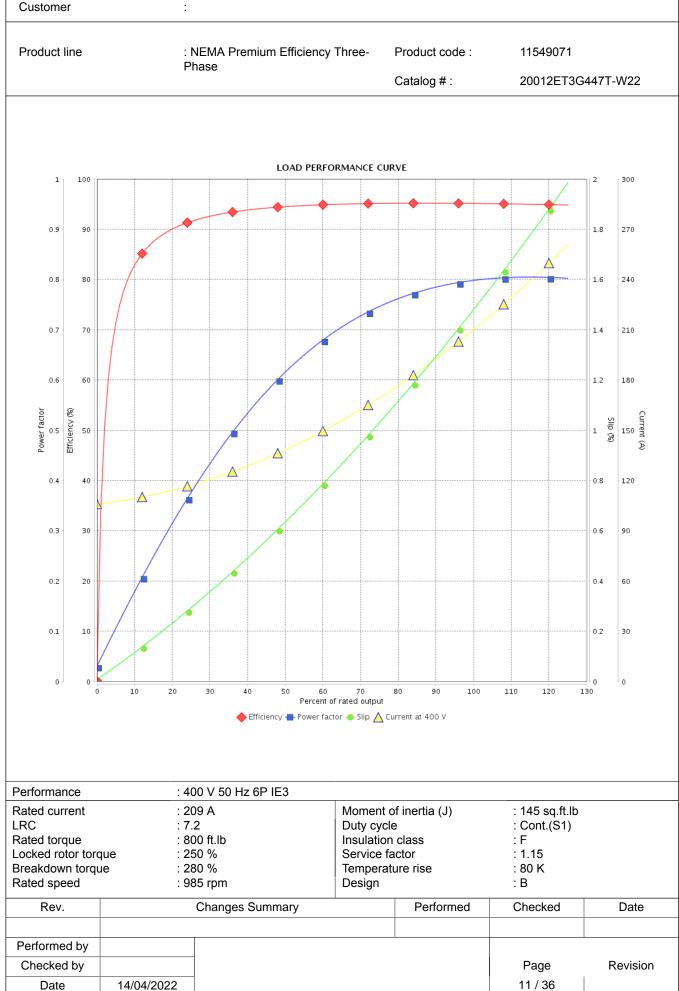


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



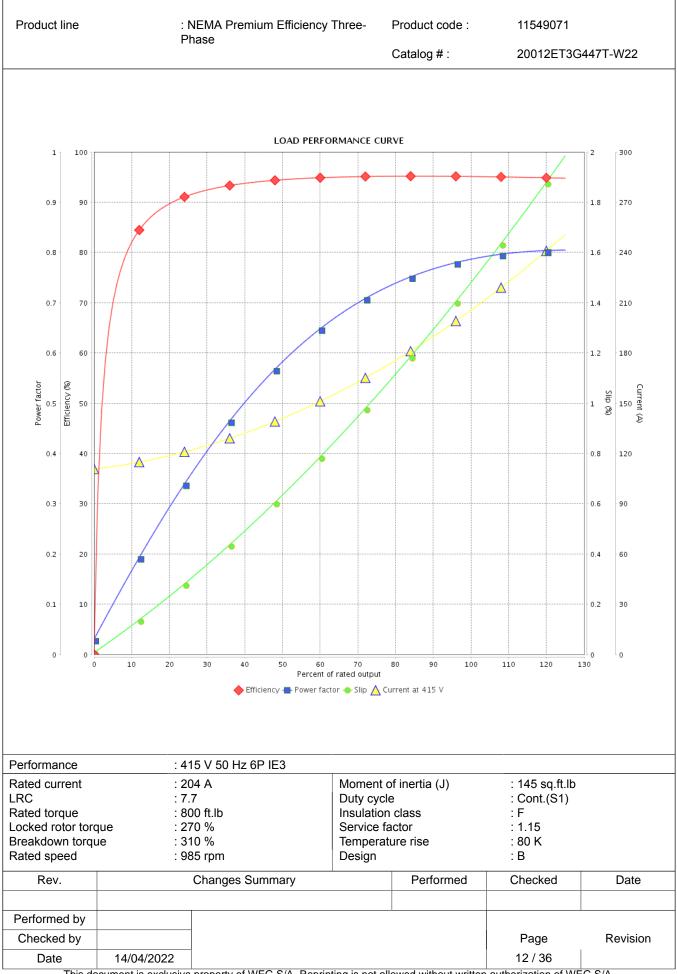
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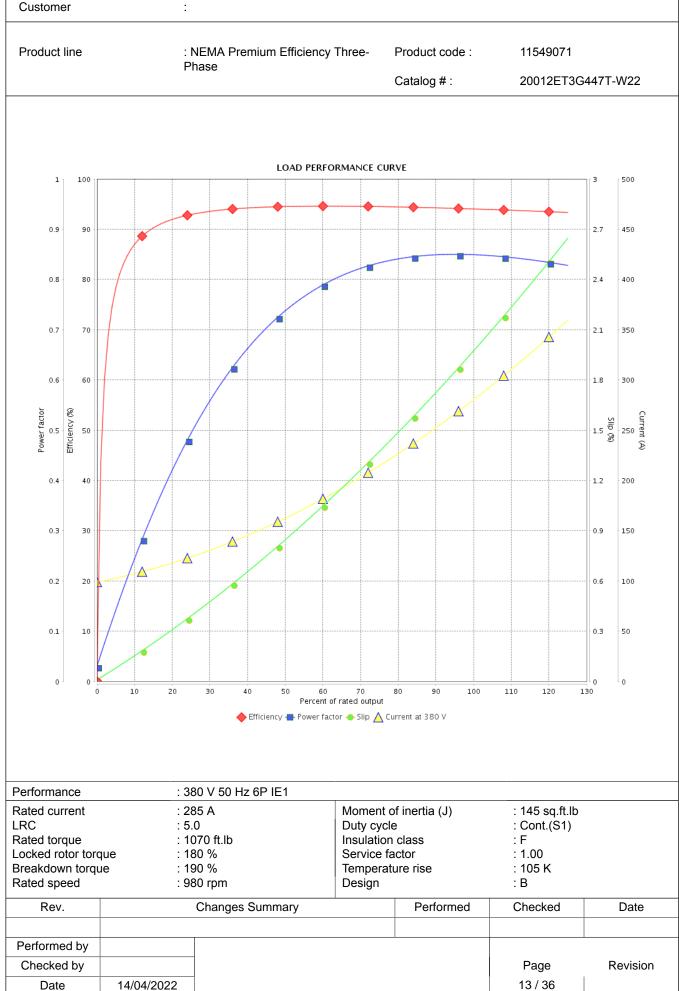


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Three Phase Induction Motor - Squirrel Cage

Customer



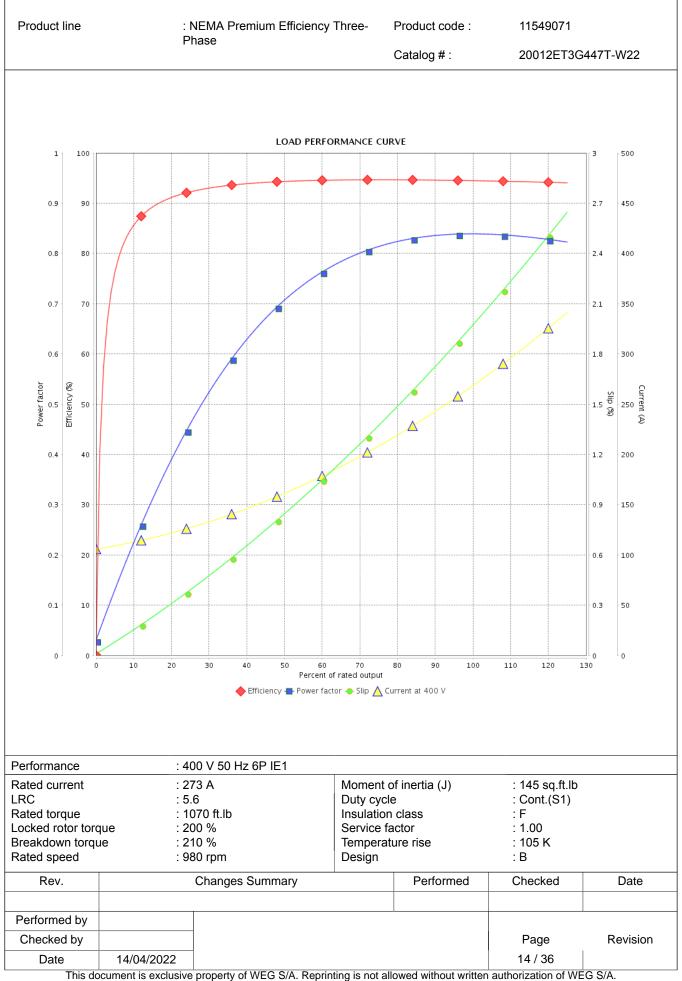
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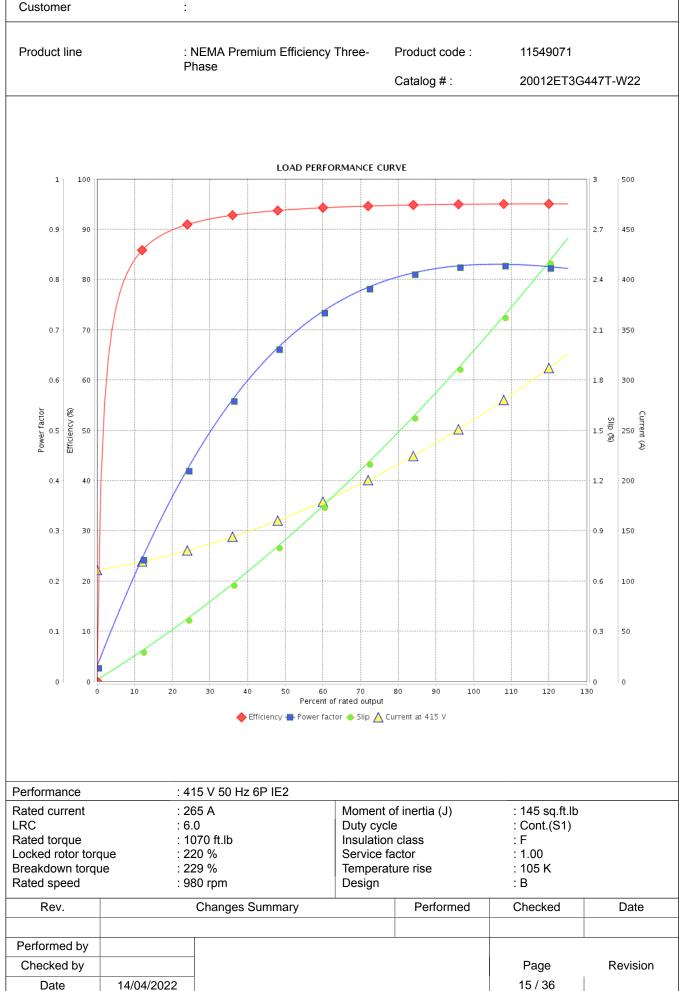


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Three Phase Induction Motor - Squirrel Cage

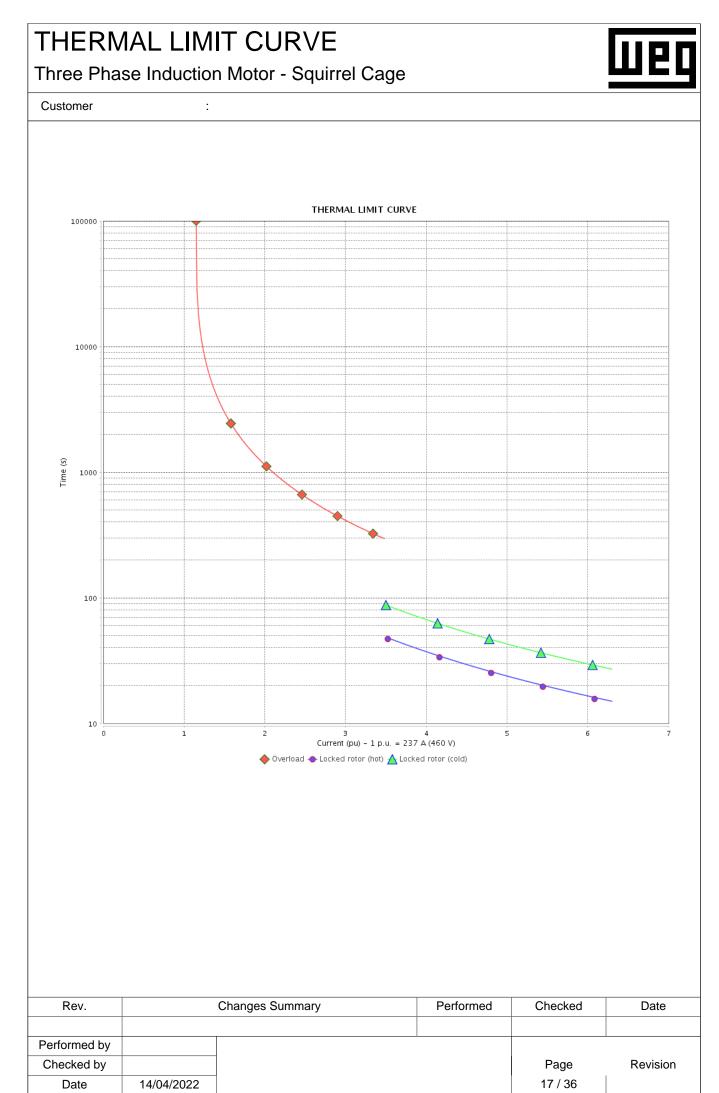
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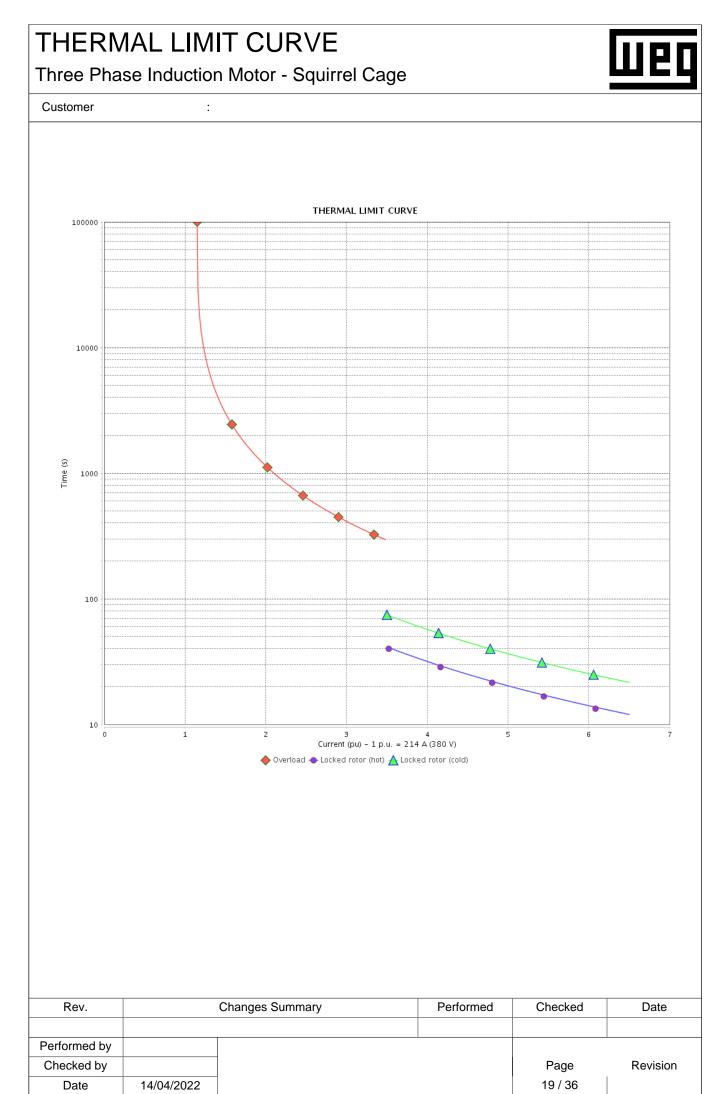
THERMAL	LIMIT CURVE		UPD
Three Phase Ind	uction Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
		Catalog # :	20012ET3G447T-W22

Performance	: 4	460 V 60 Hz 6P				
Rated current	: 2	237 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 6	6.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	386 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :2	229 %	Service factor		: 1.15	
Breakdown torqu	e :2	240 %	Temperature rise		: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
Heating constant						
Cooling constant						
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			Web
Three Phase Inc	duction Motor - Squirrel Cage	;	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
	T have	Catalog # :	20012ET3G447T-W22

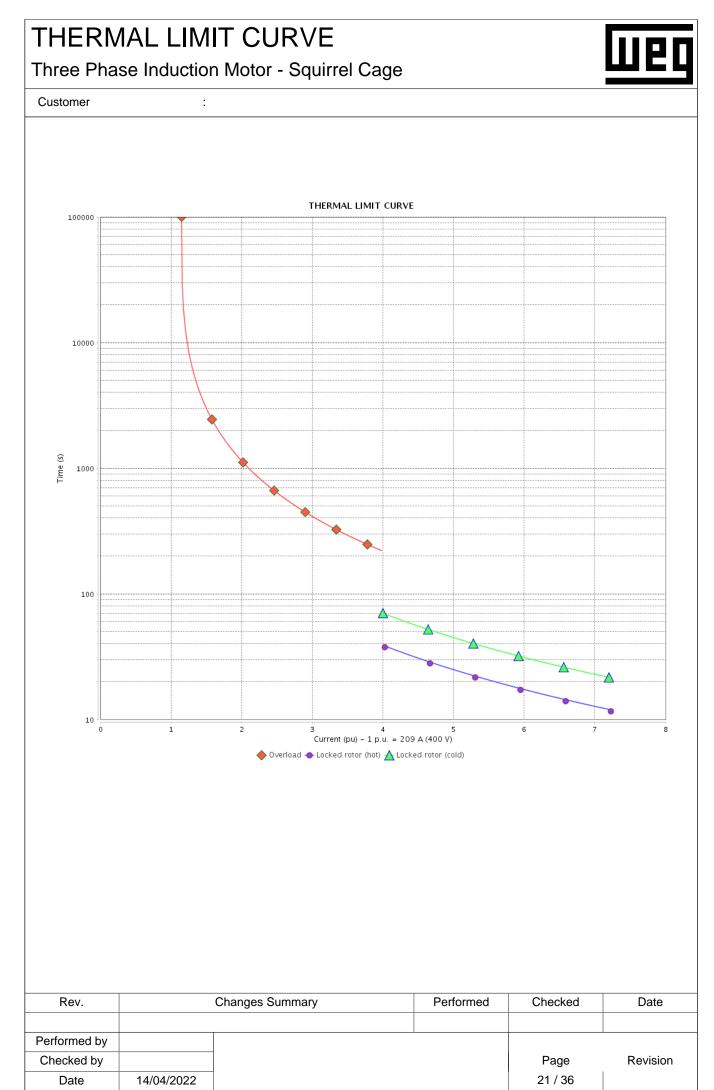
Performance	: 3	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 8 jue : 2 ie : 2	214 A 5.5 500 ft.lb 229 % 260 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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THERMAI	LIMIT CURVE		
Three Phase I	nduction Motor - Squirrel Cage	;	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
	Theorem and the second s	Catalog # :	20012ET3G447T-W22

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Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 8 que : 2 Je : 2	9 AMoment of inertia (J)2Duty cycle0 ft.lbInsulation class0 %Service factor0 %Temperature rise5 rpmDesign		class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant	t					
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THERMAL	LIMIT CURVE		
Three Phase In	duction Motor - Squirrel Cage	;	<u> </u>
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
	Thase	Catalog # :	20012ET3G447T-W22

Rev. **Changes Summary**

Performance Rated current

Rated torque

Rated speed

Locked rotor torque

Breakdown torque

Heating constant Cooling constant

LRC

: 415 V 50 Hz 6P IE3

: 204 A

: 800 ft.lb

: 270 %

: 310 %

: 985 rpm

: 7.7

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Performed

Moment of inertia (J)

Duty cycle

Design

Insulation class

Temperature rise

Service factor

: 145 sq.ft.lb

: Cont.(S1)

: F

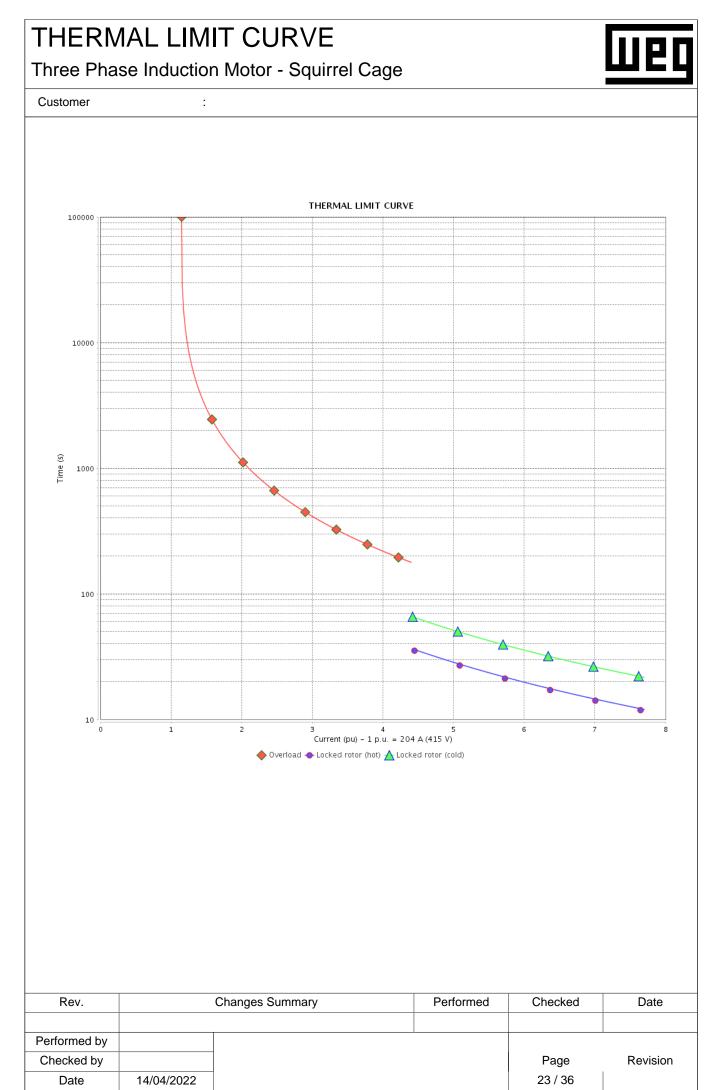
: B

: 1.15

: 80 K

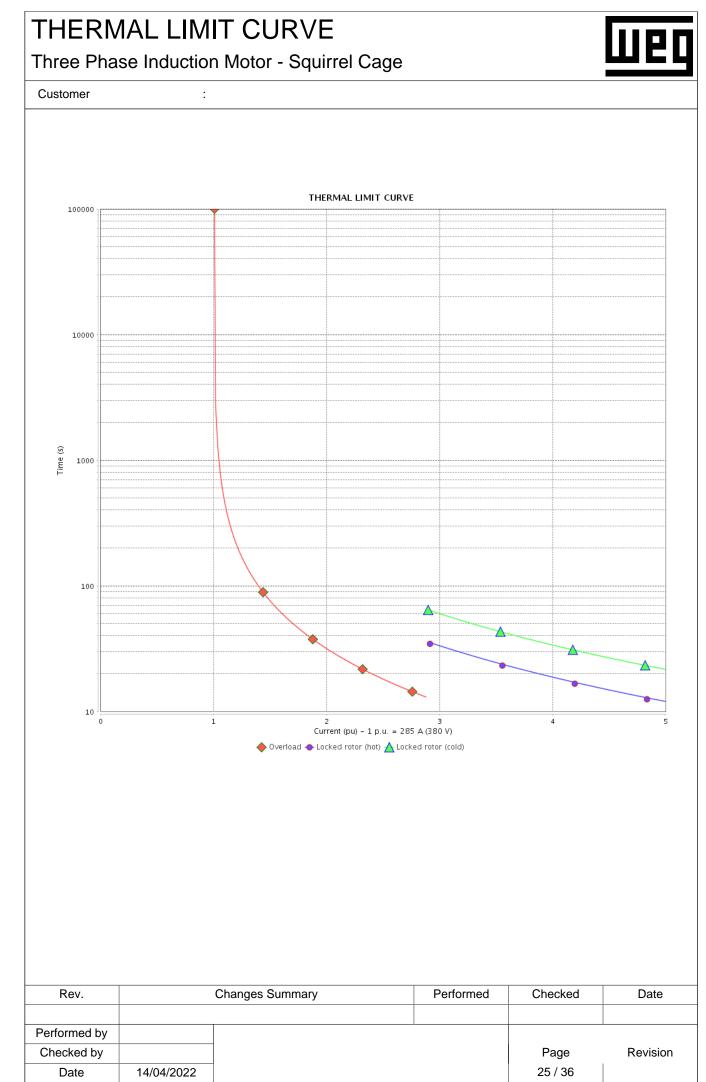
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Three Phase Induc	tion Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
	Flidse	Catalog # :	20012ET3G447T-W22

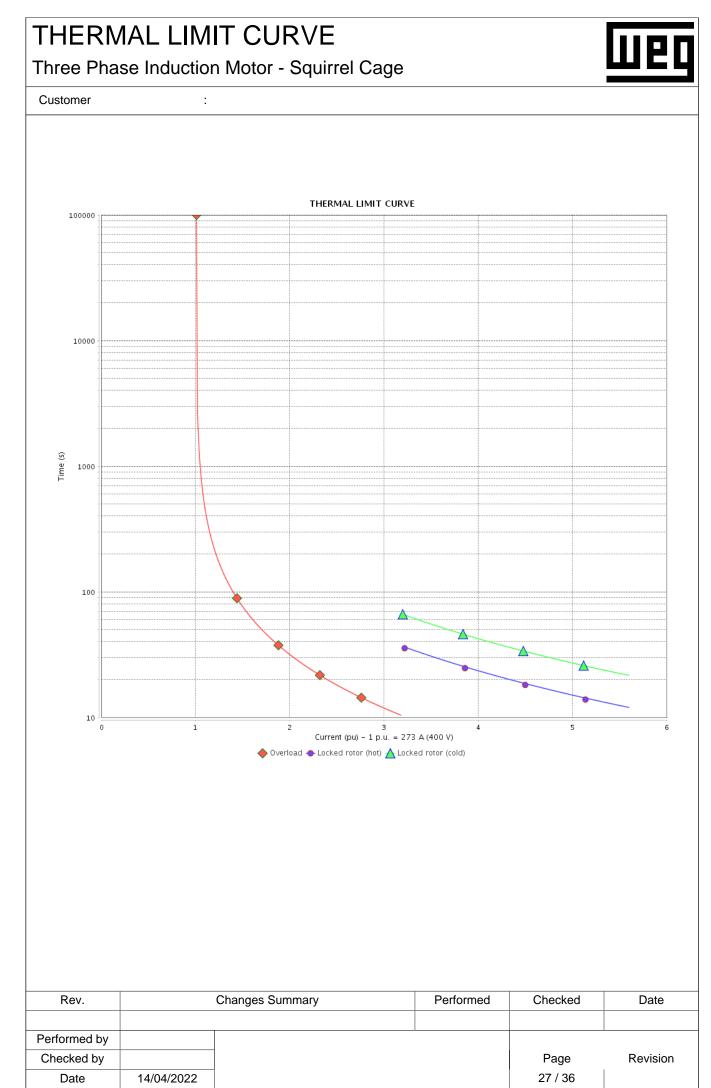
Dorformonoo		380 V 50 Hz 6P IE1				
Performance		380 V 50 HZ 6P IE I				
Rated current	:	285 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	:	5.0	Duty cycle	9	: Cont.(S1)	
Rated torque	:	1070 ft.lb	Insulation	class	: F	
Locked rotor tore	que :	180 %	Service factor		: 1.00	
Breakdown torqu	Je :	190 %	Temperature rise		: 105 K	
Rated speed	:	980 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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THERMAL L	IMIT CURVE		
Three Phase Indu	uction Motor - Squirrel Cage	;	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071
	11000	Catalog # :	20012ET3G447T-W22

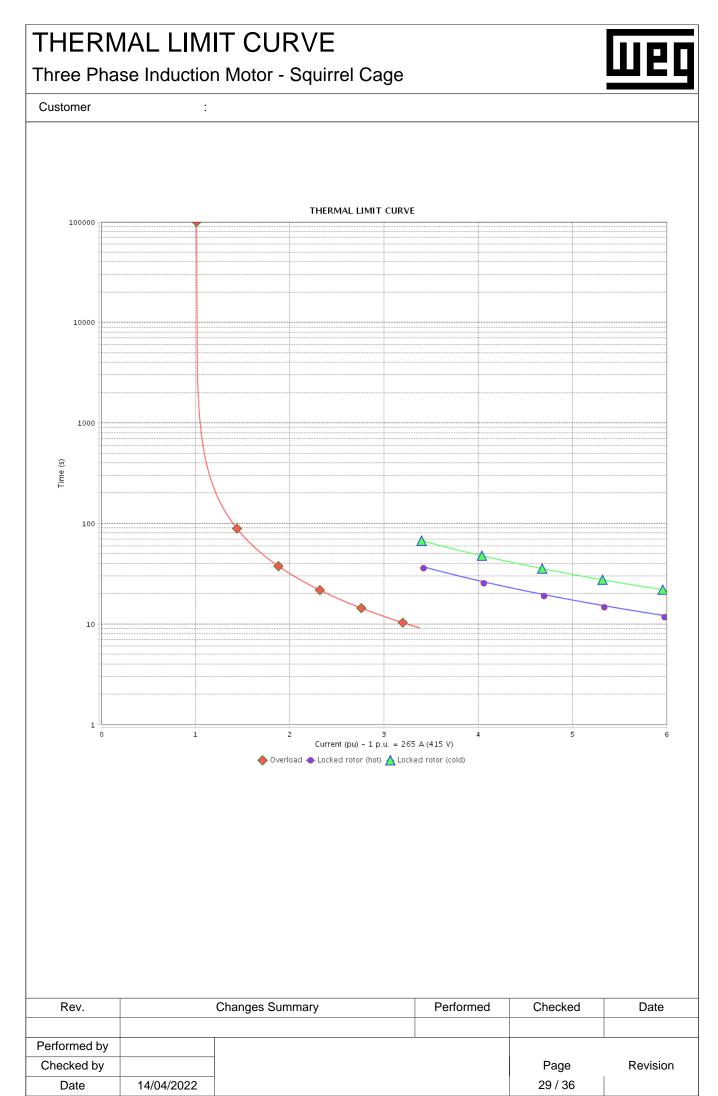
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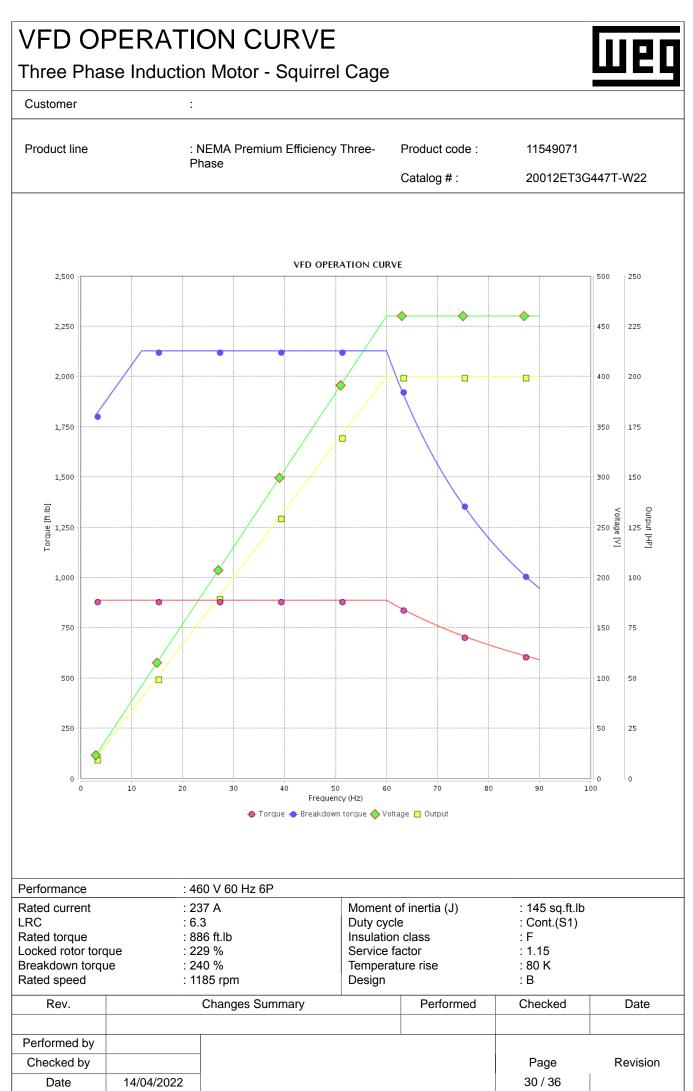
Performance	: 4	00 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5 : 1 que : 2 ue : 2	73 AMoment of iner0.6Duty cycle070 ft.lbInsulation class00 %Service factor10 %Temperature ris80 rpmDesign		class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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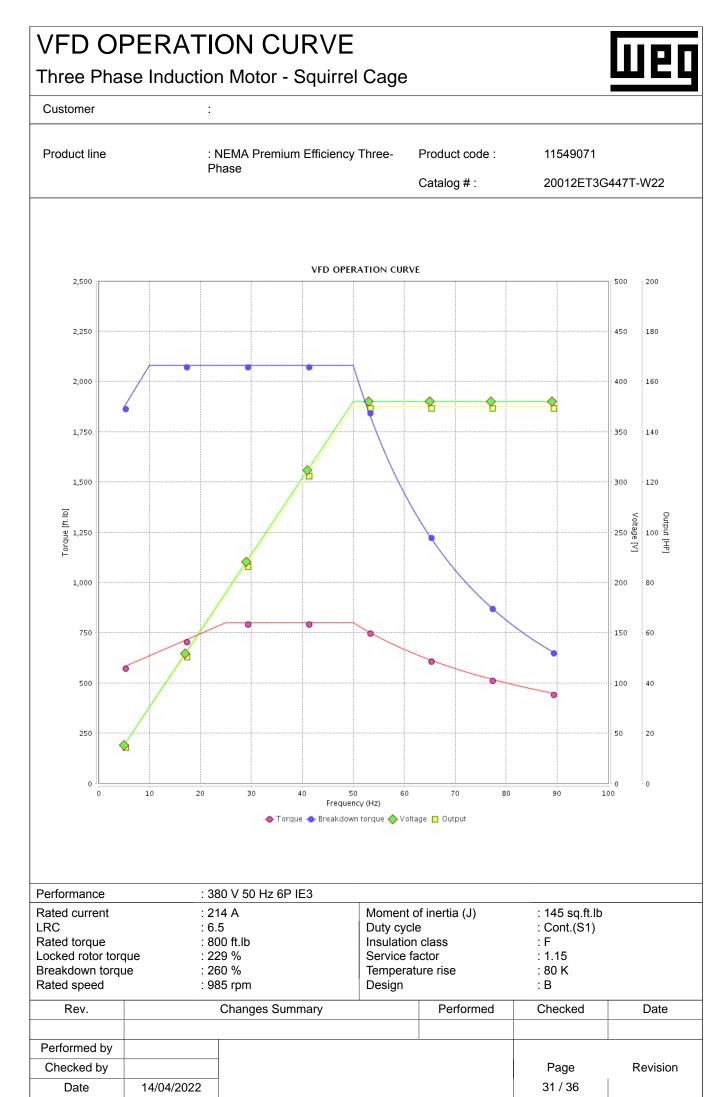


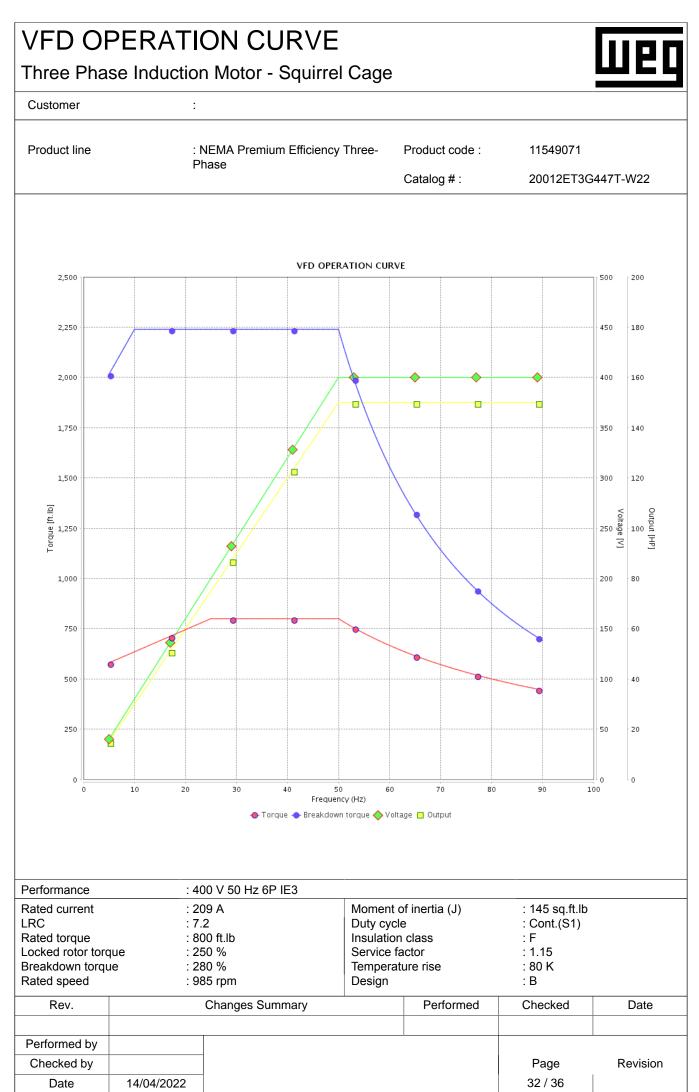
THERMAL	UPD						
Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11549071				
		Catalog # :	20012ET3G447T-W22				

Performance	:	415 V 50 Hz 6P IE2				
Rated current		265 A	Moment of inertia (J)		: 145 sq.ft.lb	
LRC	:	6.0	Duty cycle		: Cont.(S1)	
Rated torque	:	1070 ft.lb	Insulation class		: F	
Locked rotor torqu	le :	220 %	Service factor		: 1.00	
Breakdown torque	e :	229 %	Temperature rise		: 105 K	
Rated speed	:	980 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev. Changes Summary			Performed	Checked	Date	
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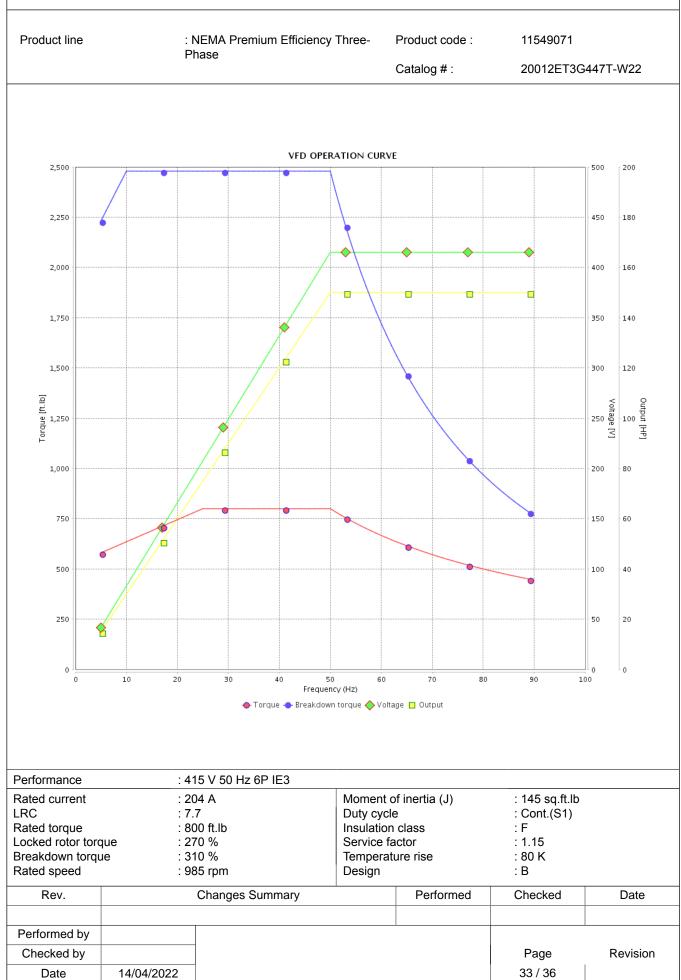


VFD OPERATION CURVE

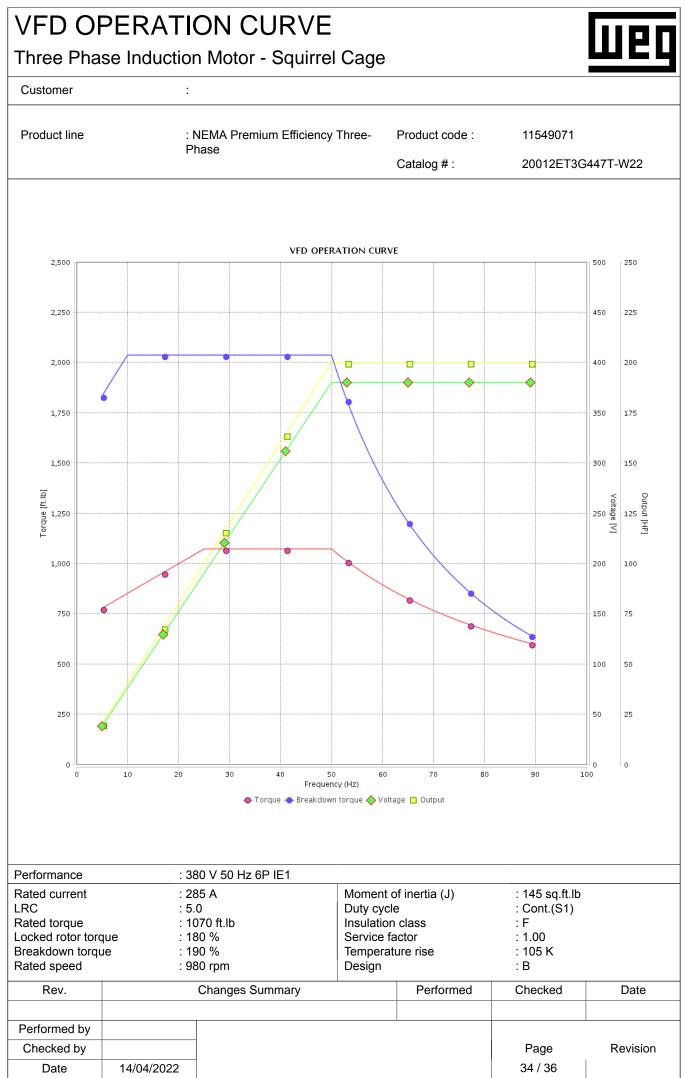
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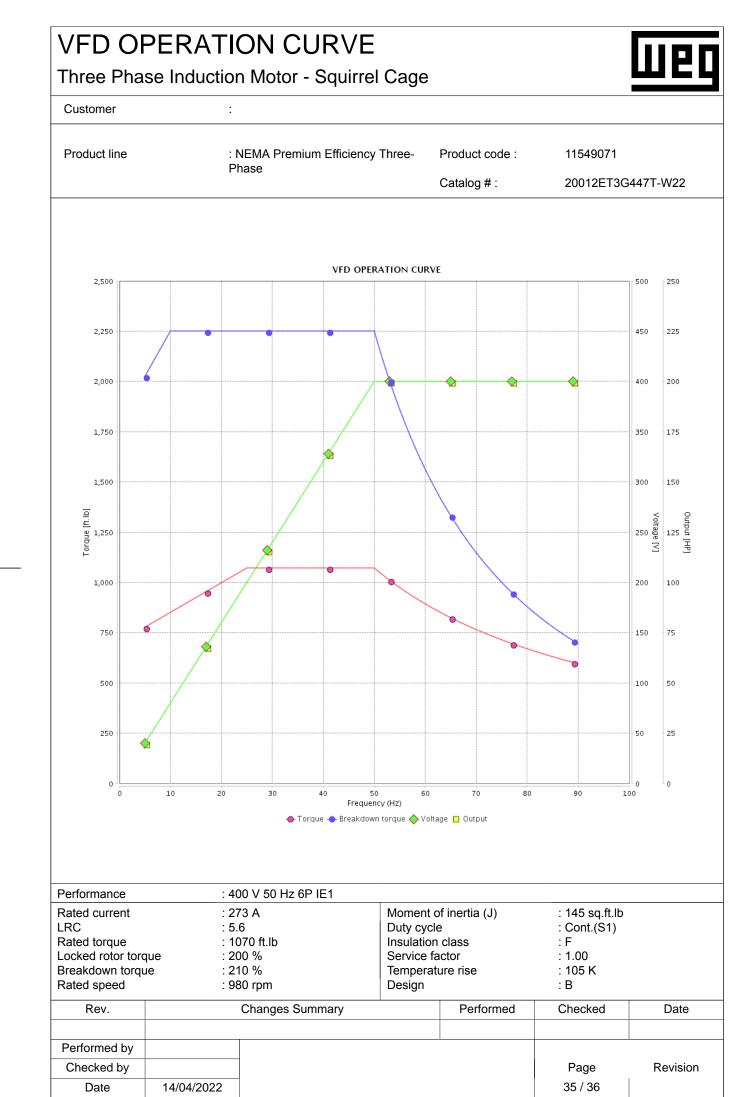
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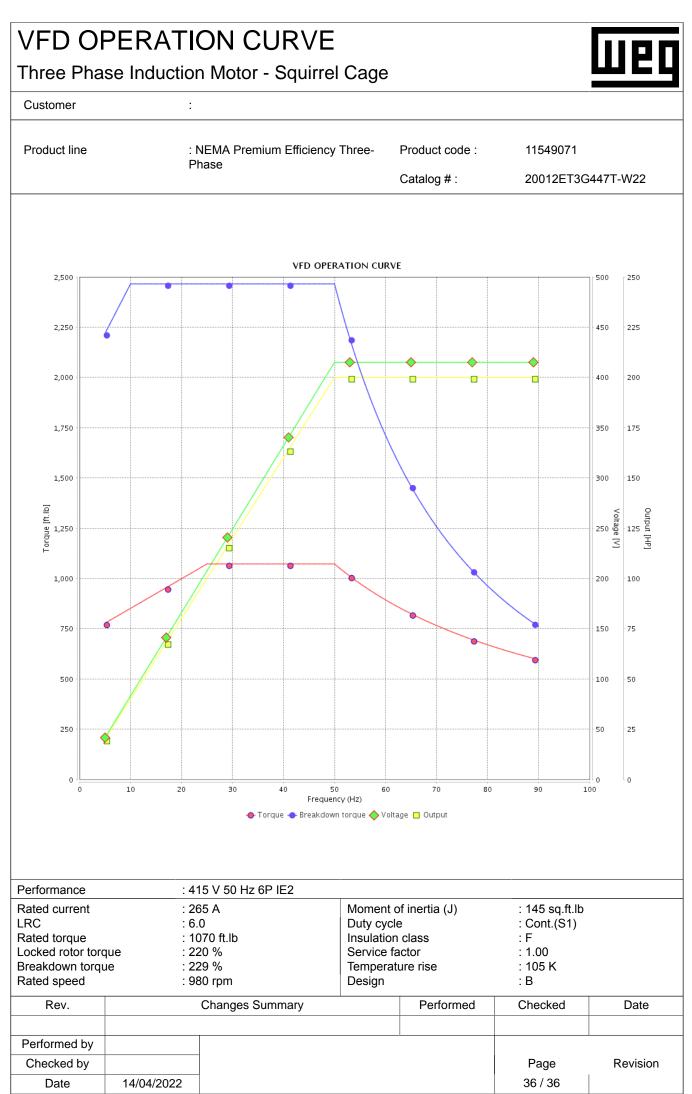
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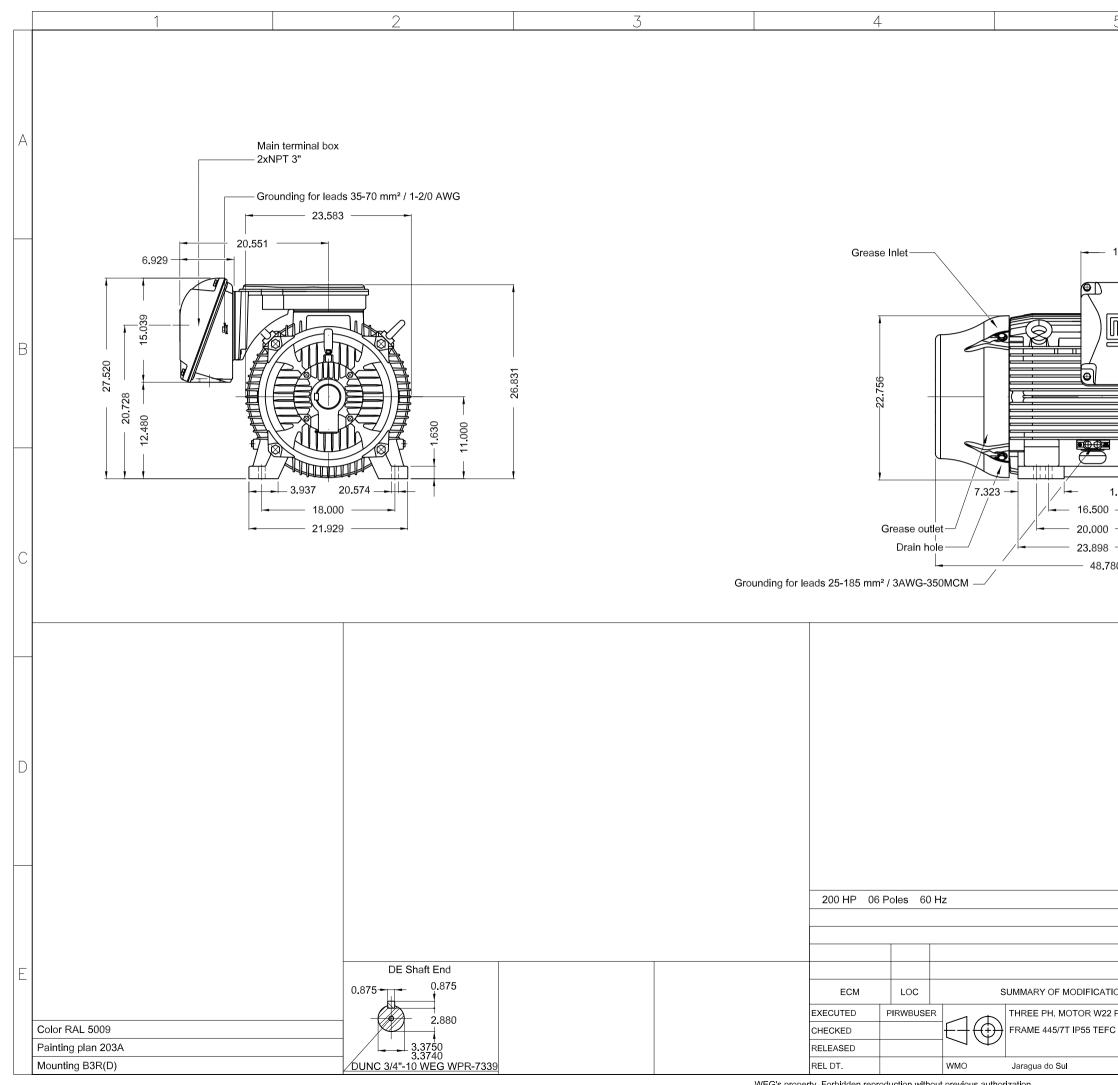


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		Drain hole				
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		Premium W22				FOR SAFE AREA Mod.TE1BF0X0N CC029A	C C Energy Verifier	Class II, Div 2, Gr F and G - T3C
CO	MODEL 20012ET3							For use on PWM: Gr. A, B, C, D and F, VT 1000:1, CT 20:1, 1.00SF - T3
22 -	Inverter Duty Moto Severe Duty	or						- PART-WINDING WYE-DELTA
MEXI 071	PH3 60Hz	Fr. 445/7T	1000m.a.s.l.	IP55 TEF	C 2491lb			START RUN START RUN 011201100111 011201100111 011201100111 011201100111
∠ 4	V 460			A 237			-	신77 신78 신79 신77 신78 신79 신76 신74 신75 신76 신74 신75
	HP 200			kW 150				- 76 - 74 - 75 - 576 - 574 - 575 - 77 - 788 - 79 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 571 - 572 - 573 - 572 - 57
MADE 11	SF 1.15			SFA 273				<u>ử tế tả lử tế tả lử tế tả lử tế tả .</u>
ΪW	RPM 1185			PF 0.83			(Th	(3)
	AMB 40°C		INS (cl. F DT801	K NEWA NOM EFF 95.8	3%	≝→	6316-C3 (34g)
	DUTY CONT.		DES	B Code	G		Ŕ	MOBIL POLYREX EM (13000h)
							X	[]]
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