DATA SHEET

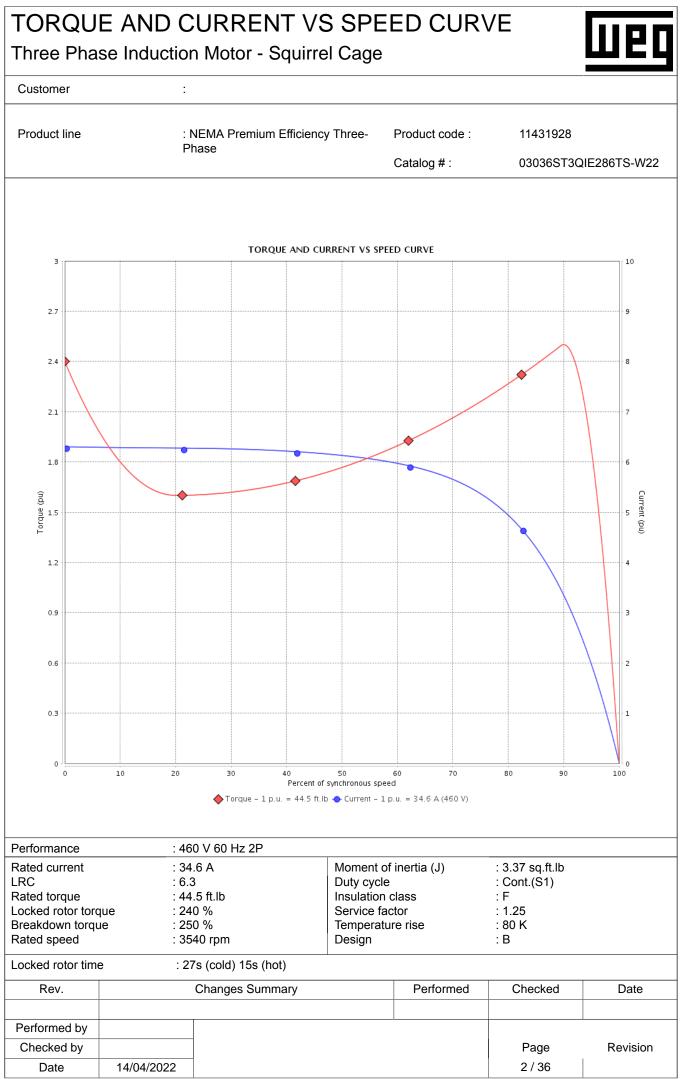
Three Phase Induction Motor - Squirrel Cage

:

Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code	e: 11	431928	
					Catalog # :	03	036ST3QIE28	36TS-W22
Frame Insulation class		: 284/6TS : F		Mounti		: F	-	0.0141
Duty cycle		: Cont.(S1)	40%0	Rotatio			Both (CW and	CCW)
Ambient tempera Altitude	ature	: -20°C to + : 1000 m.a.			g method		irect On Line	
Protection degree	•	: 1000 m.a. : IP55	5.1.		weight³ nt of inertia (J)		.37 sq.ft.lb	
Design	e	: IF 55 : B		Momen	it of mertia (J)			
•								
Dutput [HP]		30	25	25	25	30	30	30
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		34.6	34.6	33.2	32.4	42.0	40.0	38.2
. R. Amperes [A]		218	215	232	233	206	220	237
_RC [A]		6.3x(Code		I.UX(CODE H)	r.∠x(Code H)	4.9X(Code E)	5.5x(Code F)	
No load ourropt [A	1	G) 9.90	G)	10.0	10.6	9.40	10.0	G) 10.6
No load current [A			9.40 2935	10.0 2945	10.6 2950	9.40	10.0 2930	2935
Rated speed [RPN	/1]	3540						
Slip [%]		1.67	2.17	1.83	1.67	3.00	2.33	2.17
Rated torque [ft.lb]		44.5	44.7	44.6	44.5	54.1	53.8	53.7
Locked rotor torqu		240	220	260	229	180	200	220
Breakdown torque	່[້ທ]	250	229	270	290	200	220	240
Service factor		1.25 80 K	1.00 80 K	1.00 80 K	1.00 80 K	1.00 105 K	1.00 105 K	1.00 105 K
Temperature rise								
_ocked rotor time		27s (cold)	21s (cold)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		15s (hot) 72.0 dB(A)	12s (hot) 67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	12s (hot) 67.0 dB(A)	67.0 dB(A)	67.0 dB(A
	25%	12.0 UD(A)	07.0 UD(A)	07.0 UD(A)	07.0 UD(A)	07.0 UD(A)	07.0 UD(A)	
	50%	91.7	91.0	91.1	91.2	89.0	90.0	91.0
Efficiency (%)	50% 75%	91.7	91.0	91.1	91.2	89.0	90.0	91.0
	100%	91.7	91.5	91.5	91.8	89.5	90.2	91.0
	25%	31.7	92.7	- 	92. 1	00.0	30.2	51.0
	50%	0.77	0.80	0.76	0.74	0.83	0.80	0.78
Power Factor	75%	0.85	0.86	0.70	0.74	0.83	0.86	0.78
	100%	0.85	0.88	0.84	0.86	0.89	0.88	0.85
	10070	J			tion loads	0.00	0.00	0.00
Rearing type		<u>Drive end</u> : 6311 C3				~		
Bearing type							56 lb	
• • •	Sealing				Max. compression : 767 lb			
Sealing	val	: Inpro/Se			111010331011	. 70		
Sealing Lubrication interv		: 14000 h	17000	h	mpression	. 70		
Sealing Lubrication interv Lubricant amoun		: 14000 h : 18 g	n 17000 11 g	h	mpression	. /		
Sealing Lubrication interv Lubricant amoun Lubricant type		: 14000 h : 18 g	17000	h	mpression	. /		
Sealing Lubrication interv Lubricant amoun		: 14000 h : 18 g	n 17000 11 g	h				
Sealing Lubrication interv Lubricant amoun Lubricant type		: 14000 h : 18 g	n 17000 11 g	h				
Sealing Lubrication interv Lubricant amoun Lubricant type		: 14000 h : 18 g	n 17000 11 g	h		. /(
Sealing Lubrication interv Lubricant amoun Lubricant type		: 14000 h : 18 g	n 17000 11 g	h				
Sealing Lubrication interv Lubricant amoun Lubricant type Notes	.t	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM	h				
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla	it aces and can	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM	h These a	are average va	alues based o	n tests with si	
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate	aces and can	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM	h These a power s	are average va	alues based o		
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m	aces and can act from the	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which	h These a	are average va	alues based o	n tests with si	
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1	aces and can ed. Notor from the	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which 8dB(A).	h These a power s	are average va	alues based o	n tests with si	
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Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and can ed. lotor from the Im and with t weight subjec ocess.	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which 8dB(A).	h These a power s	are average va	alues based o	n tests with si	
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Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and can ed. lotor from the Im and with t weight subjec ocess.	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which 8dB(A).	h These a power s	are average va	alues based o	n tests with si	
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and can ed. lotor from the Im and with t weight subjec ocess.	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which 8dB(A). after	h These a power s	are average va upply, subject	alues based o	n tests with si nces stipulated	d in NEMA
Sealing Lubrication interv Lubricant amoun Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and can ed. lotor from the Im and with t weight subjec ocess.	: 14000 h : 18 g : Mobi	n 17000 11 g I Polyrex EM us one, which 8dB(A). after	h These a power s	are average va upply, subject	alues based o to the tolerar	n tests with sinces stipulated	d in NEMA
Sealing Lubrication interv Lubricant amoun Lubricant type Notes This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and can ed. lotor from the Im and with t weight subjec ocess.	: 14000 h : 18 g : Mobi model the previous e shaft end. olerance of +3 to changes Changes	n 17000 11 g I Polyrex EM us one, which 8dB(A). after	h These a power s	are average va upply, subject	alues based o to the tolerar	n tests with si nces stipulated	d in NEMA

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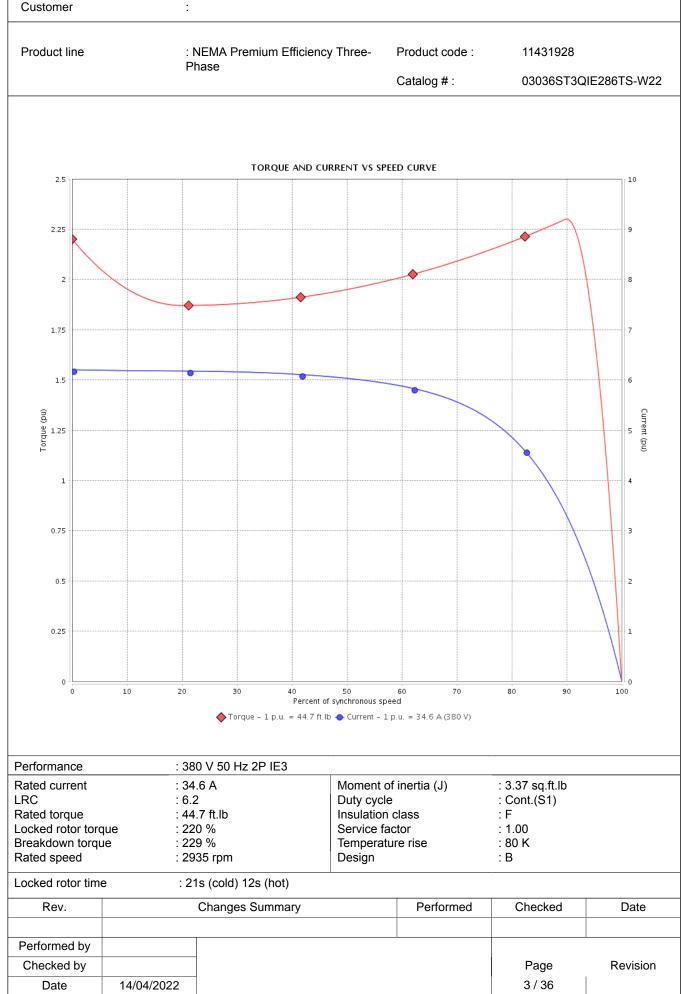


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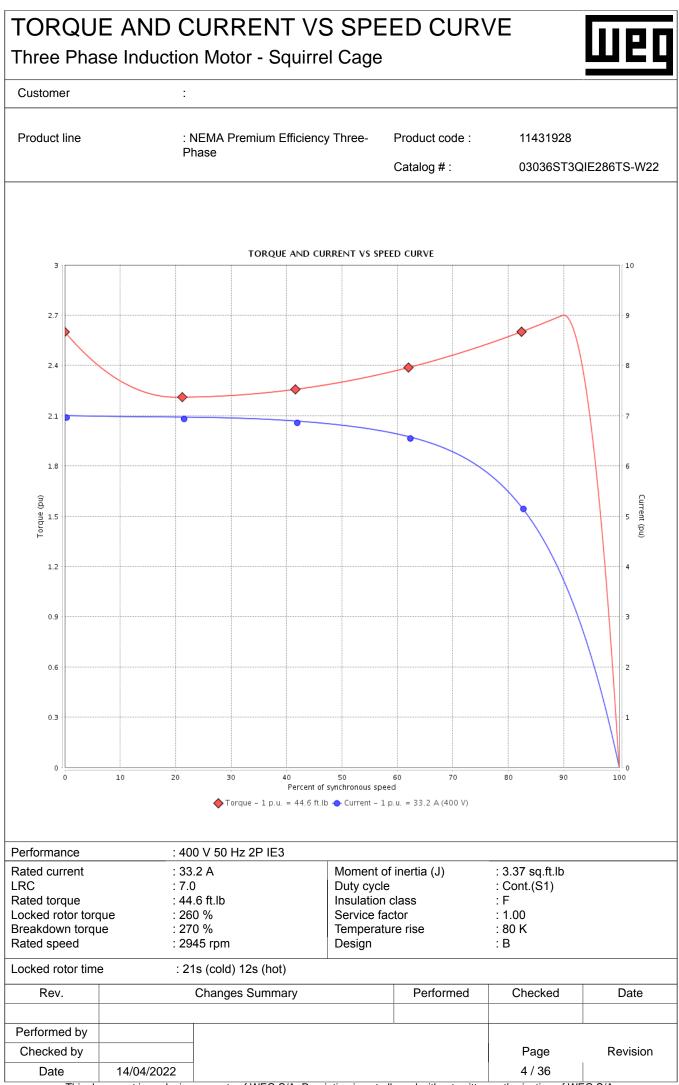
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



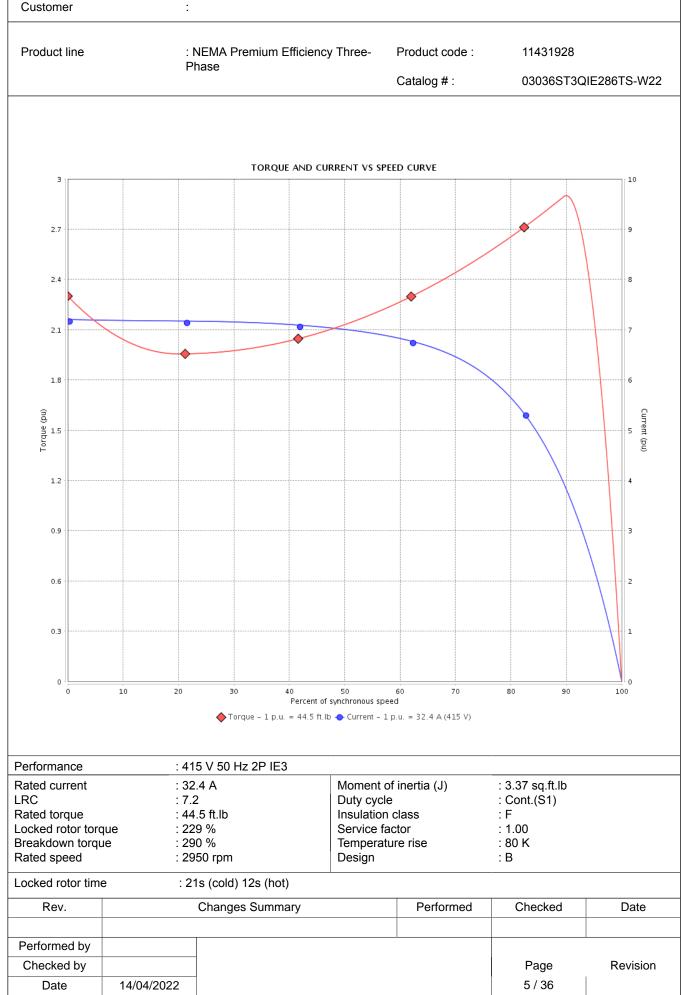
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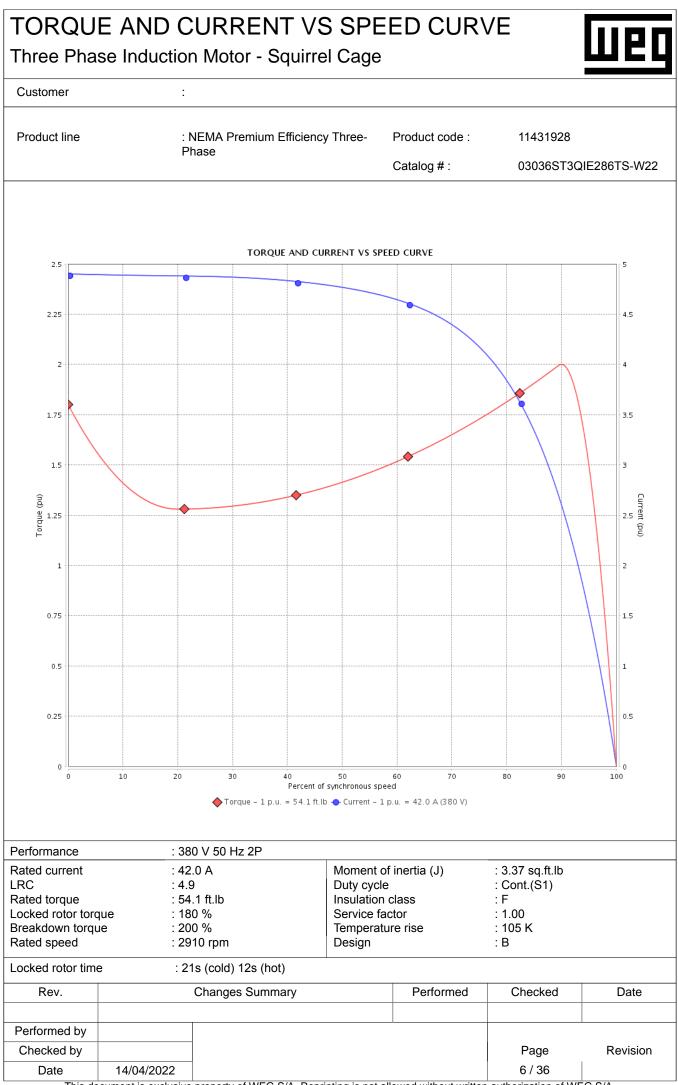
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



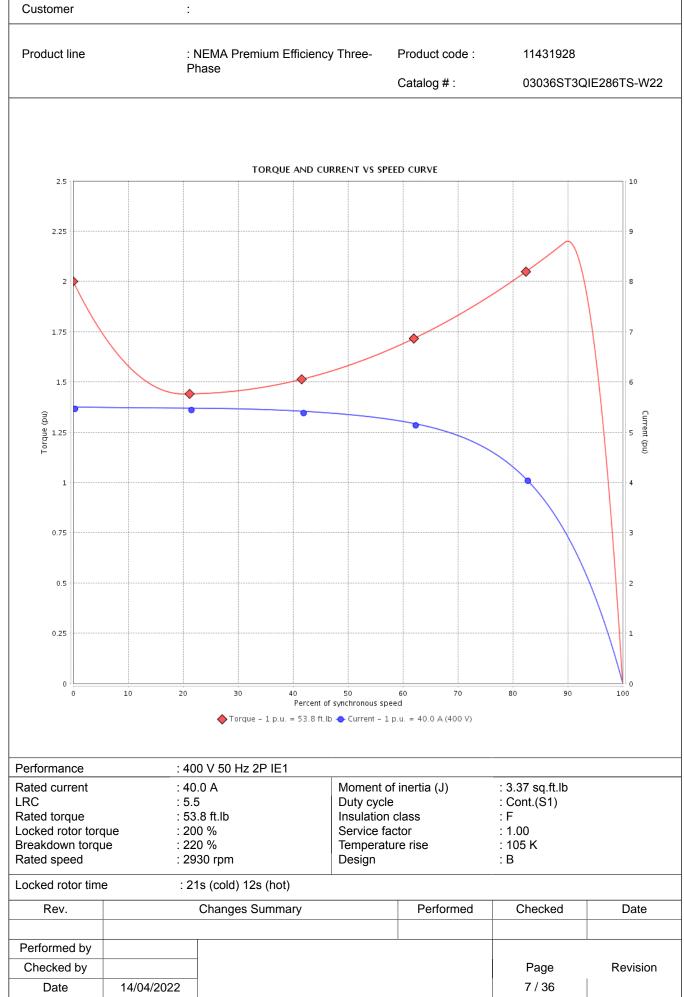
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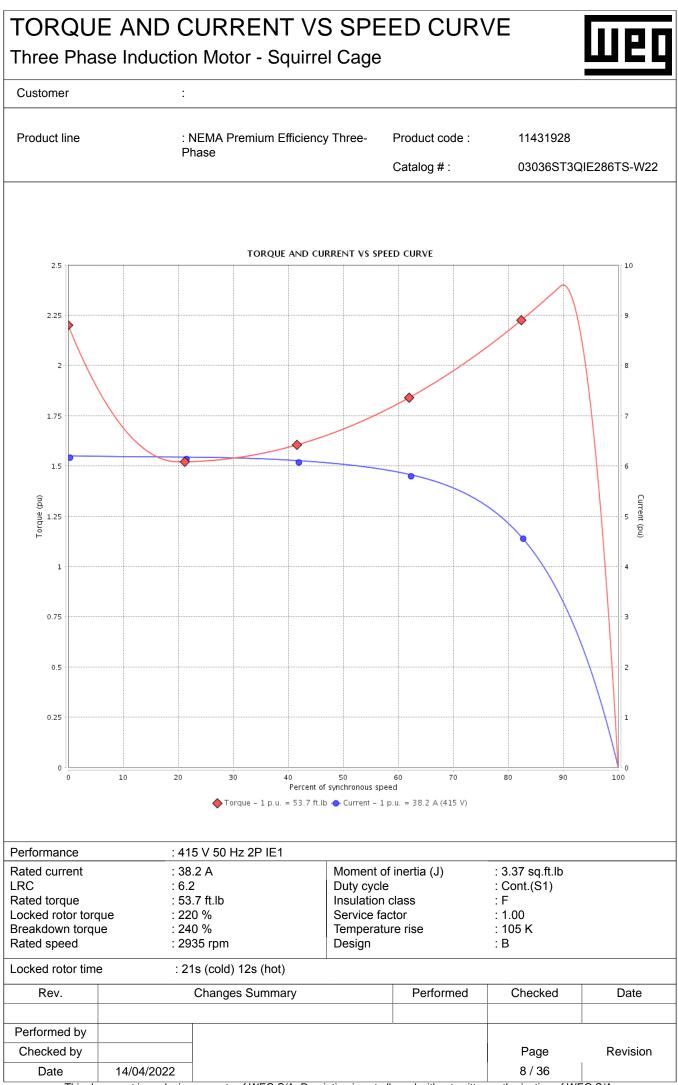
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

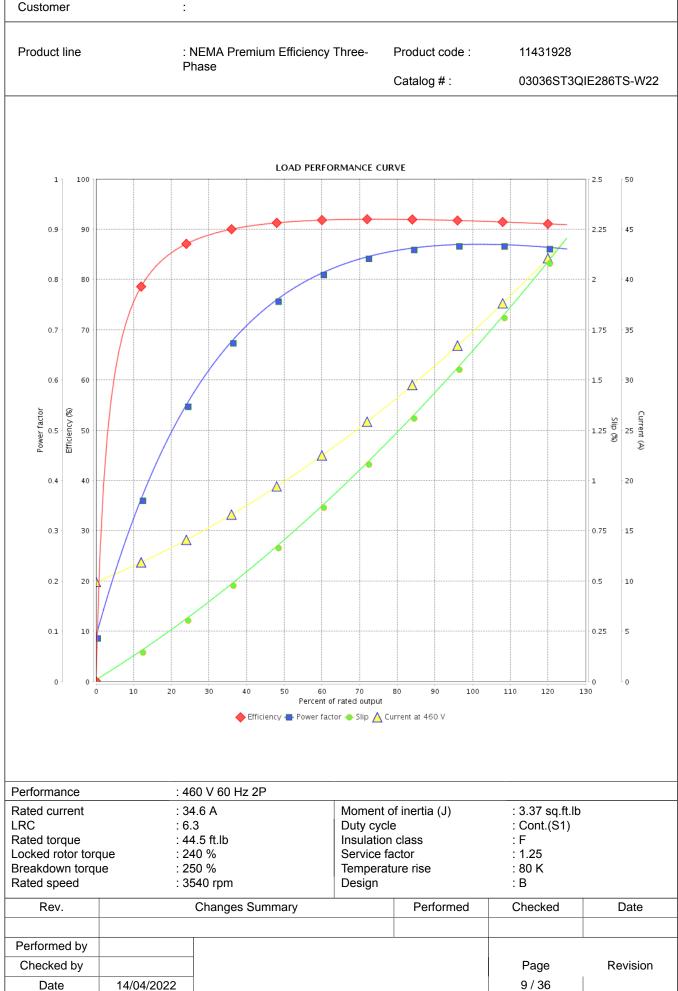


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Customer



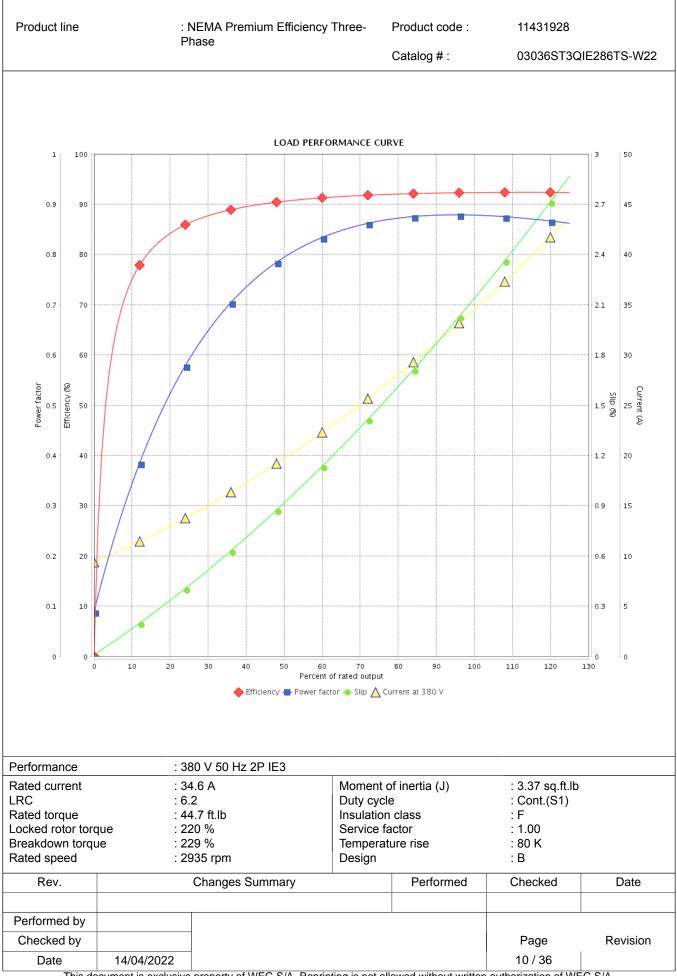
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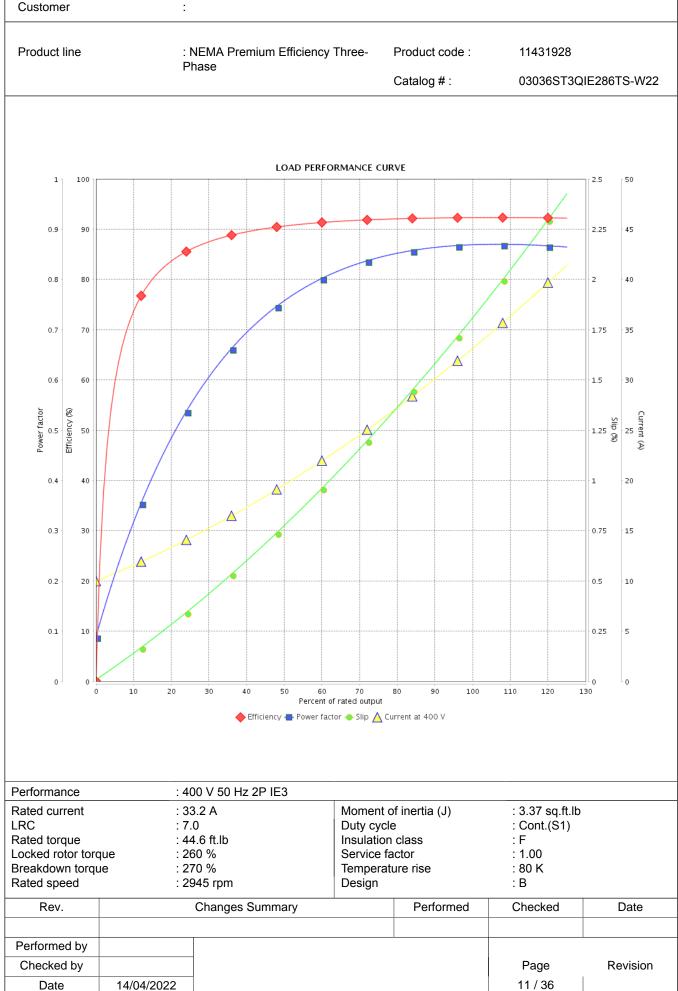


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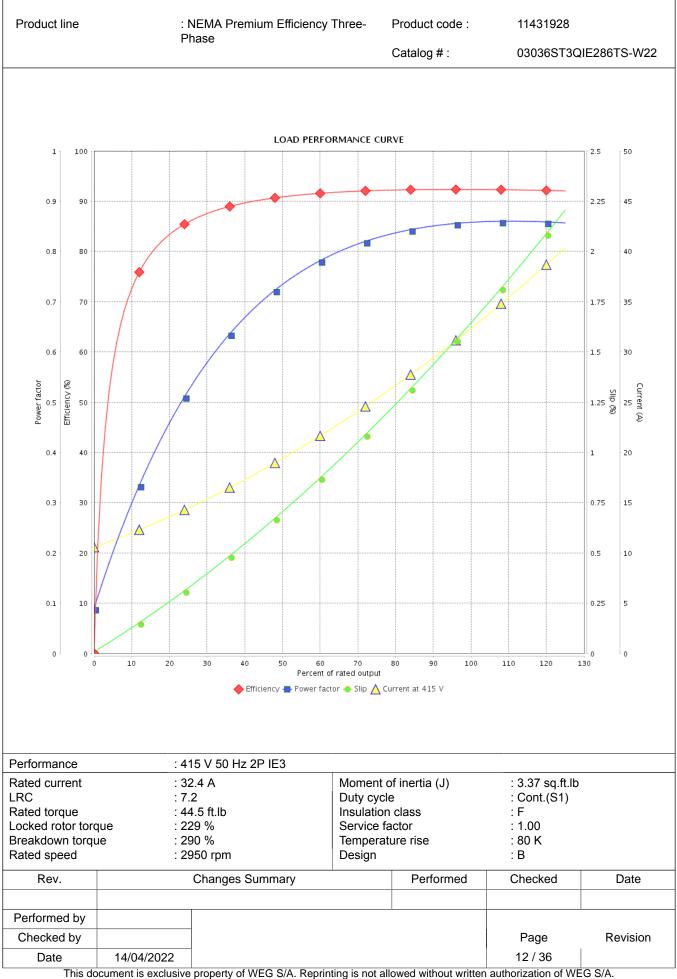
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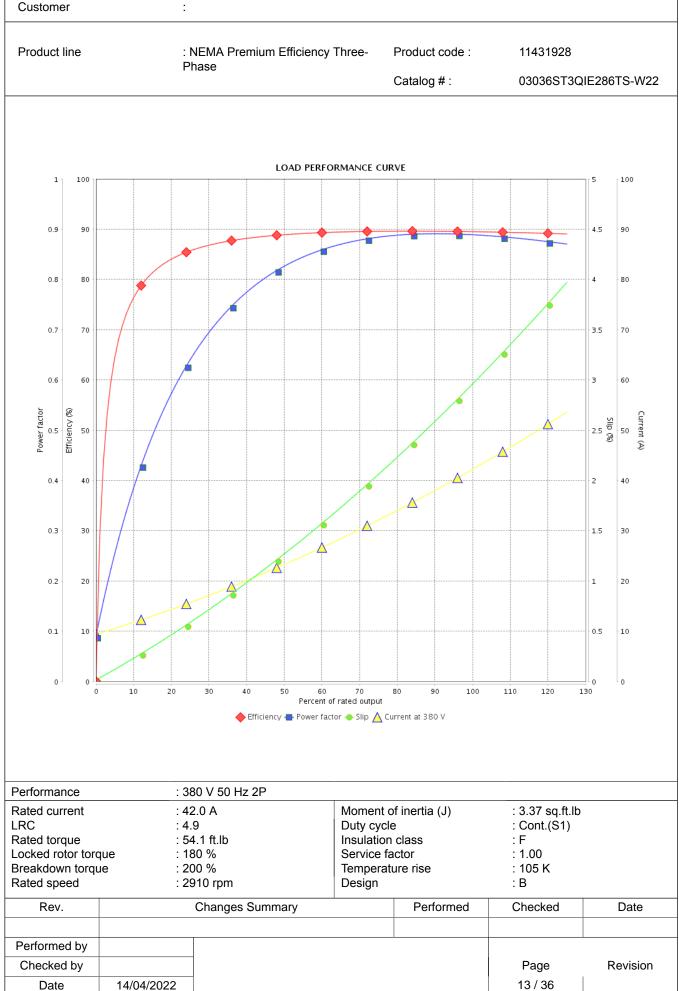


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Three Phase Induction Motor - Squirrel Cage

Customer



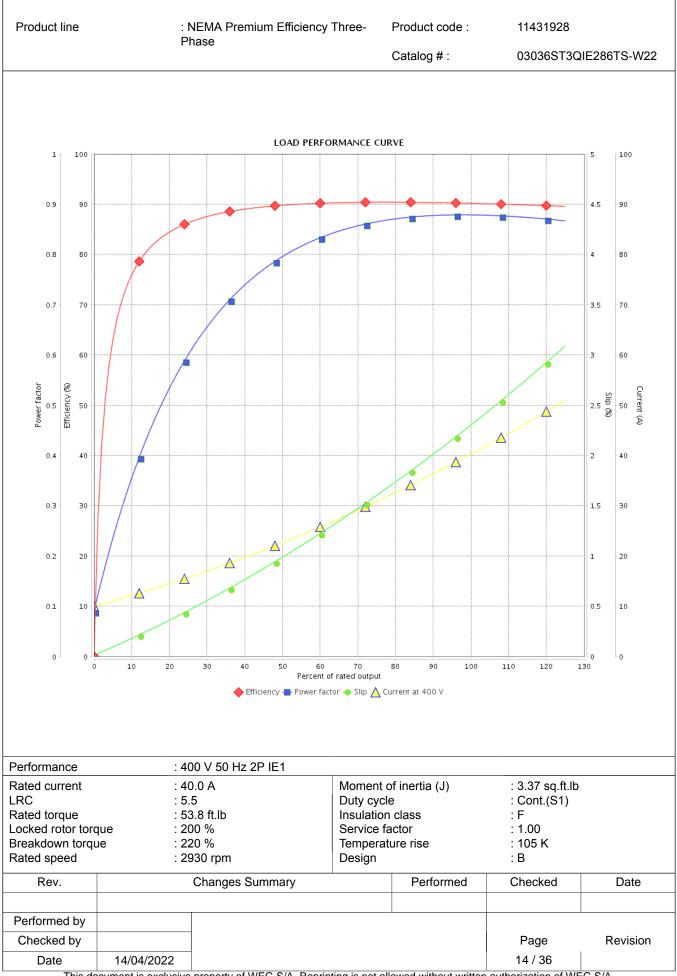
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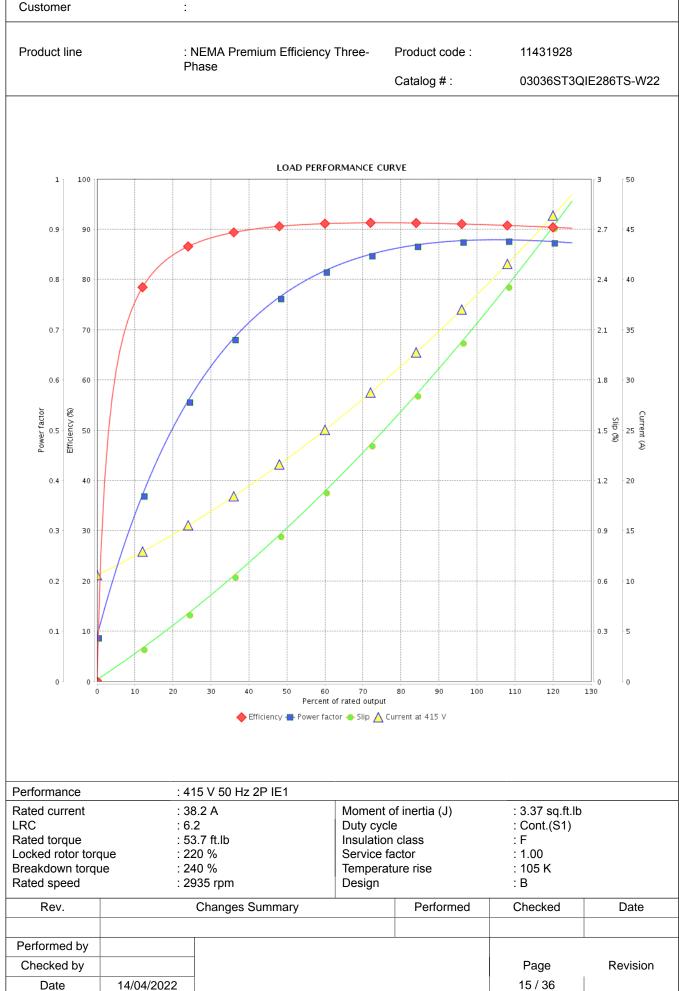


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Three Phase Induction Motor - Squirrel Cage

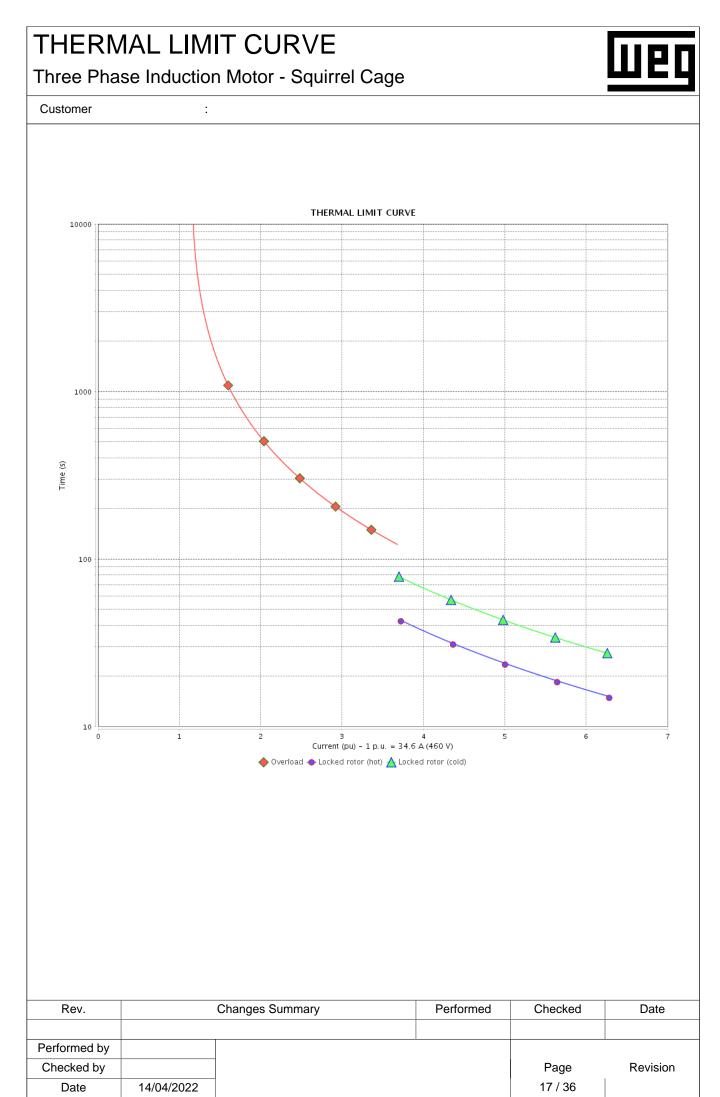
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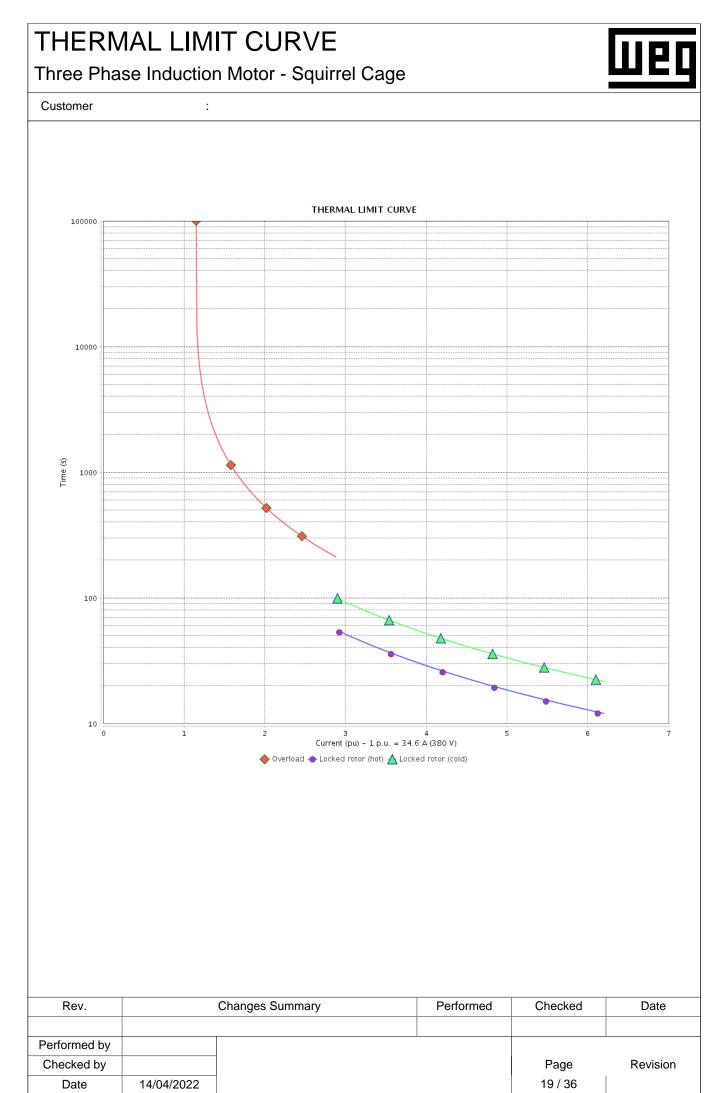
	LIMIT CURVE	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	11431928 03036ST3QIE286TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.3 E : 44.5 ft.lb II : 240 % S : 250 % T	Aoment of inertia (J) Duty cycle nsulation class Service factor ēmperature rise Design	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Heating constant			

1	•				
Cooling constant	t				
Rev.		Changes Summary	Performed	Checked	Date
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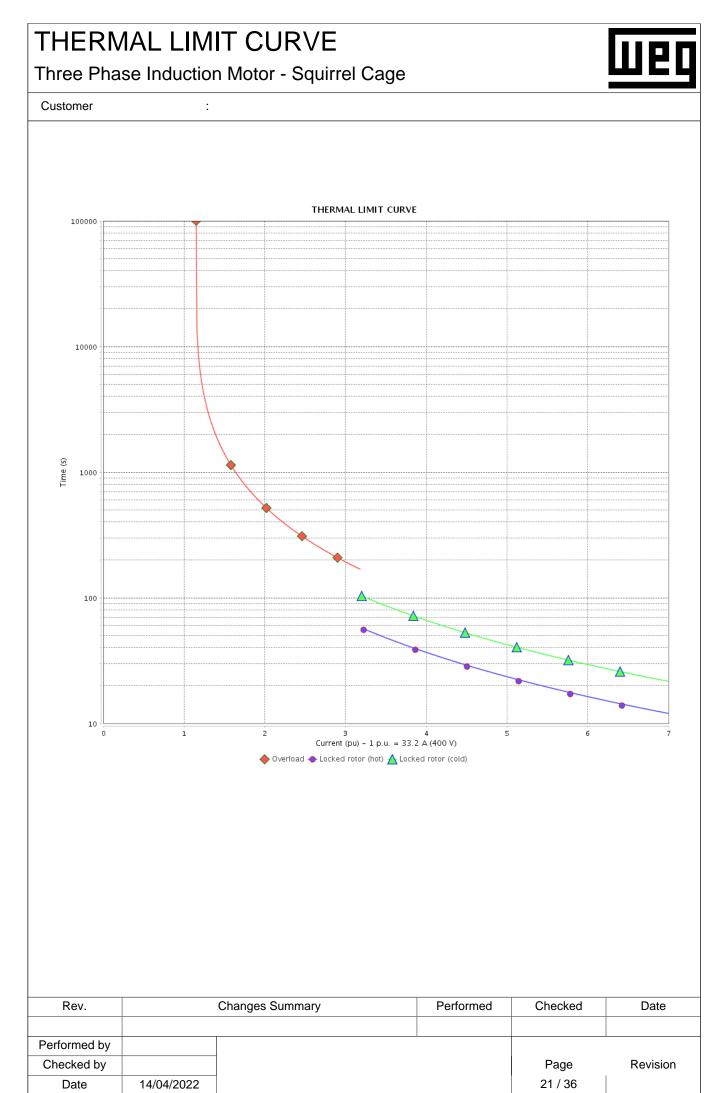
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage Customer							
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431928 03036ST3Q	IE286TS-W22		
Performance	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 34.6 A : 6.2 : 44.7 ft.lb ue : 220 %	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constant Cooling constant							
Rev.	Changes Summary		Performed	Checked	Date		

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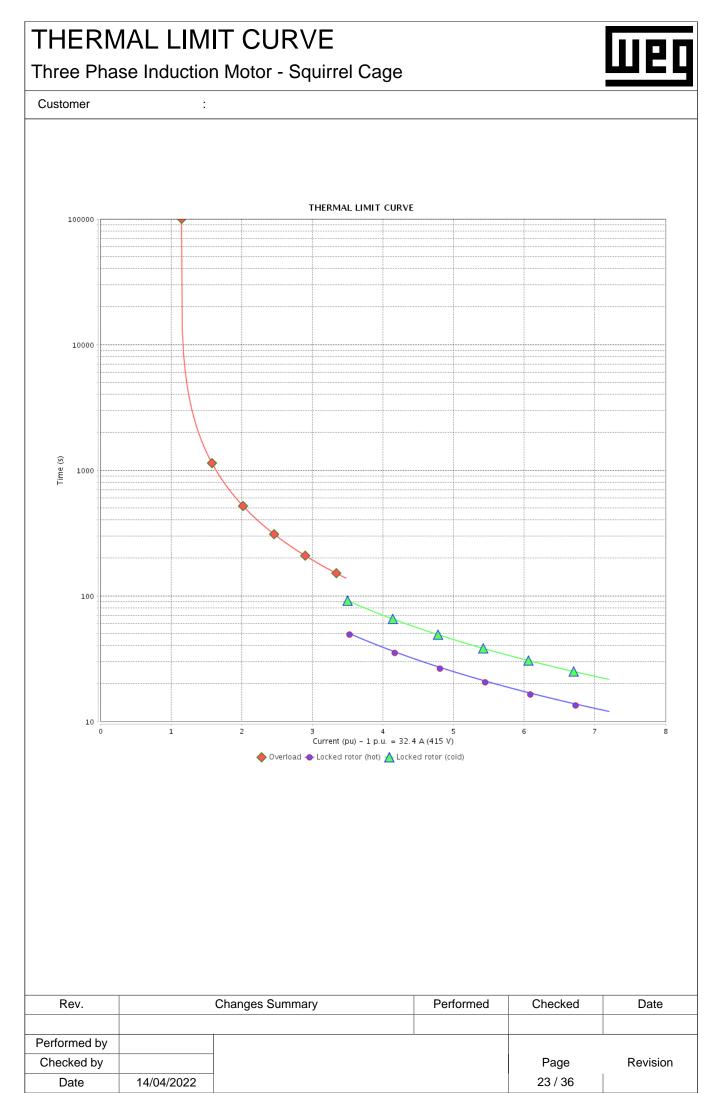
	IAL LIMIT CURVE se Induction Motor - Squi				шео
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11431928 03036ST3Q	E286TS-W22
Performance	: 400 V 50 Hz 2P IE3 : 33.2 A	Momonto	finartia (1)	· 2 27 ag ft lb	
Rated current LRC	: 7.0	Duty cycle		: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq	: 44.6 ft.lb ue : 260 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	e : 270 %	Temperate		: 80 K	
Rated speed	: 2945 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date

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	14/04/2022	14/04/2022	



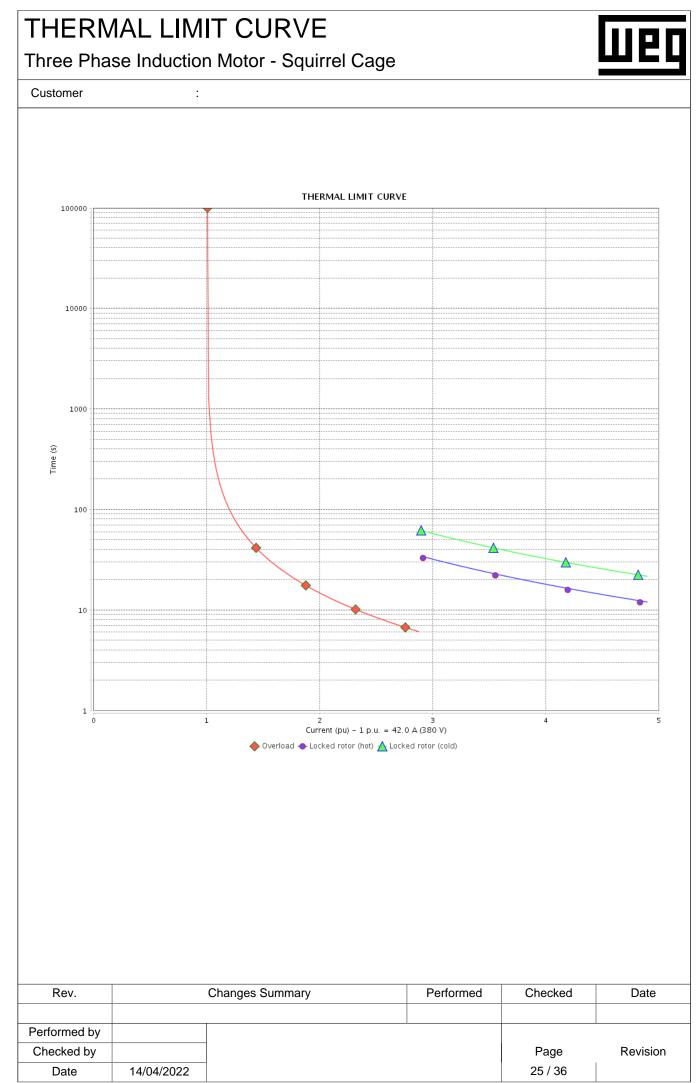
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		:	0				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431928 03036ST3C	IE286TS-W22	
Performance		: 415 V 50 Hz 2P IE3					
Rated current		: 32.4 A		f inertia (J)	: 3.37 sq.ft.lb		
LRC Rated torque		: 7.2 : 44.5 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor torc	lue	: 229 %	Service fa	ctor	: 1.00		
Breakdown torqu Rated speed		: 290 % : 2950 rpm	Temperatu Design	ure rise	: 80 K : B		
Heating constant		·					
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	

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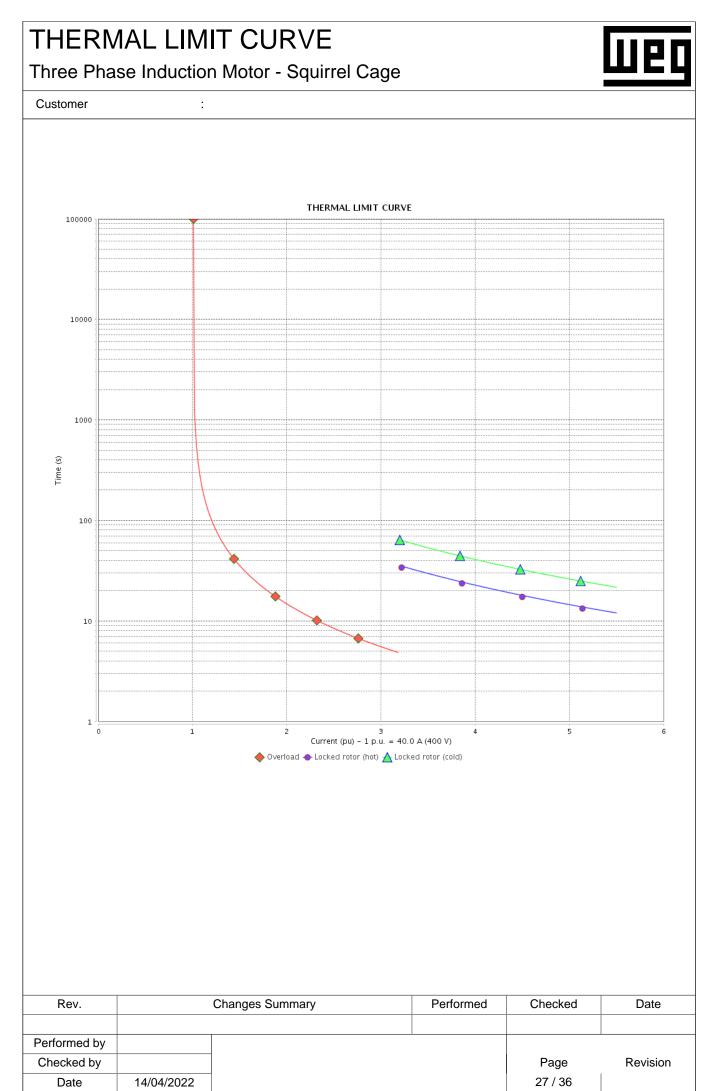
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency 1 Phase	hree- Product code : Catalog # :	11431928 03036ST3QIE286TS-W22				
Performance	: 380 V 50 Hz 2P						
Rated current LRC	: 42.0 A : 4.9	Moment of inertia (J) Duty cycle	: 3.37 sq.ft.lb : Cont.(S1)				
Rated torque	: 54.1 ft.lb	Insulation class	: F				
Locked rotor torq Breakdown torqu		Service factor Temperature rise	: 1.00 : 105 K				
Rated speed	: 2910 rpm	Design	: B				
Heating constant							
Cooling constant Rev.	Changes Summary	Performed	Checked Date				

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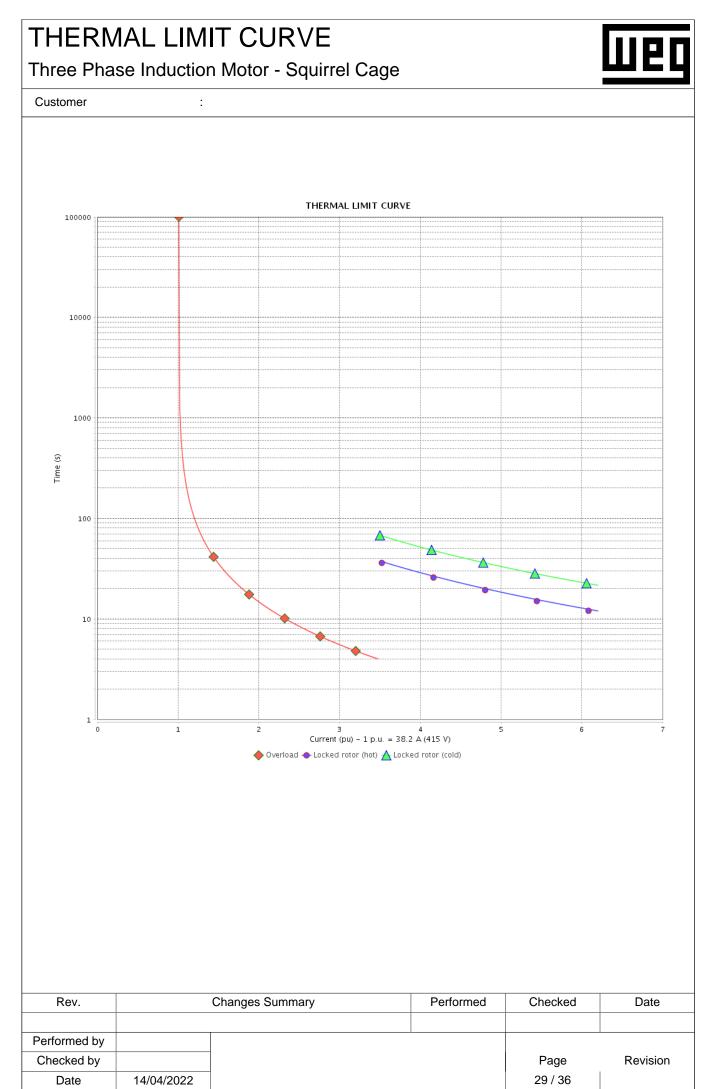
THERMAL LI	MIT CURVE tion Motor - Squirrel	Cage		Шер
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	11431928 03036ST3QIE286TS-W22
Derformence				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 2P IE1 : 40.0 A : 5.5 : 53.8 ft.lb : 200 % : 220 % : 2930 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class factor	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Heating constant				

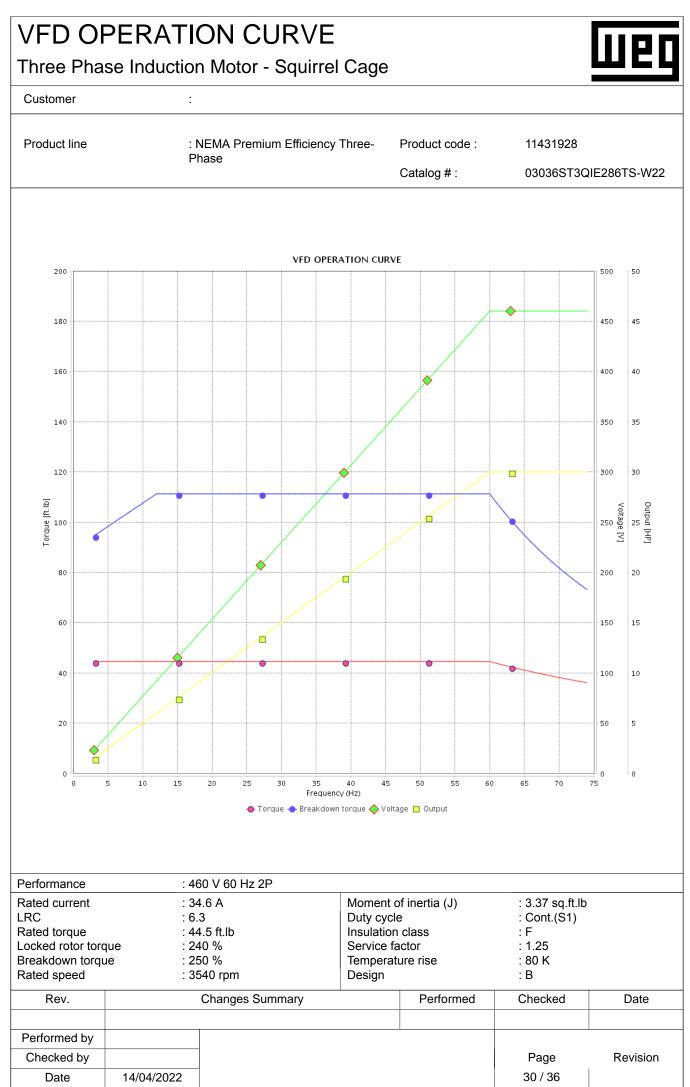
Heating constant	t				
Cooling constant	t				
Rev.		Changes Summary	Performe	d Checked	Date
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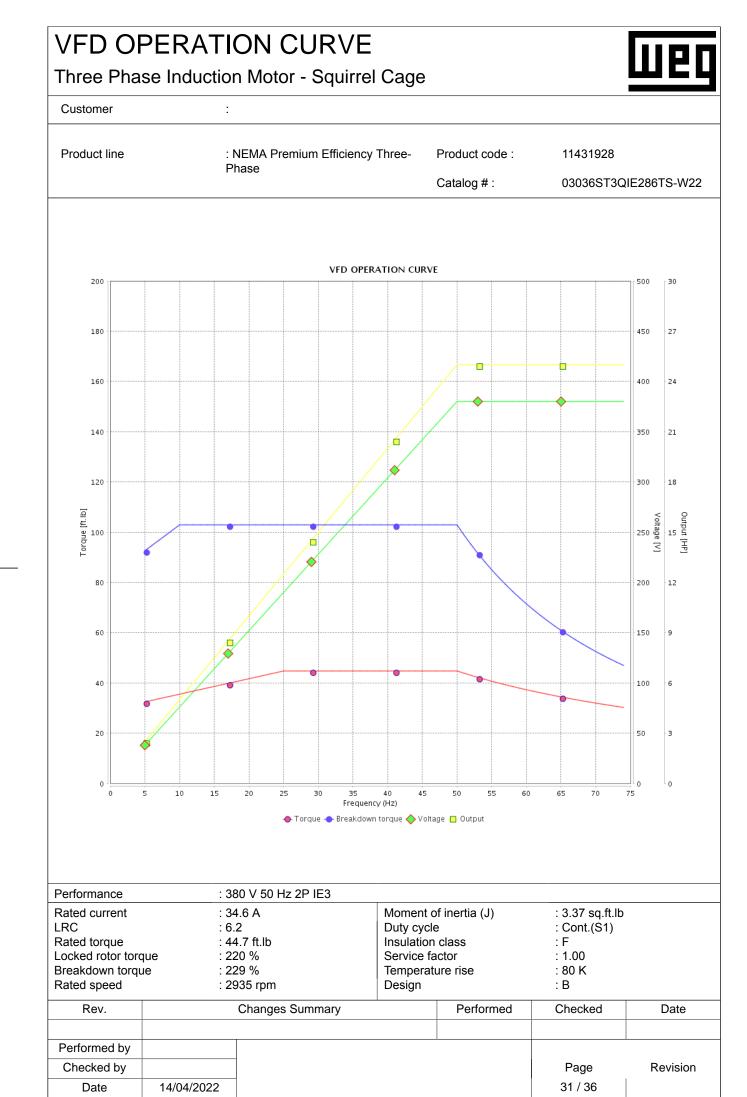
THERMAL LI	MIT CURVE tion Motor - Squirrel	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11431928 03036ST3QIE286TS-W22
Performance	: 415 V 50 Hz 2P IE1	Mamonh of in anti- (1)	· · · · · · · · · · · · · · · · · · ·
Rated current LRC	: 38.2 A : 6.2	Moment of inertia (J) Duty cycle	: 3.37 sq.ft.lb : Cont.(S1)
Rated torque	: 53.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque Rated speed	: 240 % : 2935 rpm	Temperature rise Design	: 105 K : B
	. 2000 ipin		. u
Heating constant			
Cooling constant	Changes Summary	Performed	Checked Date

Rev.	Changes Summary		Performed	Checked	Date
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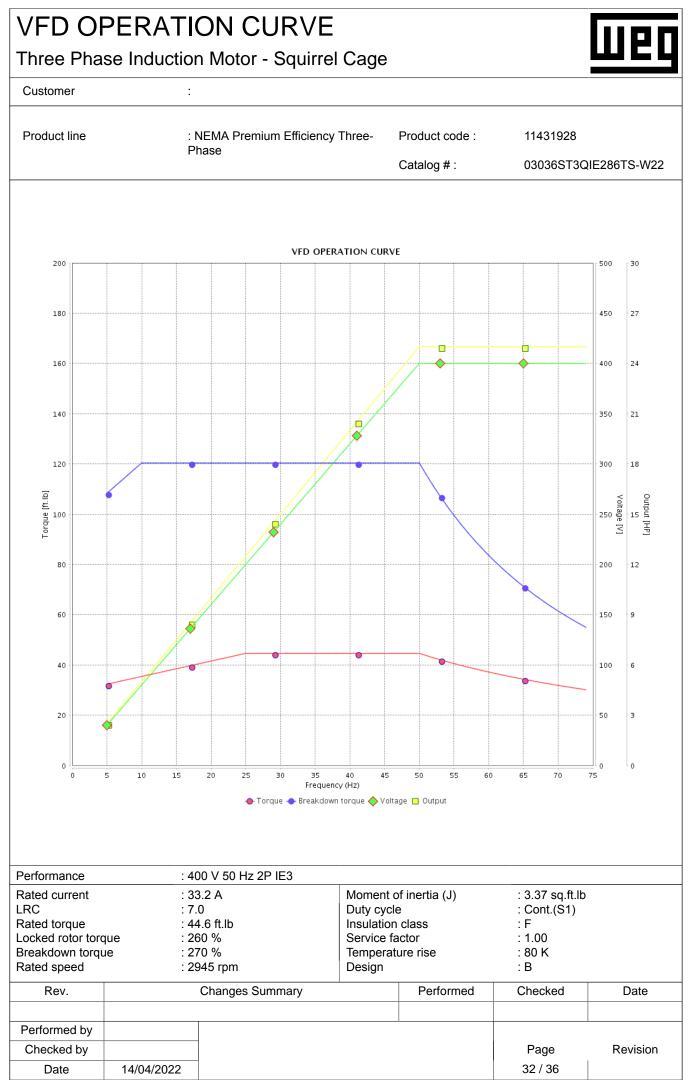


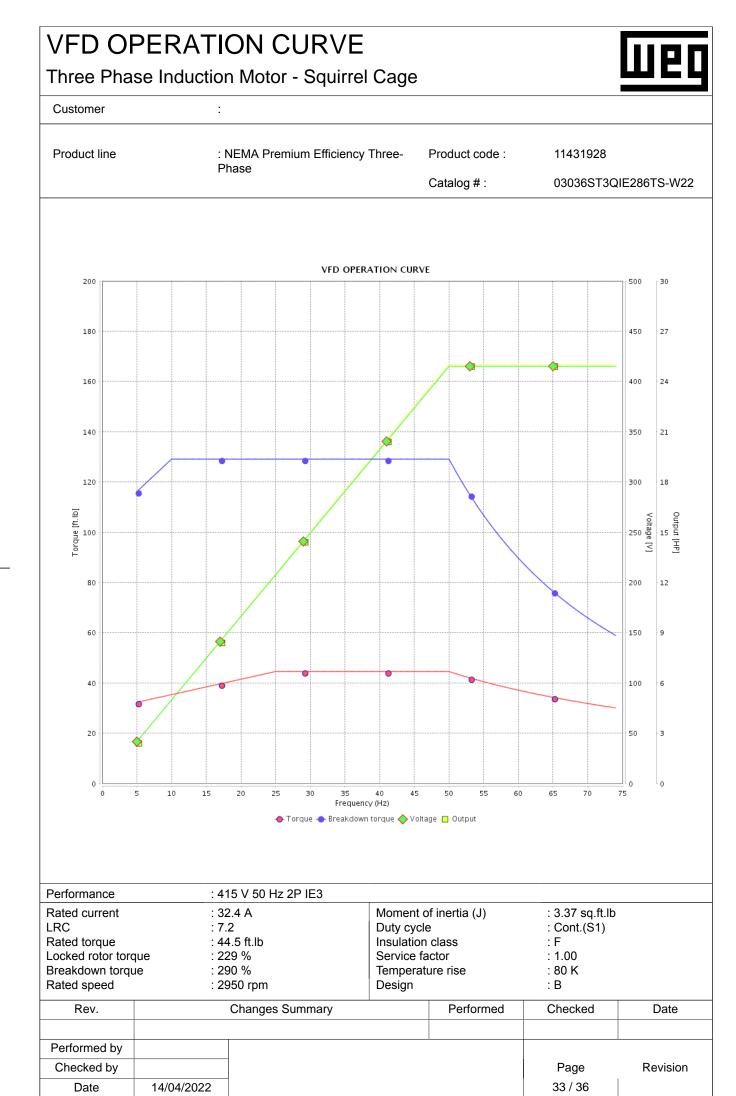


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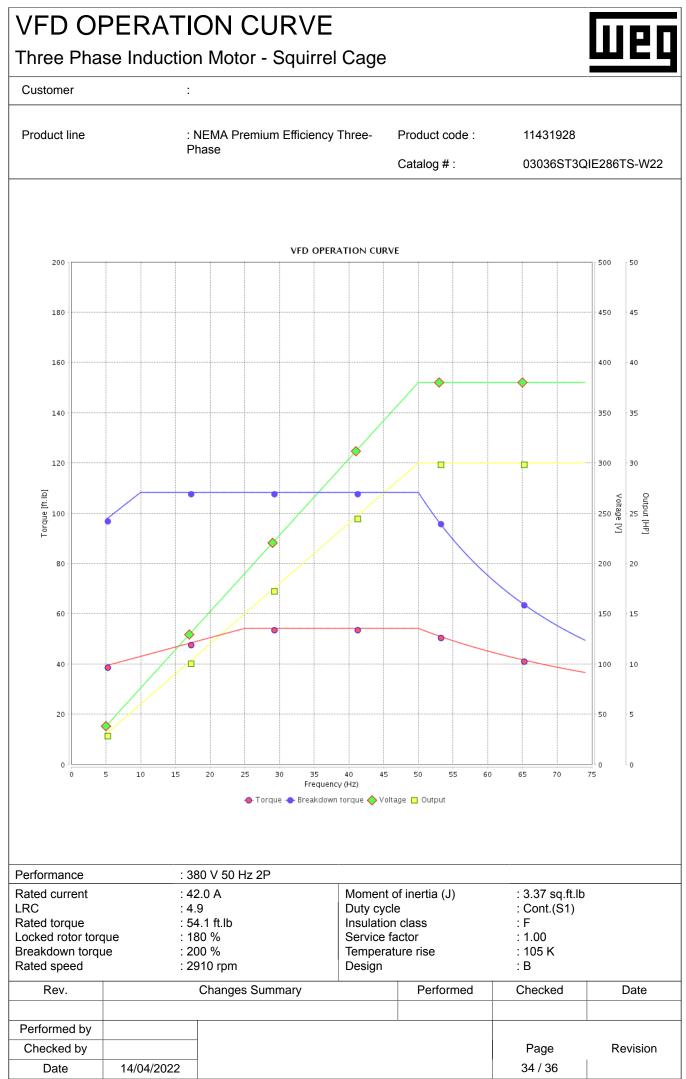


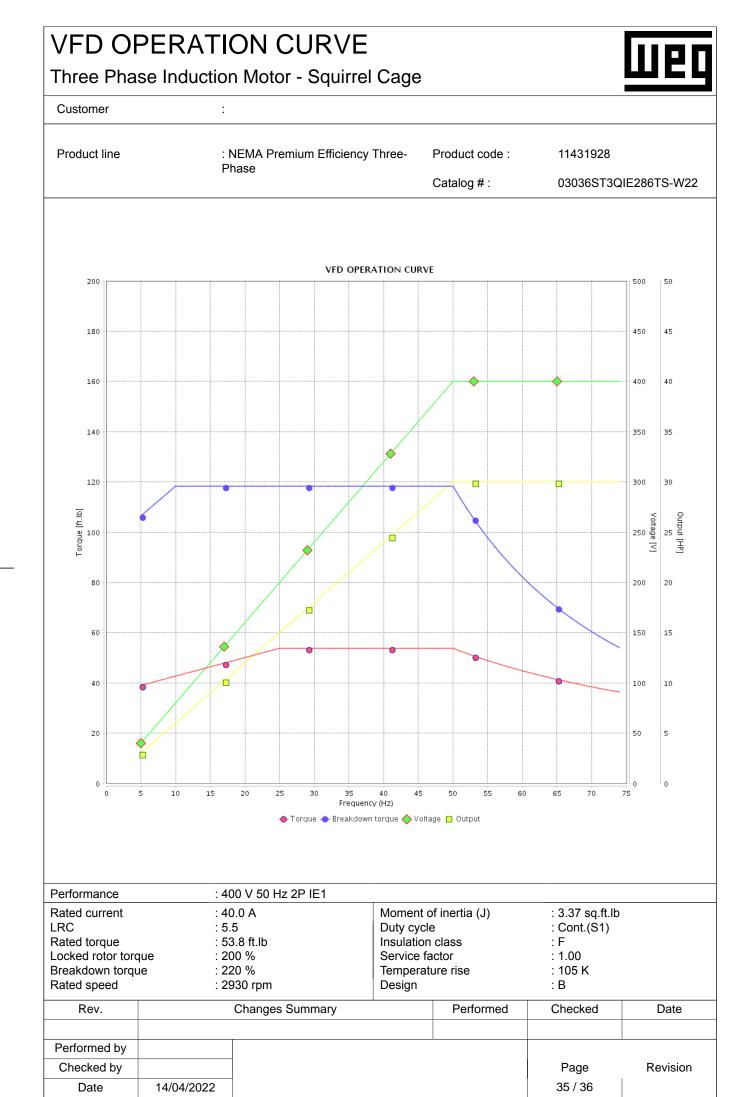
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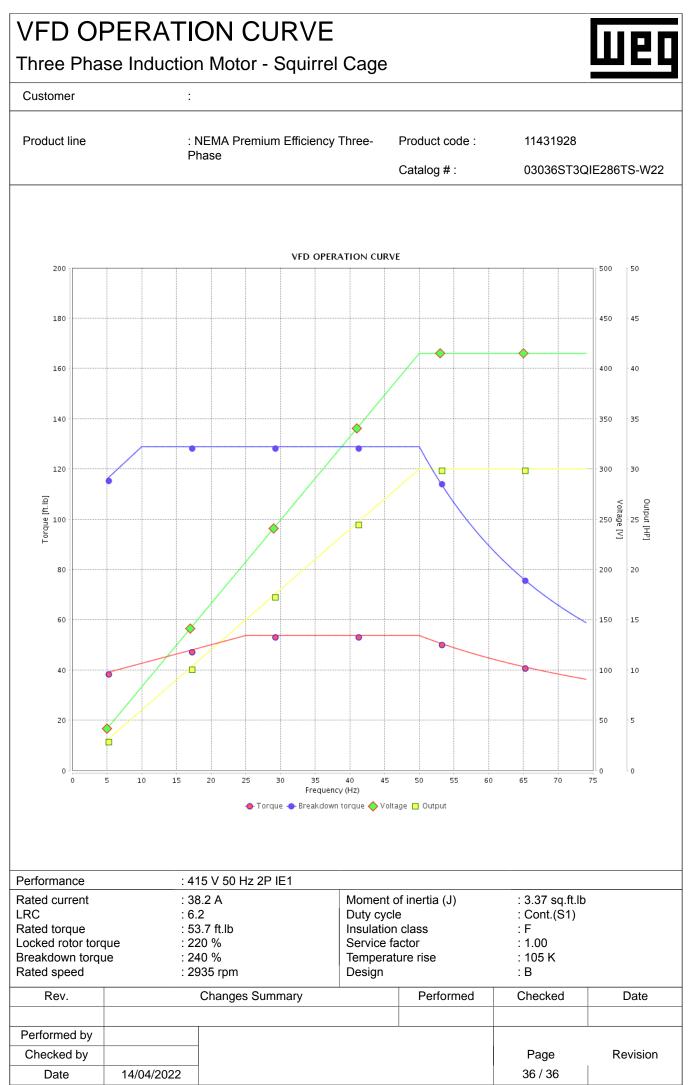


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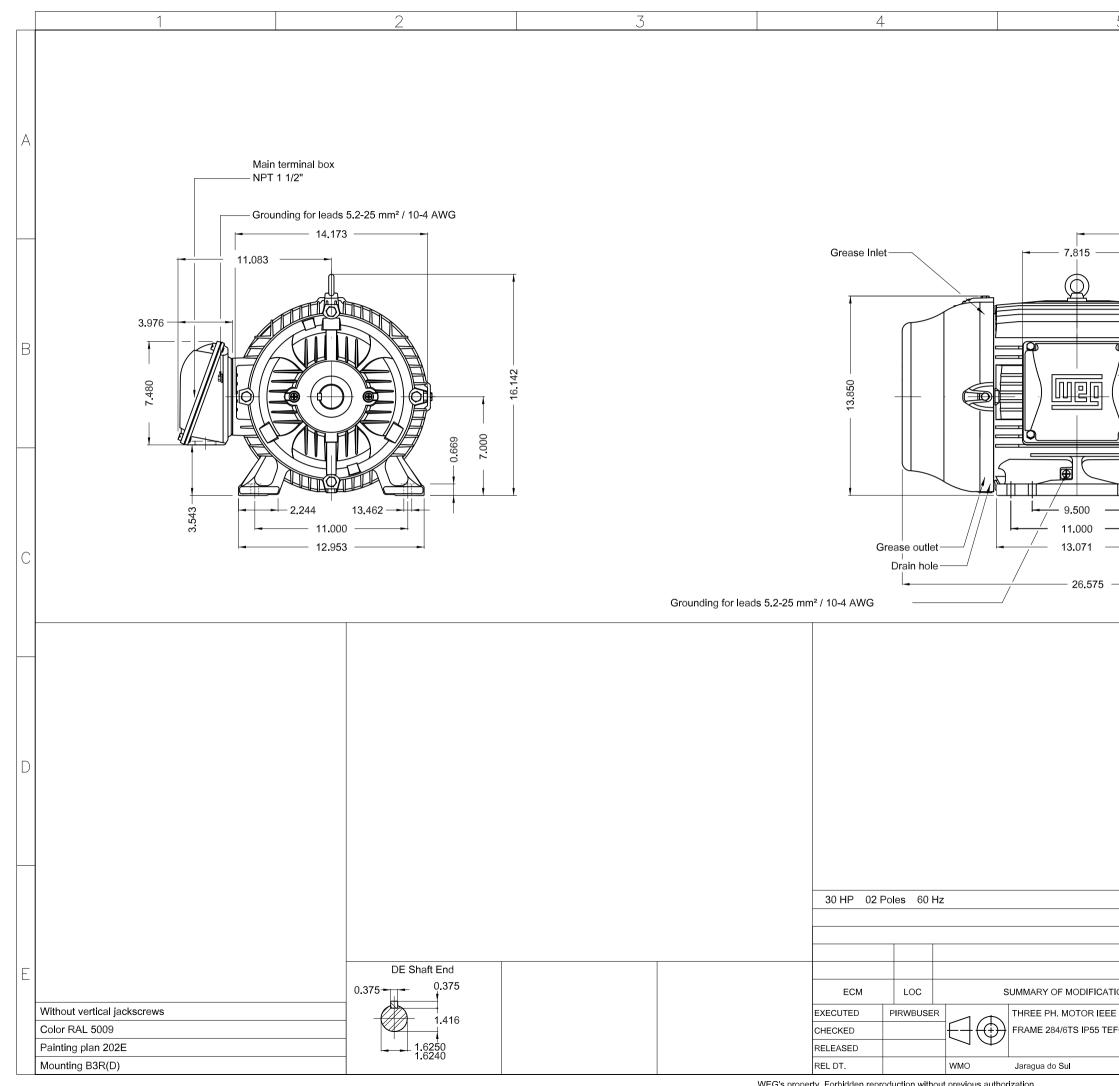




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Produc	t Engineering	SHEET	1 / 1		XME

