DATA SHEET

Three Phase Induction Motor - Squirrel Cage

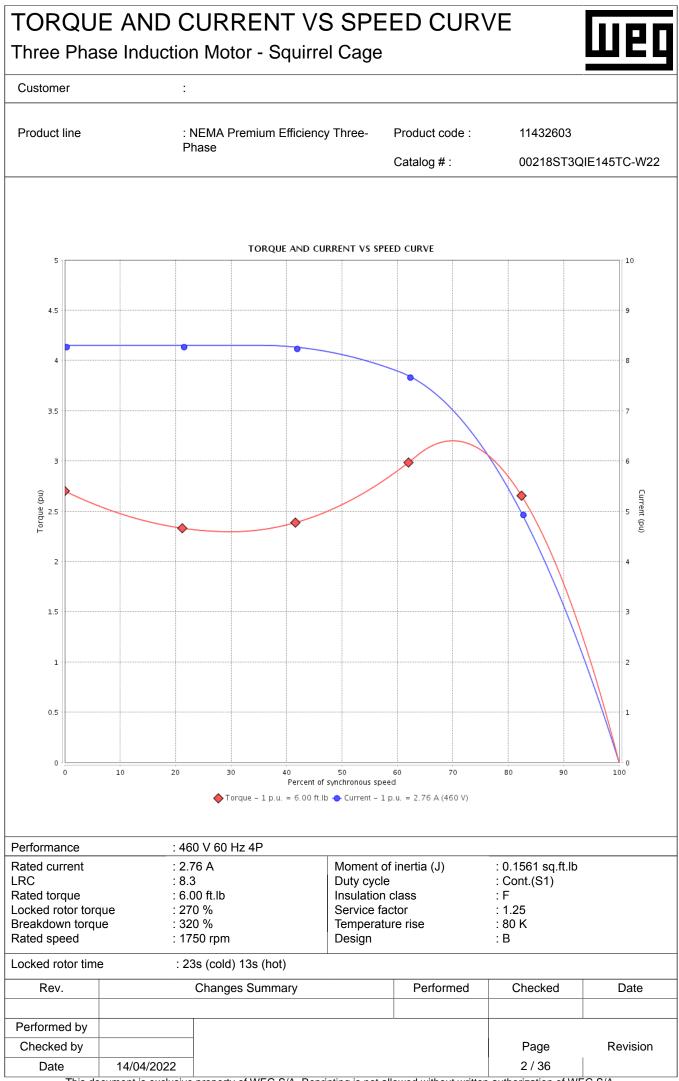
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Customer

Product line		Phase			Product code	e: 11	11432603		
					Catalog # :	00	218ST3QIE14	45TC-W22	
Frame		: 143/5TC		Cooli	ng method	: I	C411 - TEFC		
Insulation class		: F		Mour	ting		-1		
Duty cycle		: Cont.(S1)		Rotat			Both (CW and	CCW)	
Ambient tempera	ature	: -20°C to +			ng method		Direct On Line		
Altitude		: 1000 m.a.:	s.l.		ox. weight ³		59.1 lb		
Protection degre	e	: IP55 : B		Mom	ent of inertia (J)) :().1561 sq.ft.lb		
Design									
Dutput [HP]		2	1.5	1.5	1.5	2	2	2	
Poles		4	4	4	4	4	4	4	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		460 2.76	380 2.57	400	415 2.56	380 3.33	400 3.22	415 3.14	
Rated current [A]		2.76	2.57	2.57	2.56	20.0	21.3	22.9	
R. Amperes [A] .RC [A]			21.1 8.2x(Code L)	22.4 8.7x(Code			21.3 6.6x(Code J)		
			U.LA(UUUC L)	M)	M)				
No load current [A	1	1.63	1.61	1.80	1.97	1.61	1.80	1.97	
Rated speed [RPI		1750	1460	1465	1465	1435	1440	1450	
Slip [%]	-	2.78	2.67	2.33	2.33	4.33	4.00	3.33	
Rated torque [ft.lb]	6.00	5.40	5.38	5.38	7.32	7.29	7.24	
ocked rotor torqu	ie [%]	270	290	320	350	220	229	250	
Breakdown torque	e [%]	320	330	380	409	240	260	290	
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Cemperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K	
ocked rotor time		23s (cold) 13s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold 12s (hot)	
loise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A	
	25%								
Efficiency (%)	50%	85.5	84.0	82.0	81.4	85.5	84.0	84.0	
(/0)	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0	
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0	
	25%	0.57	0.55	0.50	0.47	0.00	0.00	0.00	
Power Factor	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60	
	75% 100%	0.70 0.79	0.69	0.64	0.61	0.78 0.83	0.74 0.80	0.72	
	100%			1		0.03	0.00	0.79	
Pooring type		<u>Drive end</u> : 6205 C3			ation loads				
Bearing type				ivia.	raction		53 lb		
Sealing Lubrication inter	lev	: Inpro/Sea : 20000 h	•		compression	:2	: 212 lb		
Lubrication Inter		20000 r : 4 g	1 20000 4 g	11					
Lubricant type			I Polyrex EM						
• •									
Notes									
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This revision repl		ncel the previo	us one, which		are average va				
must be eliminate	ed.	-	us one, which	power	supply, subject				
must be eliminate (1) Looking the m	ed. Notor from the	e shaft end.			supply, subject				
must be eliminate (1) Looking the m (2) Measured at	ed. notor from the 1m and with t	e shaft end. tolerance of +3	dB(A).	power	supply, subject				
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3	dB(A).	power	supply, subject				
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3 ct to changes a	dB(A). after	power	supply, subjec	t to the tolera	nces stipulated	d in NEMA	
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3 ct to changes a	dB(A).	power	supply, subject	t to the tolera			
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3 ct to changes a	dB(A). after	power	supply, subjec	t to the tolera	nces stipulated	d in NEMA	
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu Rev.	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3 ct to changes a	dB(A). after	power	supply, subjec	t to the tolera	nces stipulated	d in NEMA	

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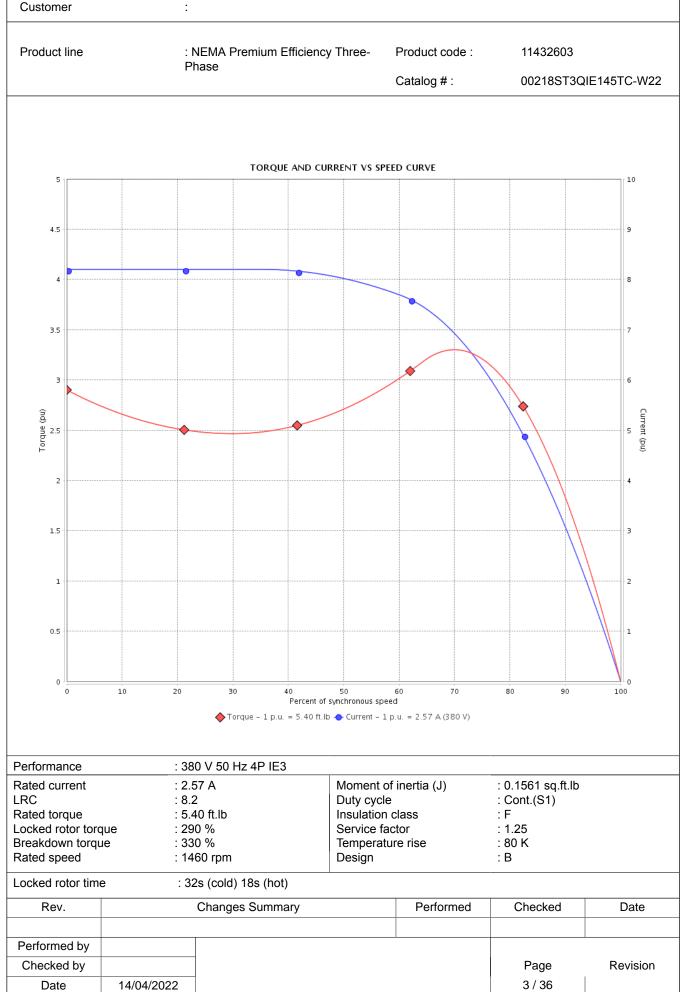
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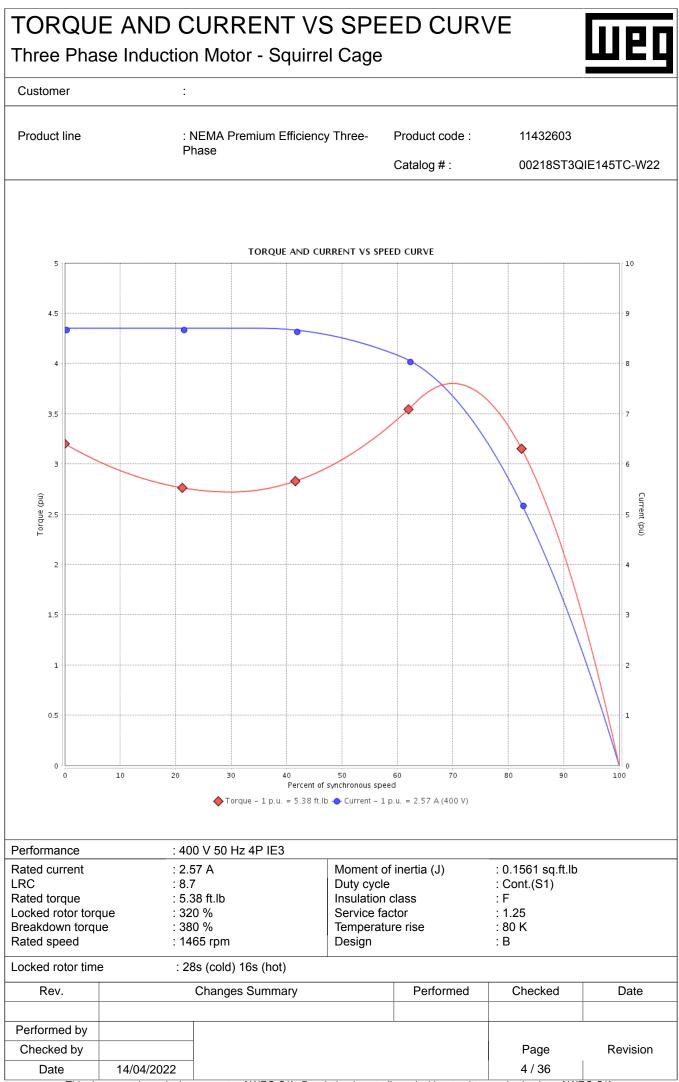
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



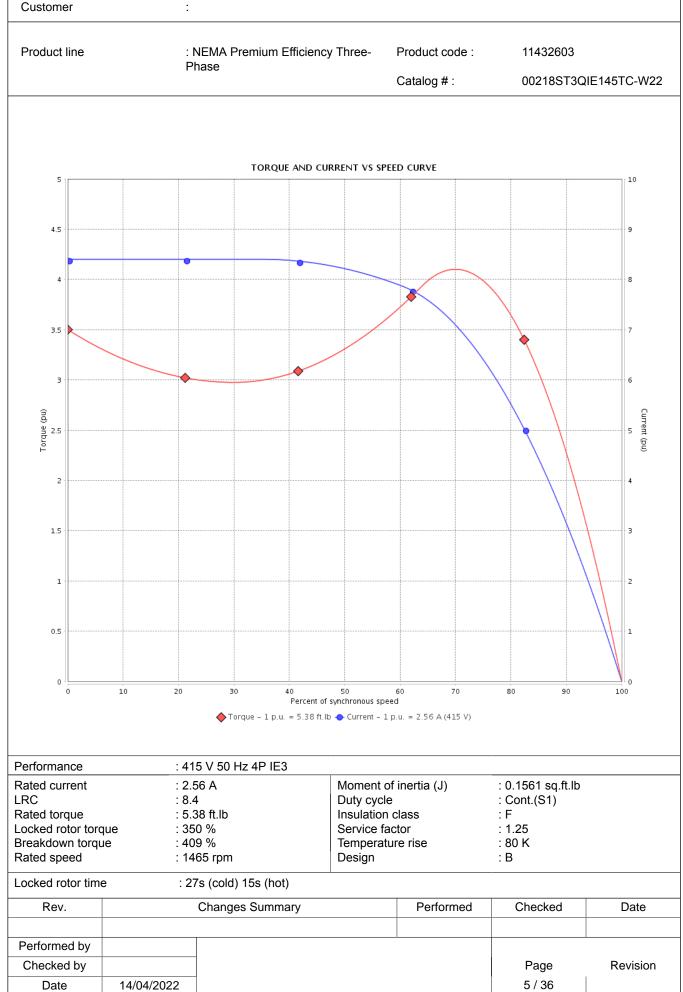
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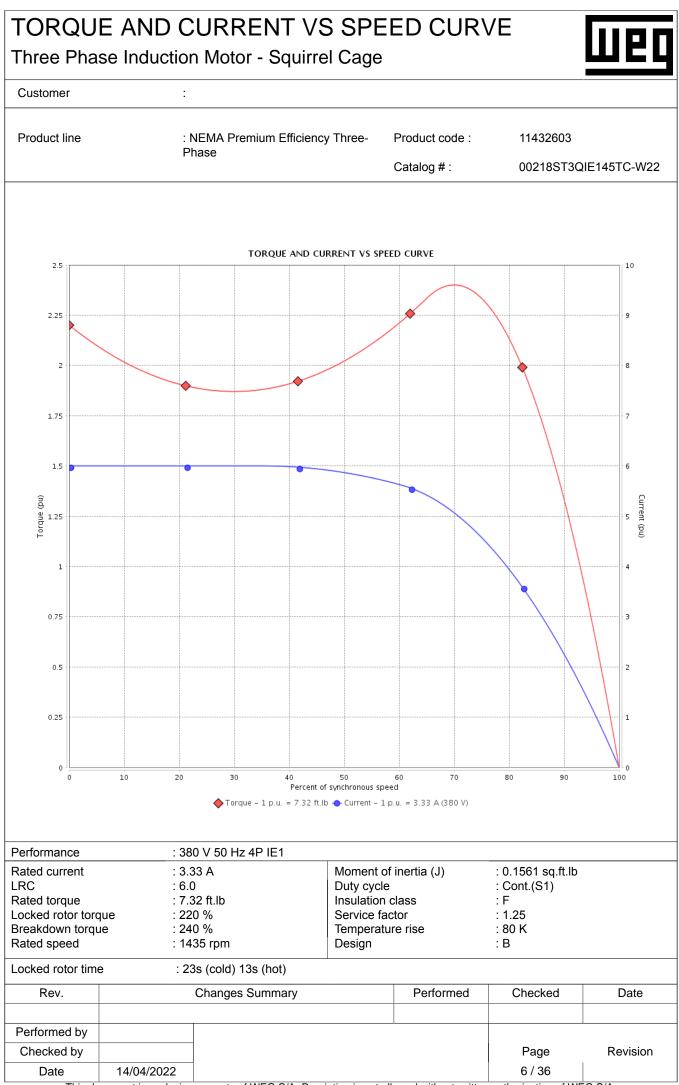
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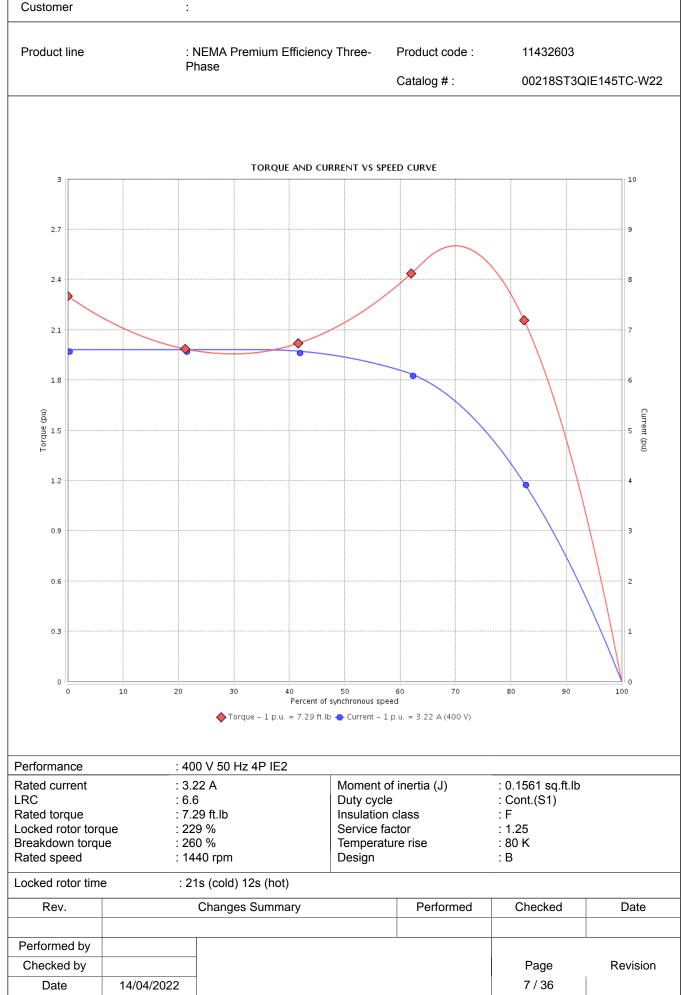
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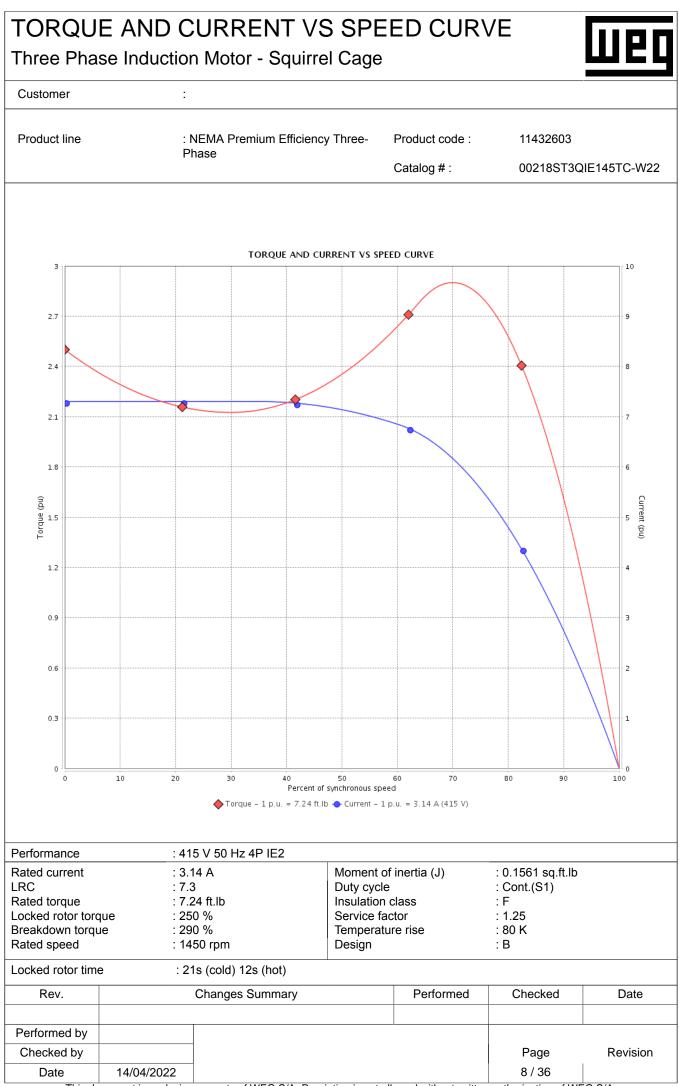
TORQUE AND CURRENT VS SPEED CURVE

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Customer

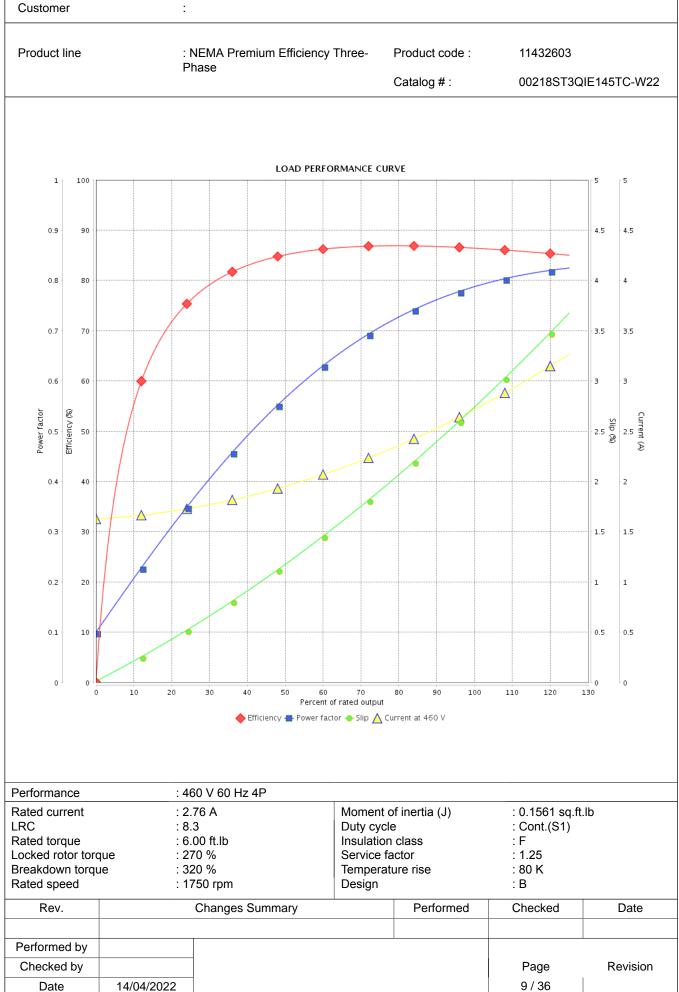


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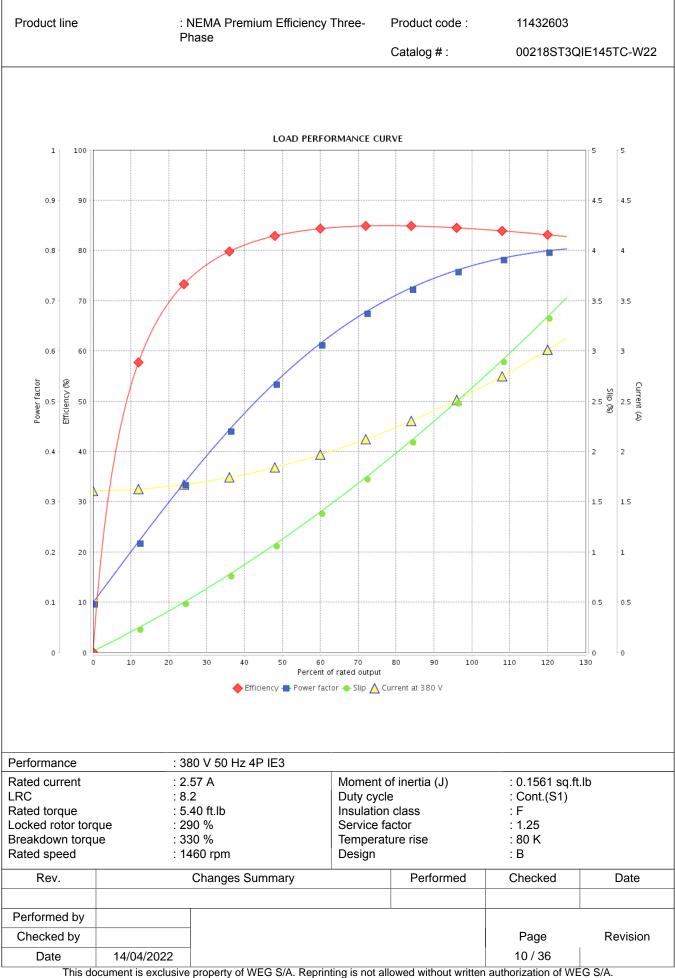
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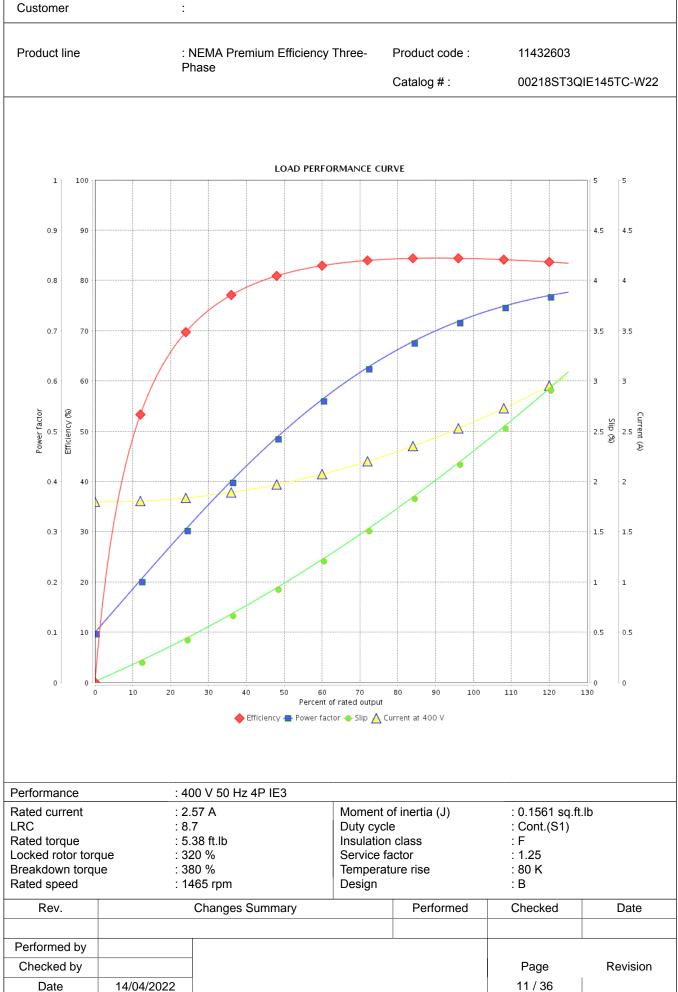


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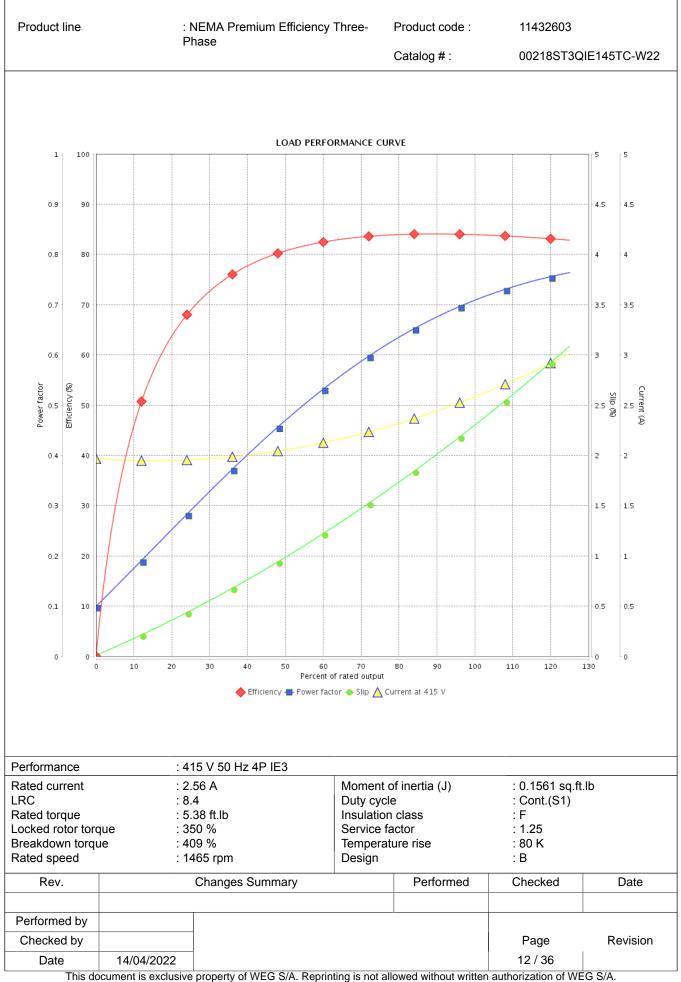
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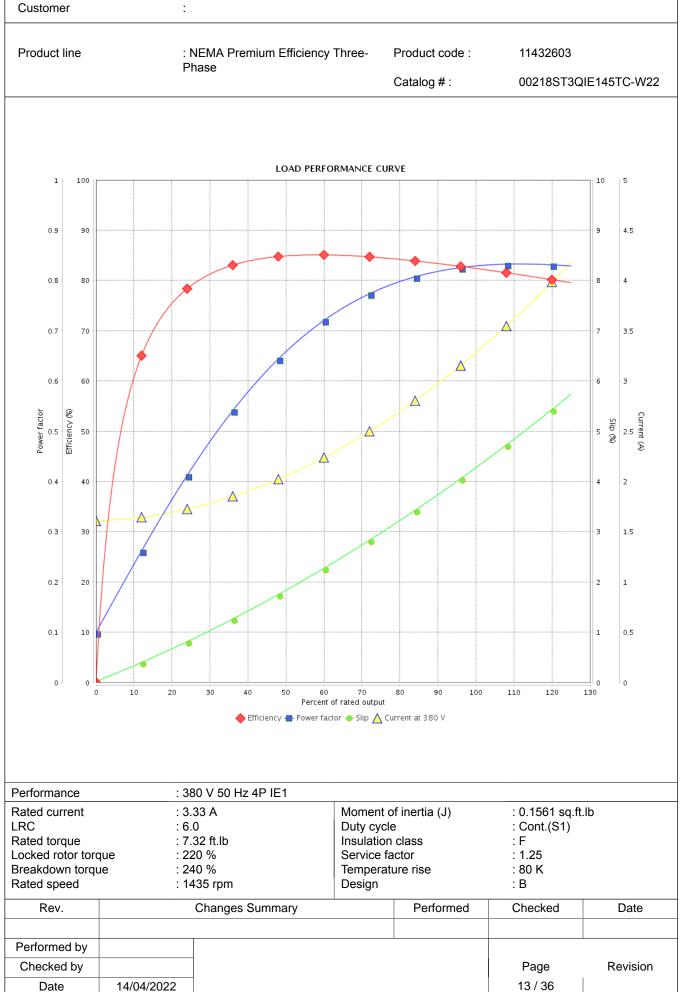


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Three Phase Induction Motor - Squirrel Cage

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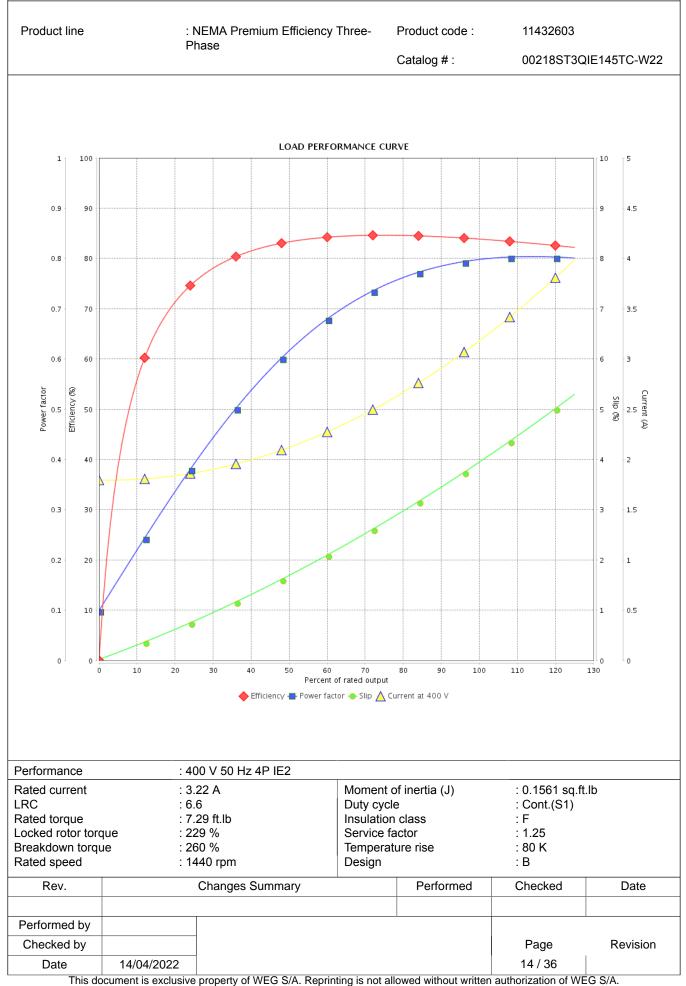
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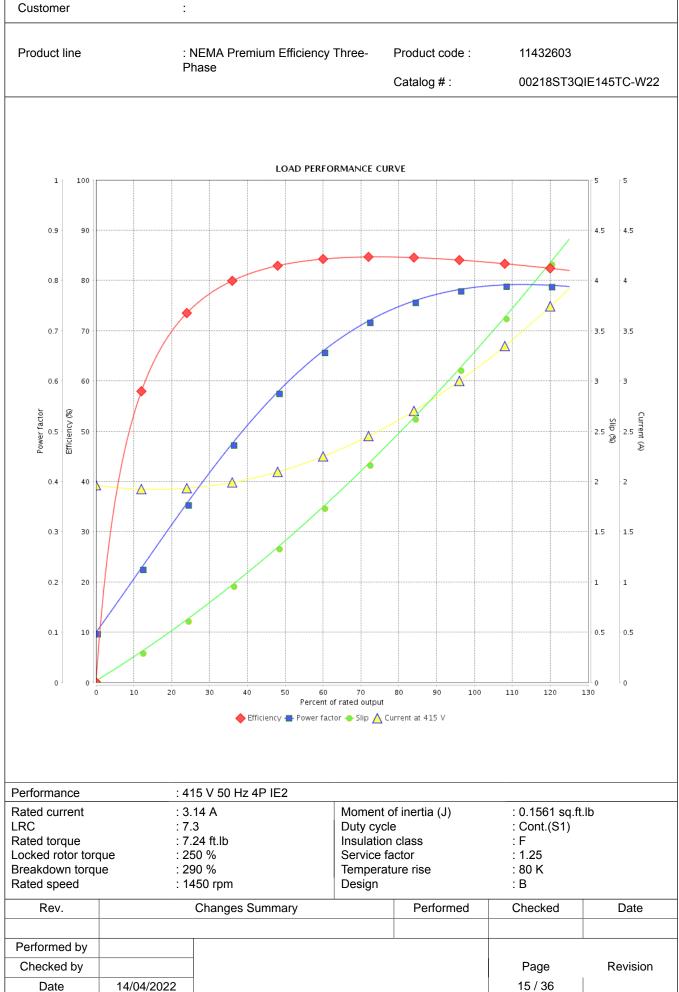


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Three Phase Induction Motor - Squirrel Cage

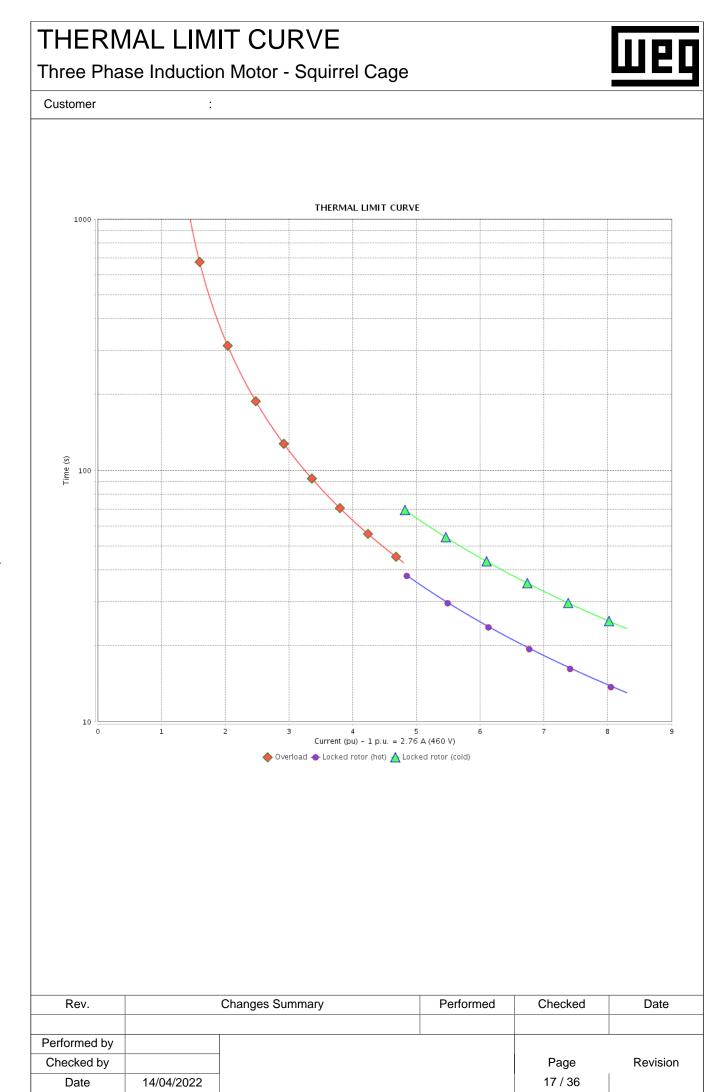
Customer



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	LIMIT CURVE Iuction Motor - Squirrel (Cage	Шер
Customer			
Product line	: NEMA Premium Efficiency Th Phase	rree- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22
Performance	: 460 V 60 Hz 4P		
Rated current LRC Rated torque	: 2.76 A N : 8.3	Moment of inertia (J) Duty cycle nsulation class	: 0.1561 sq.ft.lb : Cont.(S1) : F

LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	:6 que :2 Je :3	3.3 5.00 ft.lb 270 % 320 % 1750 rpm	Duty cycle Insulation Service fa	Duty cycle Insulation class Service factor Temperature rise Design		
Heating constant	t					
Cooling constant	t					
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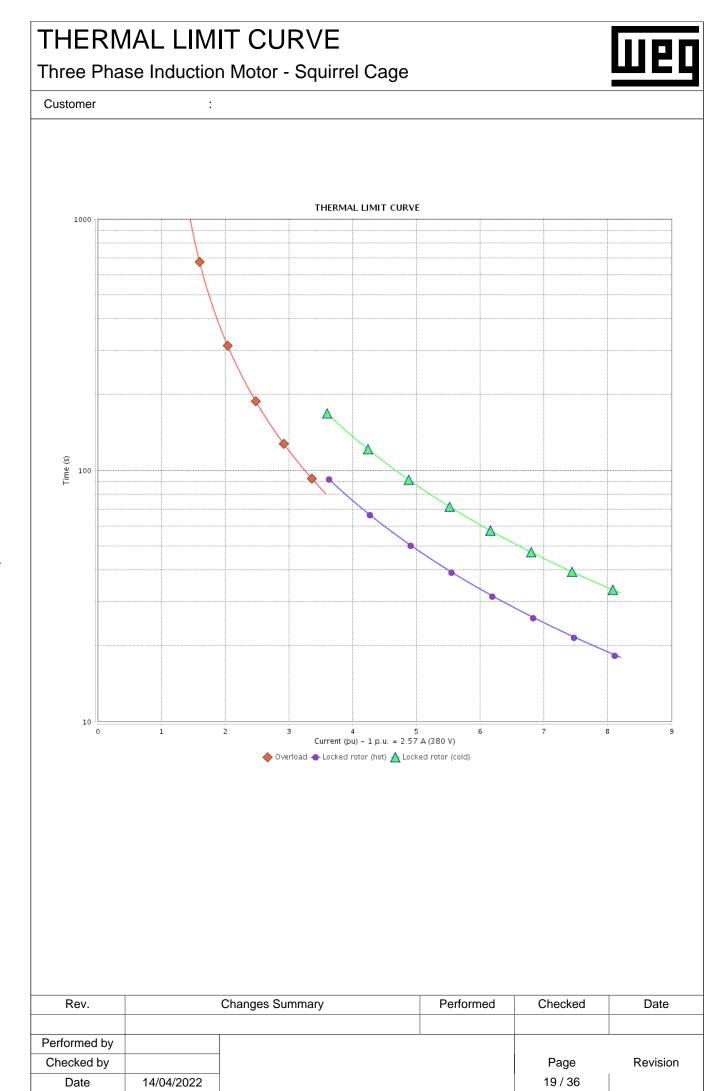


THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22				
Performance	: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.57 A : 8.2 : 5.40 ft.lb : 290 % : 330 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K				
Rated speed	: 1460 rpm	Design	: B				

Rated speed		460 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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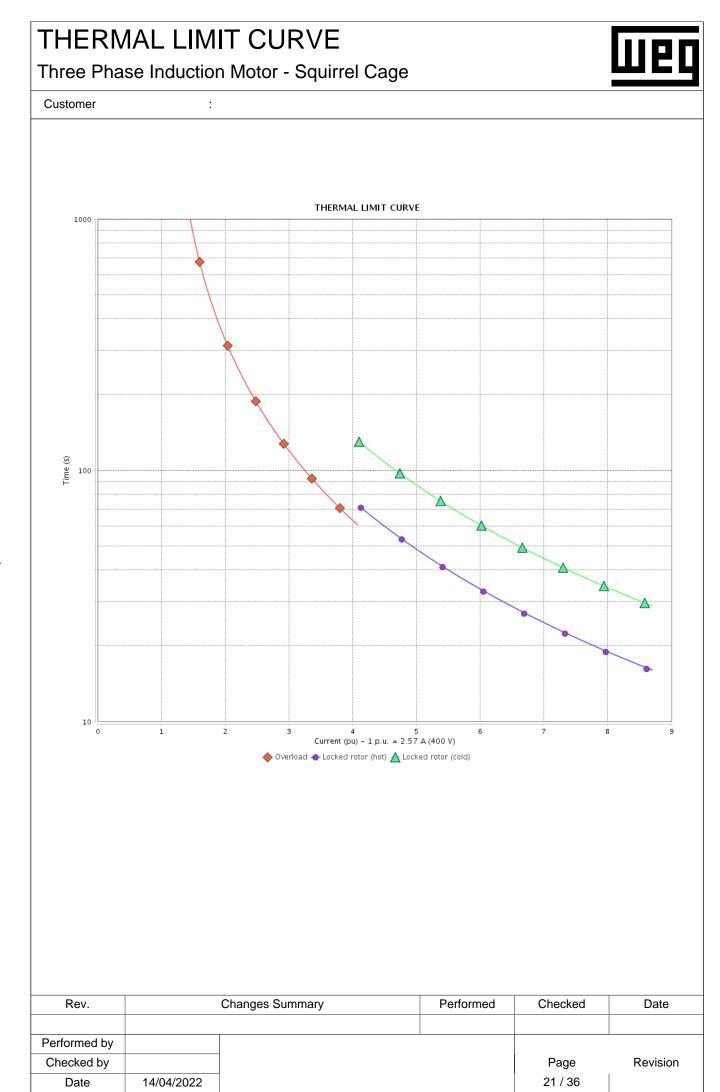
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	LIMIT CURVE	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22
Performance	: 400 V 50 Hz 4P IE3		
Rated current LRC	: 2.57 A N : 8.7 E	Noment of inertia (J) Duty cycle	: 0.1561 sq.ft.lb : Cont.(S1)
Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.38 ft.lb li : 320 % S : 380 % T	nsulation class Service factor Temperature rise Design	: F : 1.25 : 80 K : B

Raled speed	. 14	405 1011	Design		. D	
Heating constant	t					
Cooling constant	t					
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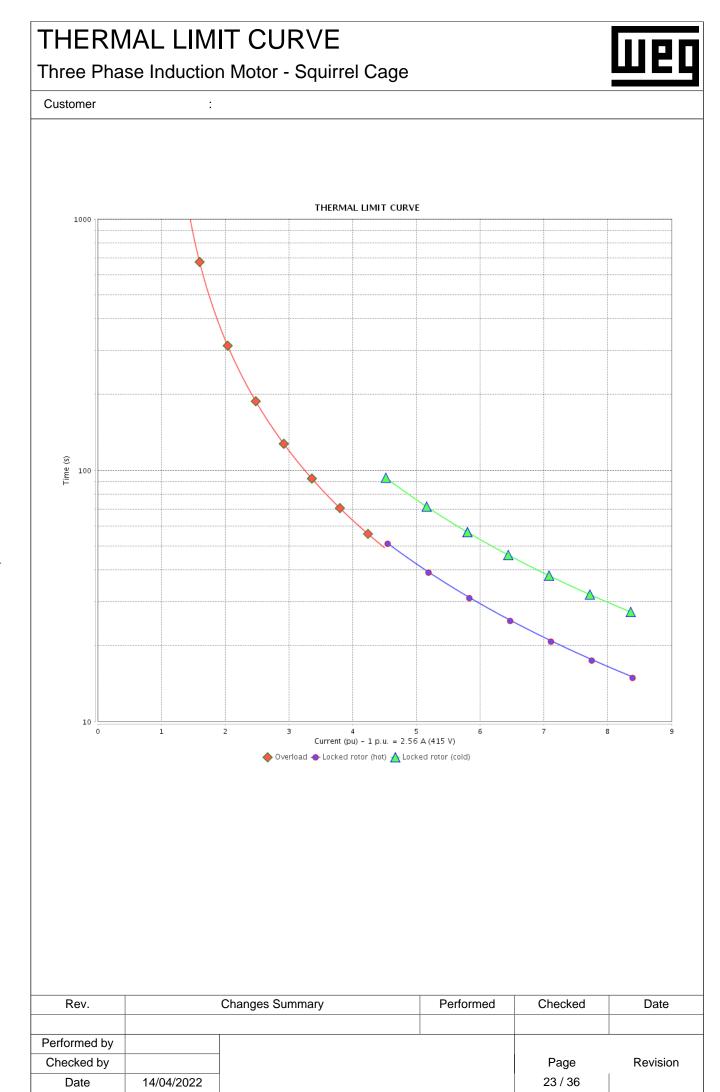


MIT CURVE	Cage	Шер
:		
: NEMA Premium Efficiency T Phase	hree- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22
· 415 \/ 50 Hz 4P IE3		
: 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 %	Duty cycle Insulation class Service factor Temperature rise	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
	Etion Motor - Squirrel (: : NEMA Premium Efficiency T Phase : : 15 V 50 Hz 4P IE3 : 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 %	: : : NEMA Premium Efficiency Three-Phase Product code : : Catalog # : : : Status : <td: status<="" td=""> :</td:>

Rated speed	: 14	465 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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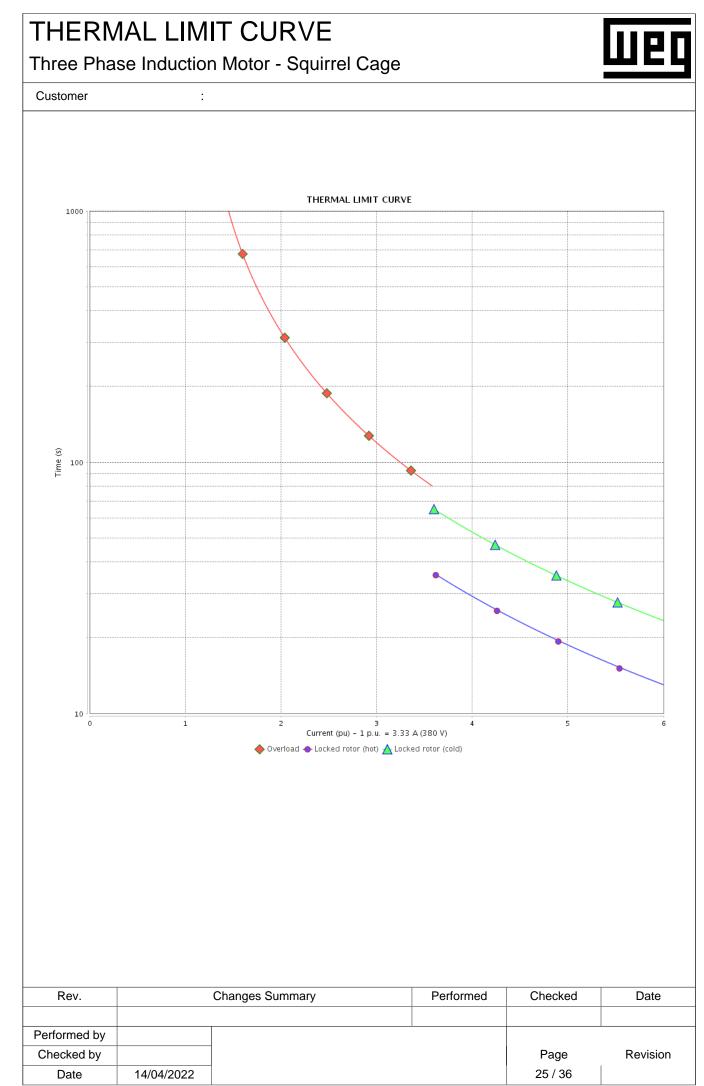
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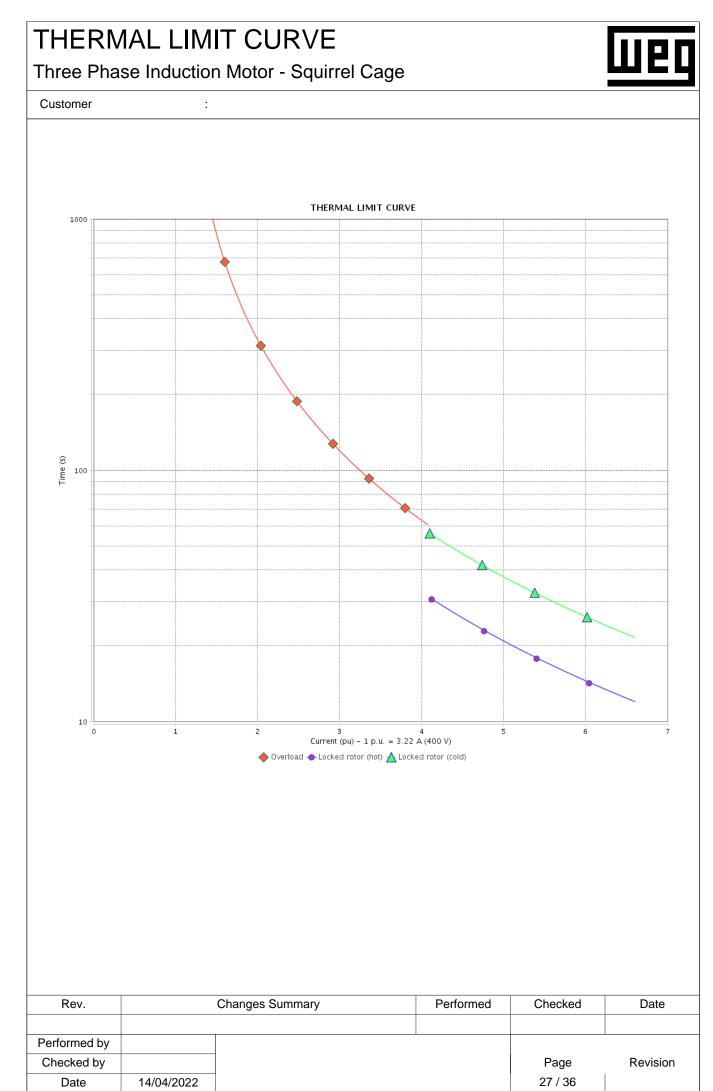
THERMAL LI Three Phase Induc	MIT CURVE tion Motor - Squirrel	Cage		Шер		
Customer	:					
Product line	: NEMA Premium Efficiency Phase		oduct code : italog # :	11432603 00218ST3QIE145TC-W22		
Performance	: 380 V 50 Hz 4P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.33 A : 6.0 : 7.32 ft.lb : 220 % : 240 % : 1435 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or • rise	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		

Rated speed	: 1	1435 rpm	Design		: B	
Heating constan	ıt					
Cooling constan	t					
Rev.		Changes Summary		Performed	Checked	Date
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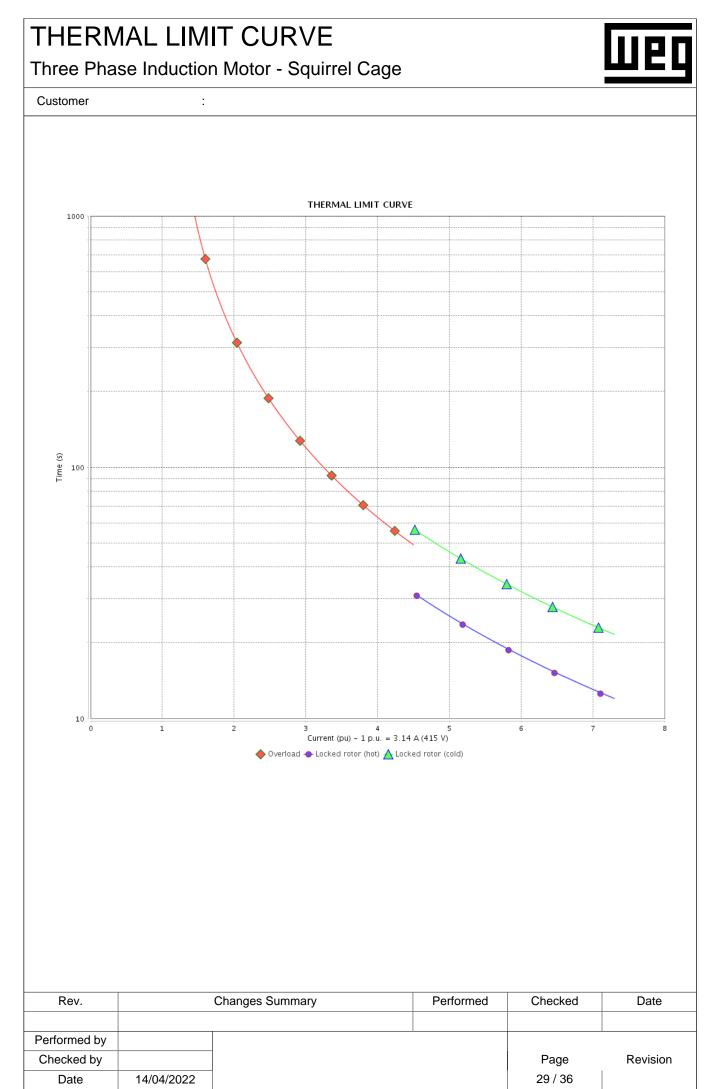
THERMAL LI Three Phase Induc	MIT CURVE tion Motor - Squirrel	Cage	Шер			
Customer	:					
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22			
Performance	: 400 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.22 A : 6.6 : 7.29 ft.lb : 229 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K			
Rated speed	: 1440 rpm	Design	: B			

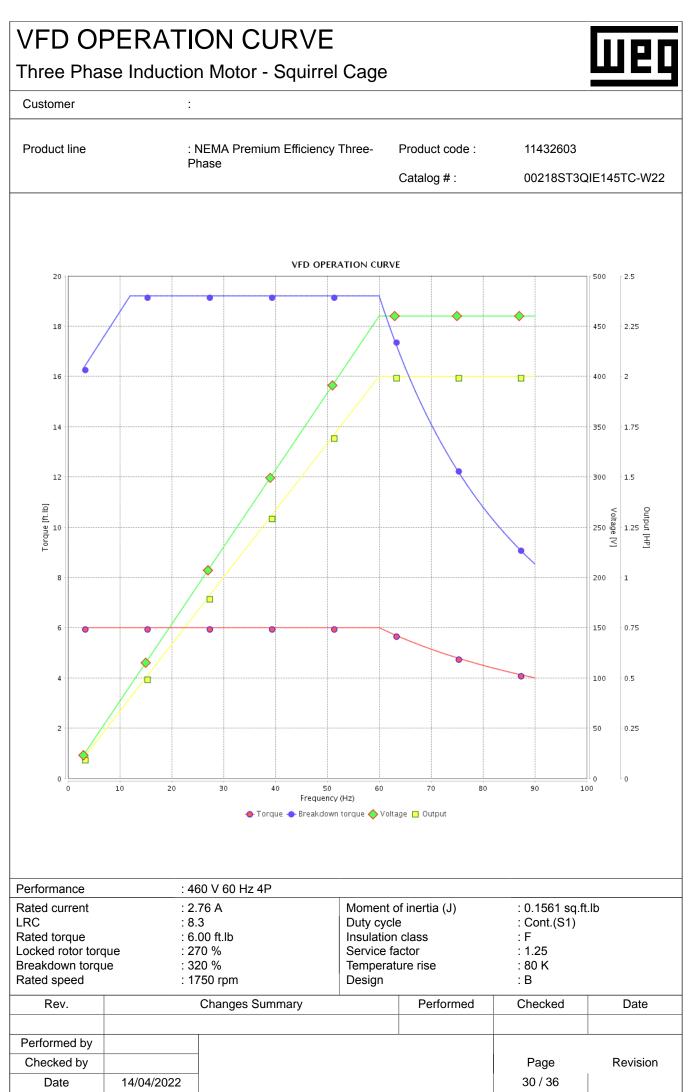
		440 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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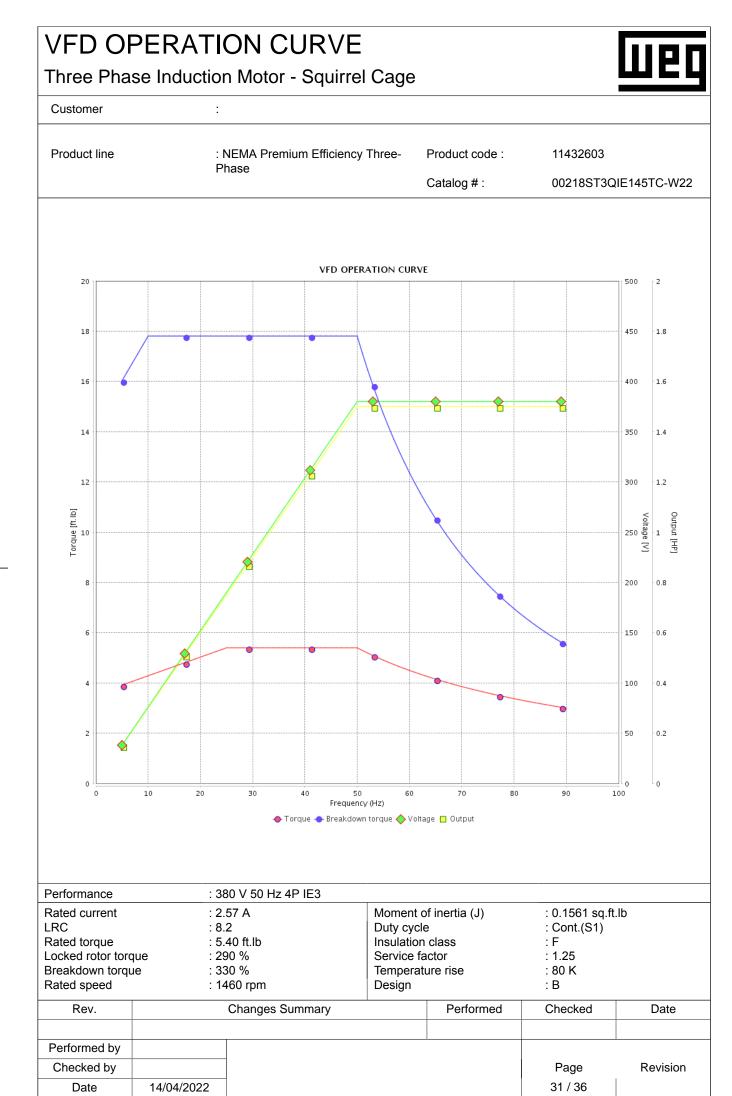


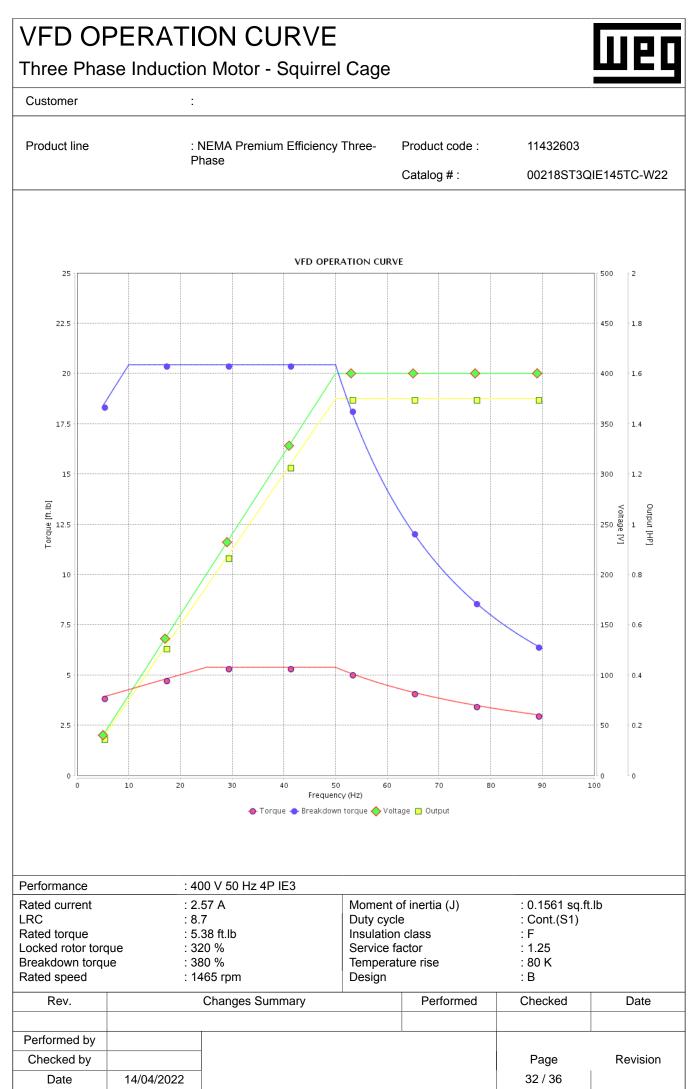
THERMAL LI Three Phase Induc	MIT CURVE tion Motor - Squirrel	Cage	Шед	
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11432603 00218ST3QIE145TC-W22	
Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 3.14 A	Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC Rated torque	: 7.3 : 7.24 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 250 % : 290 % : 1450 mm	Service factor Temperature rise	: 1.25 : 80 K : B	
Rated speed	: 1450 rpm	Design	. ت	

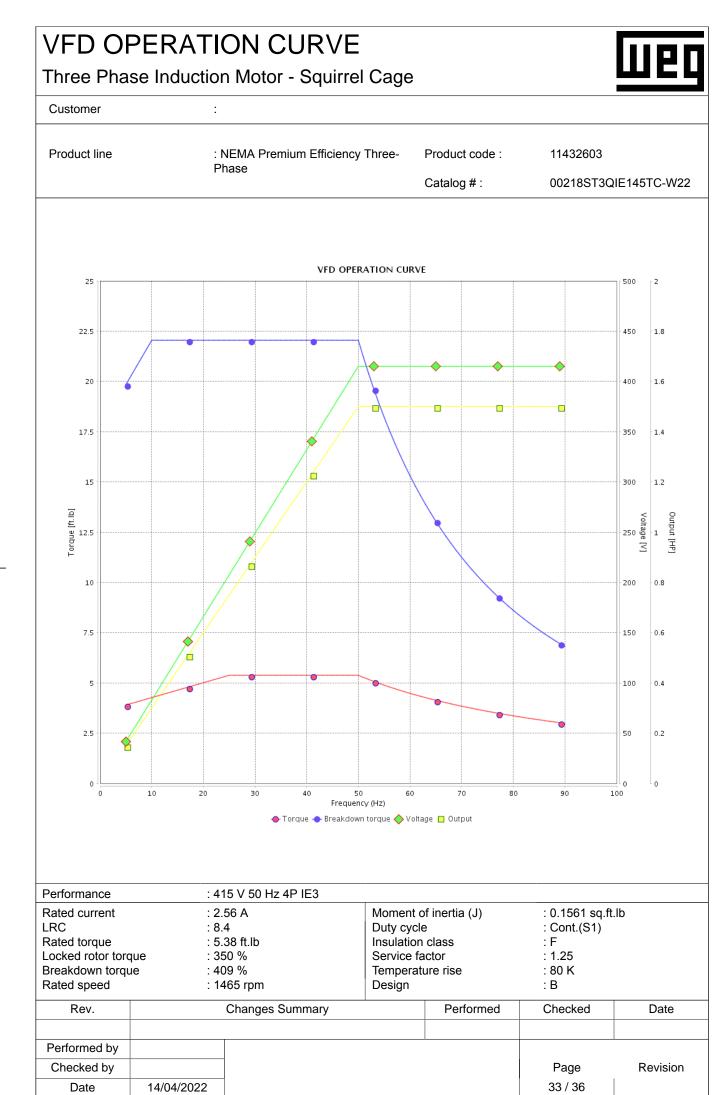
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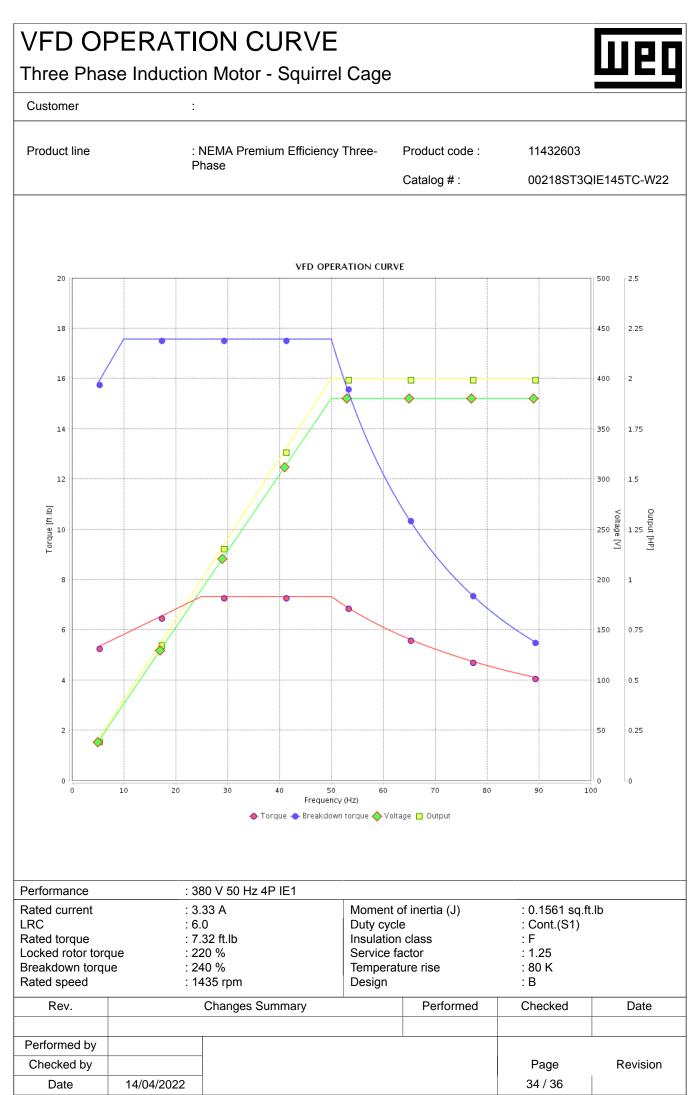


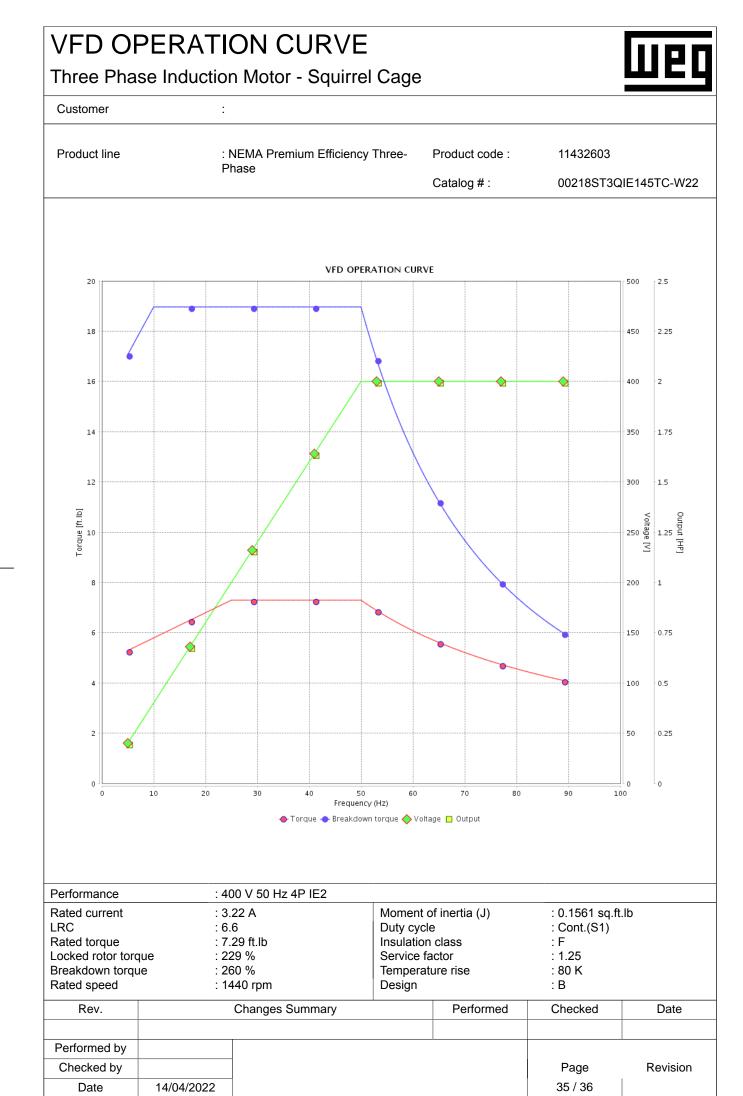


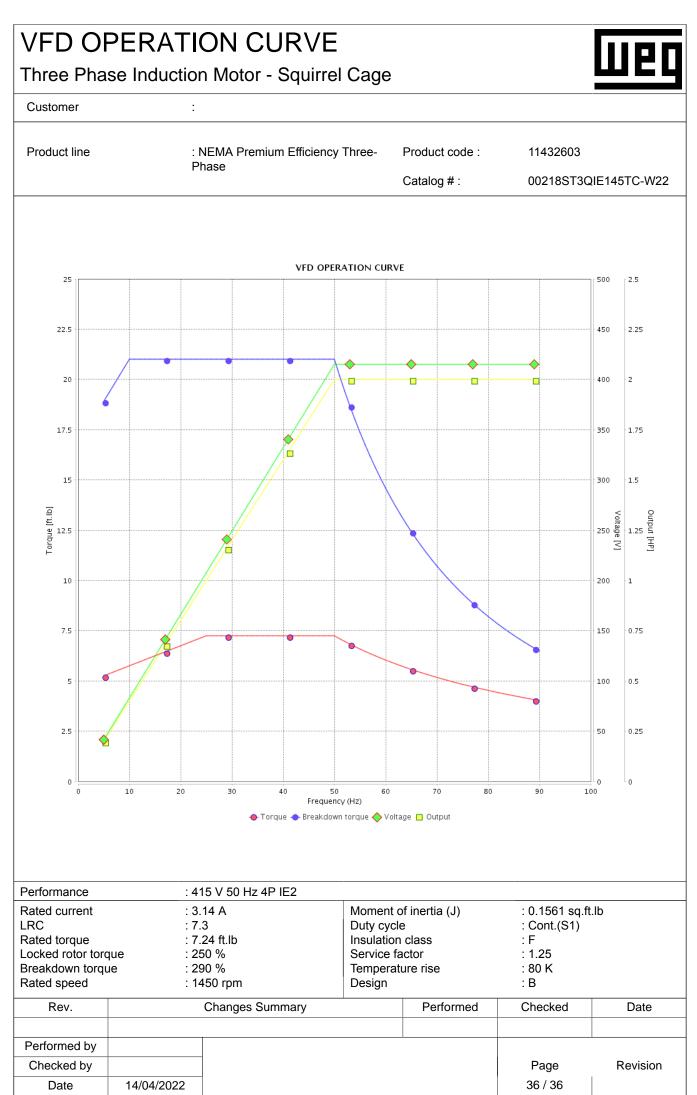


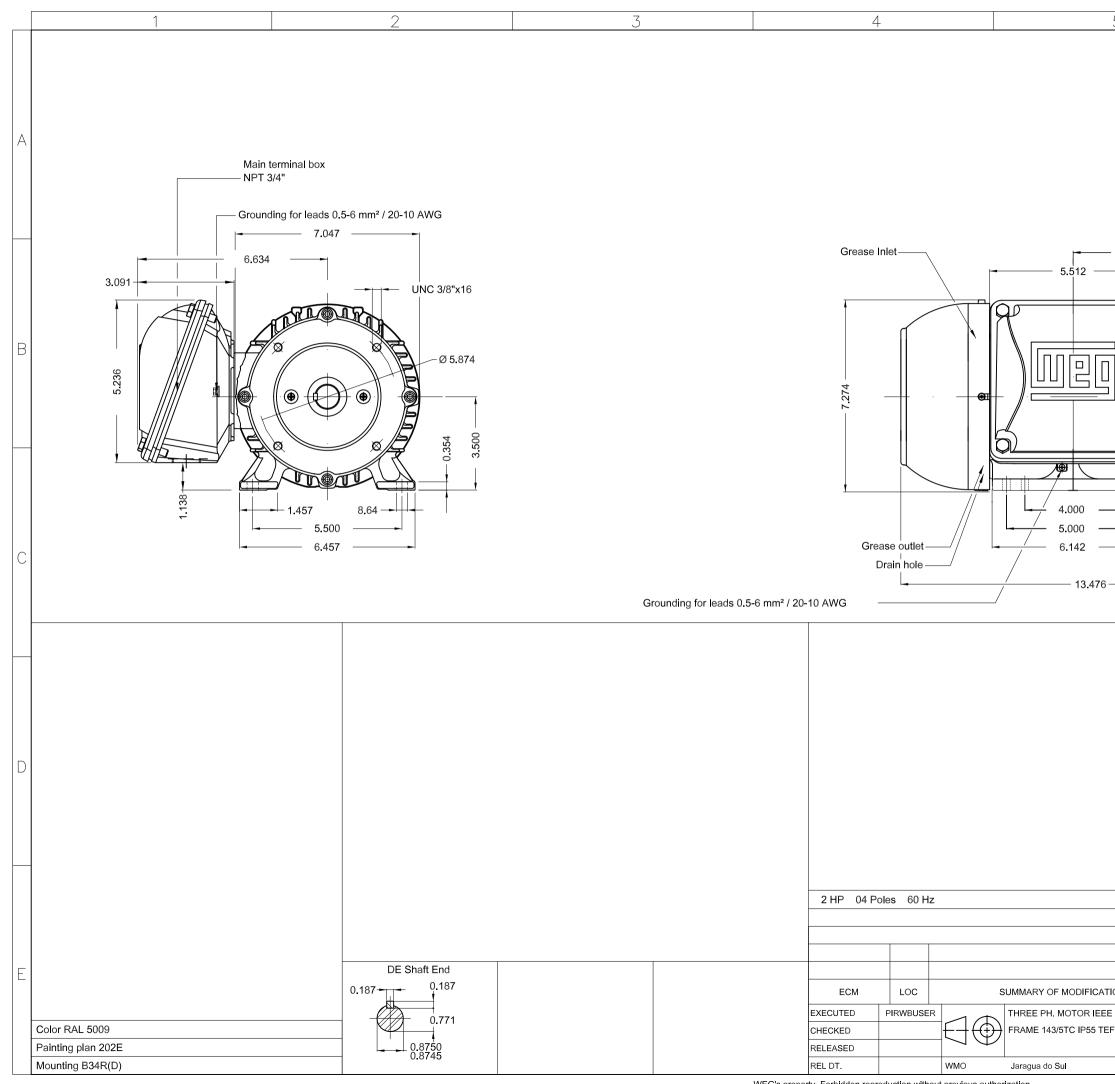












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