# DATA SHEET

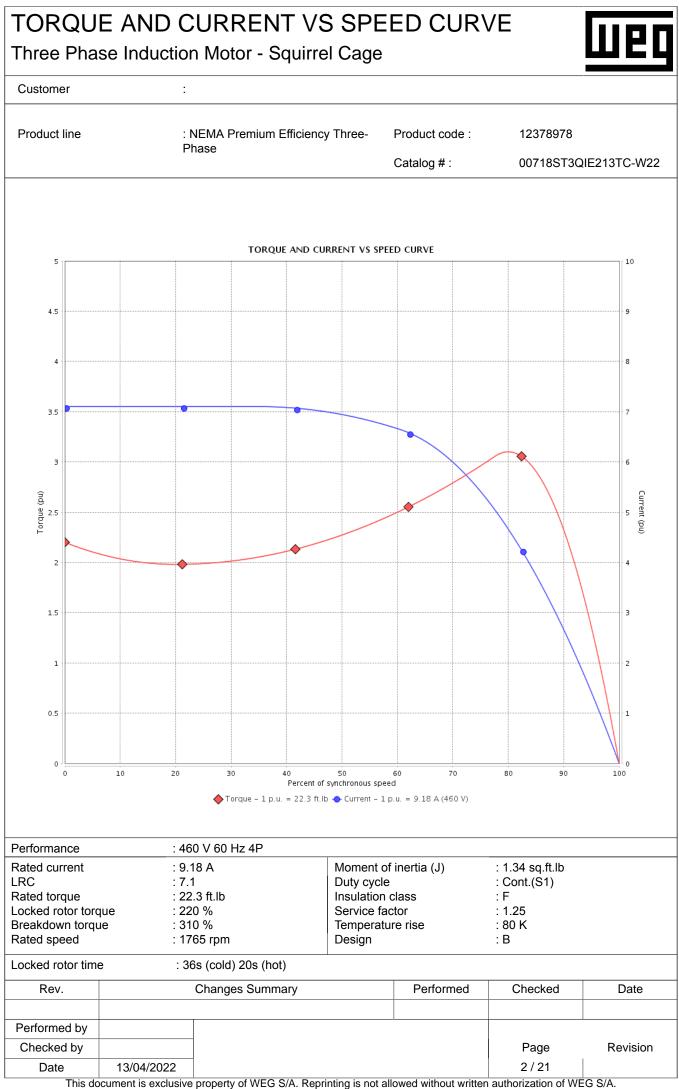
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Efficiency Three-			roduct code :	123789	78
	Phase Catalog # :		atalog # :	00718ST3QIE213TC-W22			
Frame: 213/5TCInsulation class: FDuty cycle: Cont.(S1)Ambient temperature: -20°C to +40°CAltitude: 1000 m.a.s.l.Protection degree: IP55Design: B			Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 181 lb : 1.34 sq.ft.lb		
Output [HP]		7.5	1	7.5 7.		.5 7.5	
Poles		4		4		4	4
Frequency [Hz]		60		50		i0	50
Rated voltage [V]		460		380		00	415
Rated current [A]		9.18		11.0		).5	10.3
. R. Amperes [A]		65.2		61.6	65		69.0
RC [A]		7.1x(Code H)	5.6	6x(Code F)		ode G)	6.7x(Code H)
No load current [A	1	4.40	5.0	4.00		30	4.55
Rated speed [RPN		1765		1455		.60	1460
Slip [%]	1	1.94		3.00		67	2.67
Rated torque [ft.lb]	1	22.3		27.1		7.0	27.0
Locked rotor torque		22.3		170		90	210
Breakdown torque		310		240		70	210
Breakdown torque Service factor	; [ <sup>70</sup> ]	1.25				25	1.25
		80 K	1.25			25 ) K	80 K
Temperature rise			80 K				
Locked rotor time		36s (cold) 20s (hot)					27s (cold) 15s (hot)
Noise level <sup>2</sup>	25%	58.0 dB(A)	5	6.0 dB(A)	50.00	dB(A)	56.0 dB(A)
	25% 50%	00 E		90 F			00 E
Efficiency (%)		89.5		89.5		9.5	89.5
	75%	91.0		89.5		).2	90.2
	100%	91.7		89.6	90	).2	90.2
	25%	0.00		0.70		<u> </u>	0.00
Power Factor	50%	0.66	0.72			69	0.66
	75% 100%	0.76	0.81			78	0.76
Bearing type	100%		<u>rive end</u> 07 C3	1	n loads	: 351 lb	0.82
Sealing Lubrication interv Lubricant amoun Lubricant type		: 20000 h 20 : 11 g			Max. compression : 532 lb		
Notes							
must be eliminate (1) Looking the m	ed. lotor from the Im and with to weight subjec ocess.	olerance of +3dB(A).	hich				ts with sinusoidal stipulated in NEMA
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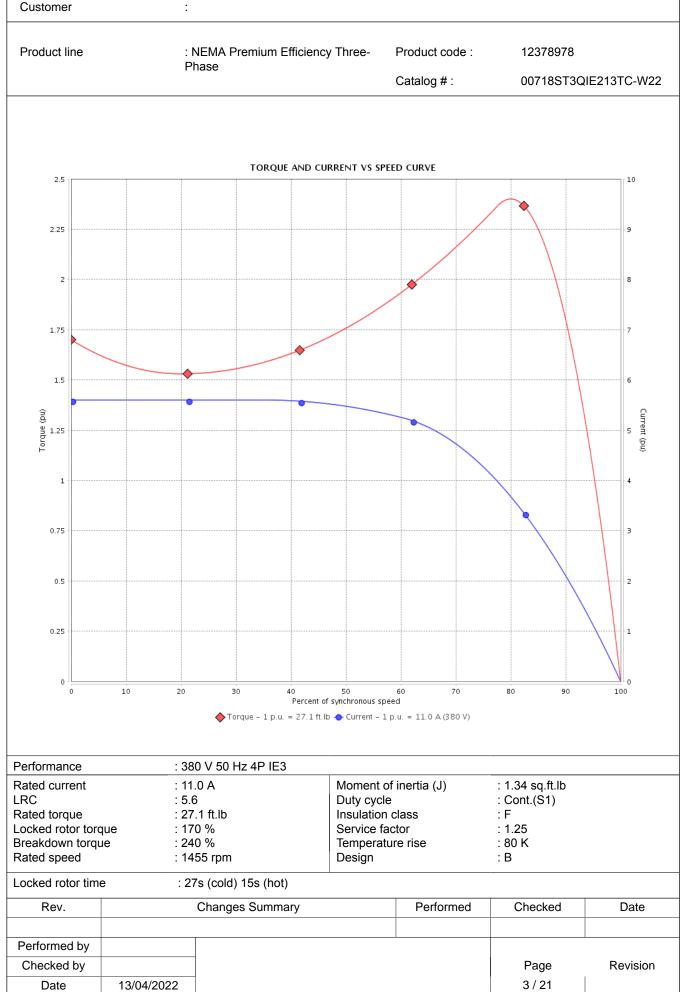


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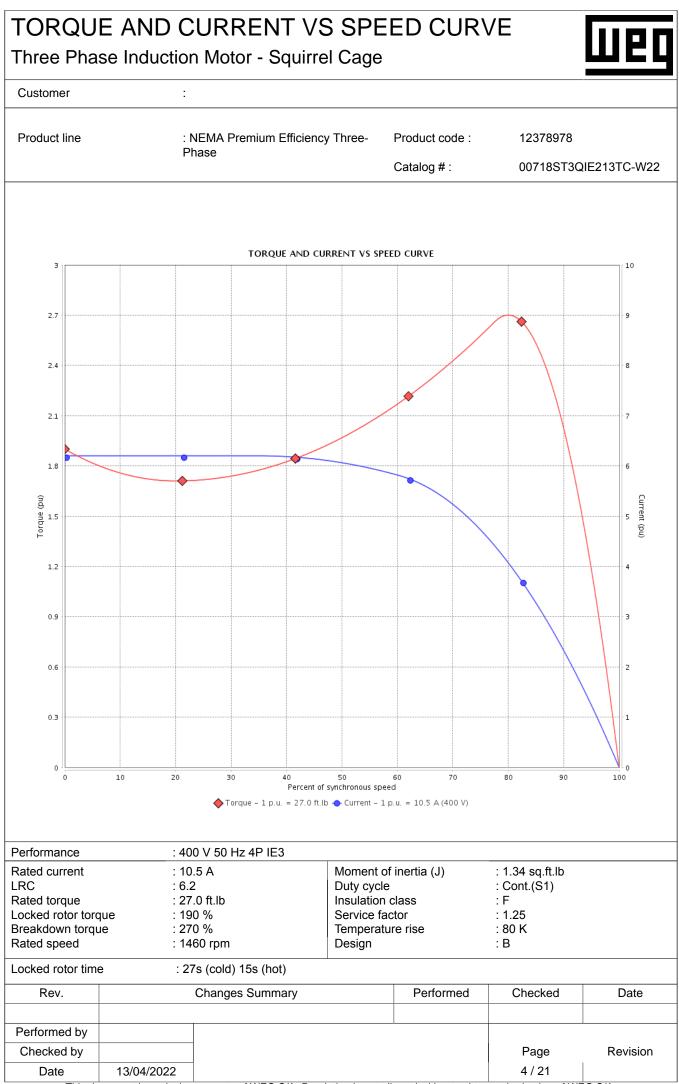
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





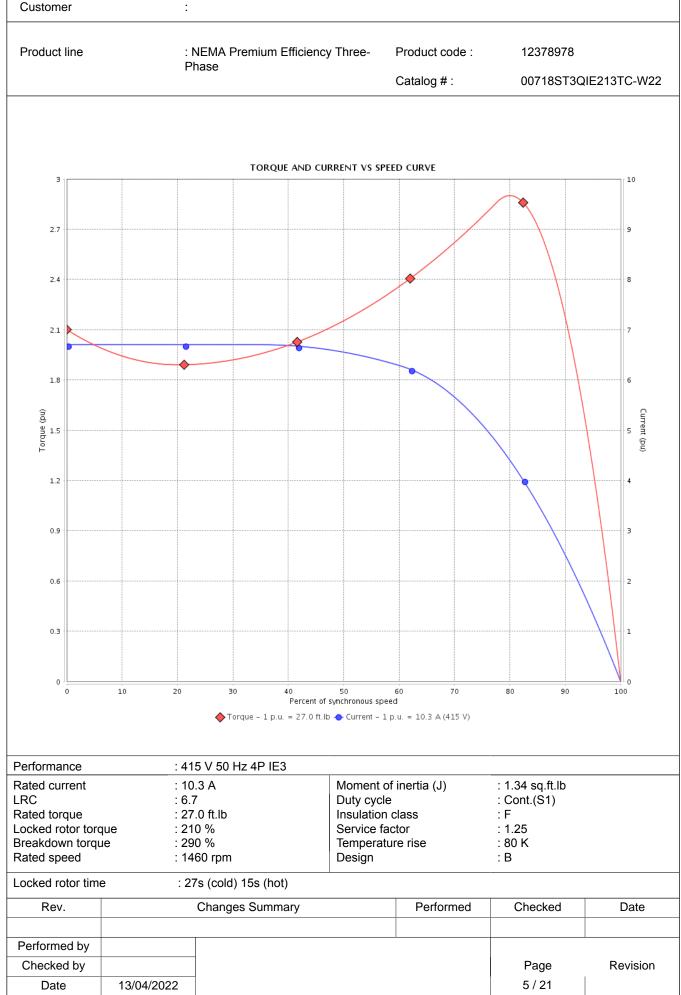
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Three Phase Induction Motor - Squirrel Cage

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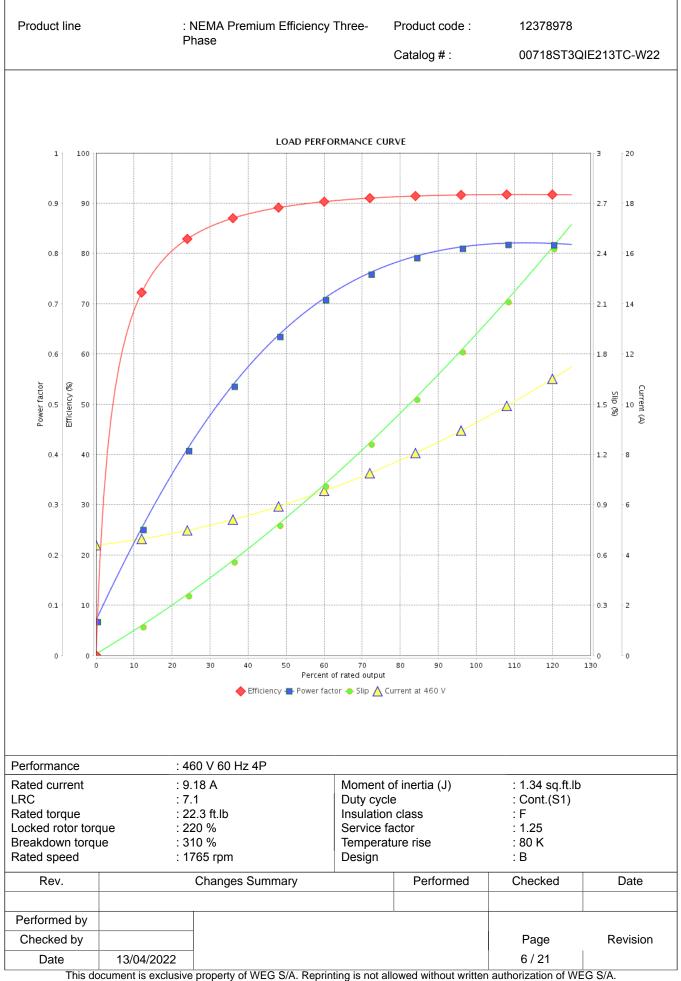


Three Phase Induction Motor - Squirrel Cage

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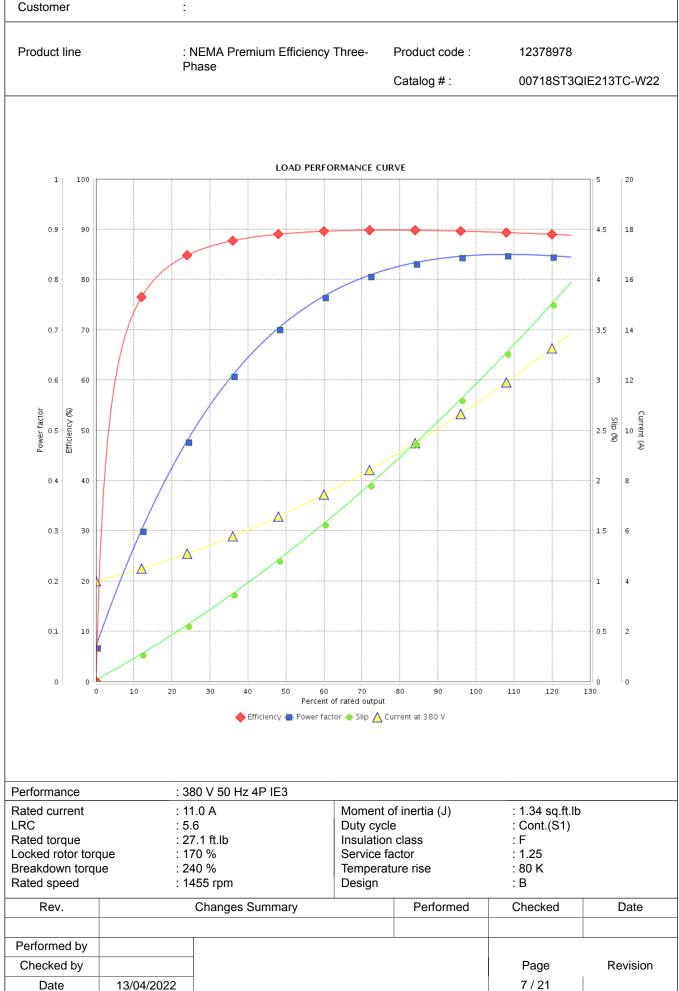


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Three Phase Induction Motor - Squirrel Cage

#### Customer



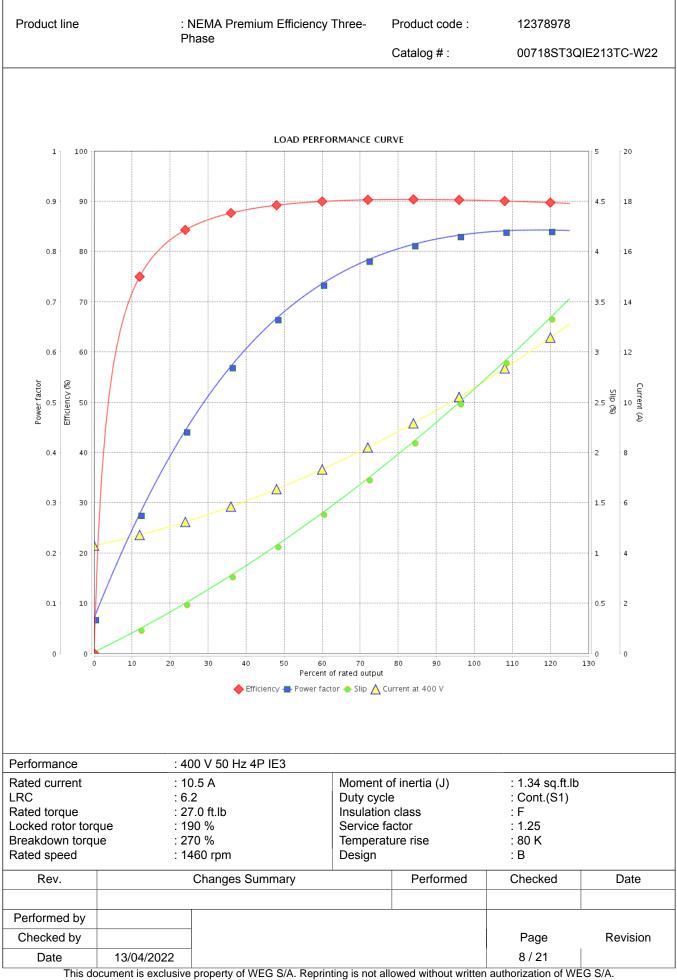
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Three Phase Induction Motor - Squirrel Cage

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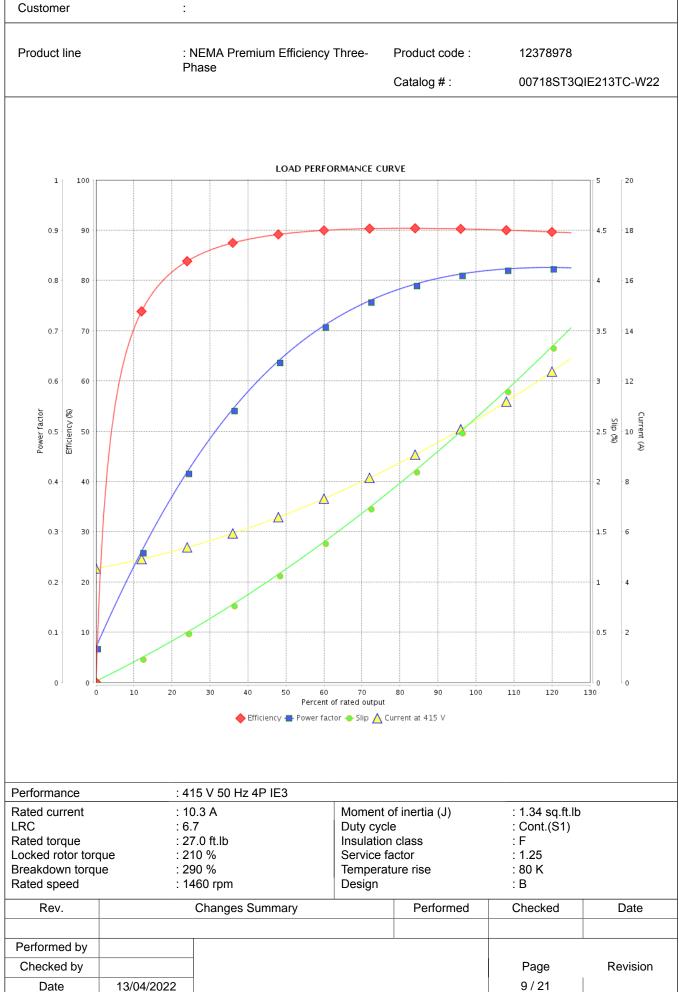


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Three Phase Induction Motor - Squirrel Cage

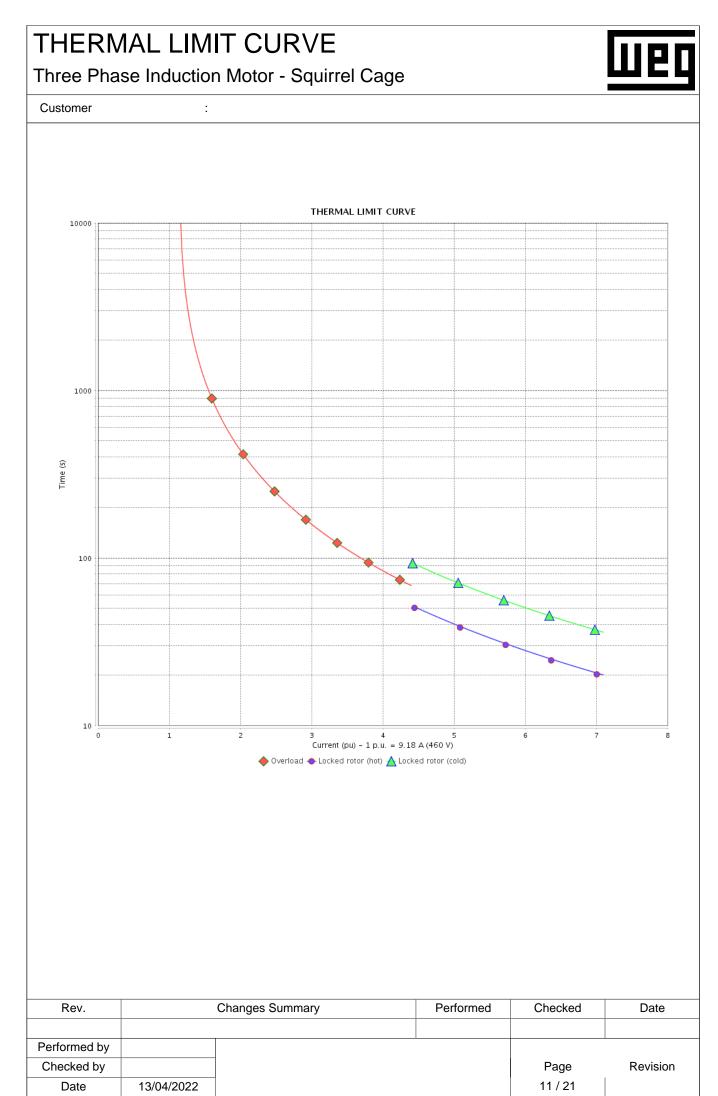
#### Customer



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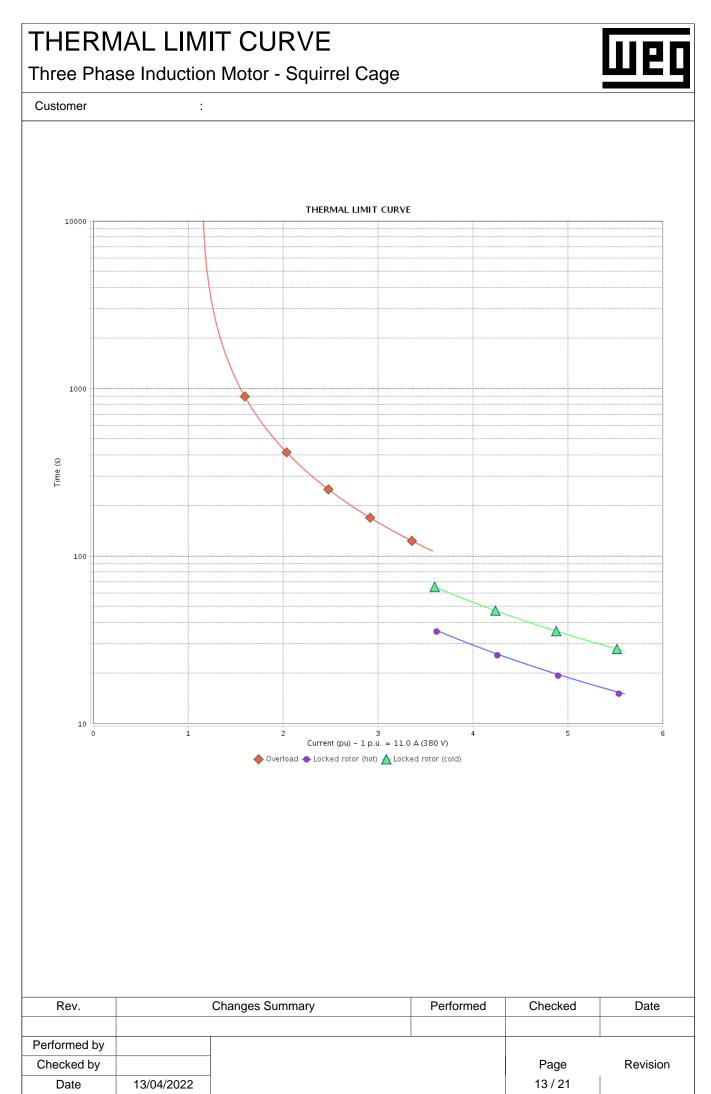
THERMAL LIMIT CURVE					
	se Induction Motor - Squirre	I Cage			Шед
Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	12378978 00718ST3Q	IE213TC-W22
Performance	: 460 V 60 Hz 4P				
Rated current LRC	: 9.18 A : 7.1	Duty cycl		: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq	: 22.3 ft.lb ue : 220 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	e : 310 %	Temperat		: 80 K	
Rated speed	: 1765 rpm	Design		: B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date

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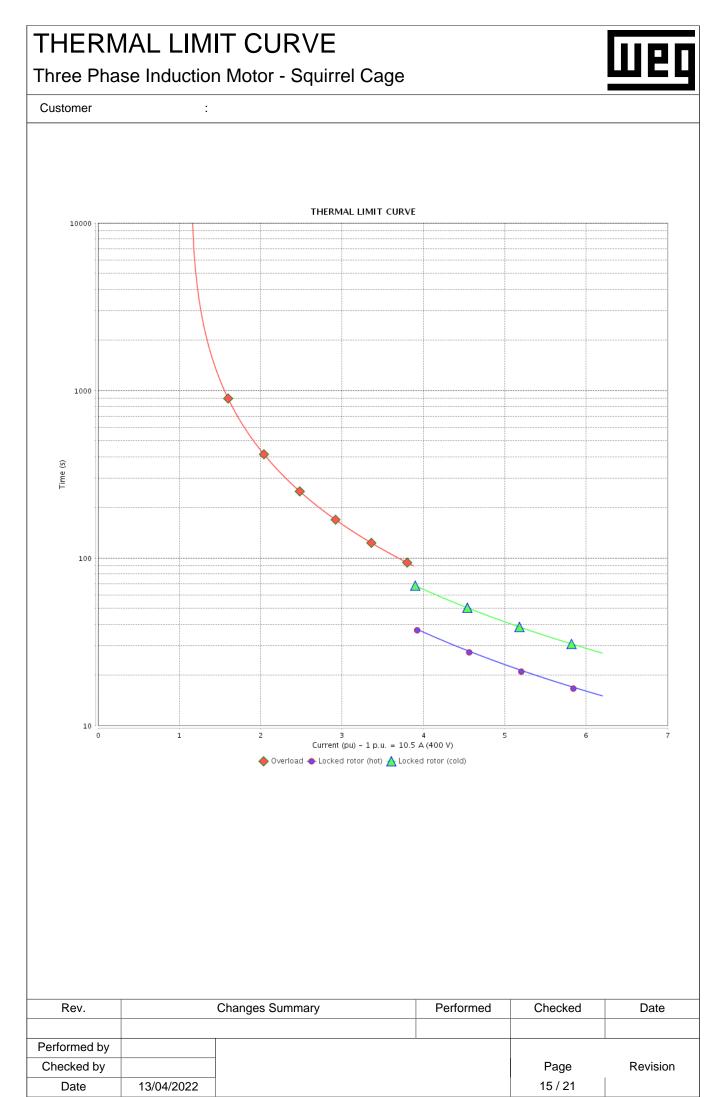
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage				
Customer :					
Phase	78978 18ST3QIE213TC-W22				
Performance : 380 V 50 Hz 4P IE3					
Rated current: 11.0 AMoment of inertia (J): 1.34LRC: 5.6Duty cycle: Cont	l sq.ft.lb t.(S1)				
Rated torque: 27.1 ft.lbInsulation class: FLocked rotor torque: 170 %Service factor: 1.25					
Breakdown torque: 240 %Temperature rise: 80 KRated speed: 1455 rpmDesign: B					
Heating constant					
Cooling constant       Changes Summary       Performed       Check	ked Date				

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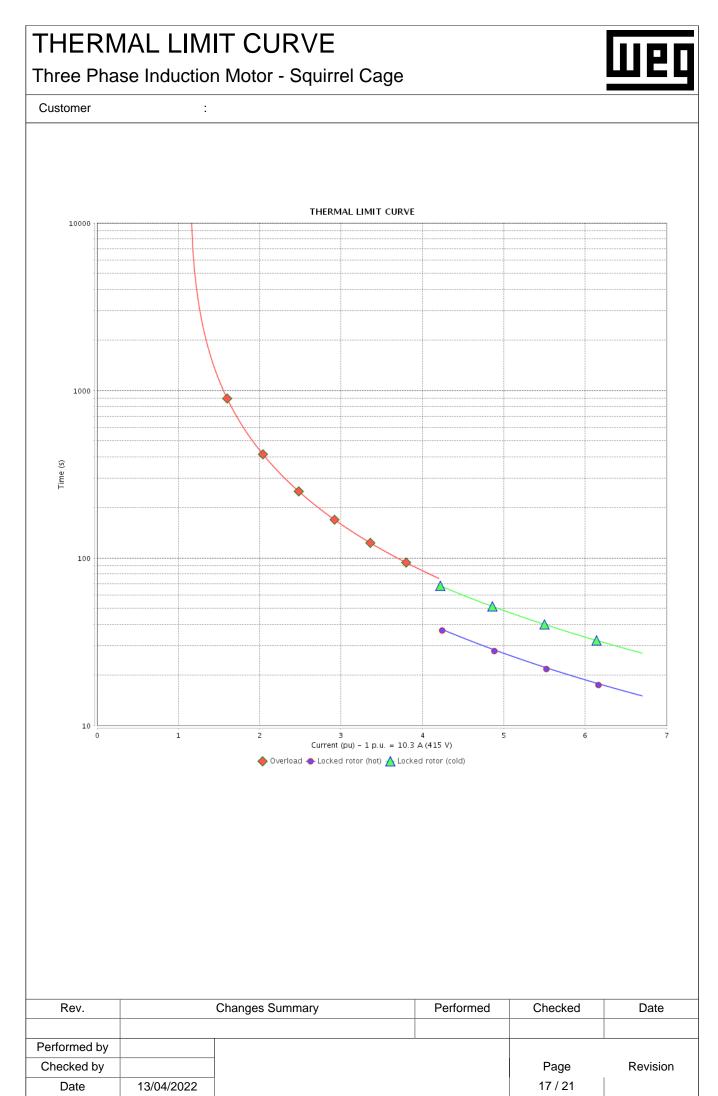
THERMAL LII		Cage		Шес
Customer	:			
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12378978 00718ST3QIE213TC-W22
Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 10.5 A		of inertia (J)	: 1.34 sq.ft.lb : Cont (S1)
LRC Rated torque	: 6.2 : 27.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F
Locked rotor torque	: 190 %	Service fa	actor	: 1.25
Breakdown torque Rated speed	: 270 % : 1460 rpm	Temperat Design	ure rise	: 80 K : B
Heating constant				
Cooling constant Rev.	Changes Summarv		Performed	Checked Date

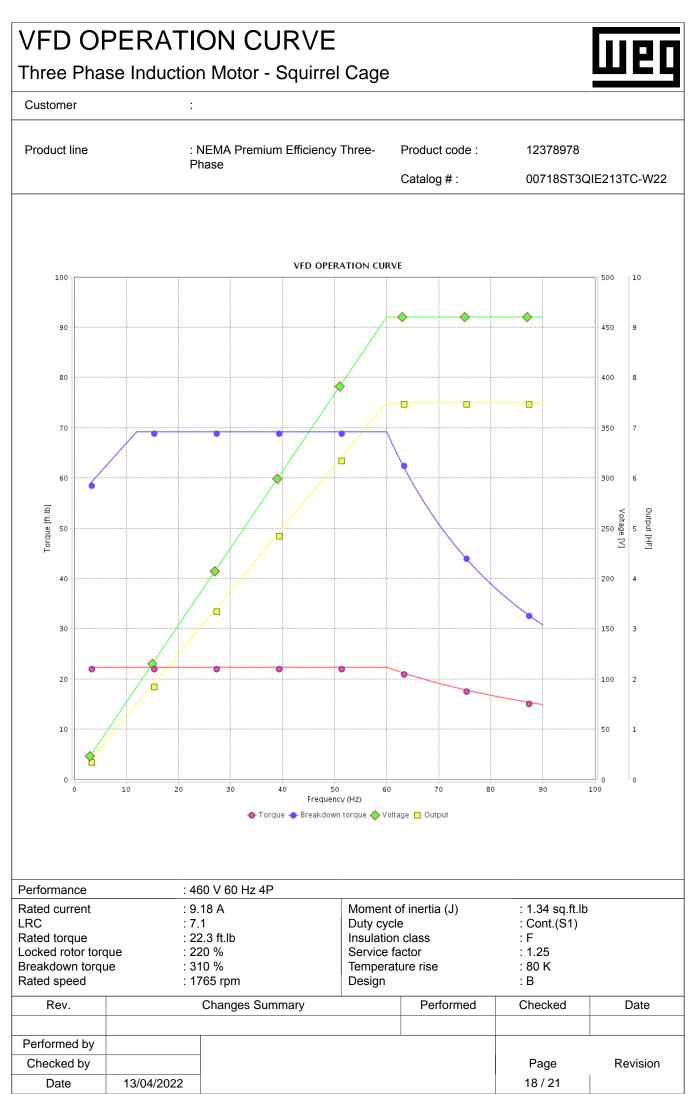
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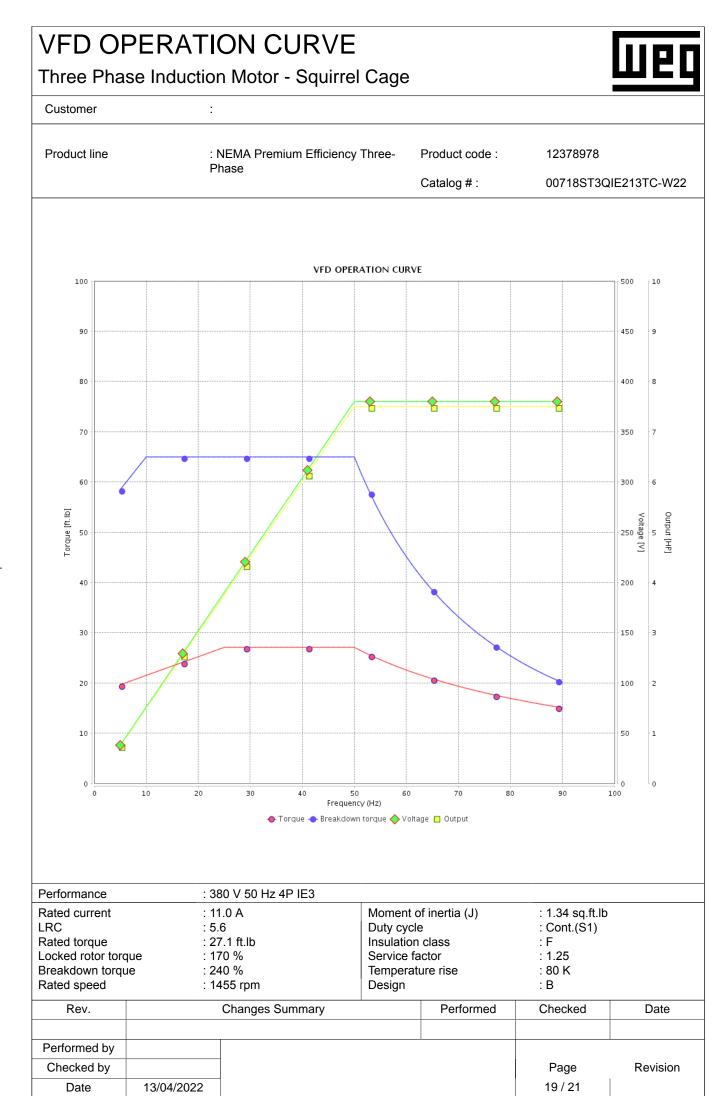


THERMAL LIMIT CURVE						
	se induct	ion Motor - Squirrel	Cage			
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378978 00718ST3Q	IE213TC-W22
Performance Rated current		: 415 V 50 Hz 4P IE3 : 10.3 A	Momente	finertia (I)	· 1 3/ 00 ft lb	
LRC		: 6.7	Duty cycle		: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque		: 27.0 ft.lb	Insulation	class	: F	
Locked rotor toro Breakdown torqu Rated speed	ie	: 210 % : 290 % : 1460 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
Heating constant						
Cooling constant						
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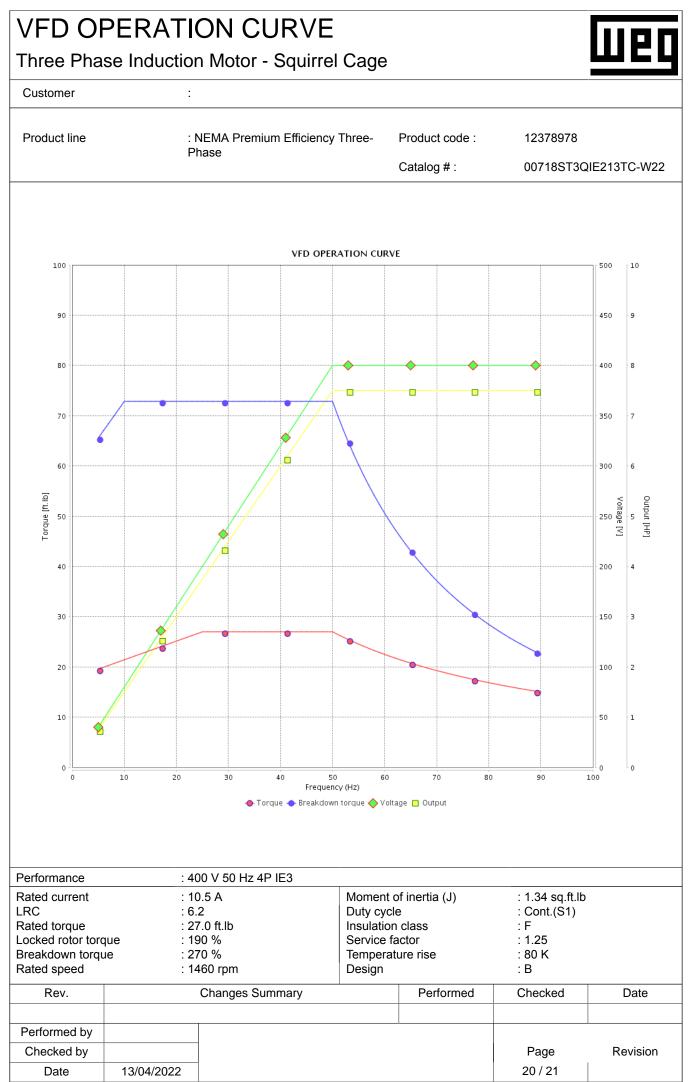
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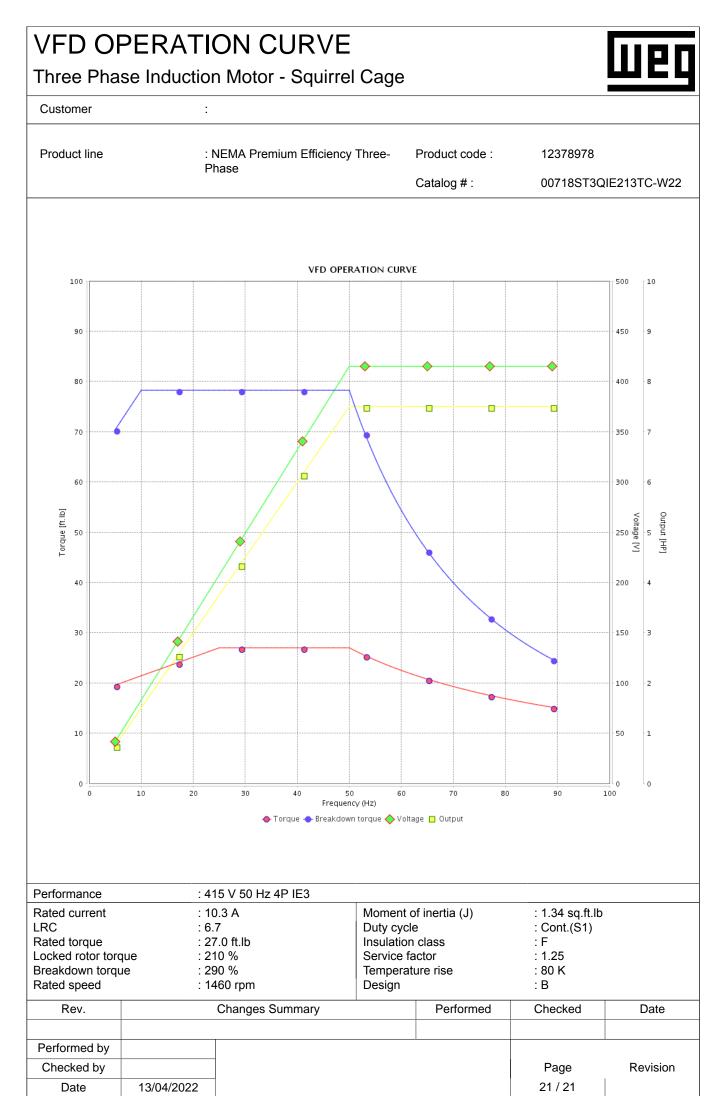




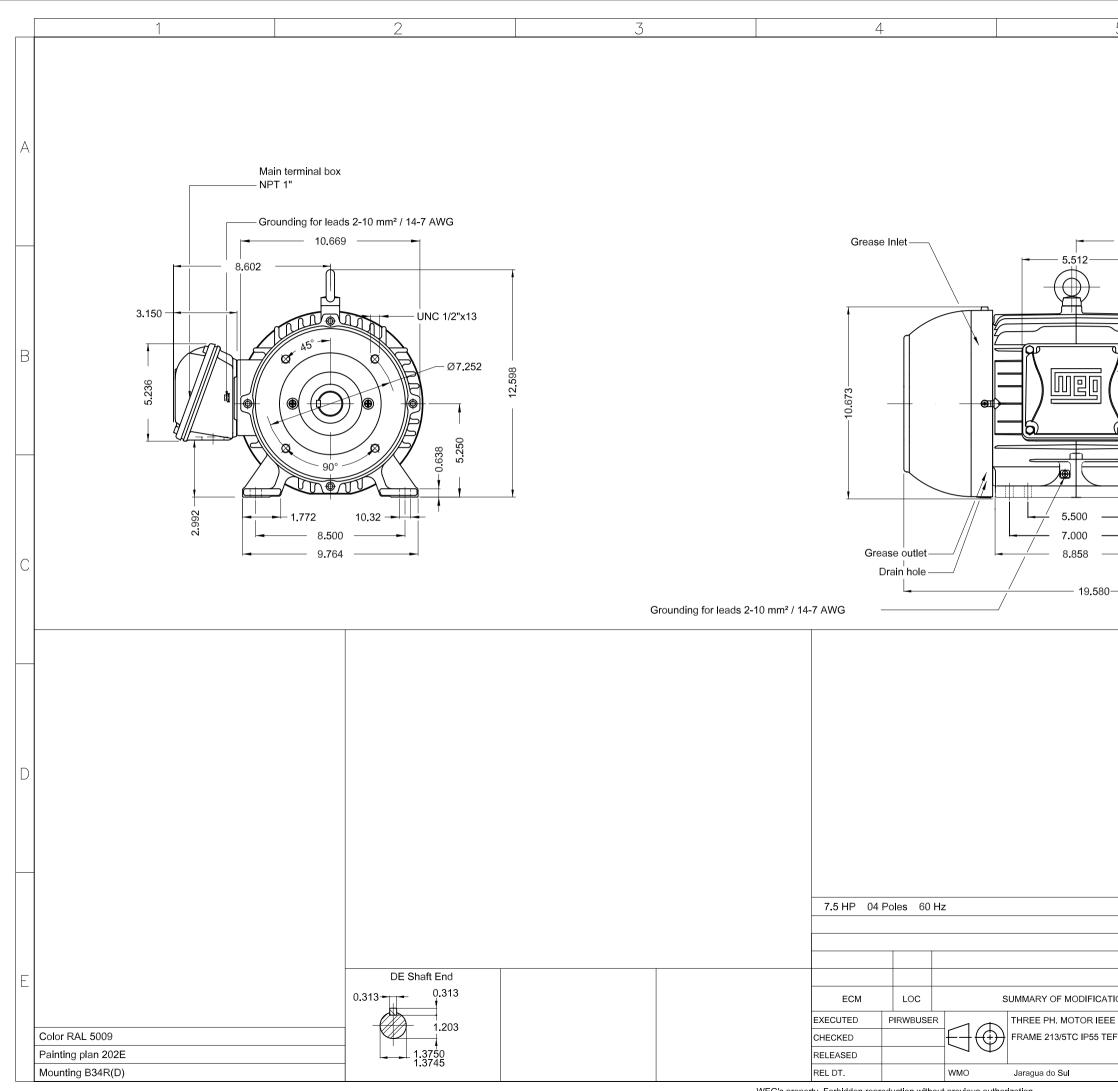
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