DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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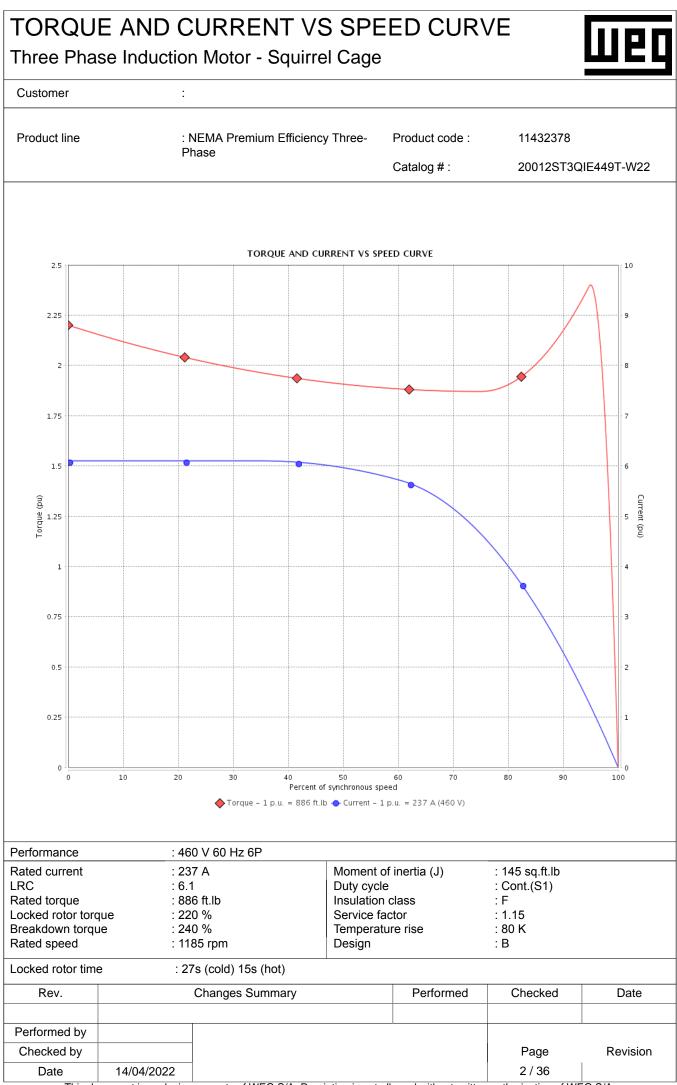
Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code :		11432378		
		1 11256			Catalog # :	20	20012ST3QIE449T-W22		
Frame: 447/9TInsulation class: FDuty cycle: Cont.(S1)Ambient temperature: -20°C to +40°C		Mounti Rotatio		: F : E	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line				
Altitude Protection degre Design		: 1000 m.a. : IP55 : B		Approx	κ. weight³ nt of inertia (J)	: 2	845 lb 45 sq.ft.lb		
Output [HP]		200	175	175	175	200	200	200	
Poles		6	6	6	6	6	6	6	
requency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		460	380	400	415	380	400	415	
Rated current [A]		237	250	243	236	285	273	265	
R. Amperes [A]		1446	1375	1507	1581	1340	1474	1564	
.RC [A]		6.1x(Code G)	5.5x(Code F)	6.2x(Code G)	6.7x(Code H)	4.7X(Code D)	5.4X(Code F)	5.9x(Code G)	
No load current [A	1	85.0	83.9	91.0	96.0	83.9	91.0	96.0	
Rated speed [RPI		1185	980	980	980	980	980	980	
Slip [%]		1.25	2.00	2.00	2.00	2.00	2.00	2.00	
Rated torque [ft.lb]	886	938	938	938	1070	1070	1070	
ocked rotor torqu		220	200	220	240	170	190	210	
Breakdown torque		240	220	240	260	190	210	229	
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00	
emperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K	
ocked rotor time		27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold 12s (hot)	
Noise level ²		70.0 dB(A)							
Efficiency (%)	25%	94.5	94.5	93.9	92.8	94.8	94.3	93.4	
	50%	95.0	94.4	94.1	93.4	94.5	94.5	94.0	
	75%	95.4	94.6	94.6	94.4	94.5	94.5	94.5 95.0	
	100%	95.8	94.3	94.6	94.8	94.0	94.5		
	25% 50%	0.45	0.46	0.43	0.40	0.51 0.74	0.47	0.45	
Power Factor	75%	0.08	0.81	0.00	0.03	0.74	0.71	0.08	
	100%	0.79	0.81	0.79	0.76	0.85	0.84	0.79	
Bearing type	100 %	<u>Drive end</u> : 6322 C3	Non drive 6319 (end C3 Max. tra	ition loads action	: 5	149 lb	0.03	
Sealing Lubrication inter Lubricant amour Lubricant type		: Inpro/Se : 11000 h : 60 g : Mobi		h	ompression	: / (994 lb		
Notes									
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate w manufacturing pr	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. tolerance of +3	8dB(A).		are average va supply, subject				
(4) At 100% of fu	II load.	Changes	Summary		Performe	ed Che	ecked	Date	
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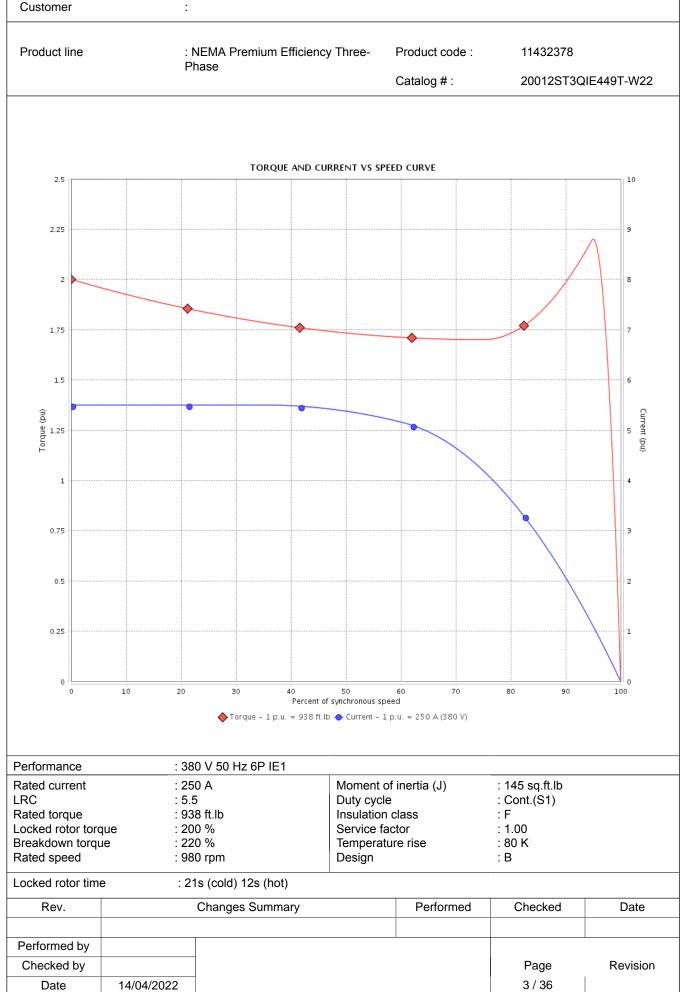
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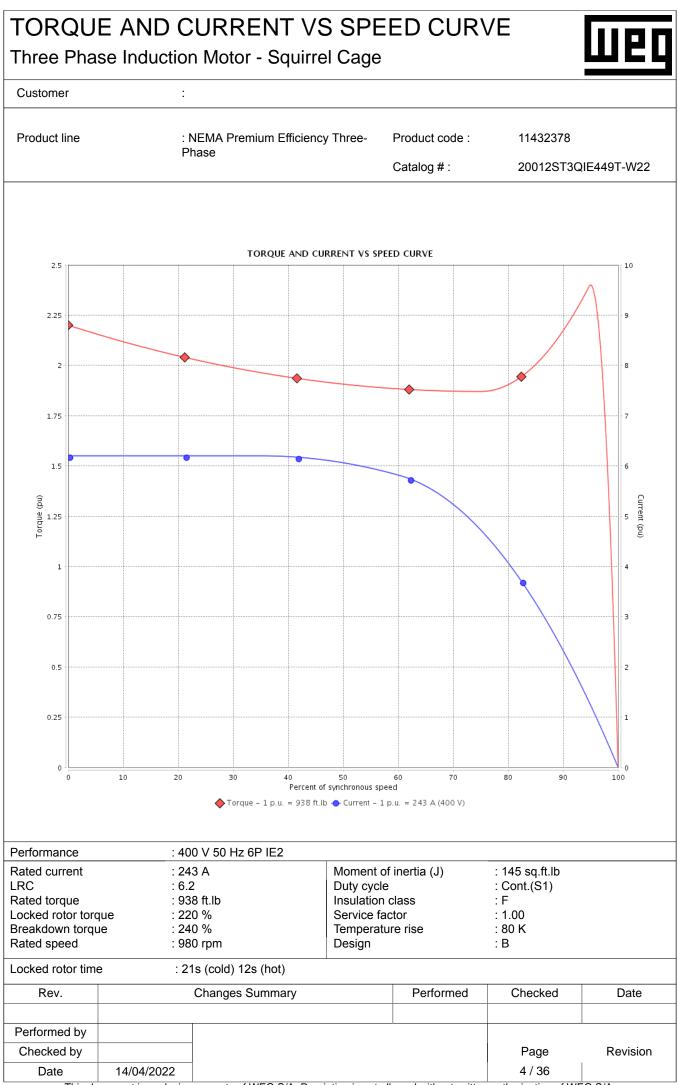
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





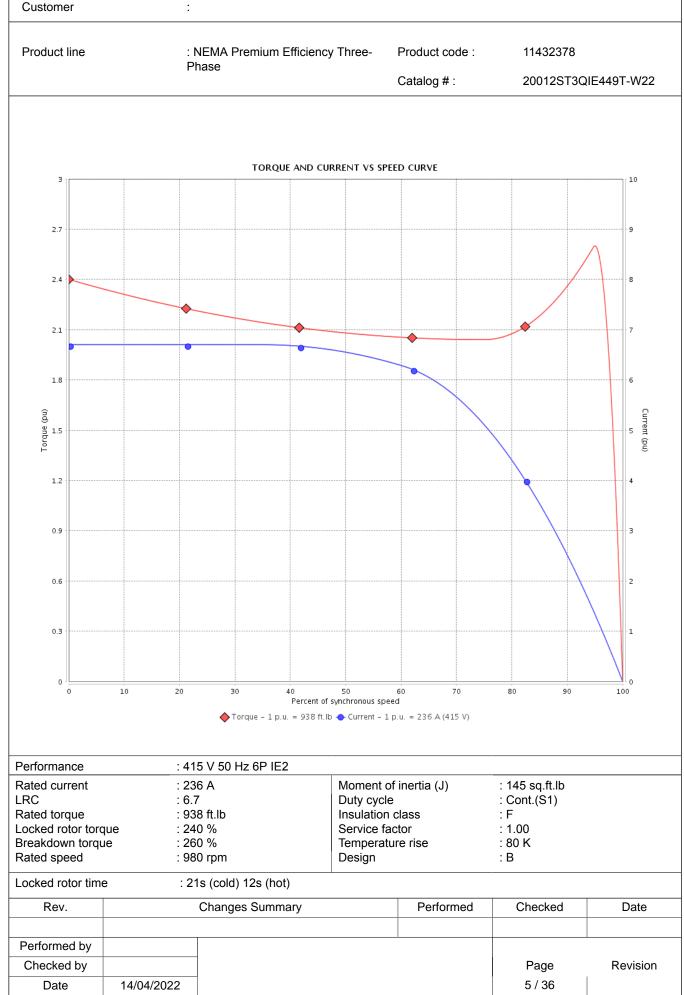
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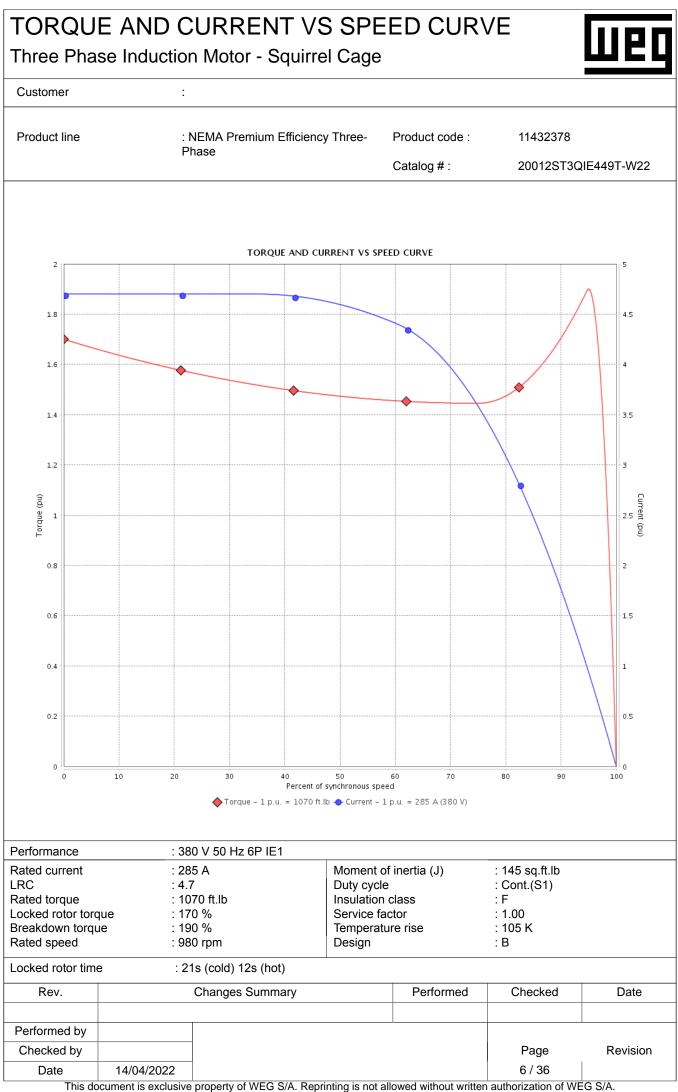
TORQUE AND CURRENT VS SPEED CURVE

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Customer



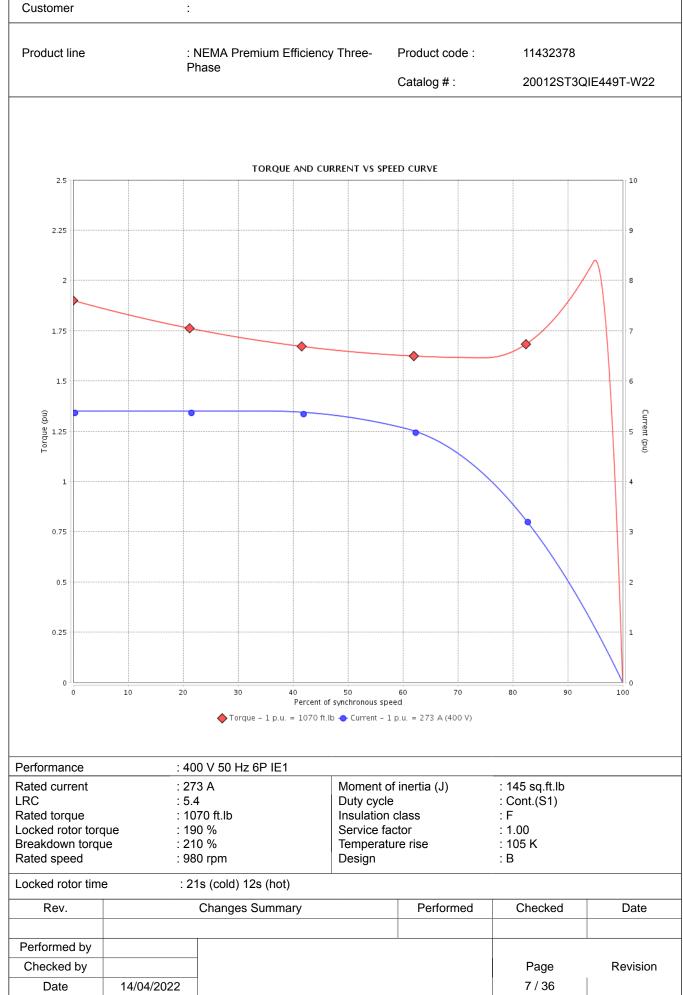
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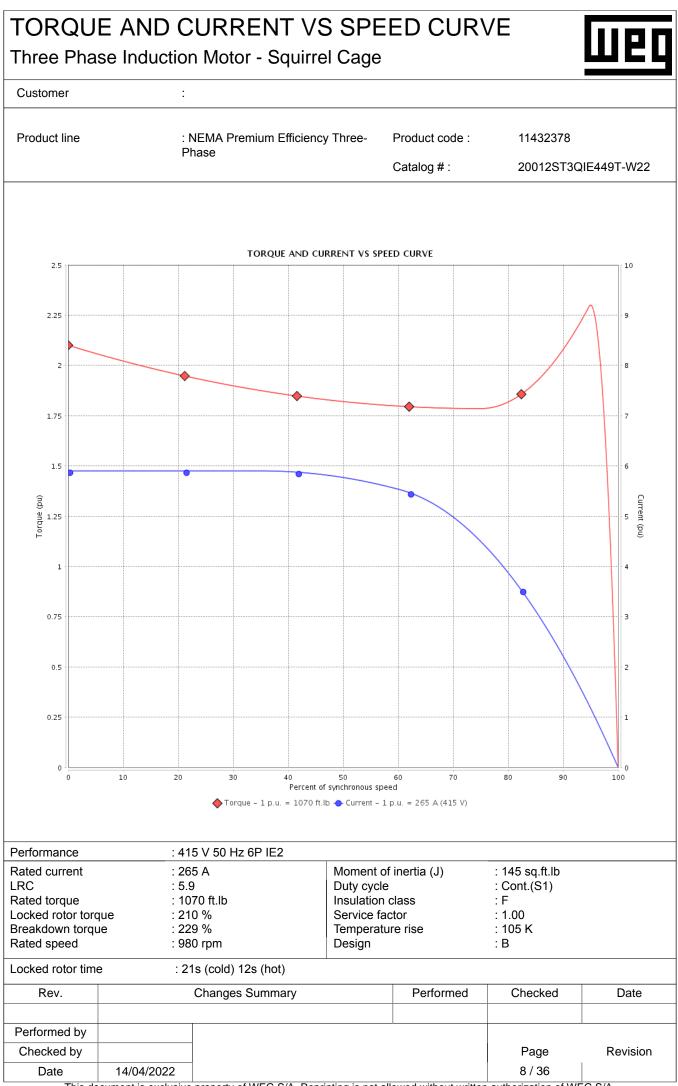
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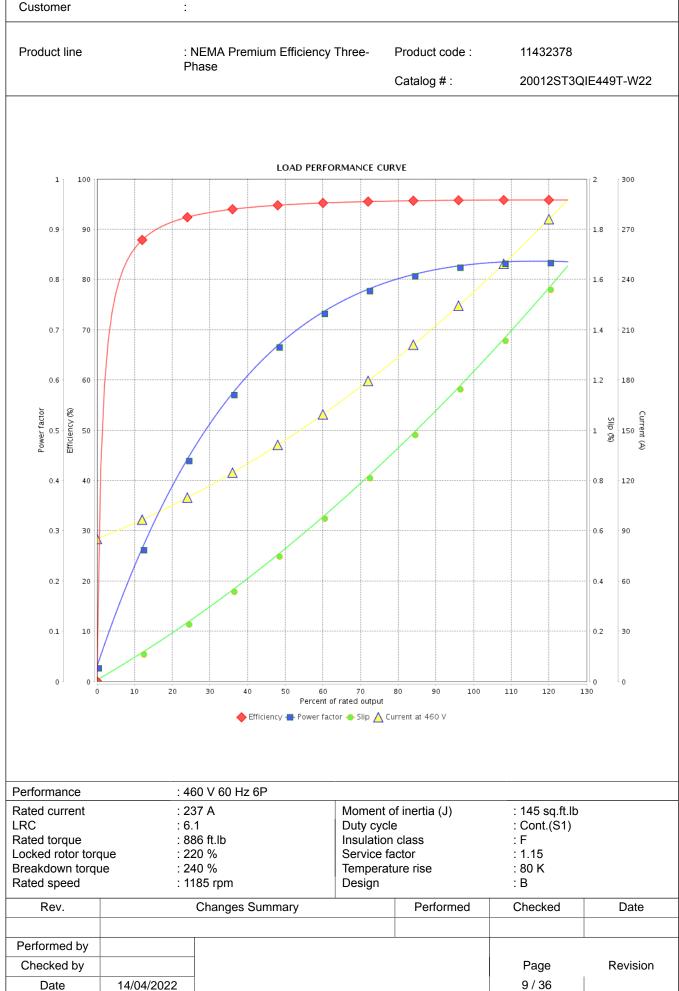


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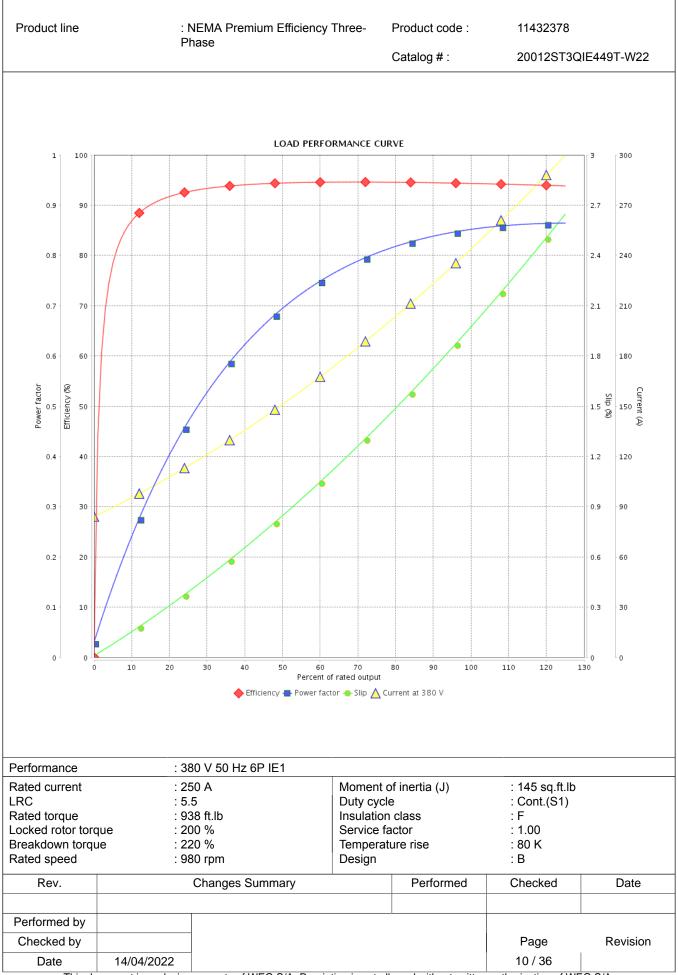
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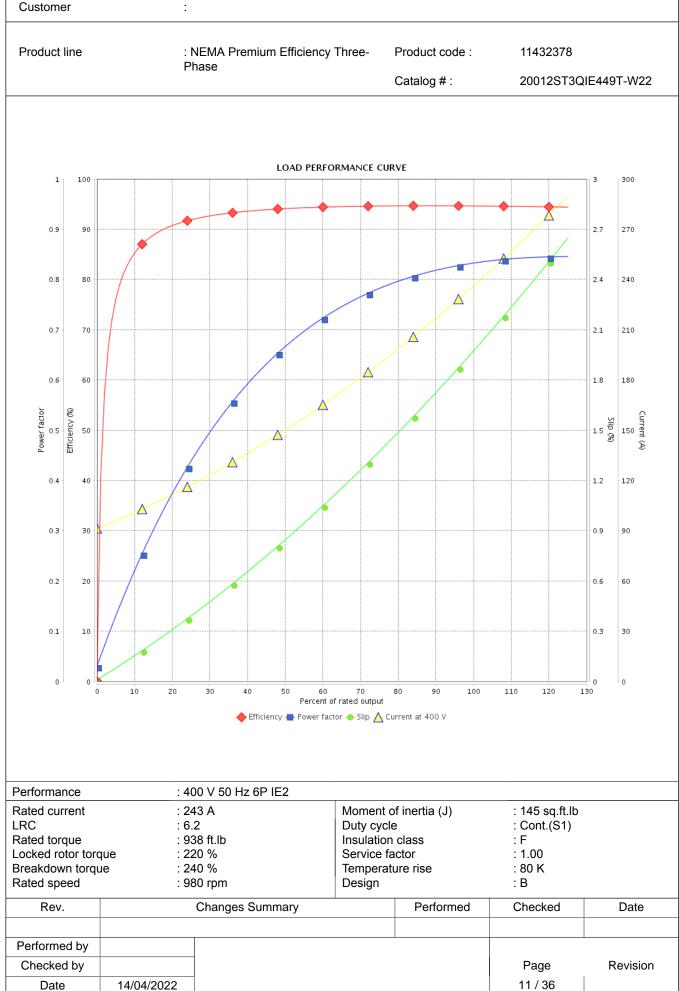


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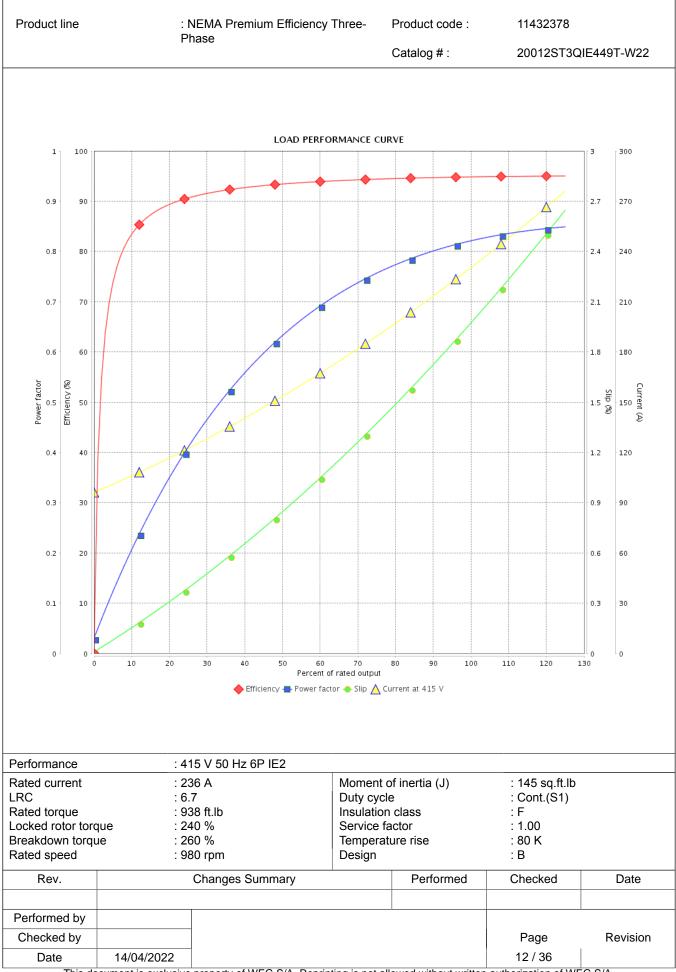
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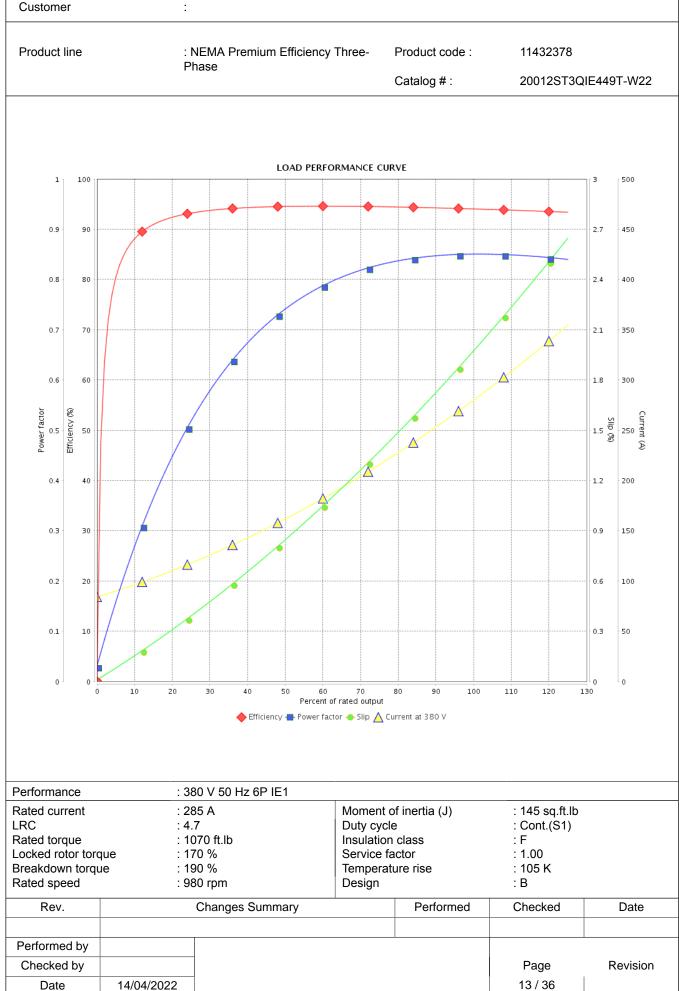


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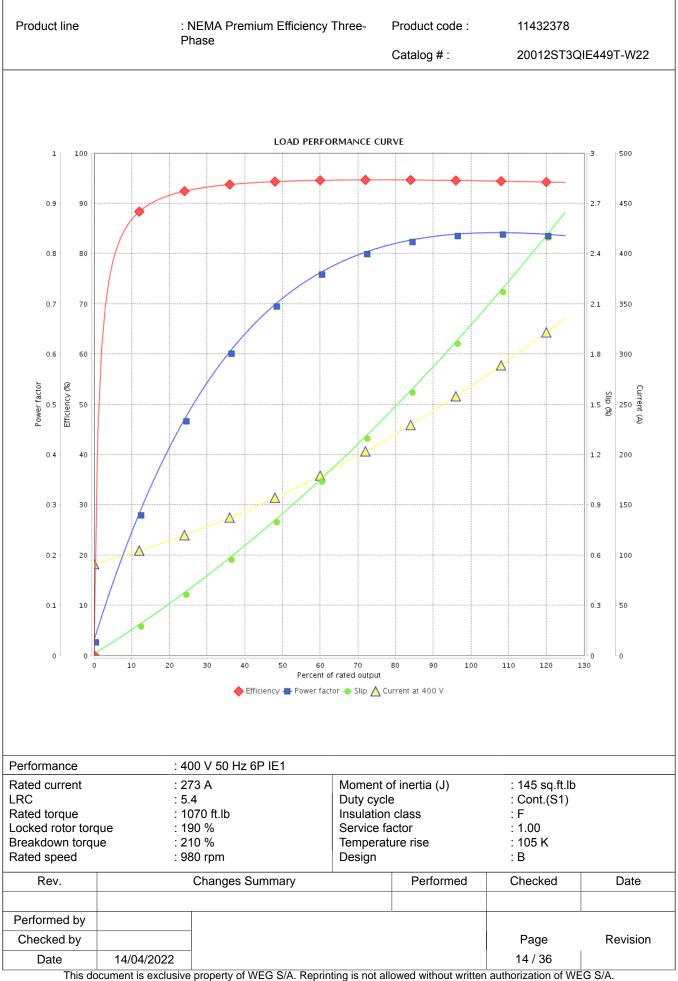
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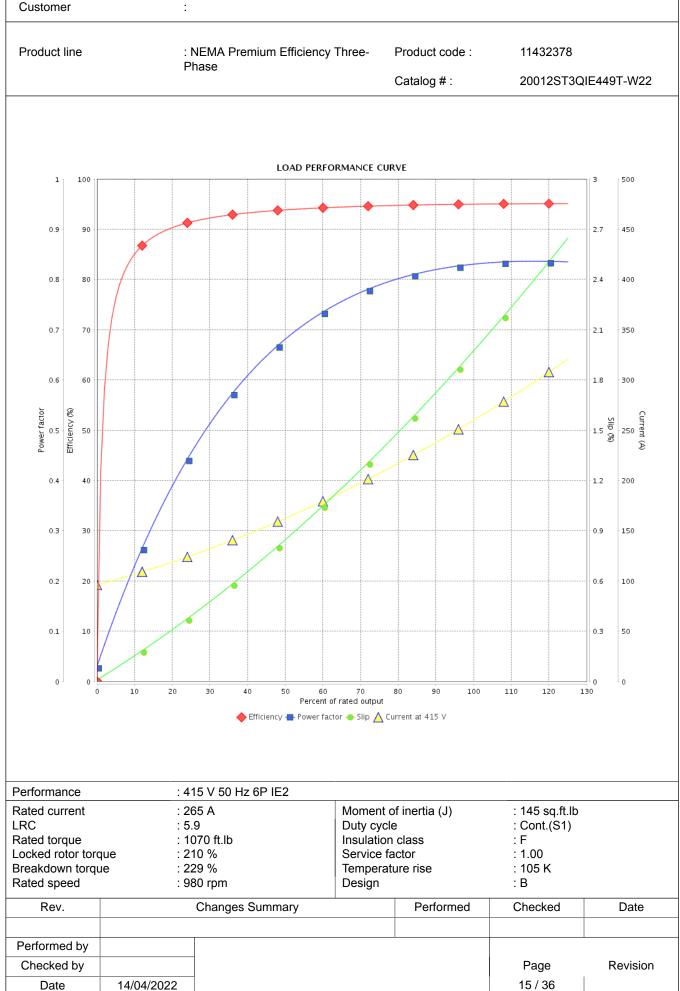


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Three Pha	se Inductior	n Motor - Squirrel	Cage			шед
Customer	:					
Product line		NEMA Premium Efficiency 1 nase	Three-	Product code :	11432378	
	FI	lase		Catalog # :	20012ST3Q	IE449T-W22
Performance	: 46	60 V 60 Hz 6P				
Rated current: 237 ALRC: 6.1Rated torque: 886 ft.lbLocked rotor torque: 220 %Breakdown torque: 240 %Rated speed: 1185 rpm		1 36 ft.lb 20 % 40 %			: 1.15 : 80 K	
Heating constant						
Cooling constant		Changes Summer:		Performed	Checked	Data
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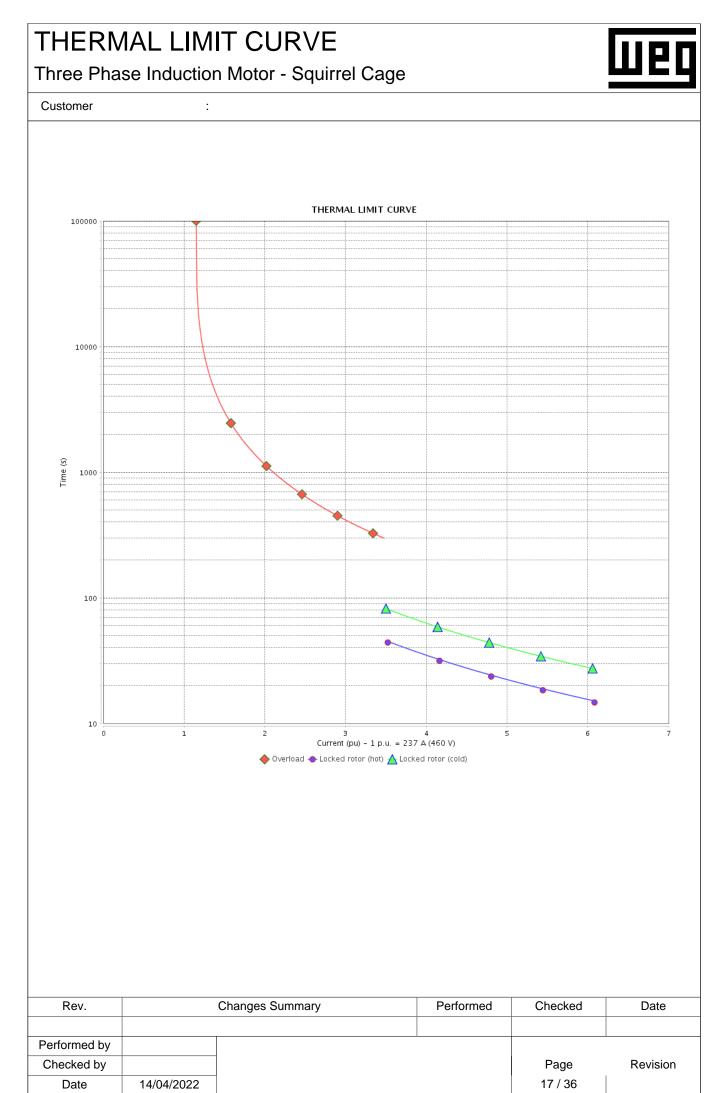
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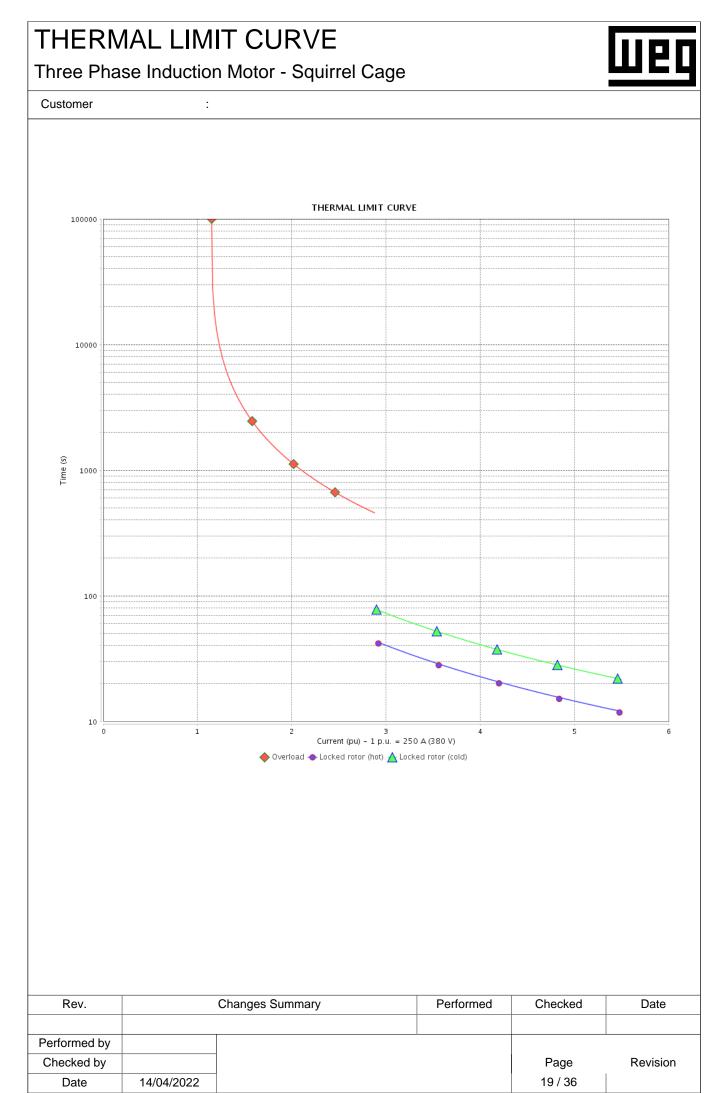
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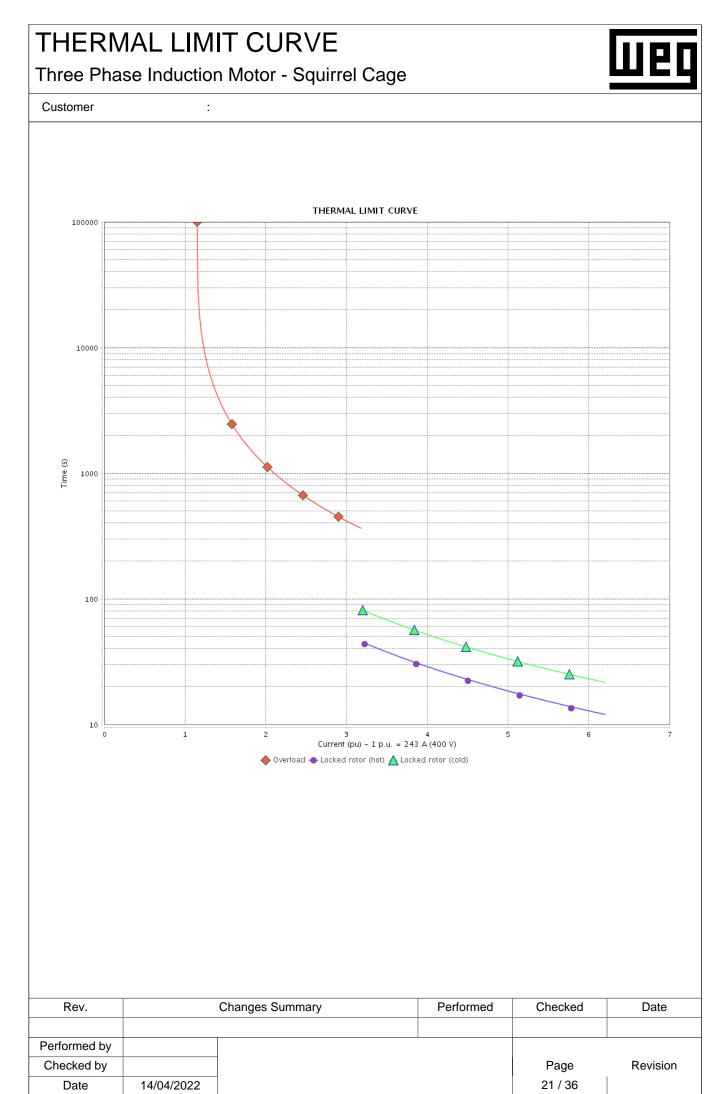
THERM	THERMAL LIMIT CURVE					
Three Pha	se Inductior	n Motor - Squirrel	Cage			шед
Customer	:					
Product line		NEMA Premium Efficiency 1	hree-	Product code :	11432378	
	PI	nase		Catalog # :	20012ST3Q	IE449T-W22
Performance	: 38	30 V 50 Hz 6P IE1				
Rated current: 250 ALRC: 5.5Rated torque: 938 ft.lbLocked rotor torque: 200 %Breakdown torque: 220 %Rated speed: 980 rpm		Moment of inertia (J): 145 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.00Temperature rise: 80 KDesign: B				
Heating constant						
Cooling constant Rev.	t	Changes Summers		Performed	Checked	Data
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Three Pha	se Induct	ion Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432378 20012ST3Q	IE449T-W22
Desfermence						
Performance: 400 V 50 Hz 6P IE2Rated current: 243 ALRC: 6.2Rated torque: 938 ft.lbLocked rotor torque: 220 %Breakdown torque: 240 %		Moment of inertia (J): 145 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.00Temperature rise: 80 K				
Rated speed		: 980 rpm	Design		: B	
Heating constant						
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Customer	:					
Product line		NEMA Premium Efficiency ⁻ nase	Three-	Product code :	11432378	
				Catalog # :	20012ST3Q	IE449T-W22
Performance		15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 93 ue : 24 e : 26	36 A 7 38 ft.lb 40 % 50 % 30 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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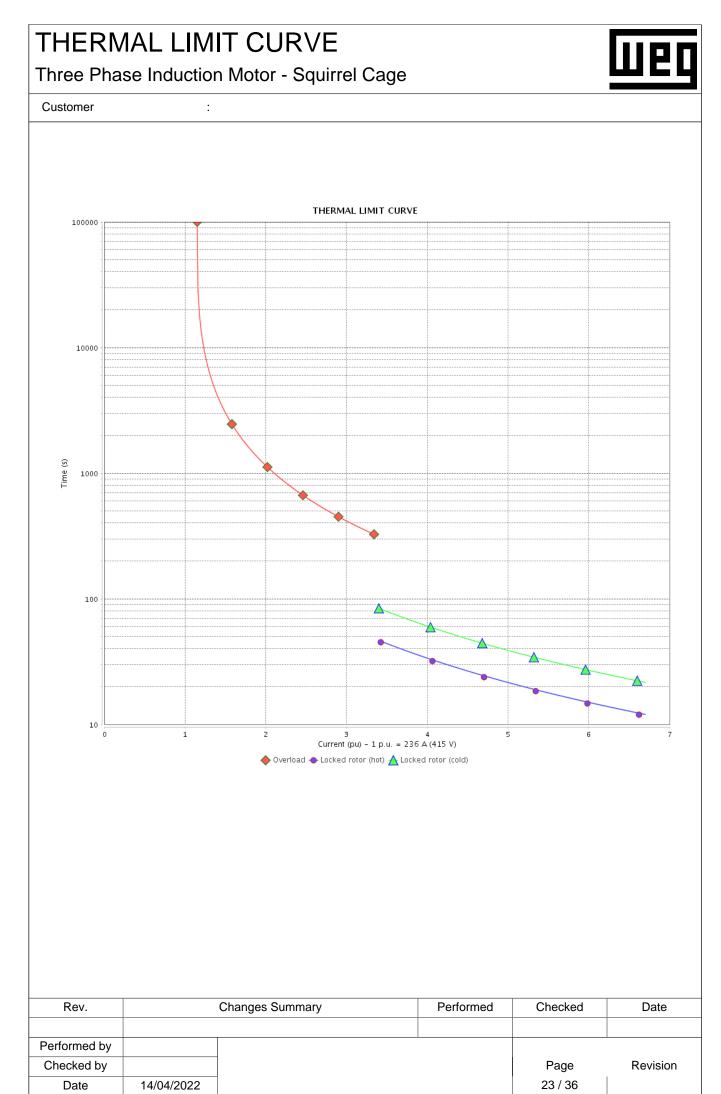
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Three Pha	se Induction	n Motor - Squirrel	Cage			Шед
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11432378 20012ST3Q	IE449T-W22
Performance Rated current		80 V 50 Hz 6P IE1 85 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC : Rated torque : Locked rotor torque : Breakdown torque :		4.7Duty cyc1070 ft.lbInsulation170 %Service ft190 %Temperation980 rpmDesign		e class ctor	: Cont.(S1) : F : 1.00 : 105 K : B	
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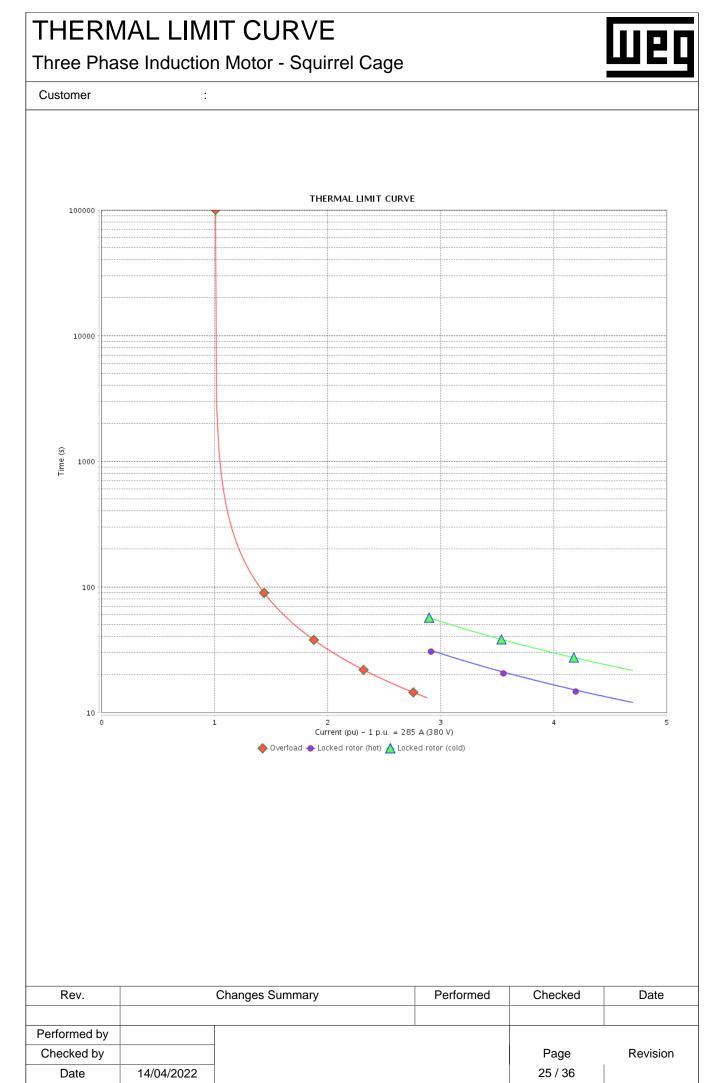
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Three Pha	se Inductio	n Motor - Squirrel	Cage			шед
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11432378 20012ST3Q	IE449T-W22
Performance		00 V 50 Hz 6P IE1	Momente	finartia (1)	: 145 og ft lb	
LRC:Rated torque:Locked rotor torque:Breakdown torque:		73 A .4 070 ft.lb 90 % 10 % 80 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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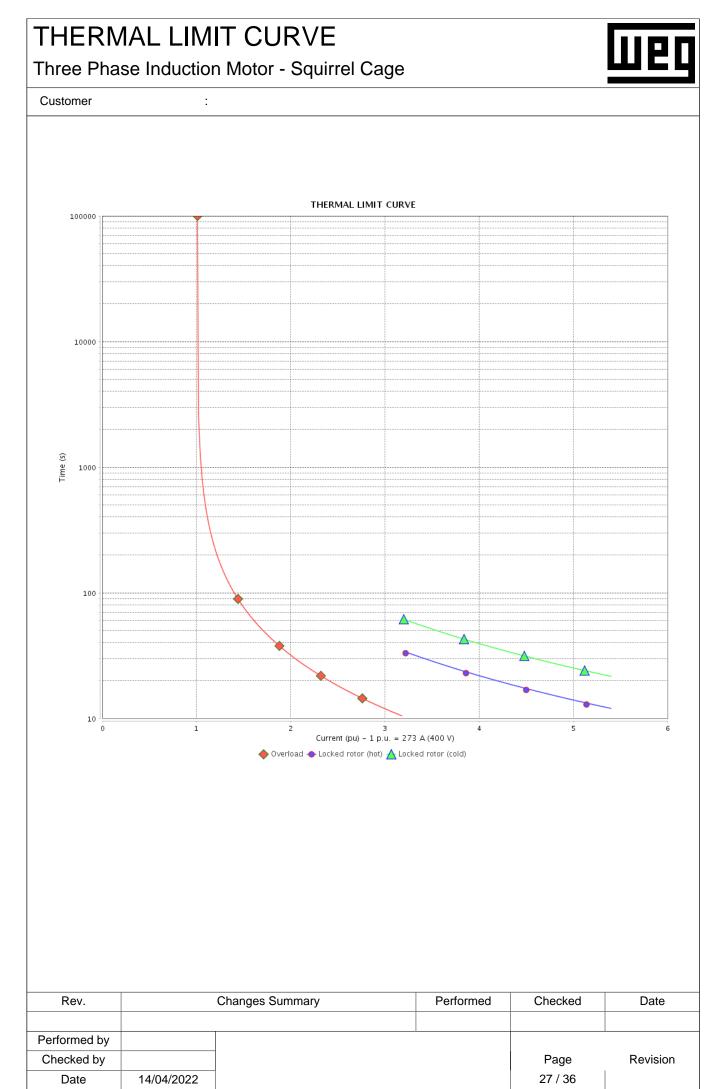
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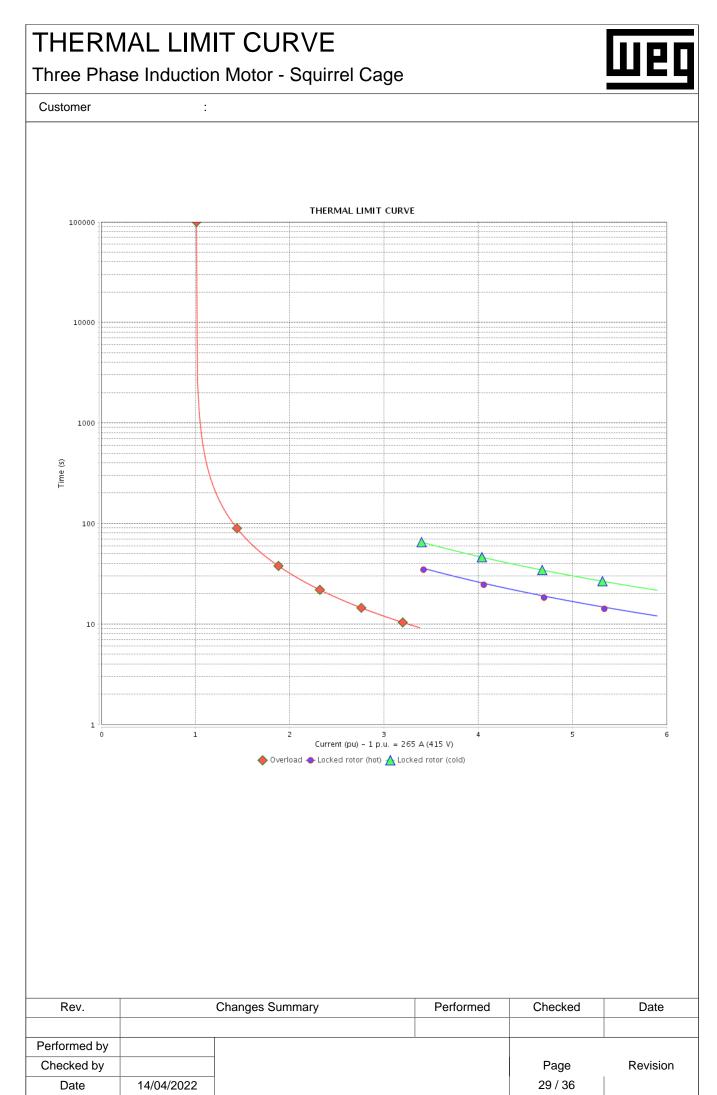
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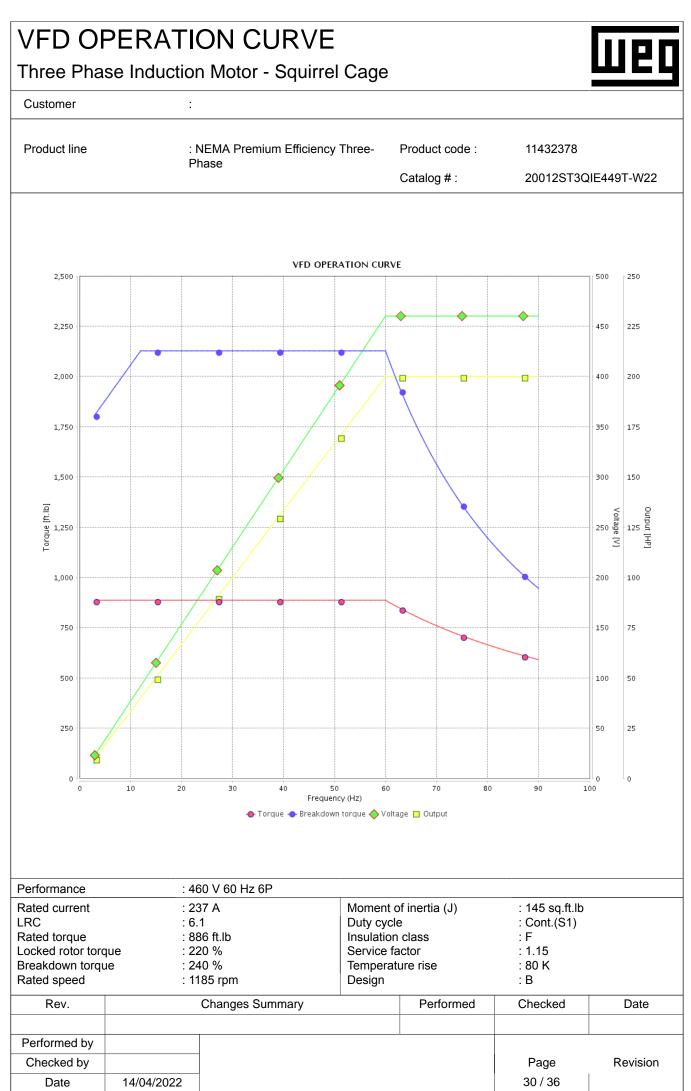
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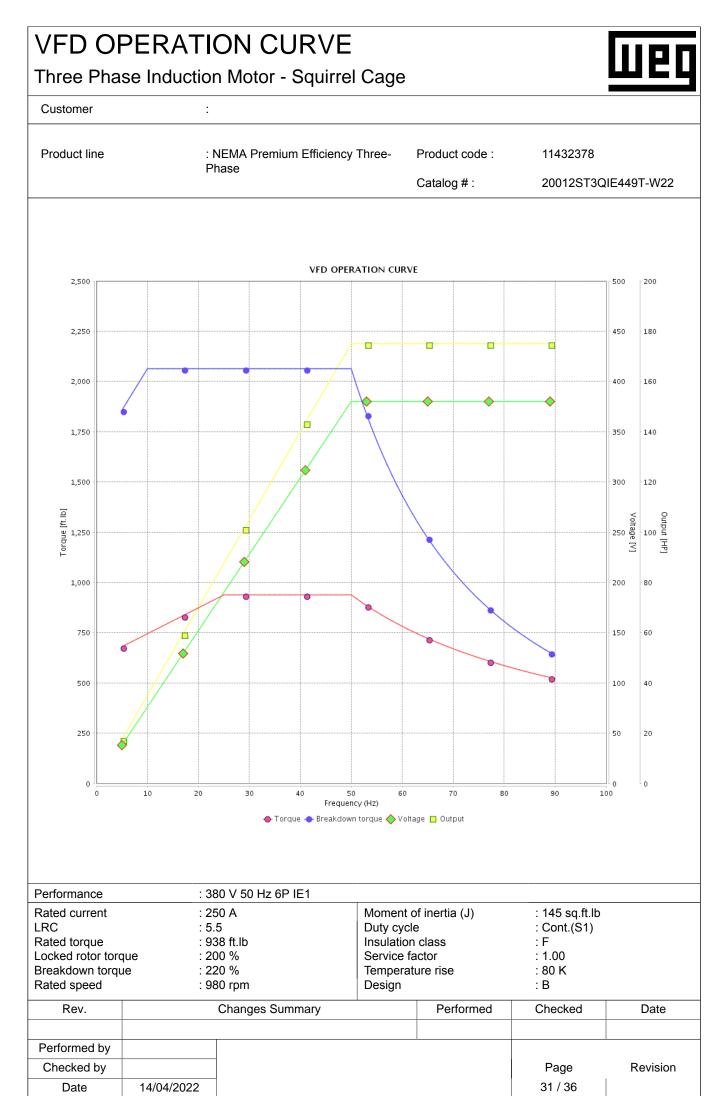


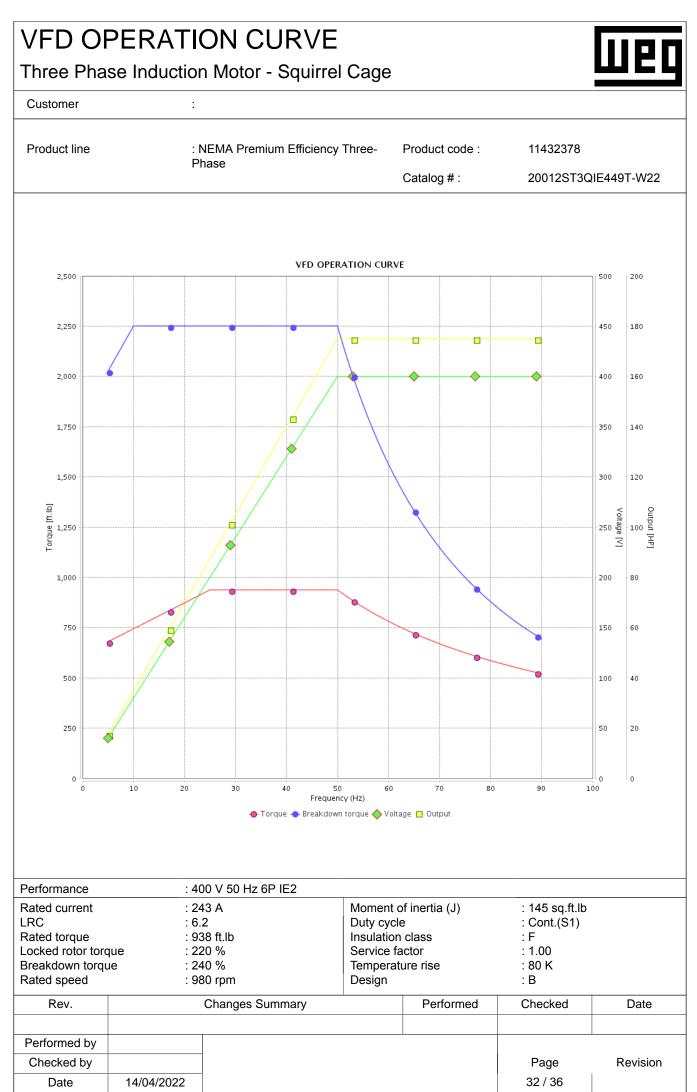
THERMAL LIMIT CURVE						
Three Pha	se Inductior	n Motor - Squirrel	Cage			шсч
Customer	:					
Product line		NEMA Premium Efficiency 1	Three-	Product code :	11432378	
	PI	nase		Catalog # :	20012ST3Q	IE449T-W22
Performance	: 41	15 V 50 Hz 6P IE2				
Rated current: 265 ALRC: 5.9Rated torque: 1070 ft.lbLocked rotor torque: 210 %Breakdown torque: 229 %Rated speed: 980 rpm		9)70 ft.lb 0 % 29 %	Moment of inertia (J): 145 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.00Temperature rise: 105 KDesign: B			
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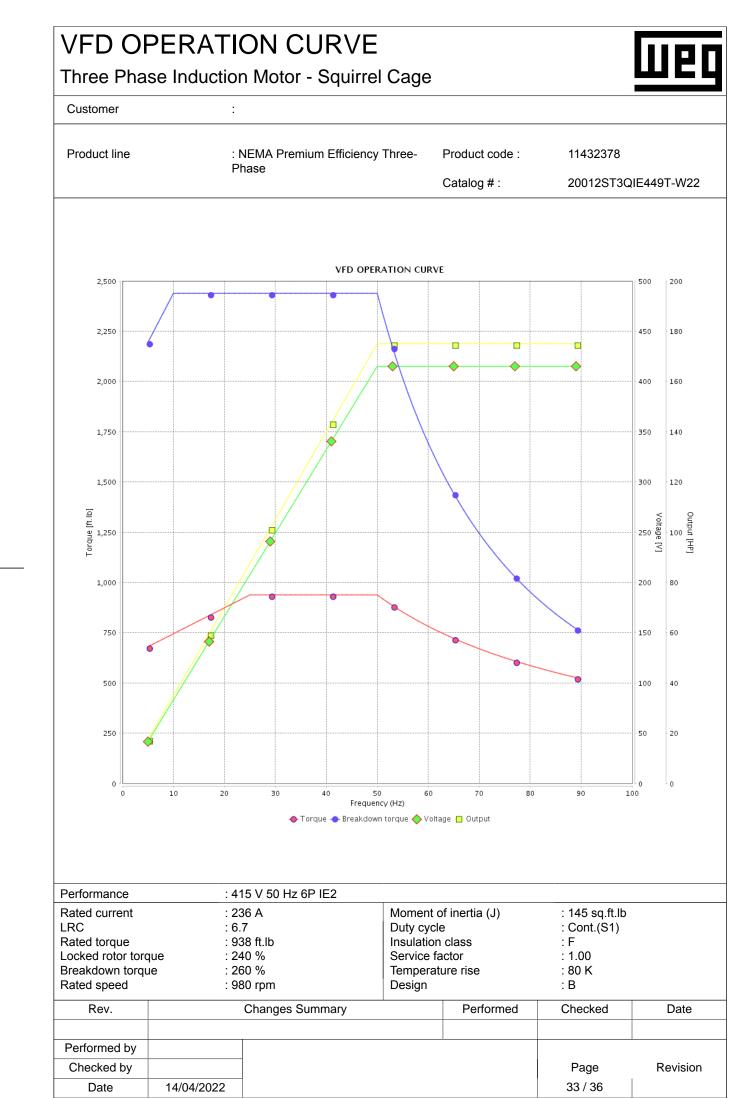
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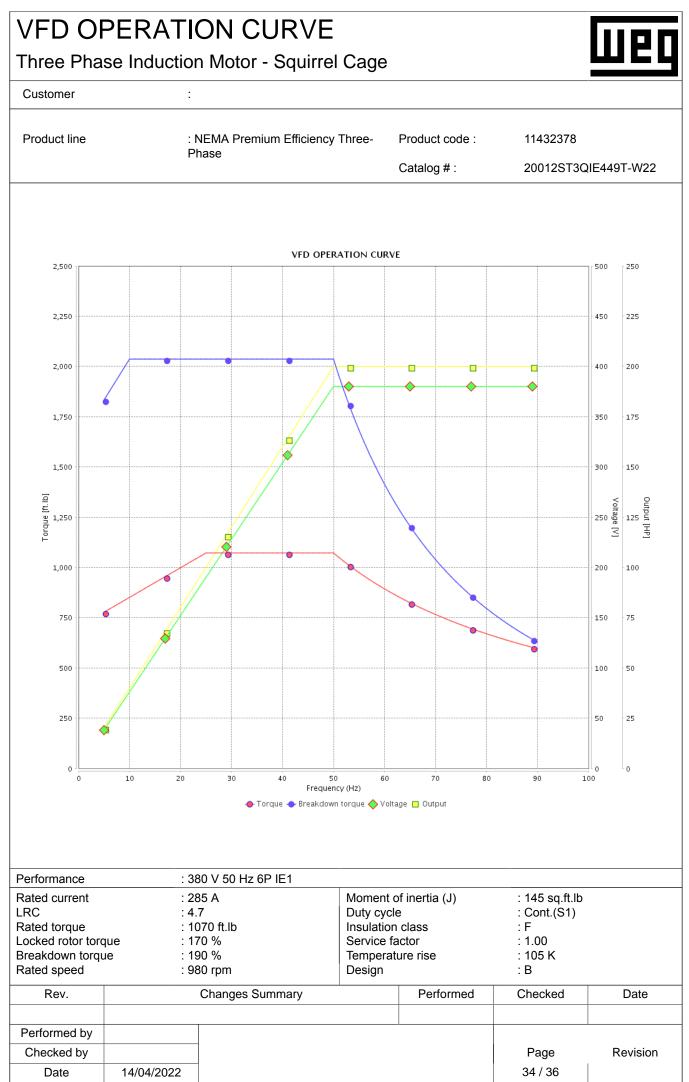


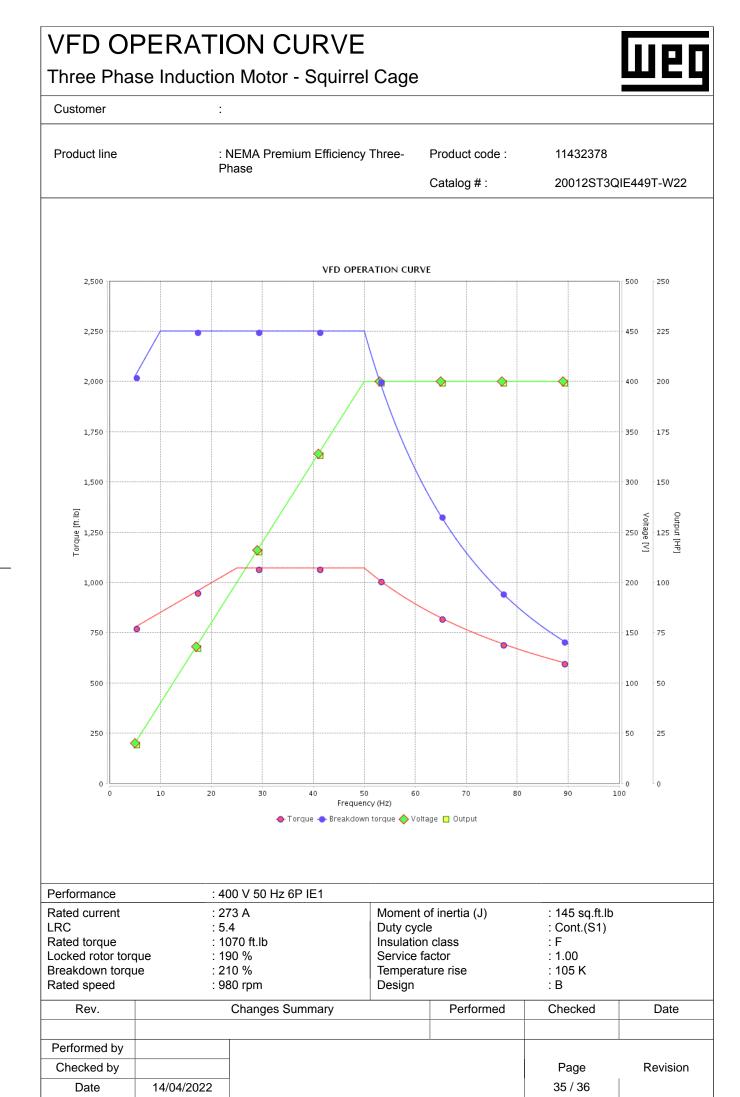


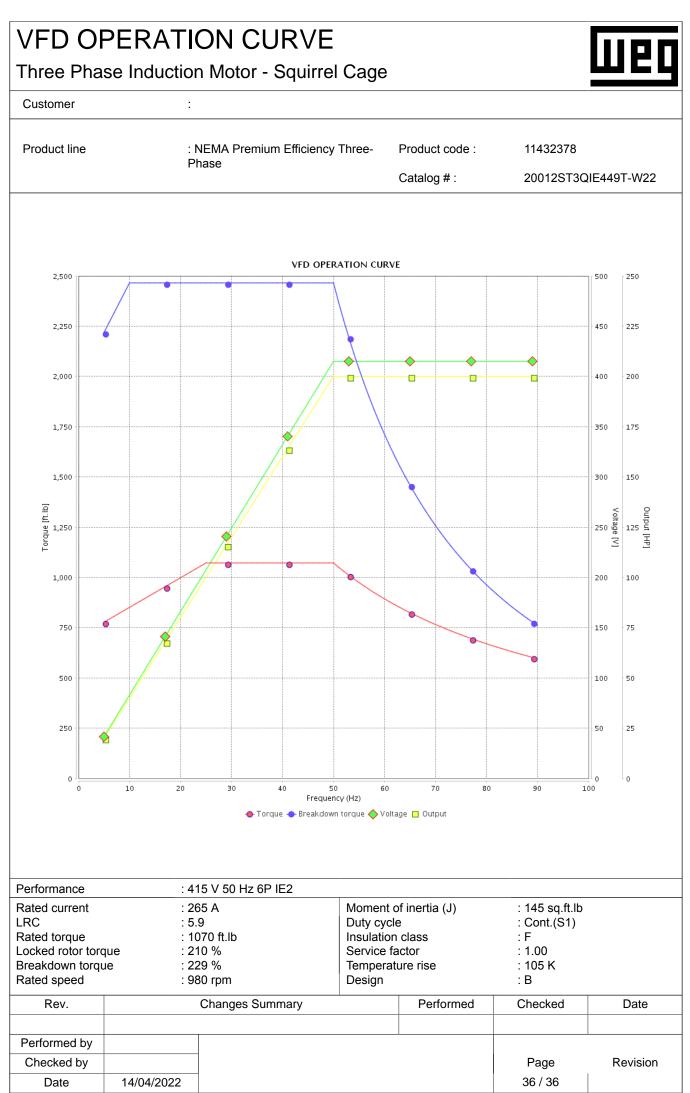


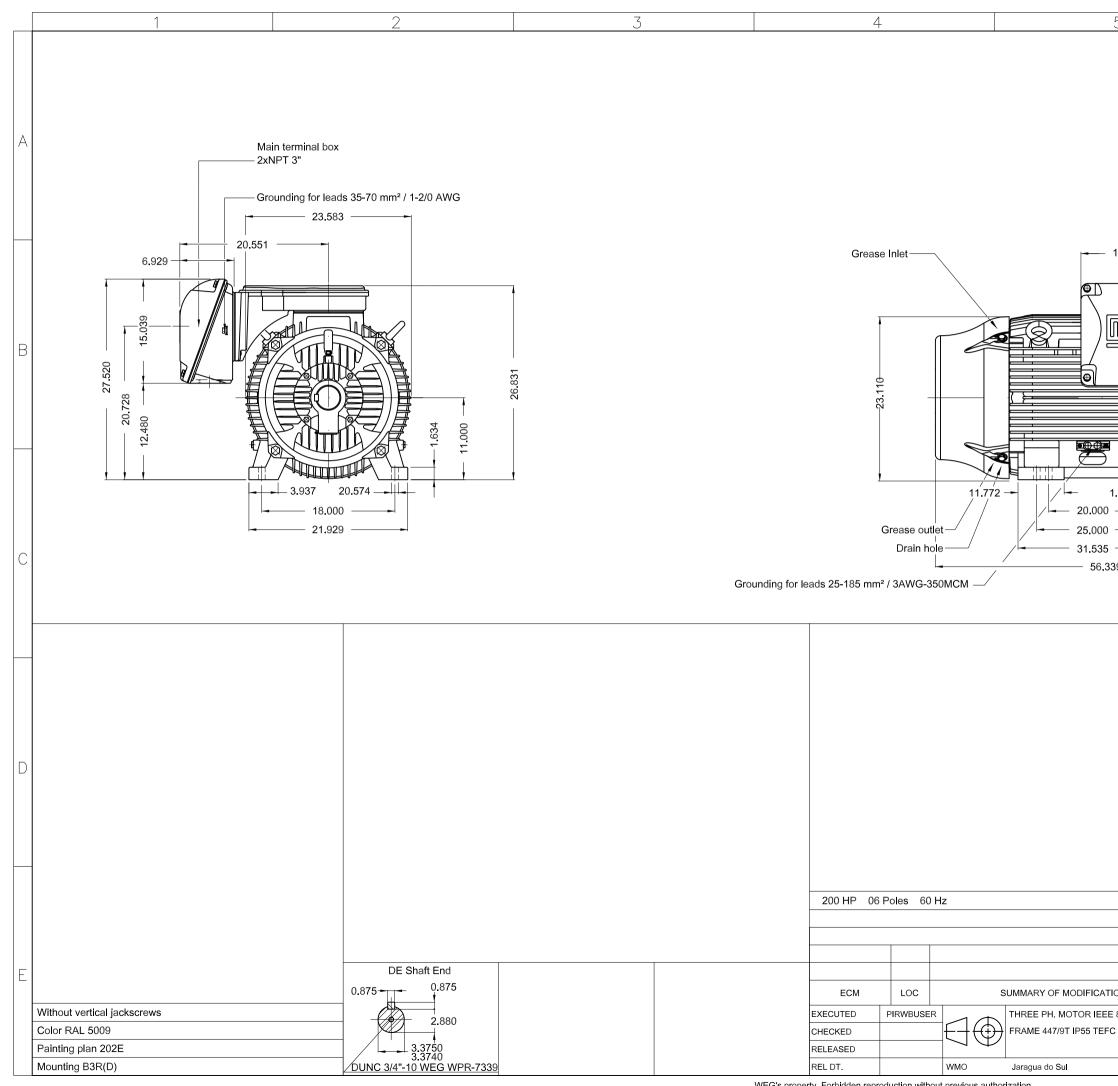












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Product Engineering	WDD SHEET 1 / 1

