DATA SHEET

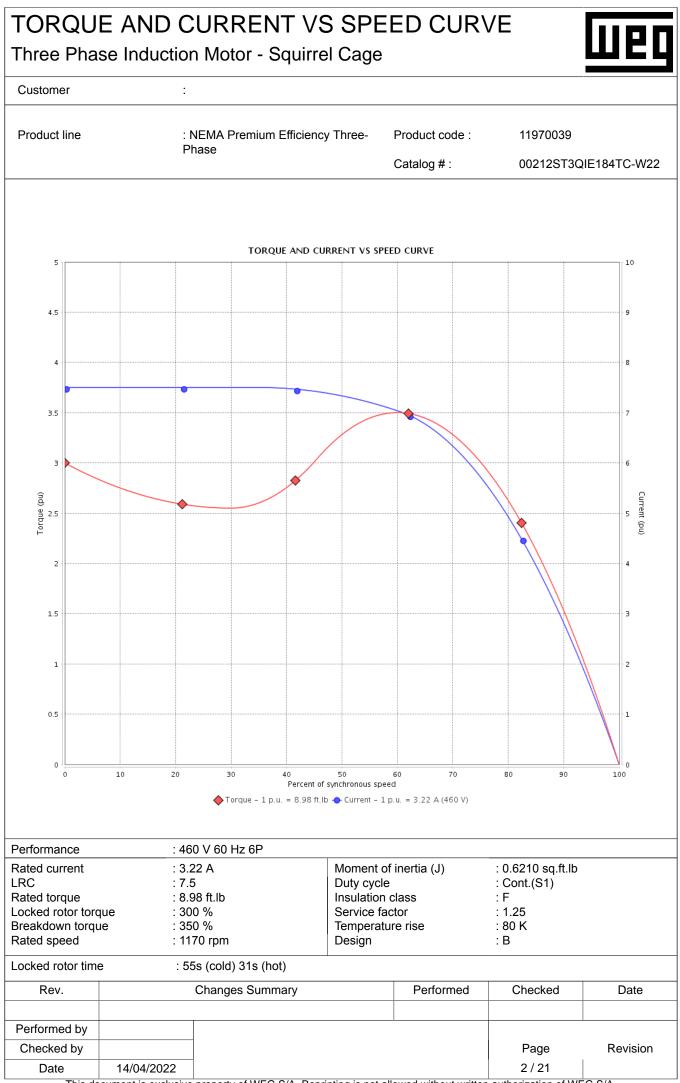
Three Phase Induction Motor - Squirrel Cage

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Customer

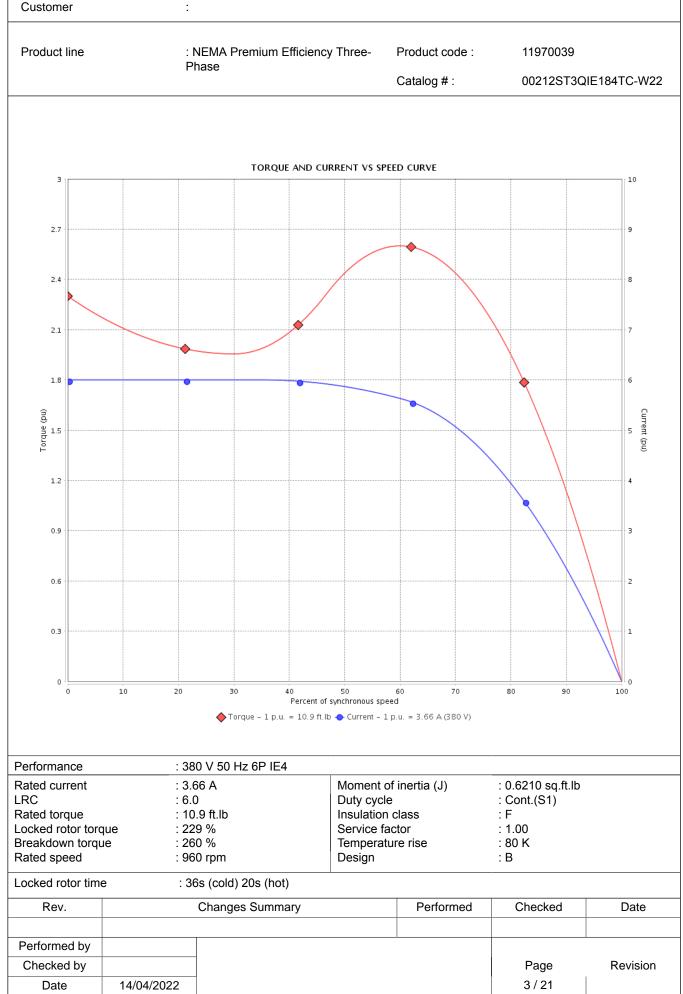
Product line			: NEMA Premium Efficiency Three- Product code : Phase			11970039		
		Fliase	Catalog # :		002125	T3QIE184TC-W22		
Insulation class: FDuty cycle: Cont.(Ambient temperature: -20°CAltitude: 1000 rProtection degree: IP55		: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	: F Mounting : Cont.(S1) Rotation ¹ : -20°C to +40°C Starting n : 1000 m.a.s.l. Approx. w : IP55 Moment c		nting : F-1 tion ¹ : Bot ing method : Dire ox. weight ³ : 112		th (CW and CCW) ect On Line	
Design Output [HP]		2		2		2	2	
Poles		6		6		2 6	6	
Frequency [Hz]		60		50		i0	50	
Rated voltage [V]		460		380		00	415	
Rated current [A]		3.22		3.66		61	3.58	
. R. Amperes [A]		24.2		22.0		1.2	25.4	
_RC [A]		7.5x(Code L)	6 (Dx(Code J)		ode K)	7.1x(Code L)	
No load current [A	1	1.90	0.0	1.90		05	2.15	
Rated speed [RPN		1170		960		65	965	
Slip [%]	1	2.50		4.00		50	3.50	
Rated torque [ft.lb	1	8.98		10.9).9	10.9	
Locked rotor torqu		300		229		30 30	310	
Breakdown torque		350		260		10	340	
Service factor	. [, .]	1.25		1.00		00	1.00	
Temperature rise		80 K		80 K) K	80 K	
Locked rotor time		55s (cold) 31s (hot)	36s (cold) 20s (hot) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²		52.0 dB(A)	49.0 dB(A)			dB(A)	49.0 dB(A)	
	25%	85.4		84.8		4.8	84.2	
	50%	86.5		85.5		5.5	85.0	
Efficiency (%)	75%	87.5		86.0		5.5	86.5	
	100%	88.5		86.5		7.0	87.0	
	25%	0.26		0.31		28	0.26	
	50%	0.20		0.53		49	0.46	
Power Factor	75%	0.58		0.65		62	0.59	
	100%	0.66		0.72		69	0.67	
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type	val	Drive end Non dr : 6207 C3 620 : Inpro/Seal Inpr : 20000 h 20	6207 C3 6206 C3 Inpro/Seal Inpro/Seal 20000 h 20000 h 7 g 5 g		Max. traction : 180 lb			
Notes This revision repl	aces and can	cel the previous one, wl	hich	These are	average values	based on tes	ts with sinusoidal	
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with to weight subjec ocess.	•			•		stipulated in NEMA	
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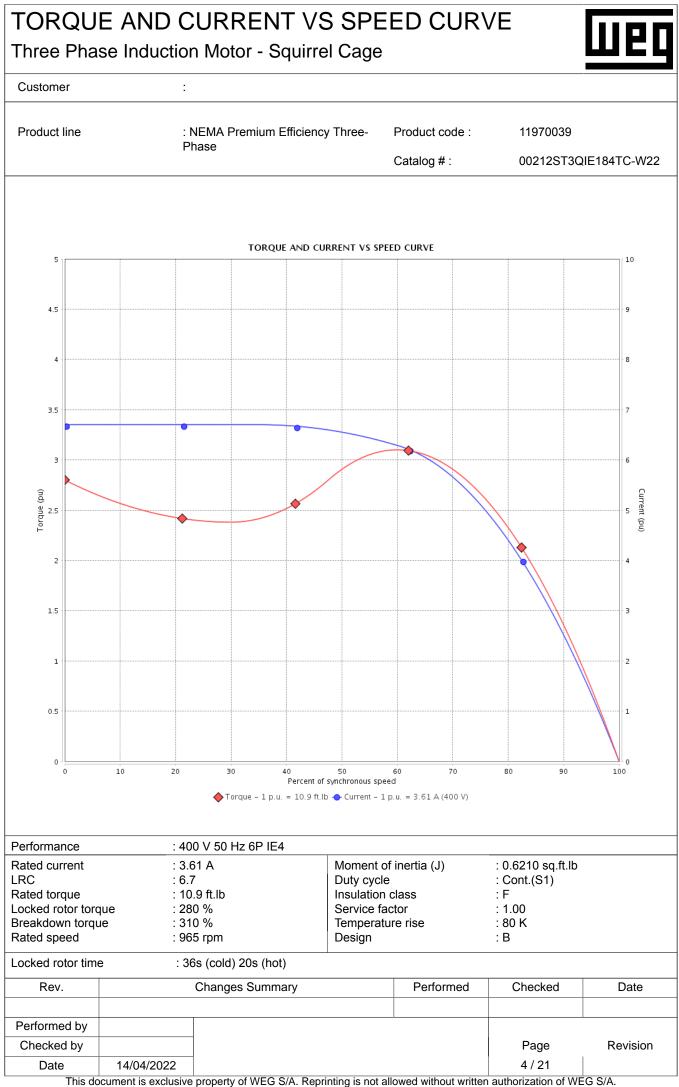
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



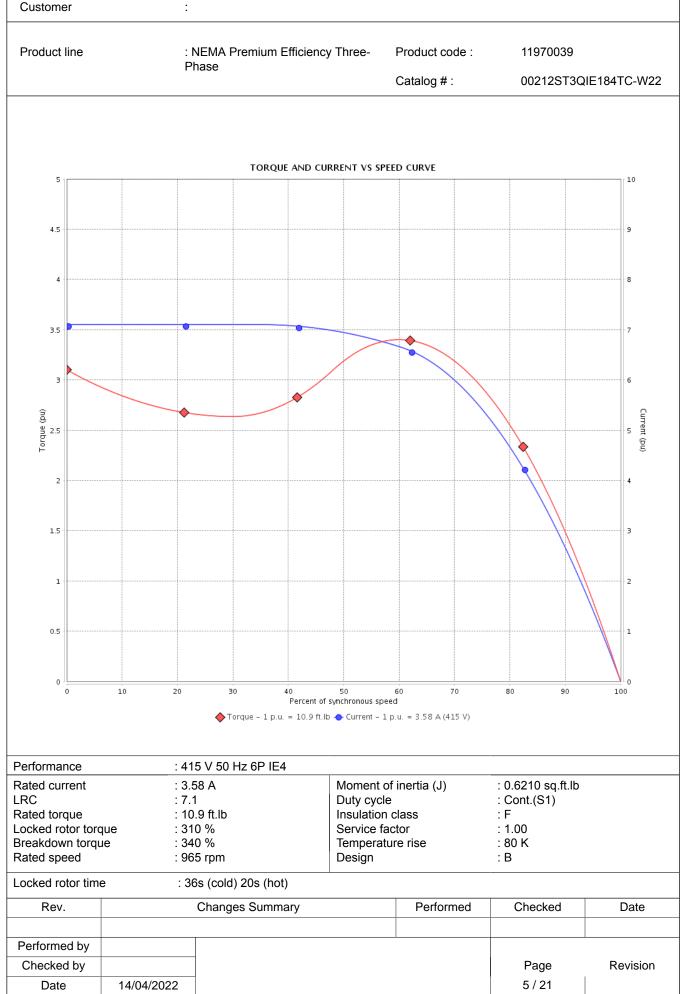
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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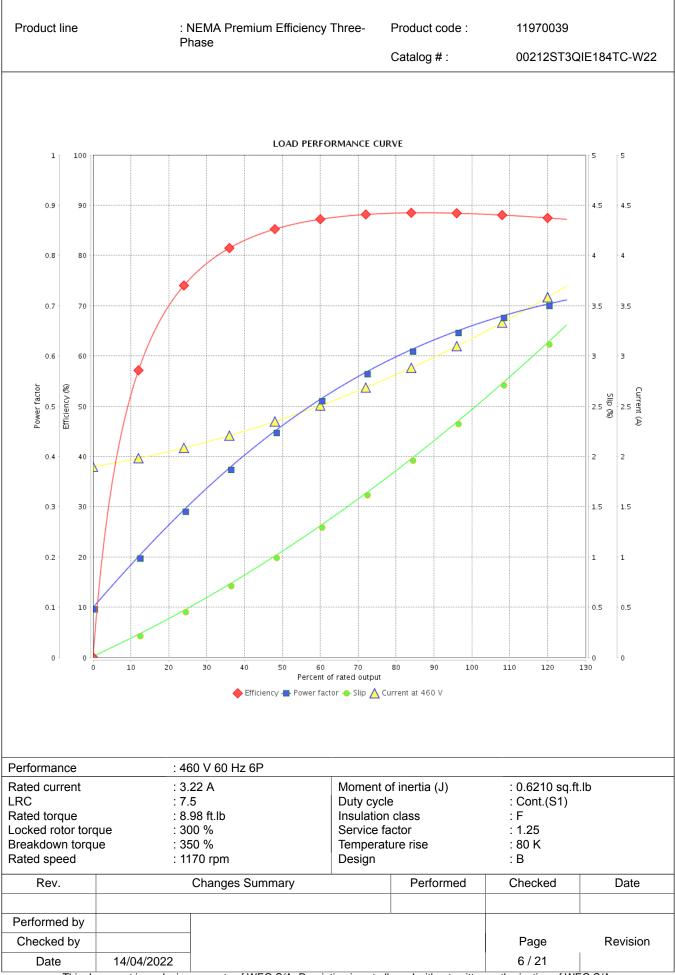
LOAD PERFORMANCE CURVE

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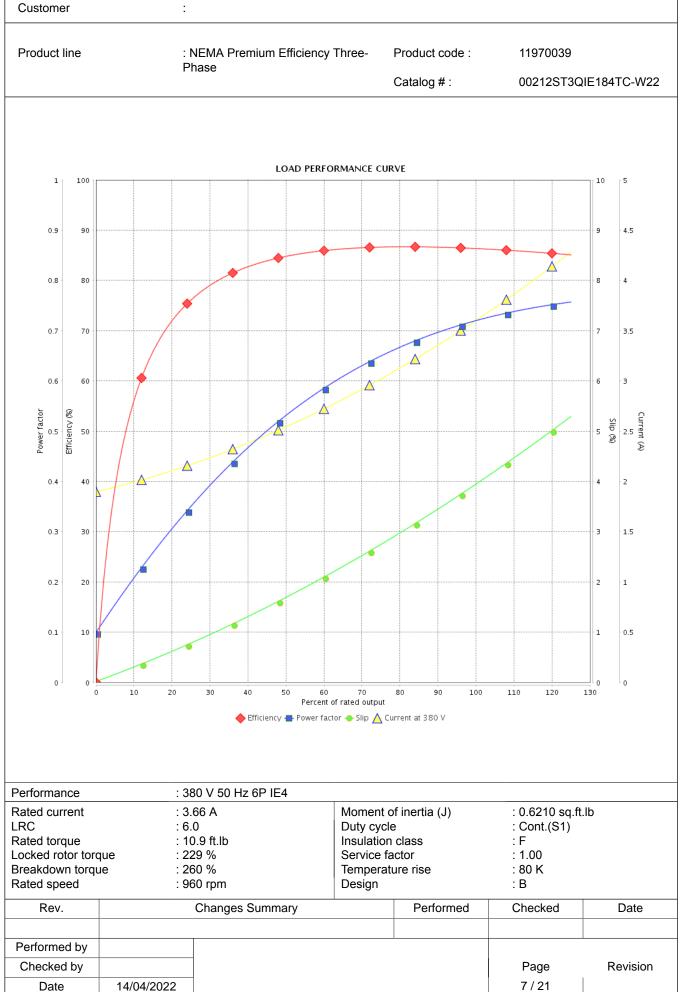
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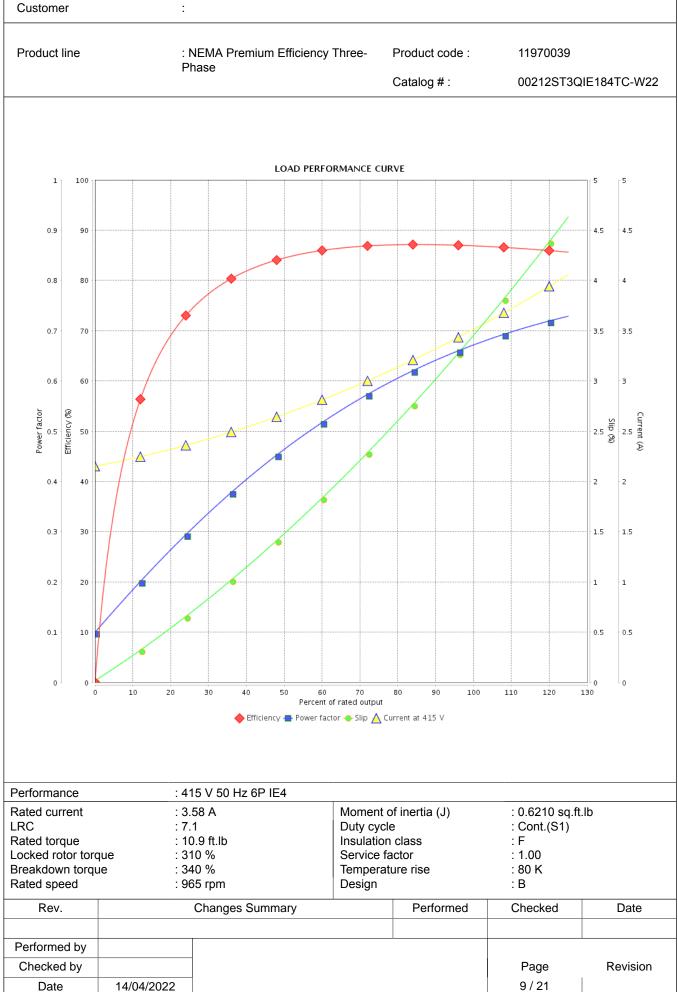
LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 11970039 Phase 00212ST3QIE184TC-W22 Catalog # : LOAD PERFORMANCE CURVE 100 1 5 5 4.5 4.5 0.9 90 0.8 80 4 3.5 3.5 0.7 70 0.6 60 З з Efficiency (%) 2.5 (A) Power factor 2.5 🛞 0.5 50 Δ \triangle Δ 2 0.4 40 2 0.3 30 1.5 1.5 0.2 20 1 1 0.1 10 0.5 0.5 0 0 0 0 ó 10 20 30 100 110 120 130 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 400 V : 400 V 50 Hz 6P IF4 Performance

renormance	. +					
LRC: 6Rated torque: 1Locked rotor torque: 2Breakdown torque: 3		61 A .7 0.9 ft.lb 80 % 10 % 65 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6210 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	.lb
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Three Phase Induction Motor - Squirrel Cage

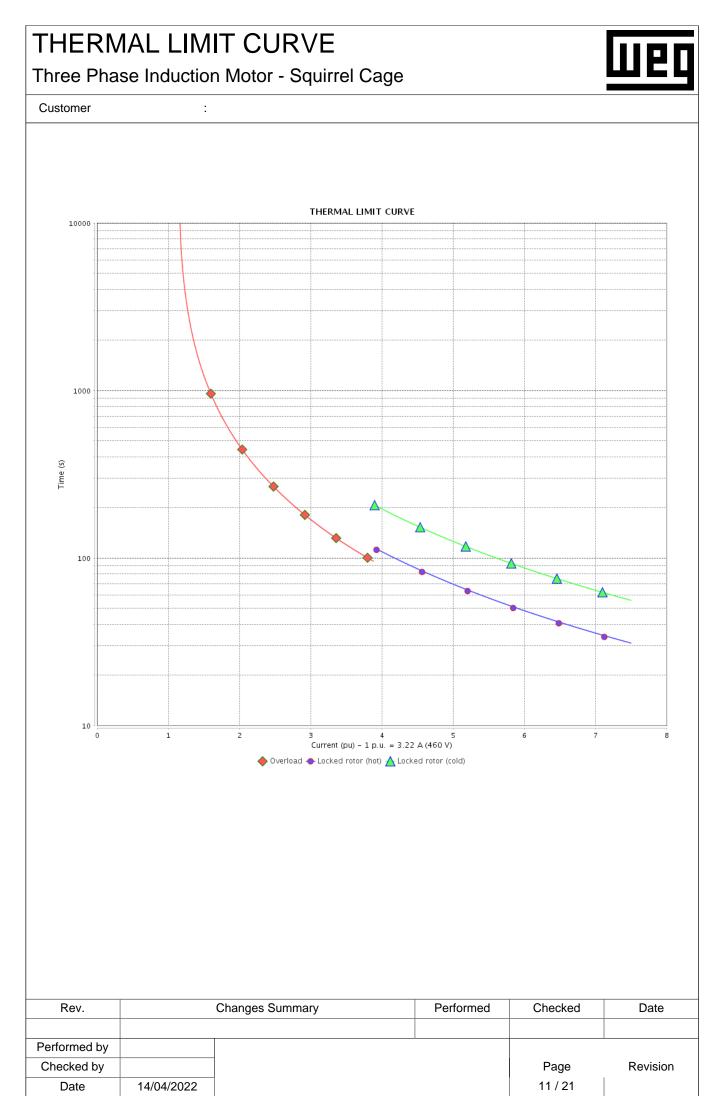
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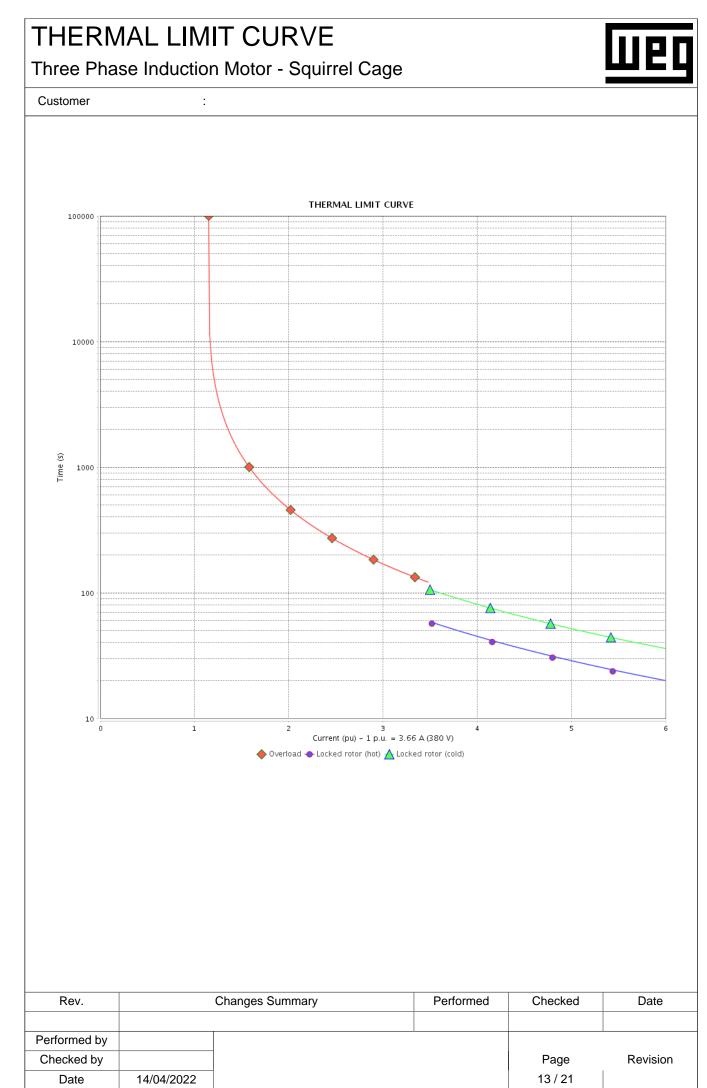
THERMAL LI Three Phase Induc	MIT CURVE tion Motor - Squirrel	Cage		Шер
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product Catalog		11970039 00212ST3QIE184TC-W22
Performance	: 460 V 60 Hz 6P		())	0.0040 5 1
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 7.5 : 8.98 ft.lb : 300 % : 350 % : 1170 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design		: 0.6210 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Heating constant		-		

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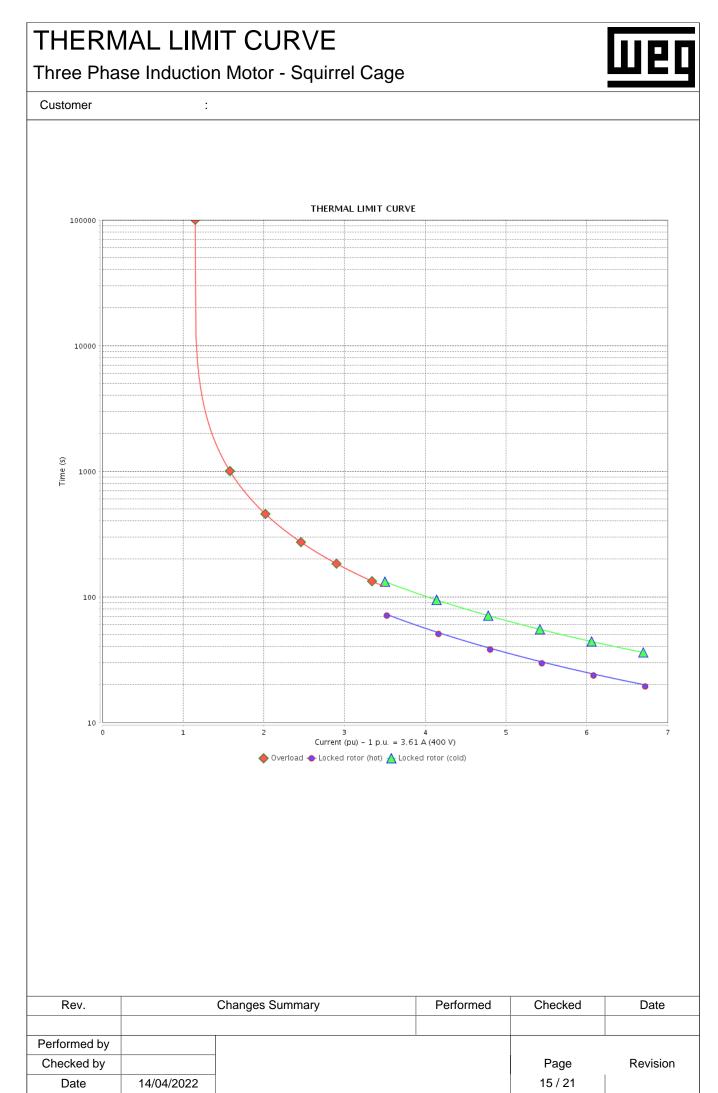
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Product line	· : NEMA Prem Phase	·	Product code : Catalog # :	11970039 00212ST3C	NE184TC-W22			
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed			class ctor	: 0.6210 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb			
Heating constant Cooling constant								
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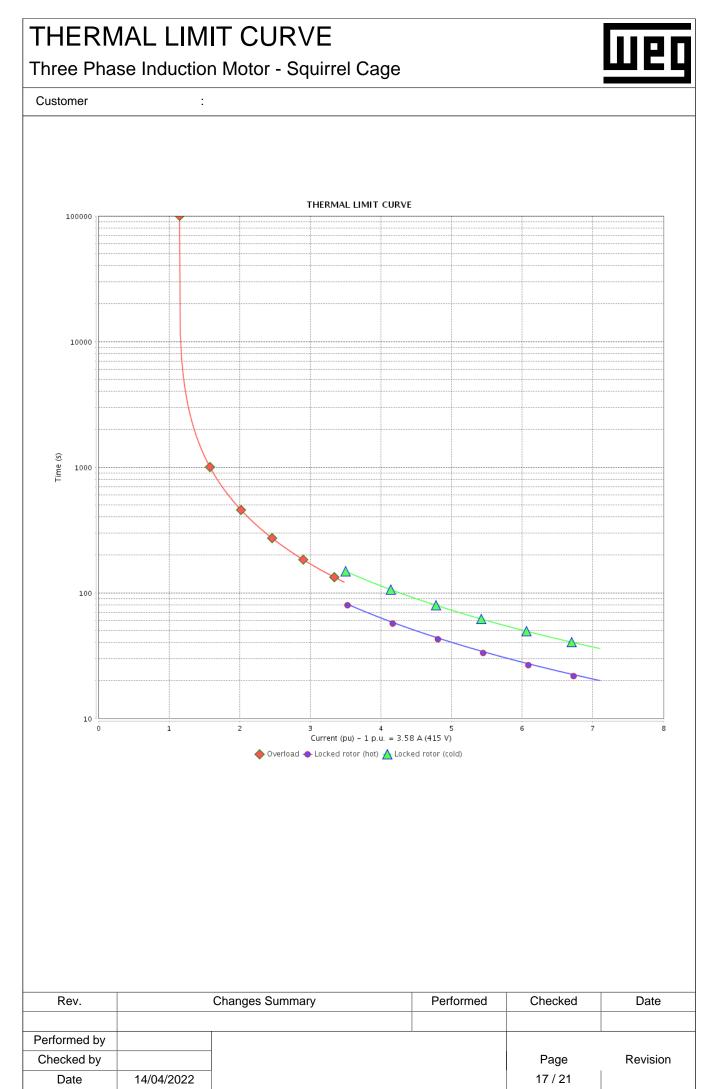
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer		:						
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11970039 00212ST3C	NE184TC-W22		
Performance Rated current		400 V 50 Hz 6P IE4 3.61 A	Moment o	of inertia (J)	: 0.6210 sq.ft	.lb		
LRC Rated torque		6.7 10.9 ft.lb	Duty cycle Insulation	e	: Cont.(S1)			
Locked rotor torg	jue :	280 %	Service fa	actor	: 1.00	: F : 1.00		
Breakdown torqu Rated speed		310 % 965 rpm	Temperat Design	ure rise	: 80 K : B			
Heating constant		•	- 0					
Cooling constant	: 	Changes Summers		Performed	Checked	Data		
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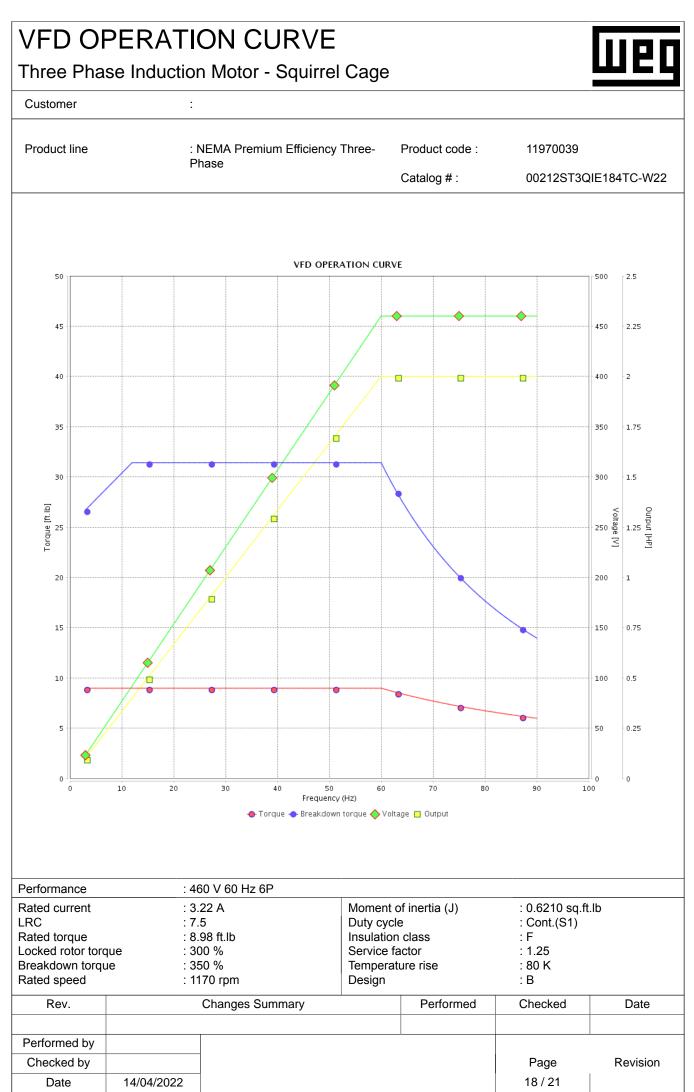
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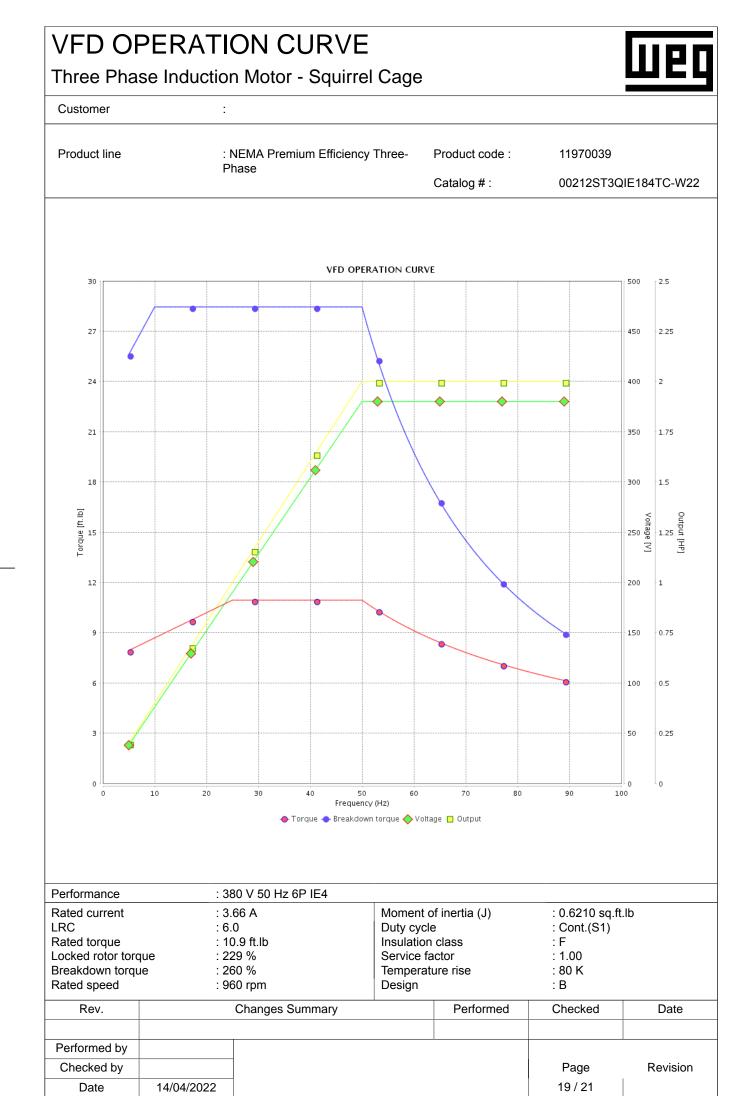


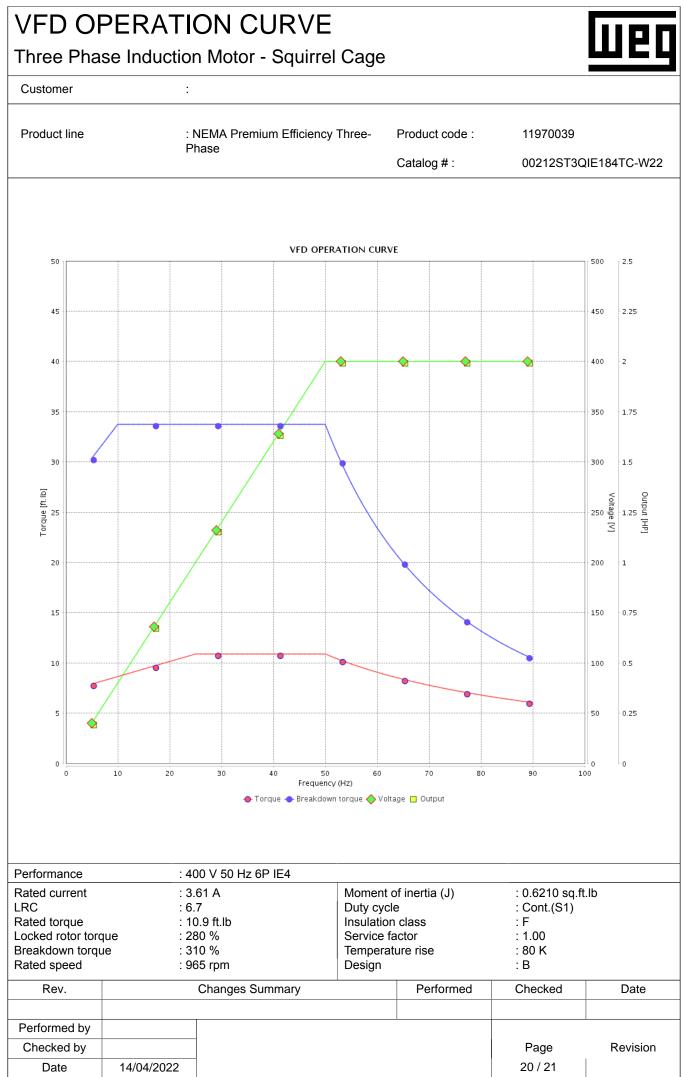
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		:					
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11970039 00212ST3C	IE184TC-W22	
Performance		: 415 V 50 Hz 6P IE4					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu		: 3.58 A : 7.1 : 10.9 ft.lb : 310 % : 340 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 0.6210 sq.ft : Cont.(S1) : F : 1.00 : 80 K	.lb	
Rated speed Heating constant		: 965 rpm	Design		: B		
Cooling constant							
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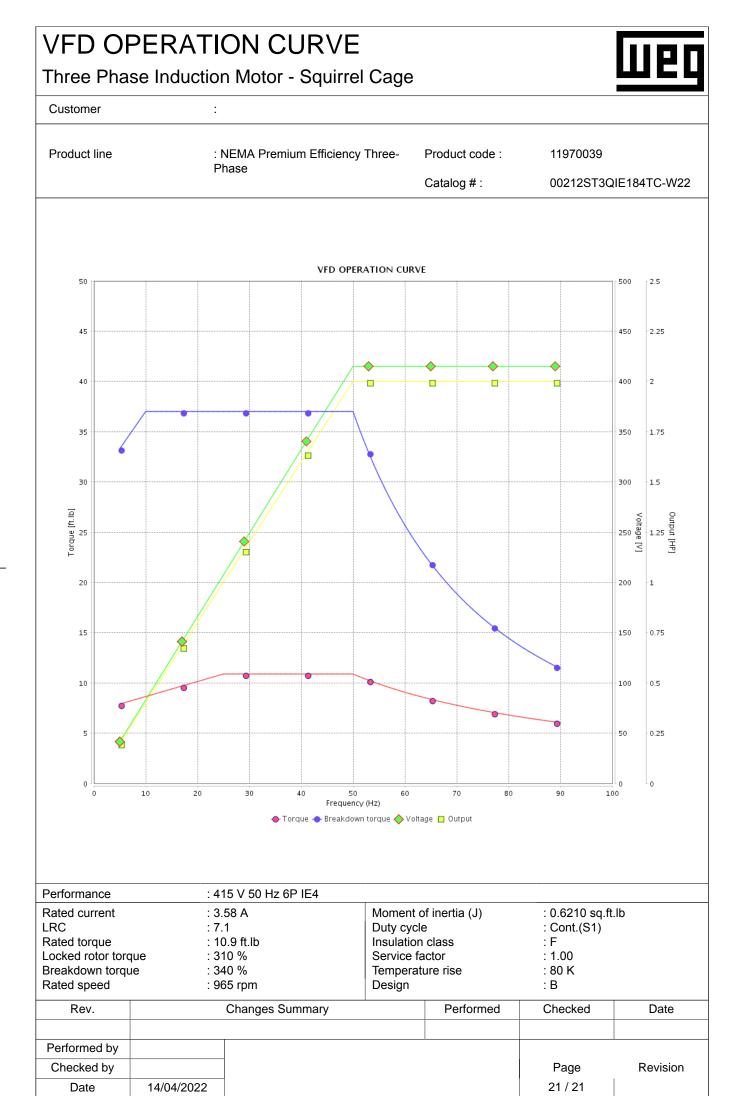
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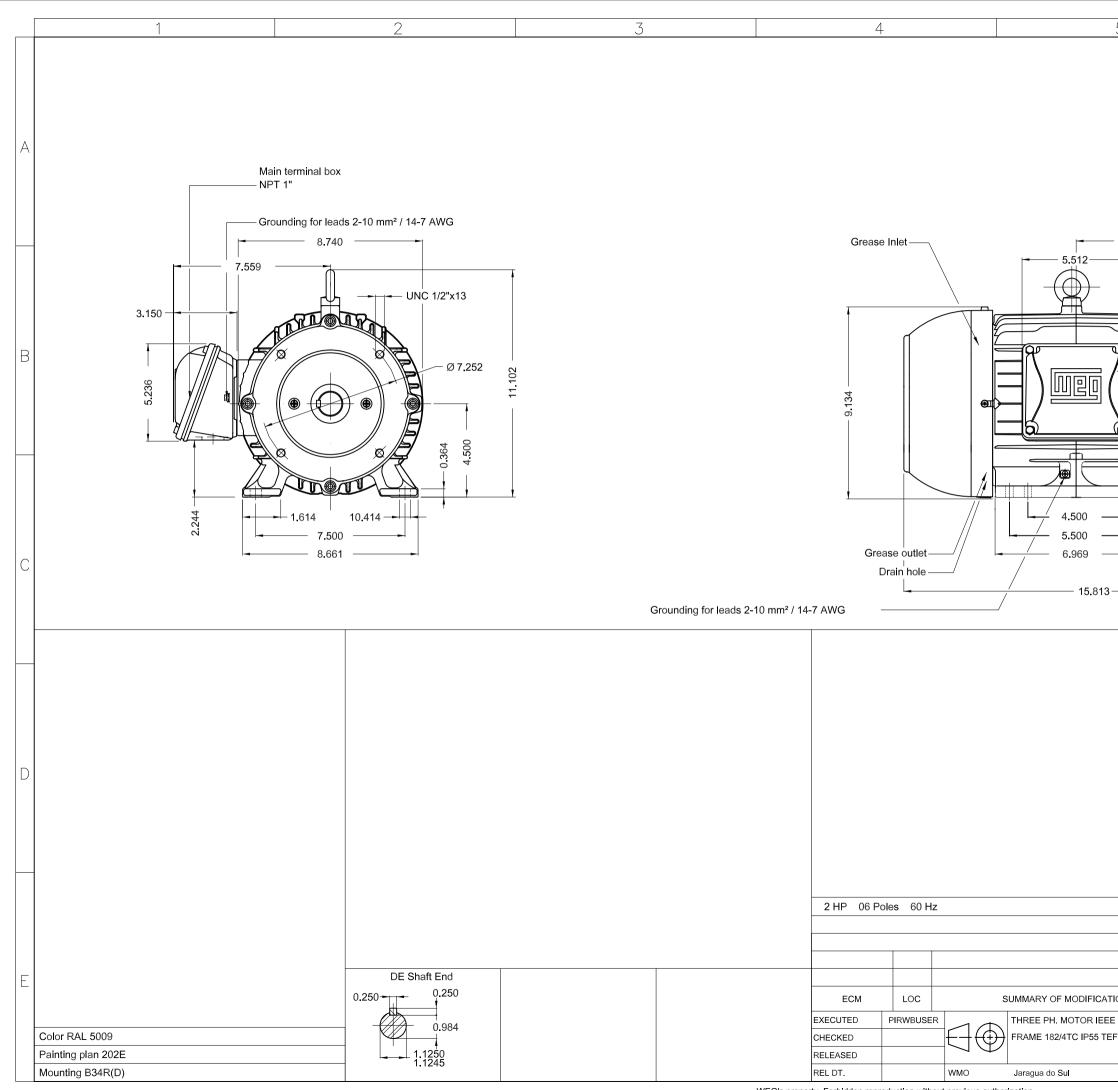












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