DATA SHEET

Three Phase Induction Motor - Squirrel Cage

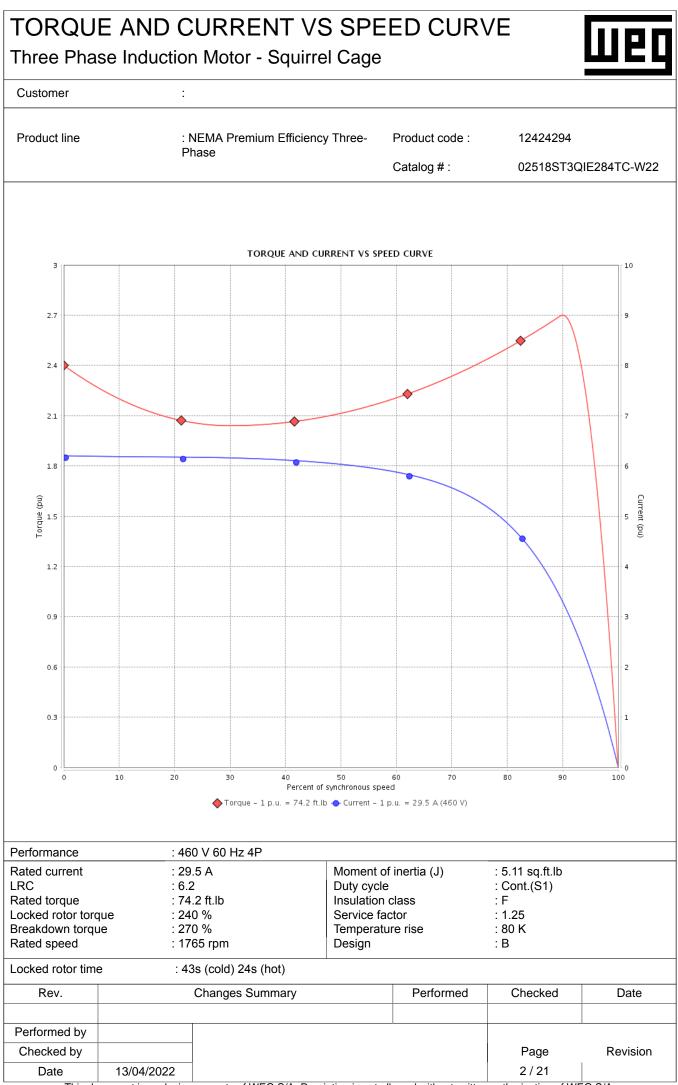
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Customer

Product line		: NEMA Premium Efficiency Three-			Product code :		12424294	
		Phase		Ca	atalog # :	025185	T3QIE284TC-W22	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284/6TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 449 lb : 5.11 sq.ft.lb		
Output [HP]		25		25		5	25	
Poles		4		25 4		4	4	
Frequency [Hz]		60		50		0	50	
Rated voltage [V]		460		380		00	415	
Rated current [A]		29.5				4.0	33.2	
. R. Amperes [A]		183		174		B7	196	
.RC [A]		6.2x(Code G)	4 0	9x(Code F)		code F)	5.9x(Code G)	
No load current [A]	1	10.5		10.4		1.1	11.6	
Rated speed [RPN		1765		1445		.55	1460	
Slip [%]	1	1.94		3.67		00	2.67	
Rated torque [ft.lb]	1	74.2		90.2		9.9	89.6	
Locked rotor torque		240		180		10	229	
Breakdown torque		240		210		40	260	
Service factor	L/~J	1.25		1.00		00	1.00	
Temperature rise		80 K				5 K	80 K	
Locked rotor time		43s (cold) 24s (hot)	325 (0	cold) 18s (hc) 18s (hot)	32s (cold) 18s (hot)	
Noise level ²		63.0 dB(A)		1.0 dB(A)		dB(A)	61.0 dB(A)	
	25%	91.7		92.2		2.2	92.2	
	50%	92.4		92.4		2.4	92.4	
Efficiency (%)	75%	93.0		91.7		2.4	92.4	
	100%	93.6	91.7			2.4	92.4	
	25%	0.46				49	0.46	
	50%	0.70		0.53		73	0.70	
Power Factor	75%	0.80		0.84		82	0.80	
	100%	0.84	0.86			85	0.84	
Bearing type Sealing Lubrication interval Lubricant amount		: 6311 C3 62 : Inpro/Seal Inpr : 20000 h 20 : 18 g	6311 C3 6211 C3 Ma Inpro/Seal Inpro/Seal Ma 20000 h 20000 h 20000 h		Foundation loads Max. traction : 795 lb Max. compression : 1244 lb			
Lubricant type Notes				<u> </u>				
must be eliminate (1) Looking the m	ed. otor from the m and with t veight subjec ocess.	olerance of +3dB(A).	hich				ts with sinusoidal stipulated in NEMA	
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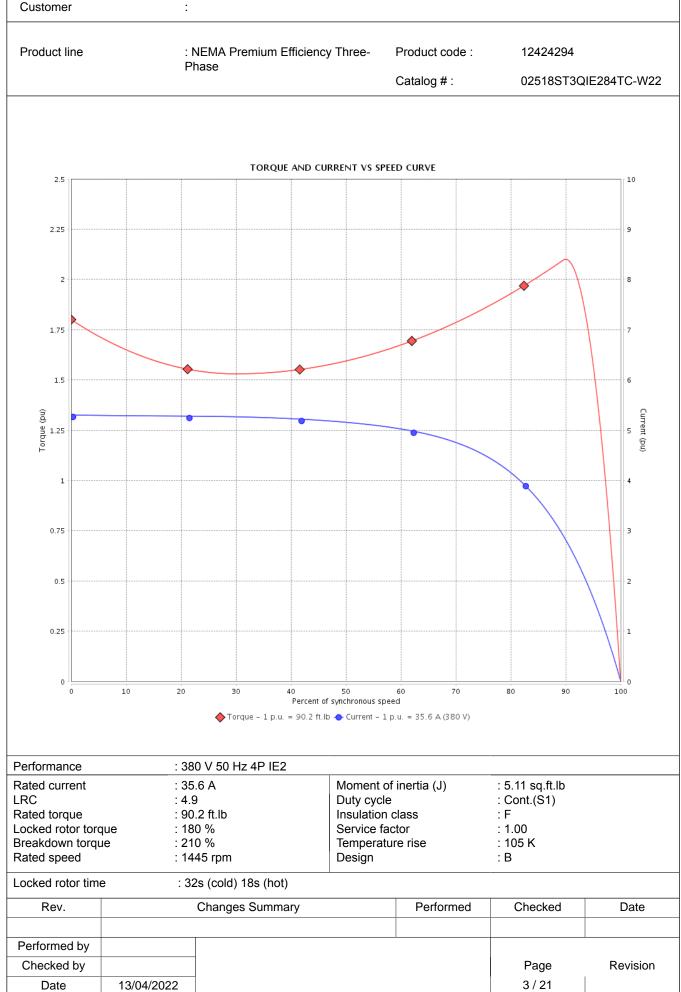


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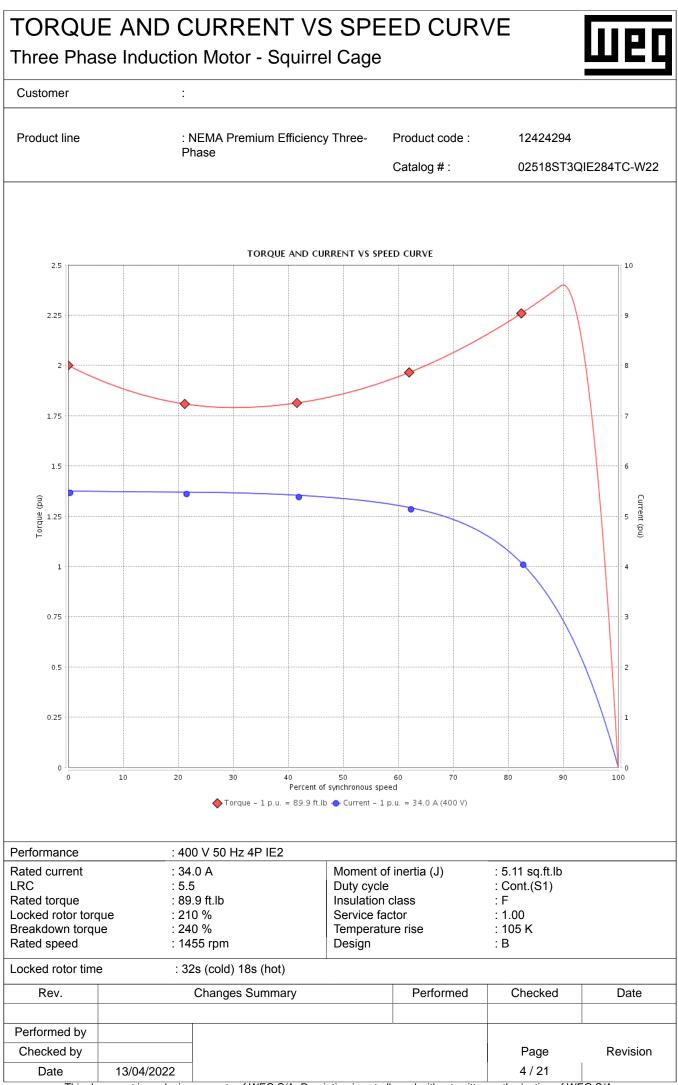
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



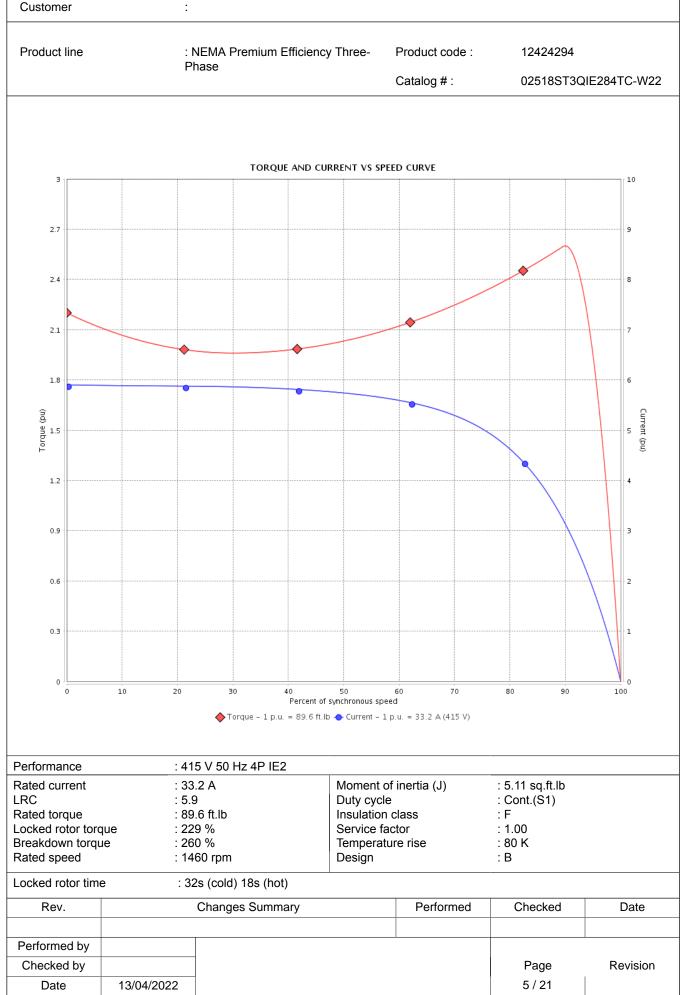
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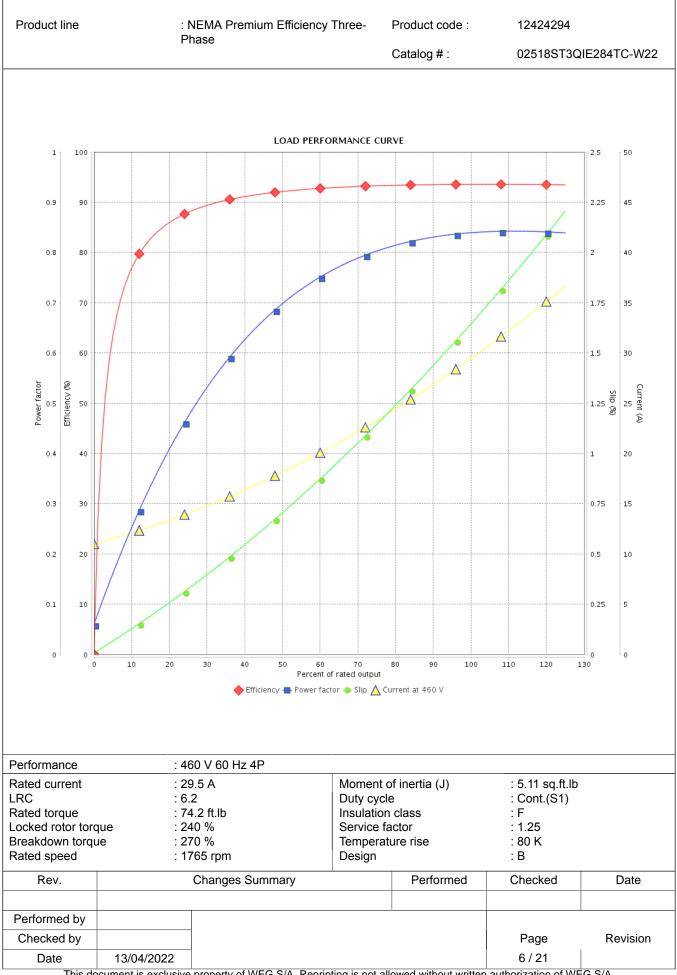
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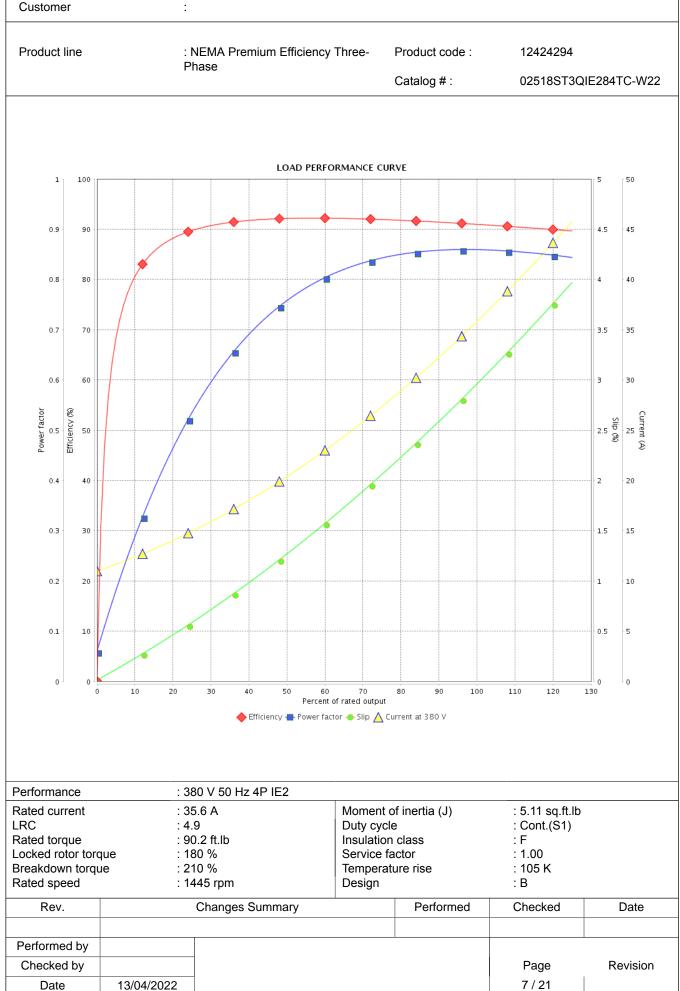


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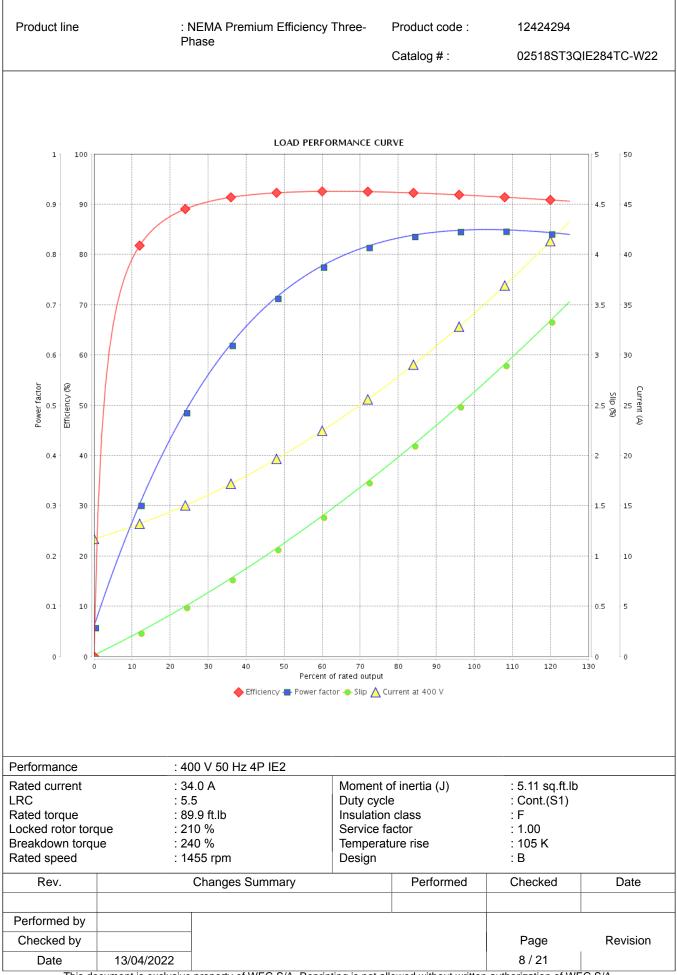
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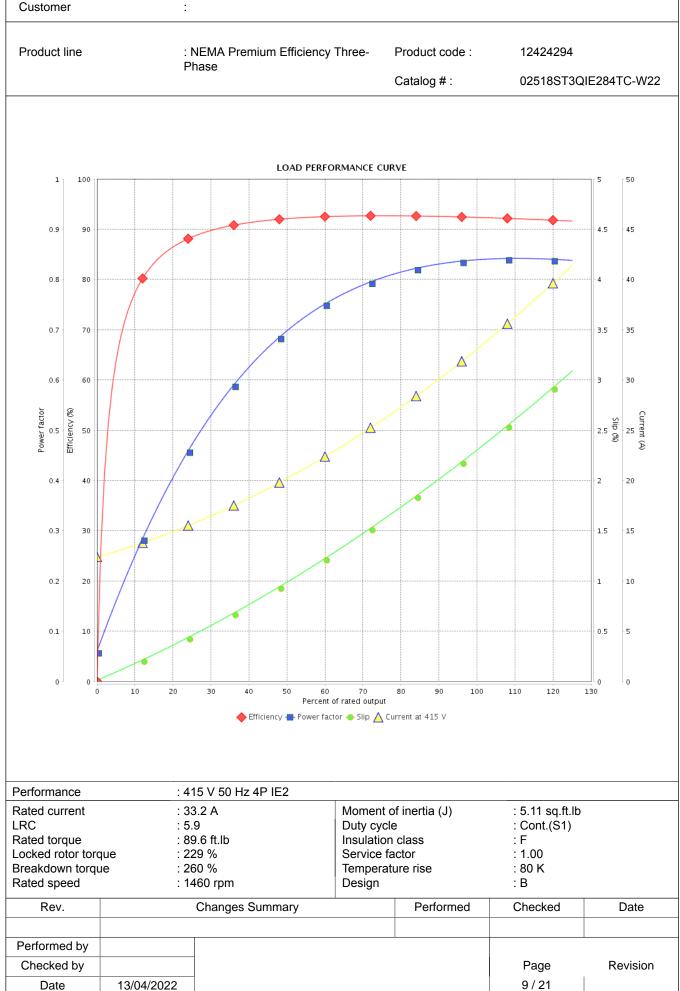


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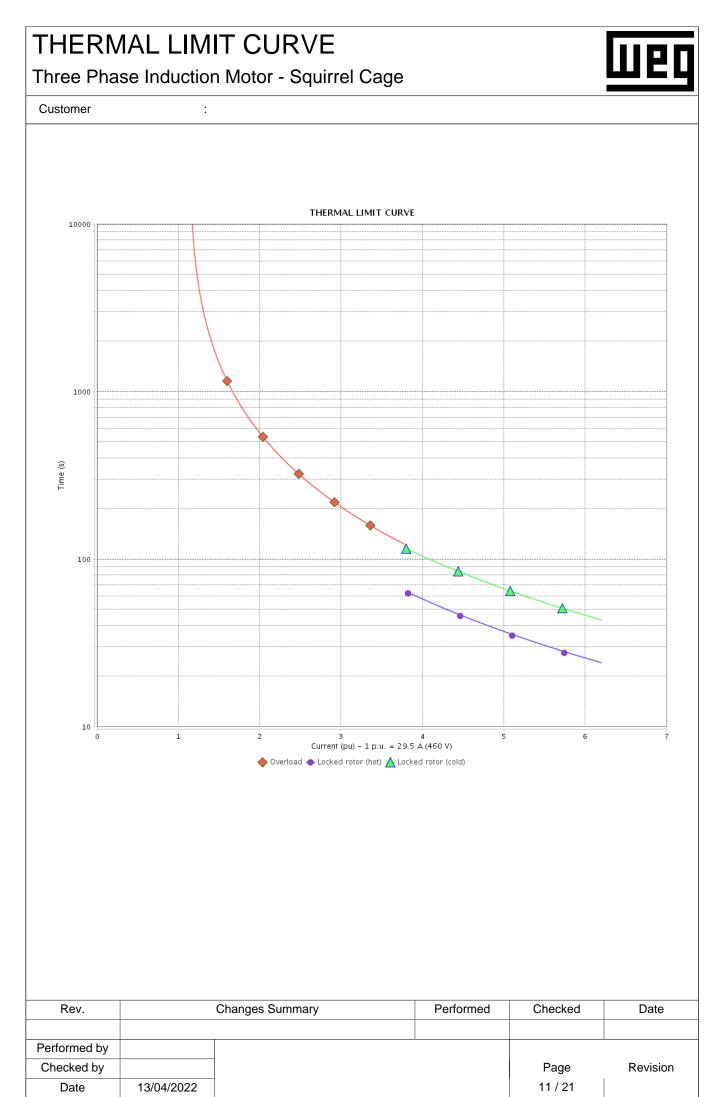
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THERMAL LIMIT CURVE							
Three Pha	se Inductio	n Motor - Squirrel	Cage				
Customer	:						
Product line		: NEMA Premium Efficiency T Phase		Product code :	12424294		
				Catalog # :	02518ST3QI	E284TC-W22	
Performance	: 4	60 V 60 Hz 4P					
Rated current: 29.5 ALRC: 6.2Rated torque: 74.2 ft.Locked rotor torque: 240 %Breakdown torque: 270 %		9.5 A .2 4.2 ft.lb 40 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Heating constant							
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date	
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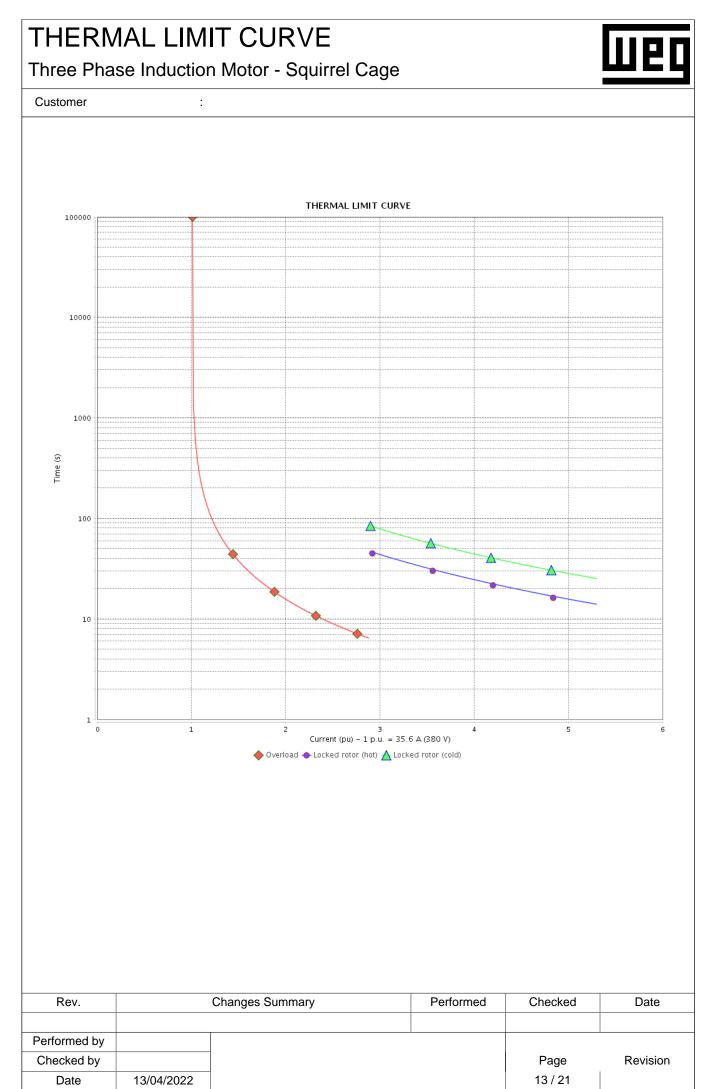


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Three Pha	se Inductio	n Motor - Squirrel	Cage				
Customer	:						
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	12424294		
				Catalog # :	02518ST3QI	E284TC-W22	
D. (
Performance Rated current		80 V 50 Hz 4P IE2 5.6 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb		
LRC: 33.0 ALRC: 4.9Rated torque: 90.2 ft.lbLocked rotor torque: 180 %Breakdown torque: 210 %Rated speed: 1445 rpm		Duty cycle Insulation Service fa Temperate Design	e class ictor	: Cont.(S1) : F : 1.00 : 105 K : B			
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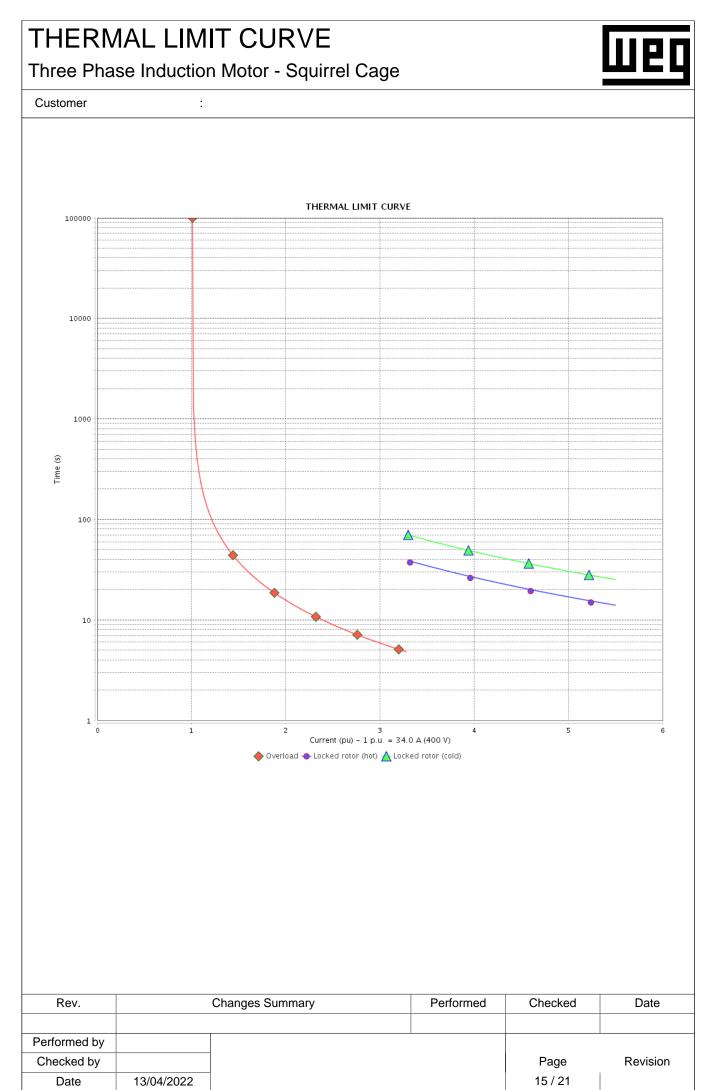


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц	
Customer	:						
Product line		NEMA Premium Efficiency T hase		Product code : Catalog # :	12424294 02518ST3QI	E284TC-W22	
Performance	· 4	00 V 50 Hz 4P IE2					
Rated current	: 3	4.0 A	Moment of inertia (J)		: 5.11 sq.ft.lb		
LRC: 5.5Rated torque: 89.9 ft.Locked rotor torque: 210 %Breakdown torque: 240 %		9.9 ft.lb 10 %	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant	t						
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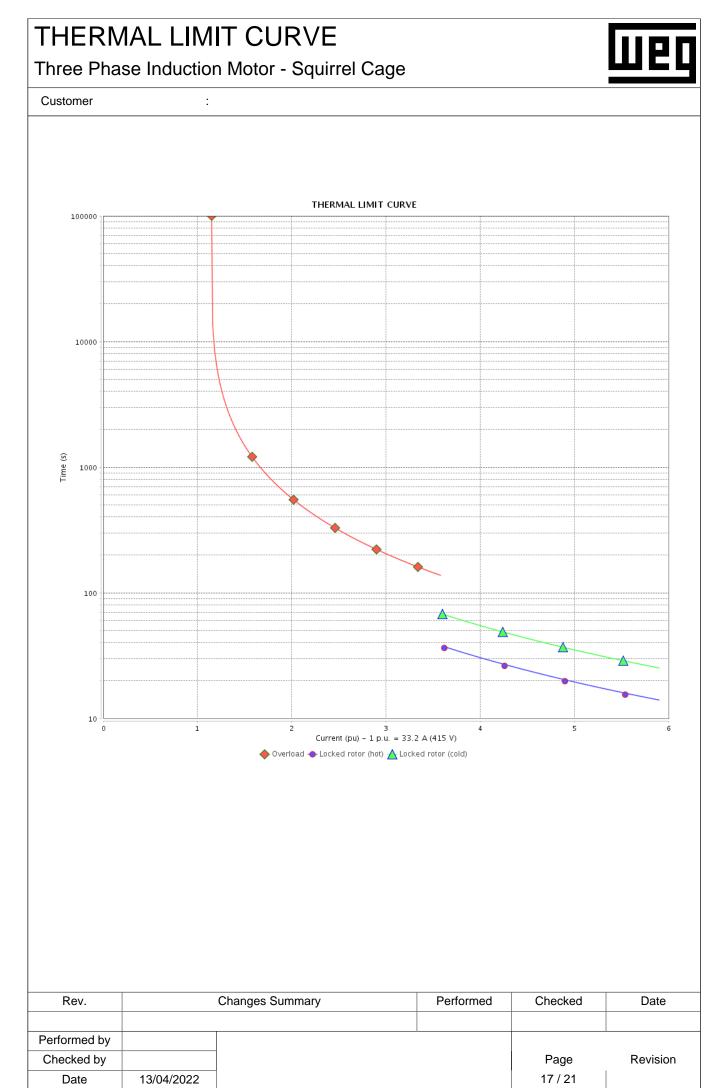


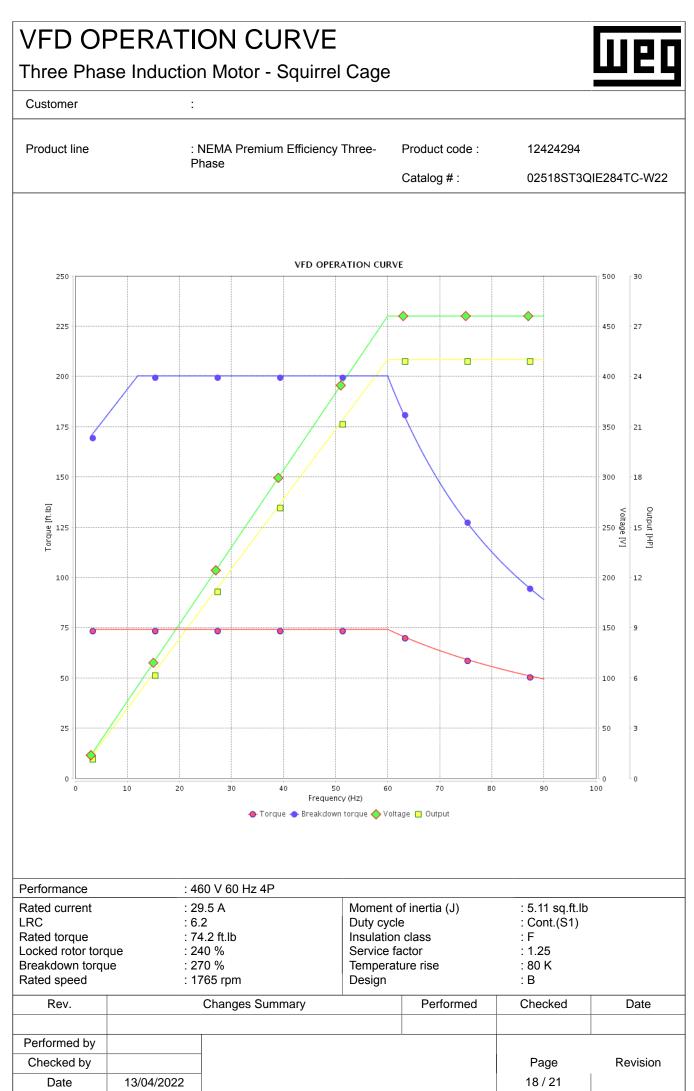
THERMAL LIMIT CURVE							
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц	
Customer	:						
Product line		: NEMA Premium Efficiency T Phase		Product code :	12424294		
				Catalog # :	02518ST3QI	E284TC-W22	
Performance	: 4	15 V 50 Hz 4P IE2					
Rated current: 33LRC: 5.1Rated torque: 89Locked rotor torque: 22Breakdown torque: 26		3.2 A	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
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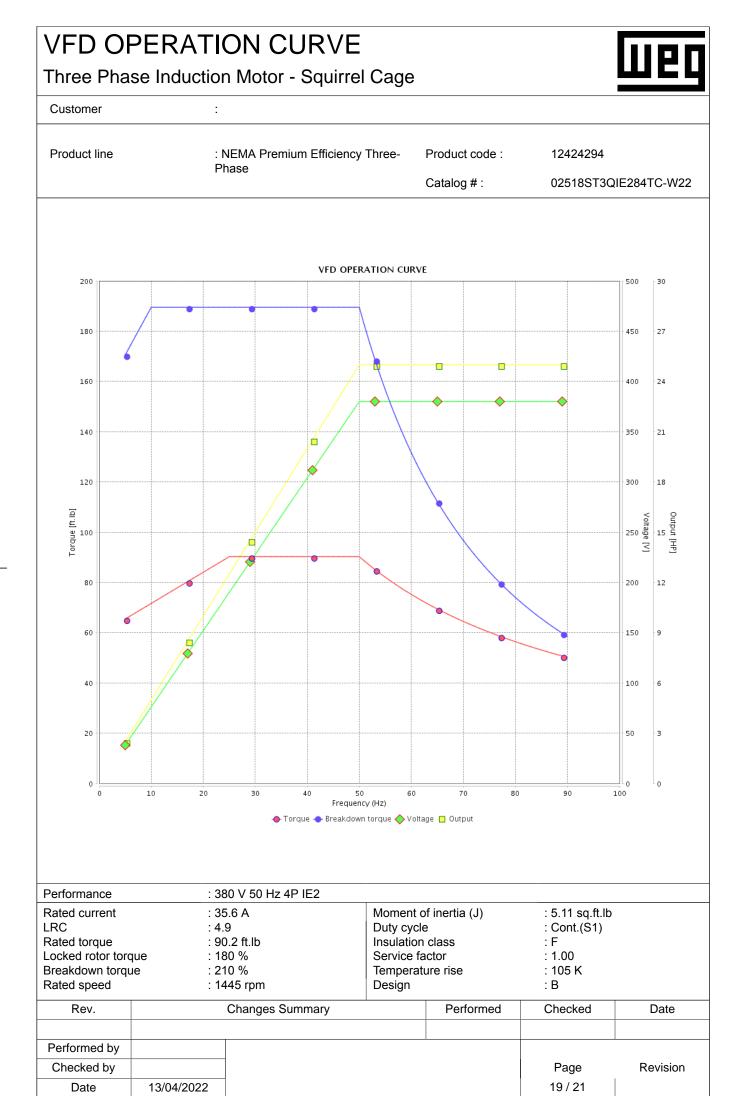
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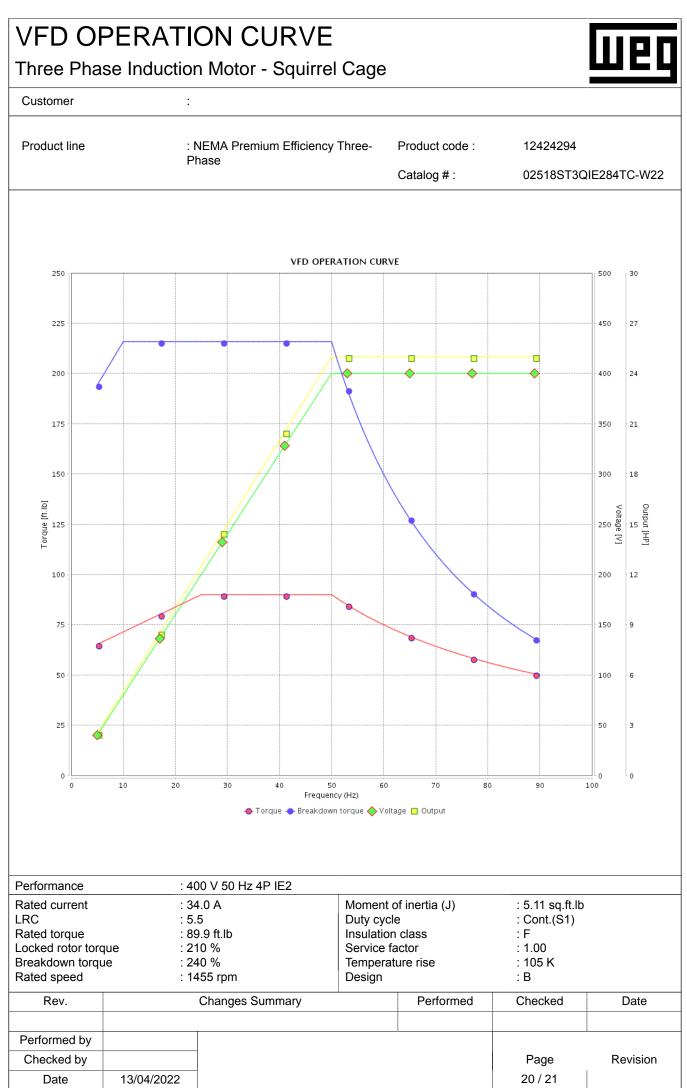




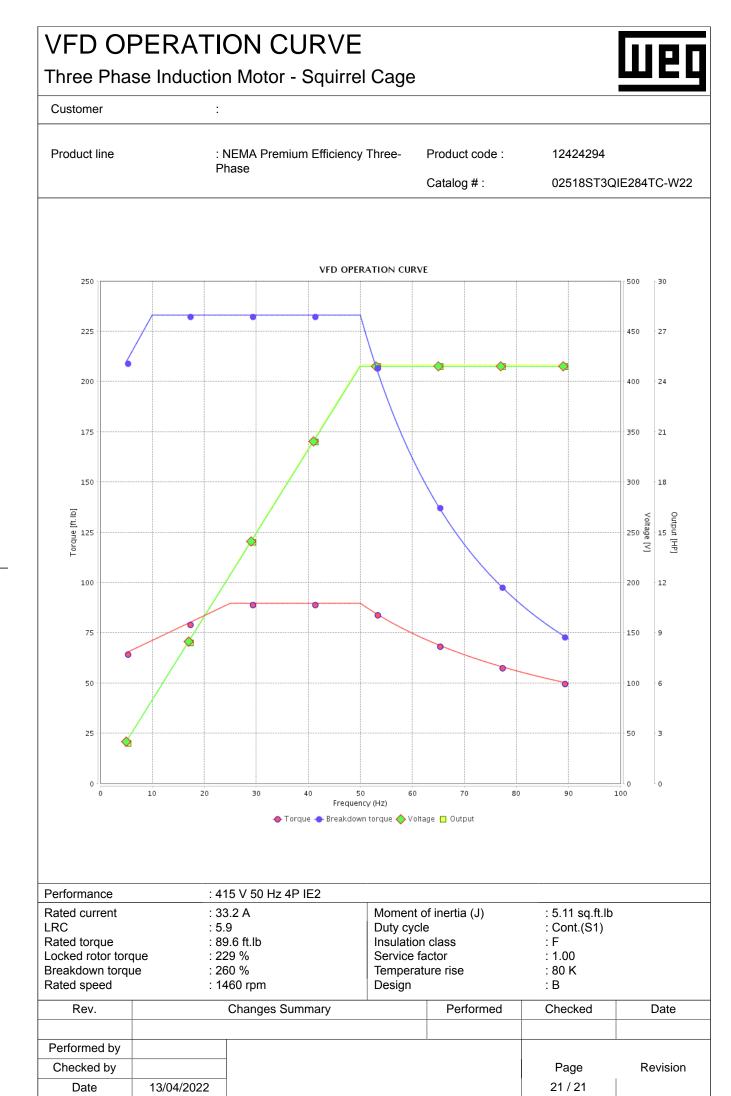
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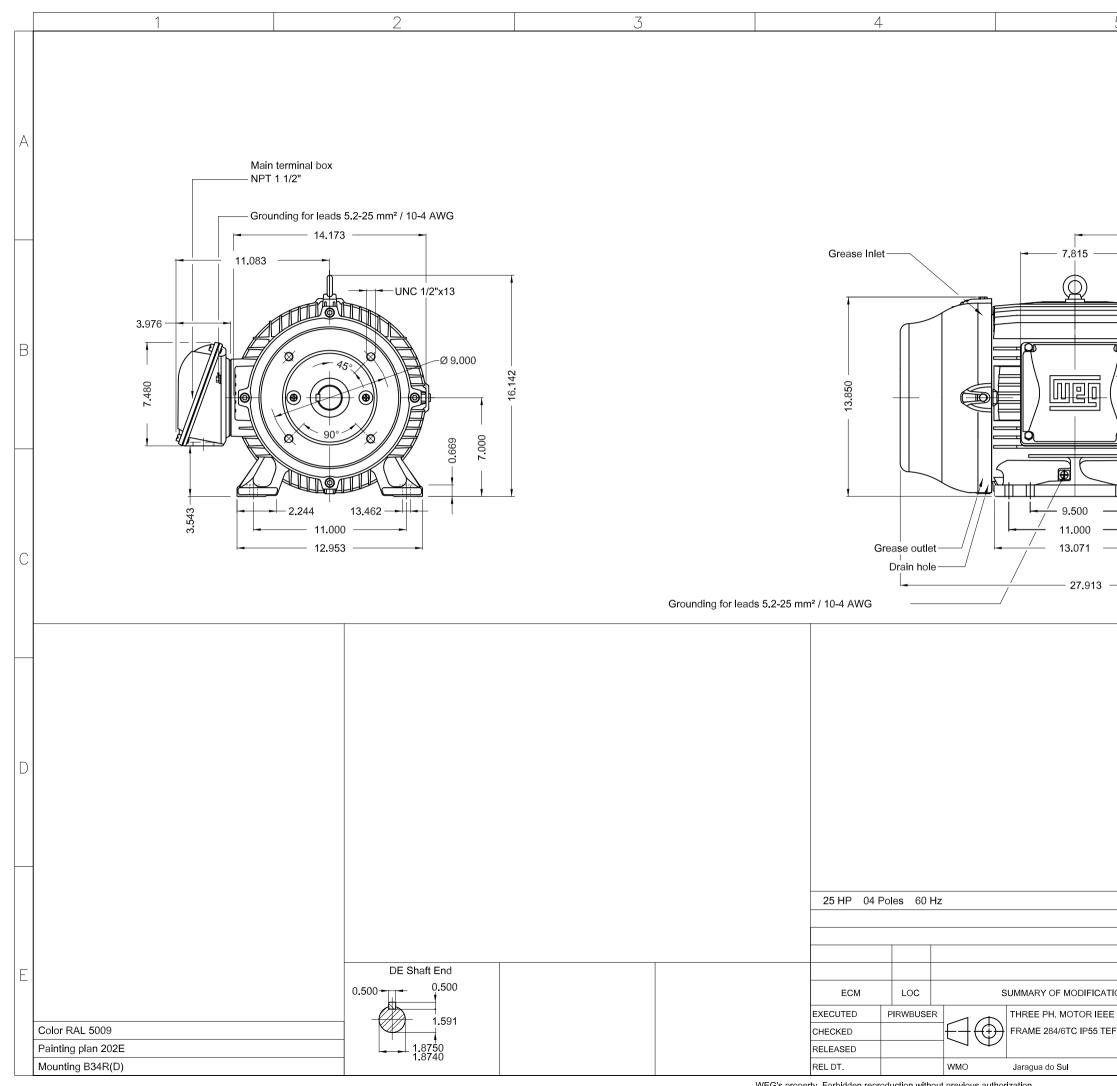
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