DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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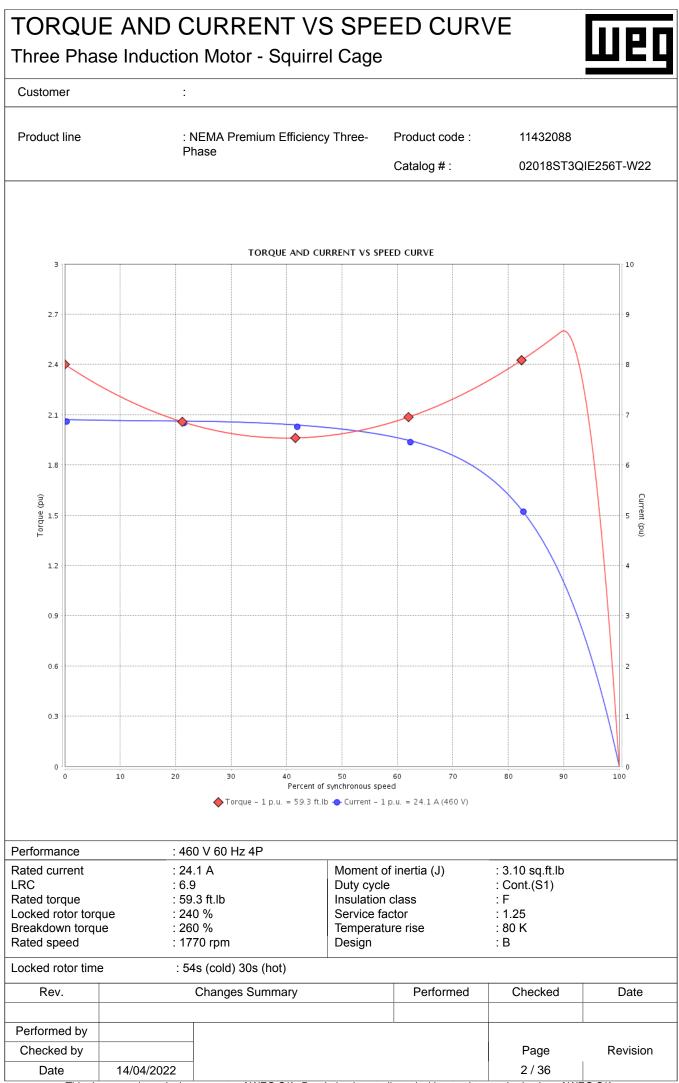
Customer

Product line			mium Efficien	cy Three-	hree- Product code :		11432088		
		Phase			Catalog # :	02	018ST3QIE2	56T-W22	
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 254/6T : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mounti Rotatio Startin Approx		: F : E : C : 3	C411 - TEFC -1 Both (CW and Direct On Line 77 lb 3.10 sq.ft.lb	,	
Output [HP]		20	15	15	15	20	20	20	
Poles		4	4	4	4	4	4	4	
requency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		460	380	400	415	380	400	415	
Rated current [A]		24.1 166	21.8	21.2 167	20.6 173	29.4 168	28.0 174	27.1 179	
R. Amperes [A] _RC [A]			161 7.4x(Code H)		8.4x(Code K)			6.6x(Code	
No load current [A	1	9.60	9.90	10.5	11.0	9.90	10.5	11.0	
Rated speed [RPI		1770	1470	1475	1477	1455	1460	1465	
Slip [%]	-	1.67	2.00	1.67	1.53	3.00	2.67	2.33	
Rated torque [ft.lb]	59.3	53.6	53.4	53.3	72.2	71.9	71.7	
ocked rotor torqu	ie [%]	240	250	280	300	190	210	229	
Breakdown torque	e [%]	260	290	320	340	210	229	260	
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K	
ocked rotor time		54s (cold) 30s (hot)	59s (cold) 33s (hot)	55s (cold) 31s (hot)	52s (cold) 29s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	36s (cold) 20s (hot)	
Noise level ²	05%	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A	
Efficiency (%)	25%	91.0	90.9	89.2	89.2	92.3	90.8	90.8	
	50% 75%	91.7	91.0	89.8	89.8	91.7	91.0	91.0	
	100%	92.4 93.0	91.5 91.4	91.0 91.4	91.3 91.7	91.0 90.2	91.0 91.0	91.7 91.7	
	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44	
	50%	0.43	0.40	0.62	0.60	0.49	0.40	0.44	
Power Factor	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80	
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84	
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		Drive end 6309 C3 Inpro/Sea 20000 h 13 g Mobi	6209 0 al Inpro/S	C3 Max. tra eal Max. co	tion loads action ompression		05 lb 083 lb	1	
Notes									
This revision repl 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 subject ocess.	e shaft end. tolerance of +3	8dB(A).		are average va supply, subject				
Rev.		Changes	Summary	I	Performe	ed Che	ecked	Date	
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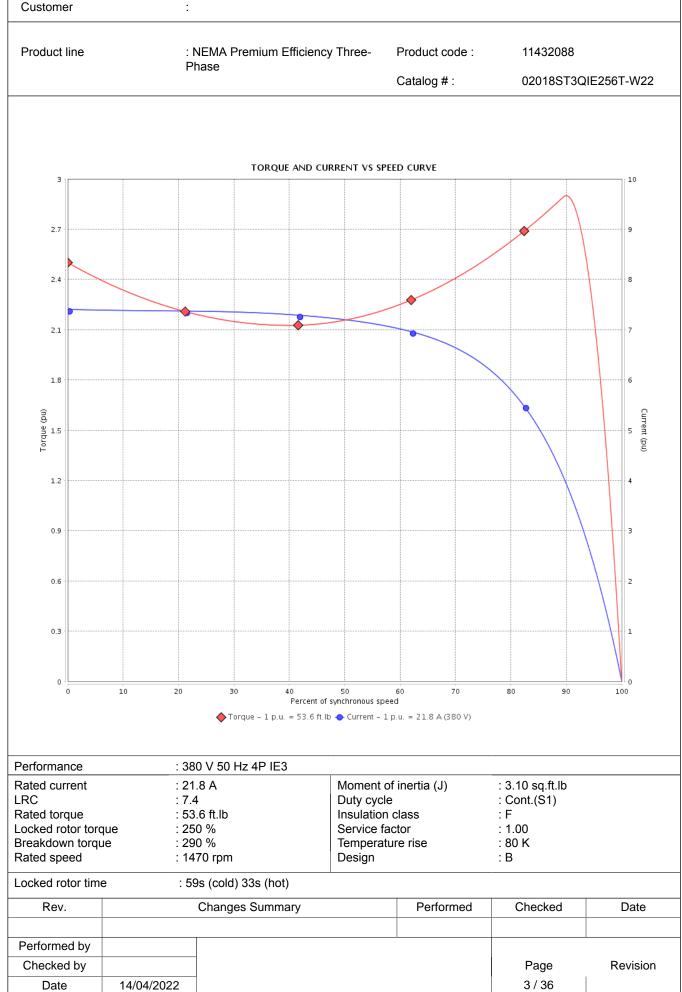
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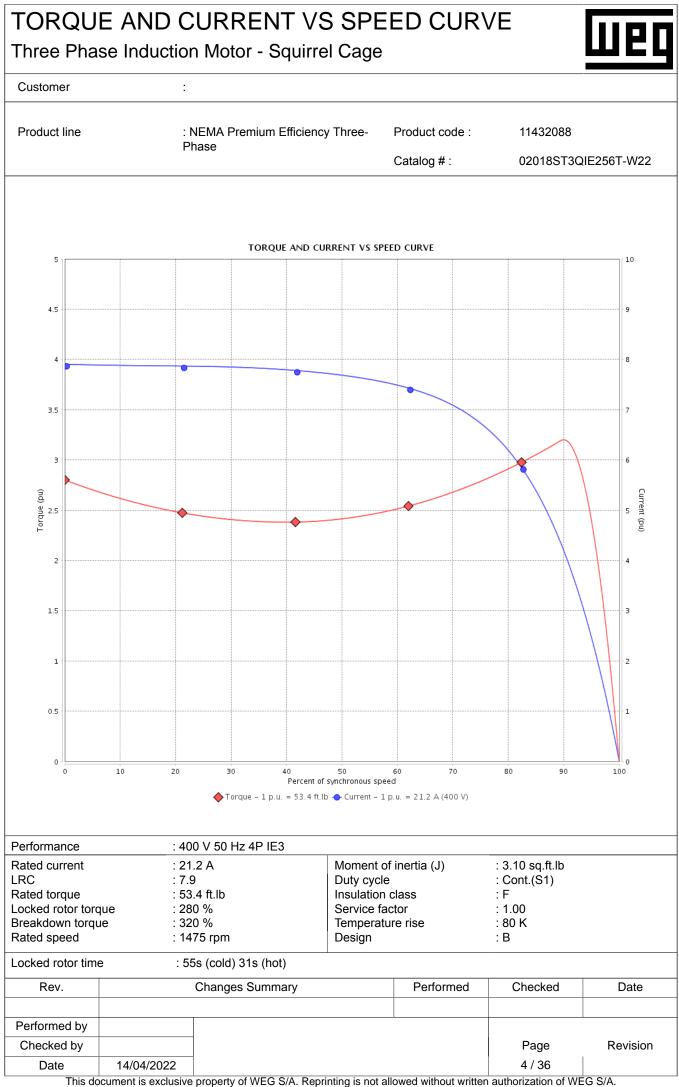
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



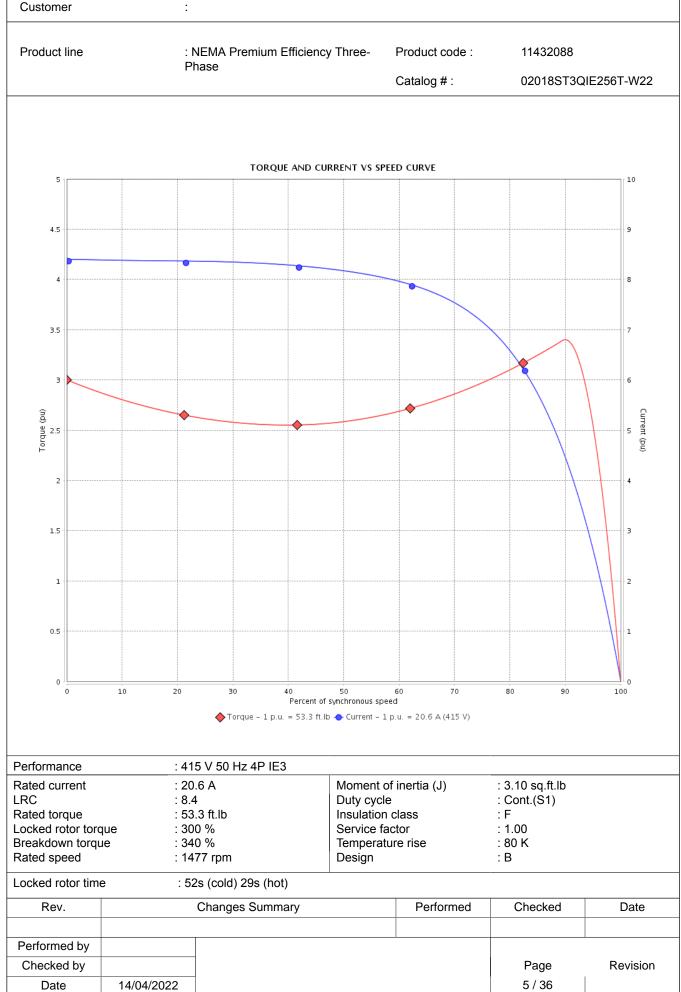
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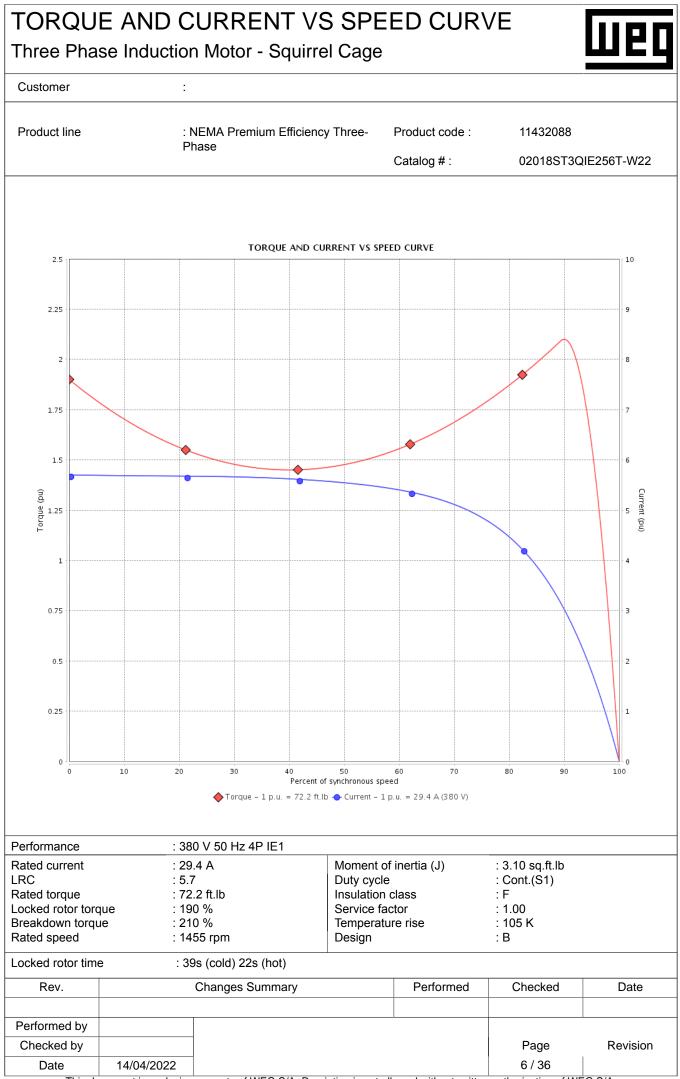
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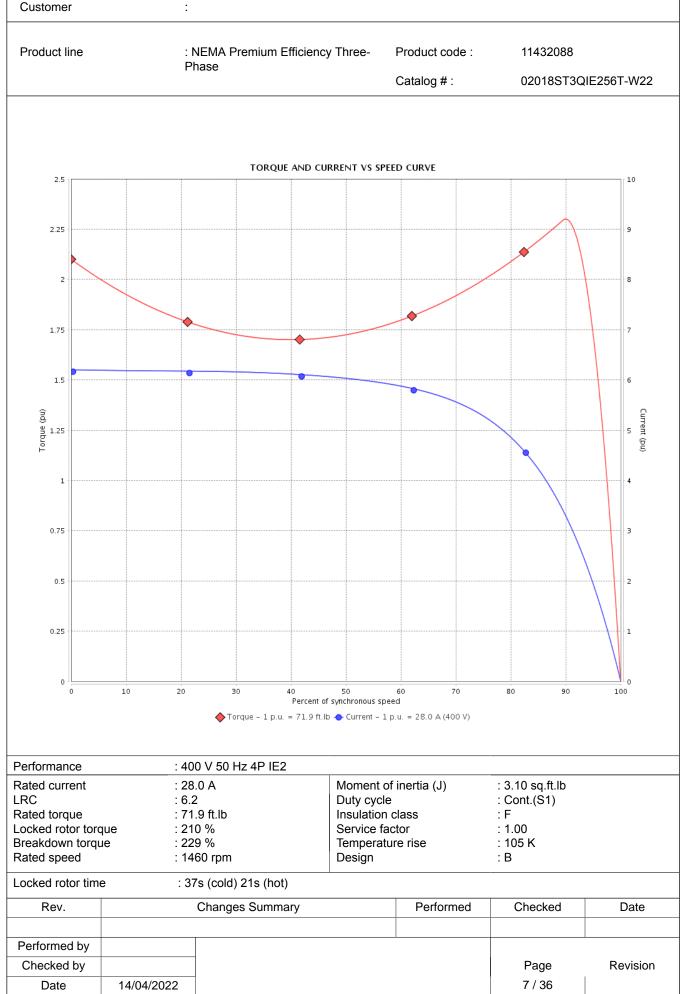
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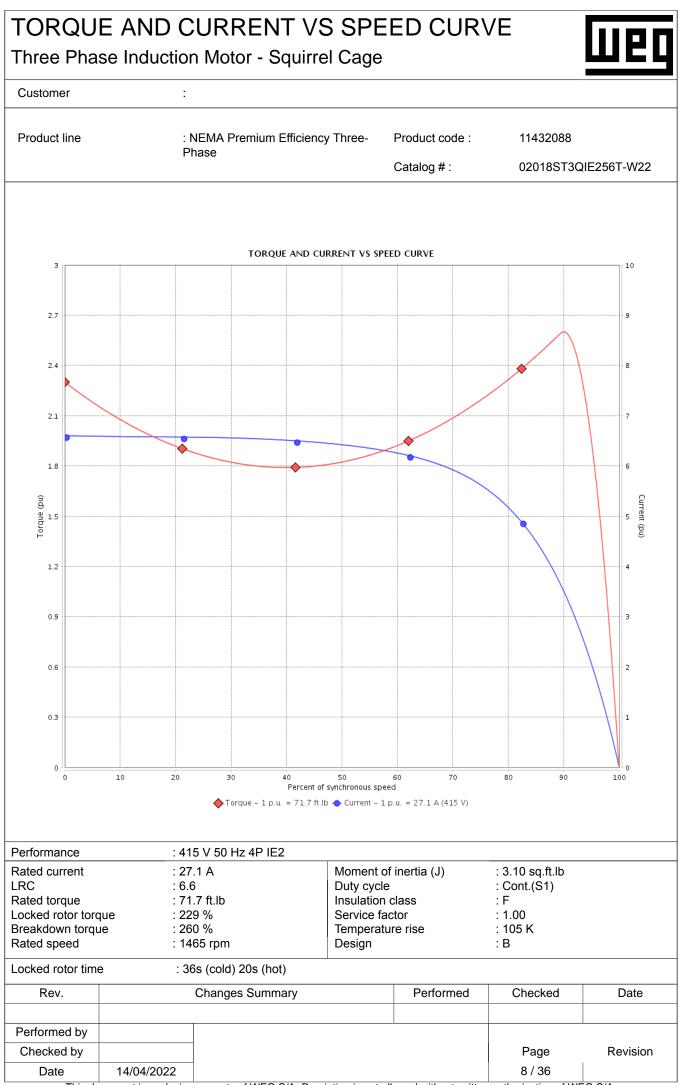
TORQUE AND CURRENT VS SPEED CURVE

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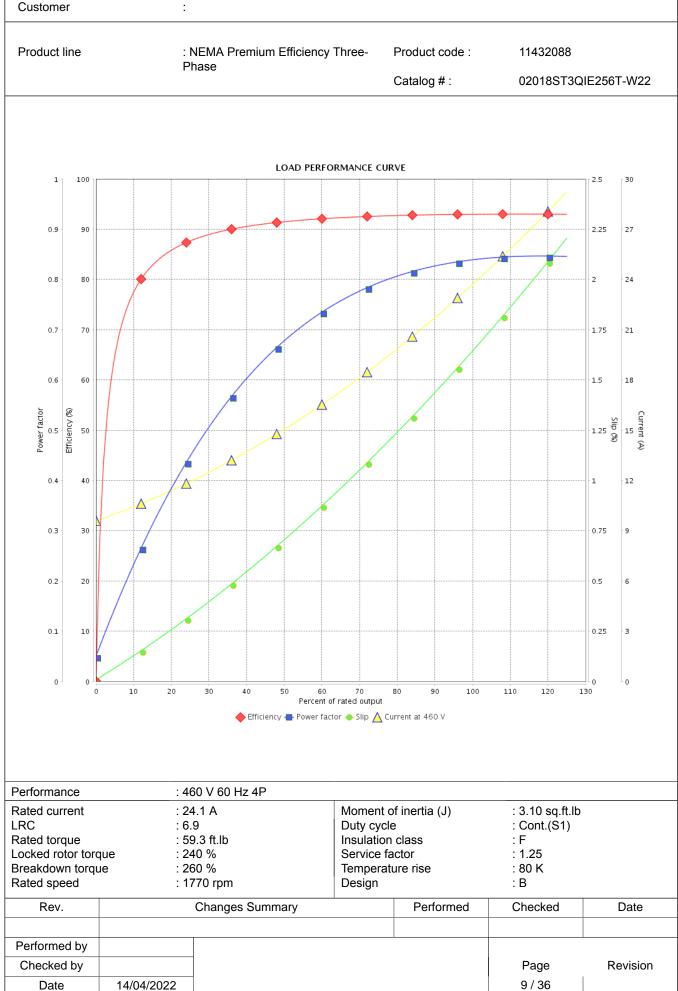


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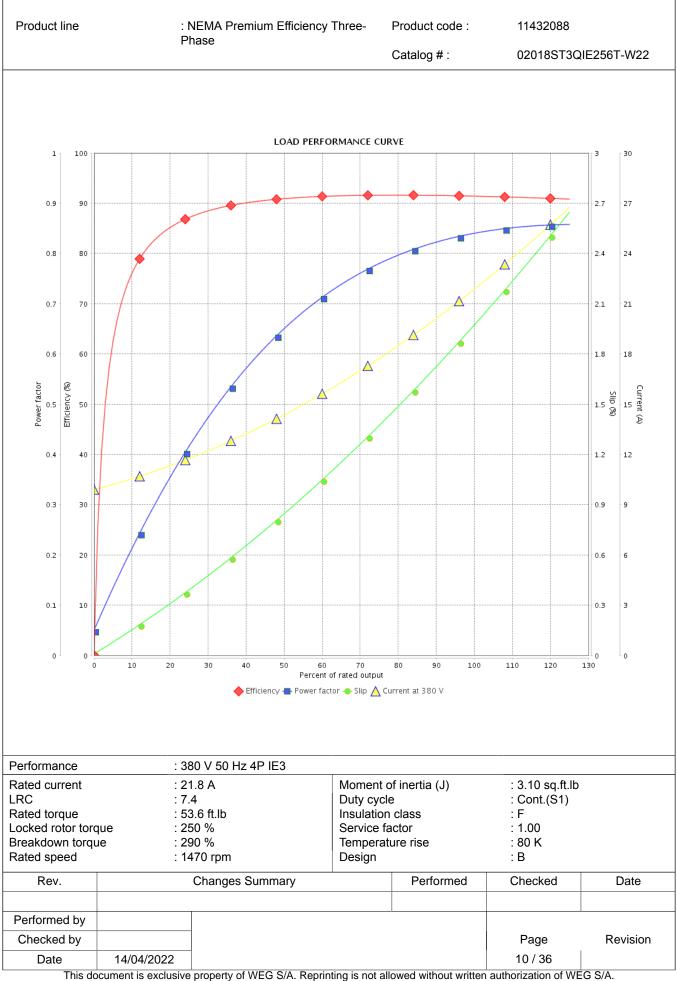
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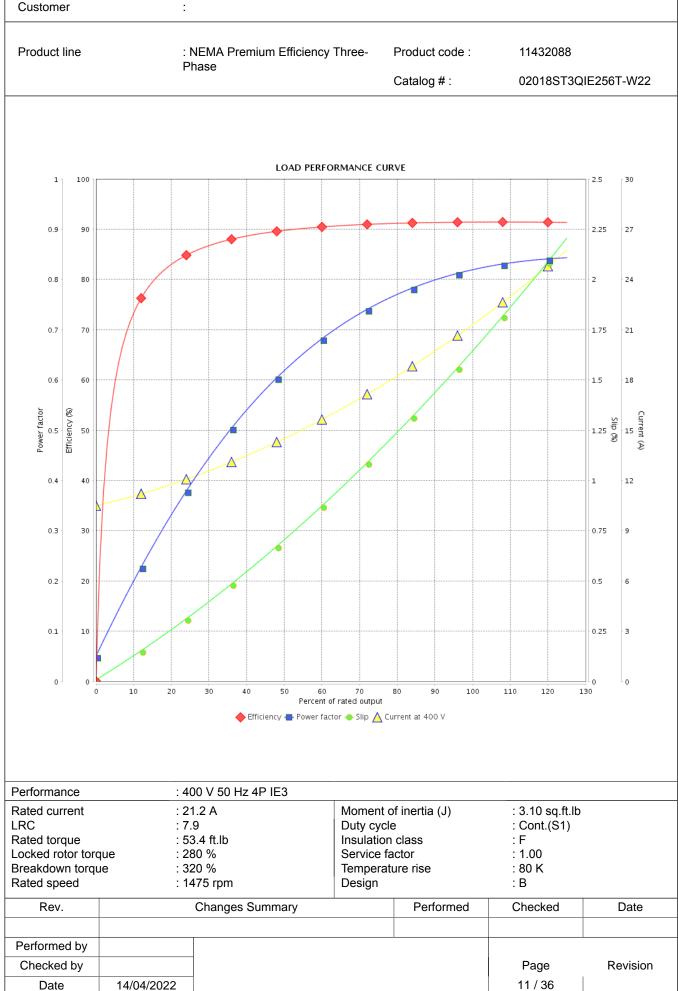


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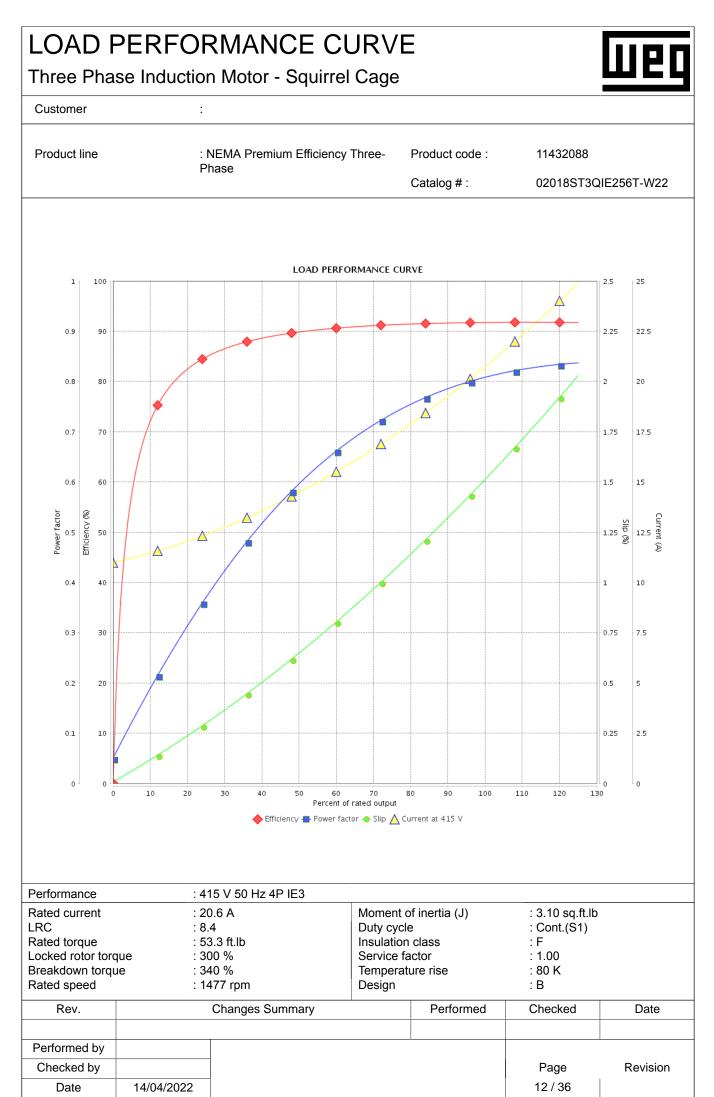


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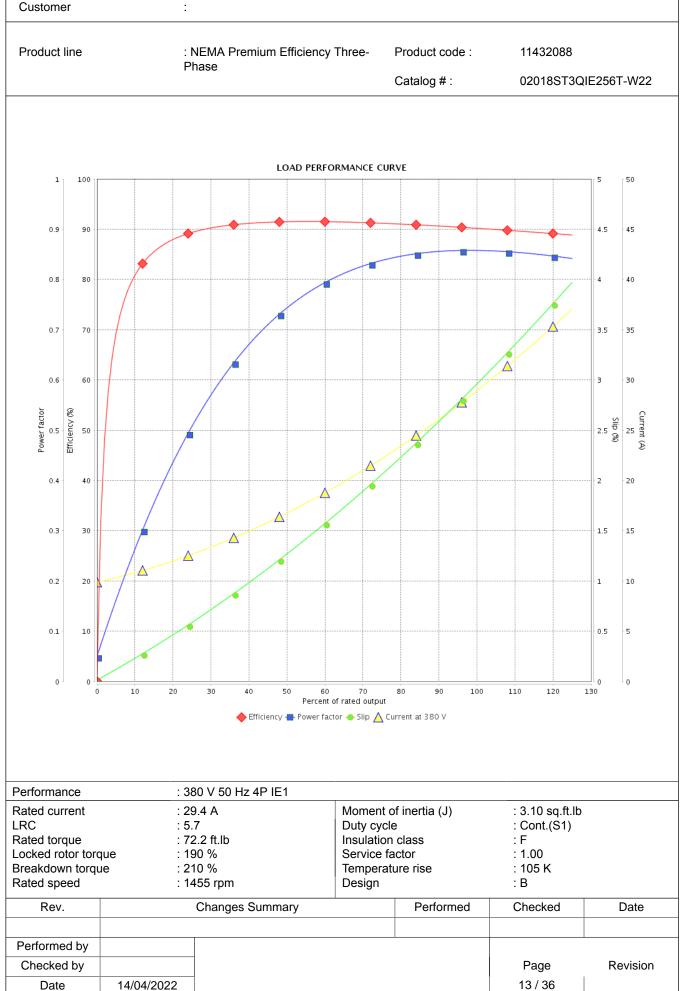


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Three Phase Induction Motor - Squirrel Cage

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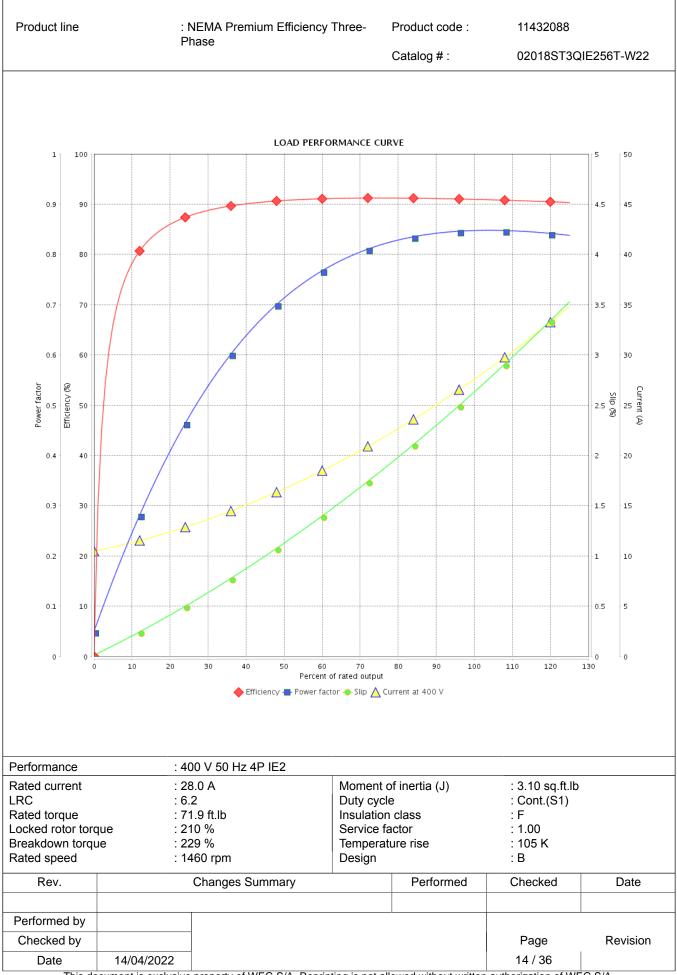
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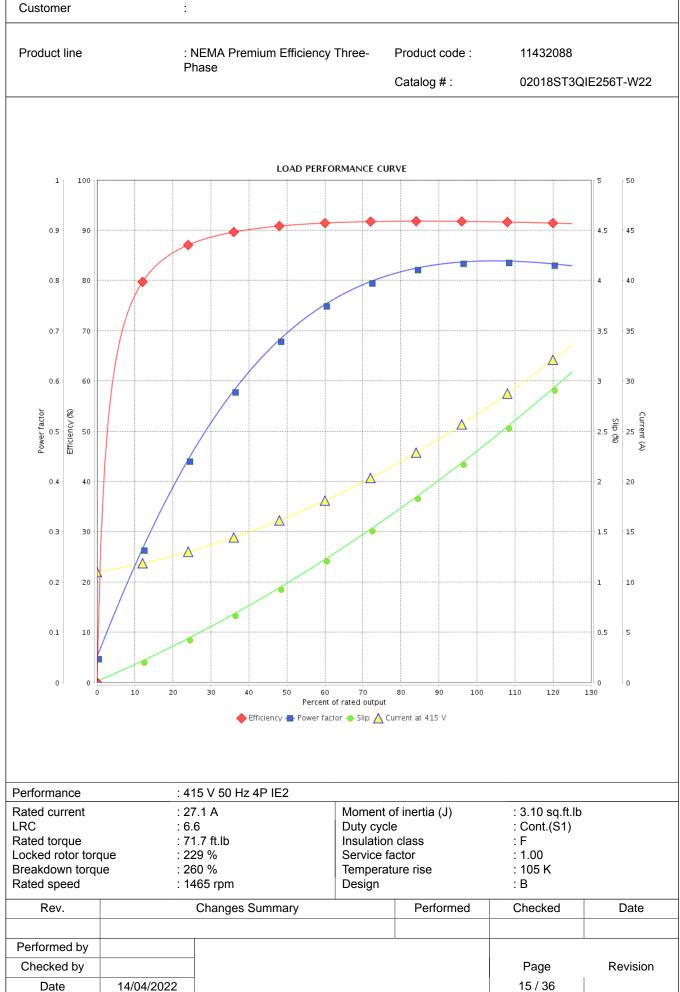


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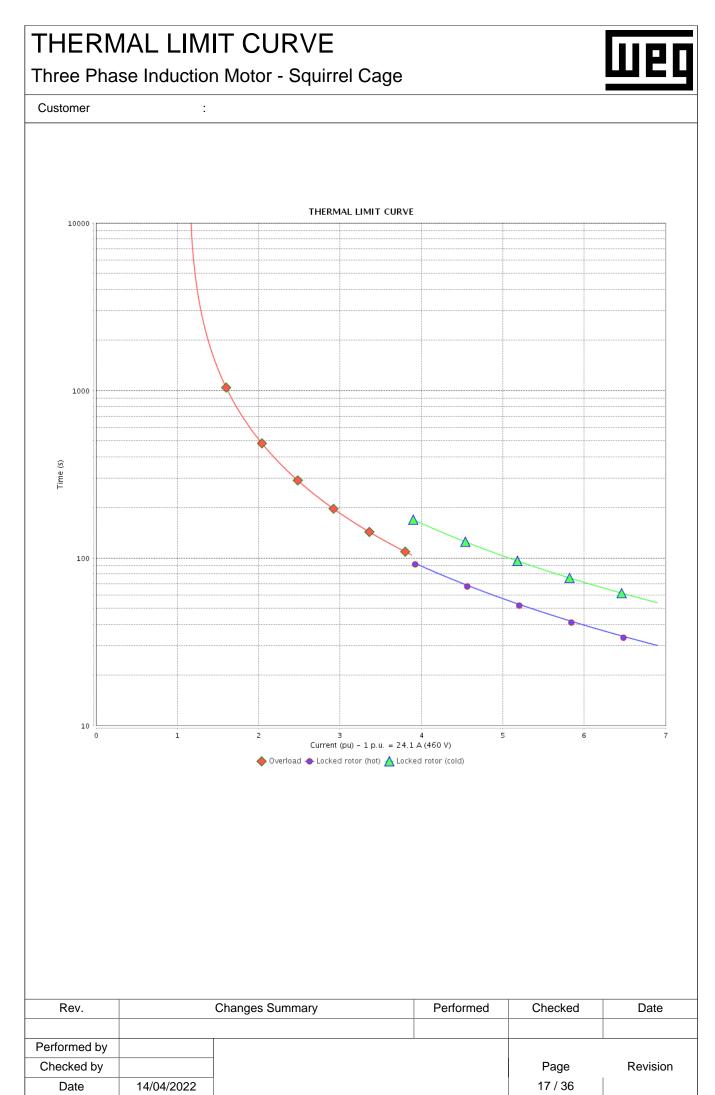
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THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line	:1	NEMA Premium Efficiency ⁻	Three-	Product code :	11432088	
		hase		Catalog # :	02018ST3QI	E256T-W22
Performance		60 V 60 Hz 4P				
Rated current	: 24	4.1 A		f inertia (J)	: 3.10 sq.ft.lb	
LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	lue : 24 1e : 20	.9 9.3 ft.lb 40 % 60 % 770 rpm	Duty cycle Insulation Service fa Temperate Design	class ctor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	<u> </u>	Changes Summer		Dorform	Charles -	Data
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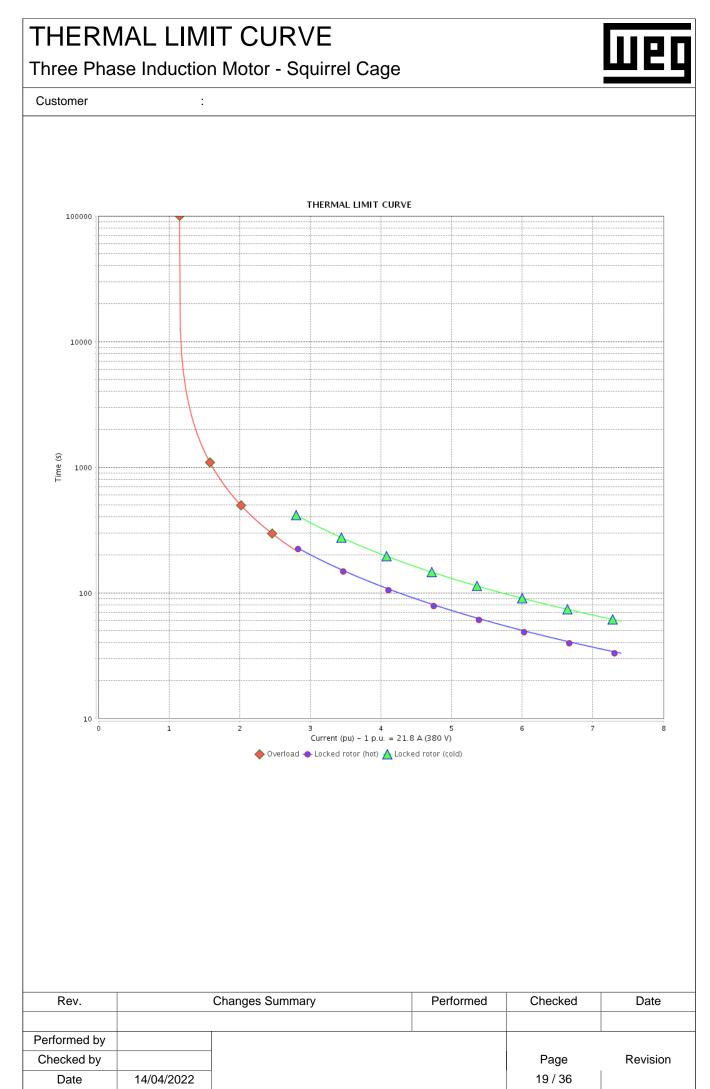


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	11432088	
				Catalog # :	02018ST3QI	E2301-VV22
Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 5 jue : 2 ie : 2	1.8 A .4 3.6 ft.lb 50 % 90 % 470 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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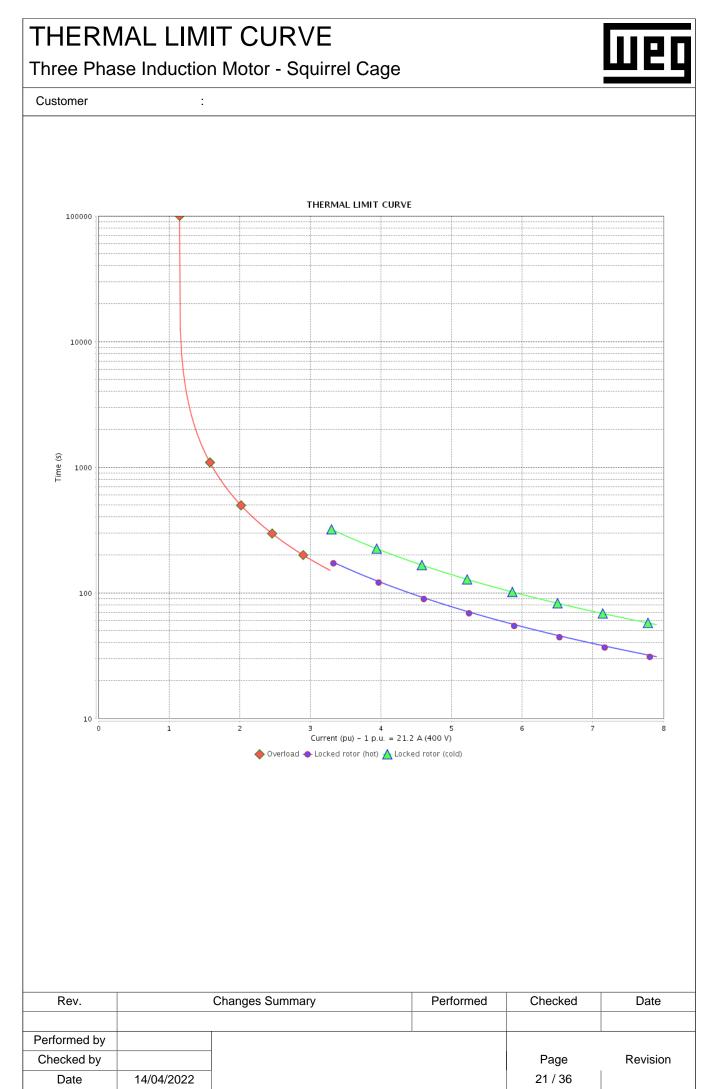


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency T		Product code :	11432088	
				Catalog # :	02018ST3QI	E2561-W22
Performance		00 V 50 Hz 4P IE3		.		
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 5 que : 2 Je : 3	1.2 A .9 3.4 ft.lb 80 % 20 % 475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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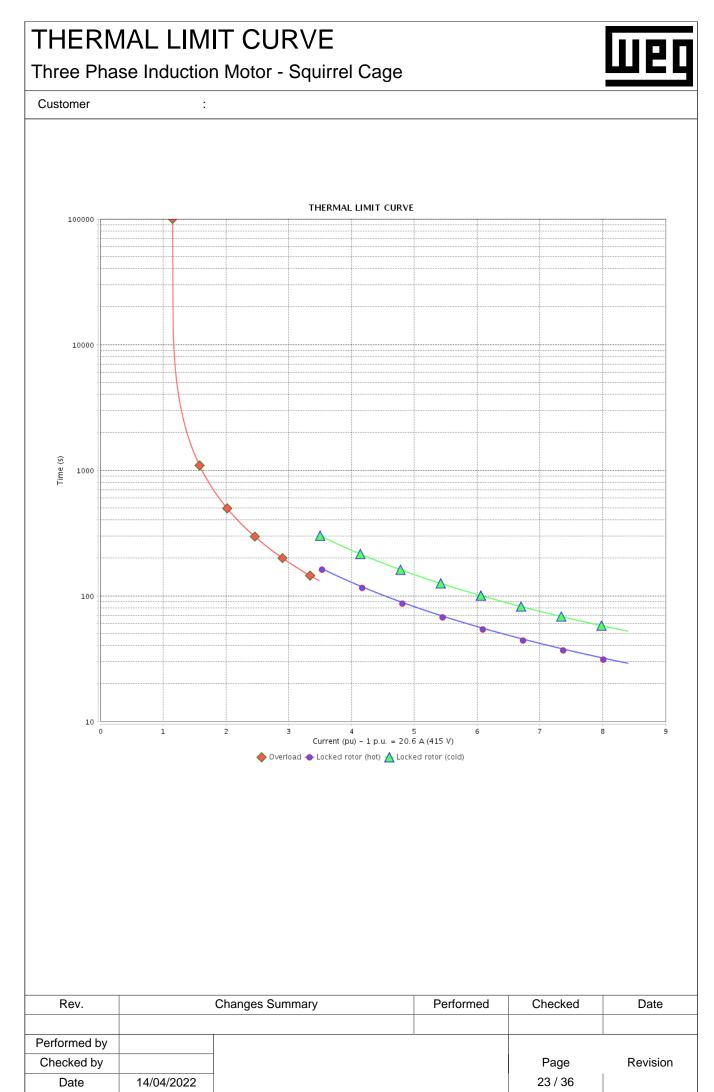


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Three Pha	se Inductio	n Motor - Squirrel	Cage		l	шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	11432088	
				Catalog # :	02018ST3QI	E256T-W22
Performance		15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 5 jue : 3 ie : 3	0.6 A .4 3.3 ft.lb 00 % 40 % 477 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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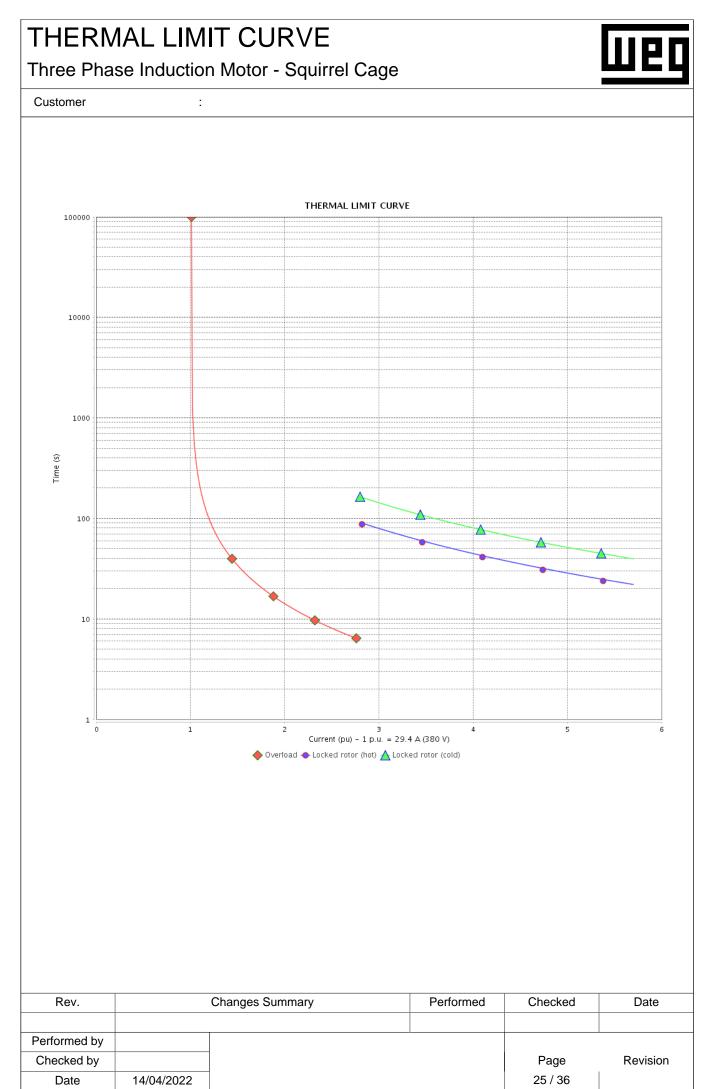


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency T hase	Three-	Product code :	11432088	
				Catalog # :	02018ST3QI	E256T-W22
Performance	: 38	80 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5: : 7: jue : 19 ie : 2	9.4 A .7 2.2 ft.lb 90 % 10 % 455 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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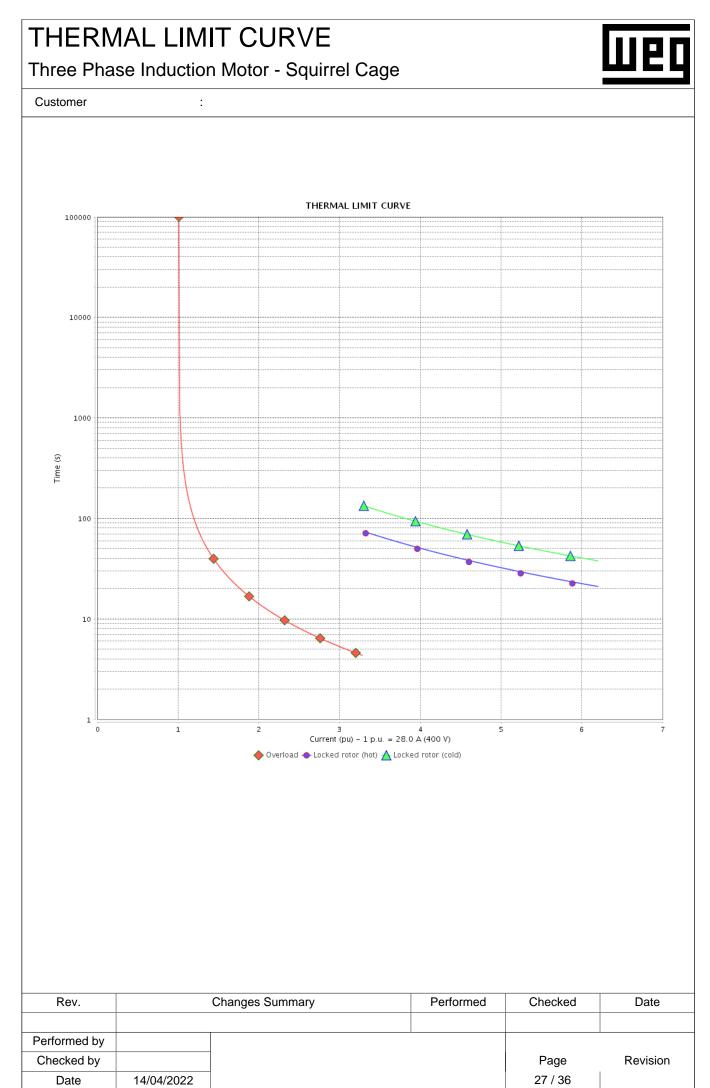


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсч
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	11432088	
				Catalog # :	02018ST3Q	E256T-W22
Performance		00 V 50 Hz 4P IE2	N4			
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 7 jue : 2 ie : 2	8.0 A .2 1.9 ft.lb 10 % 29 % 460 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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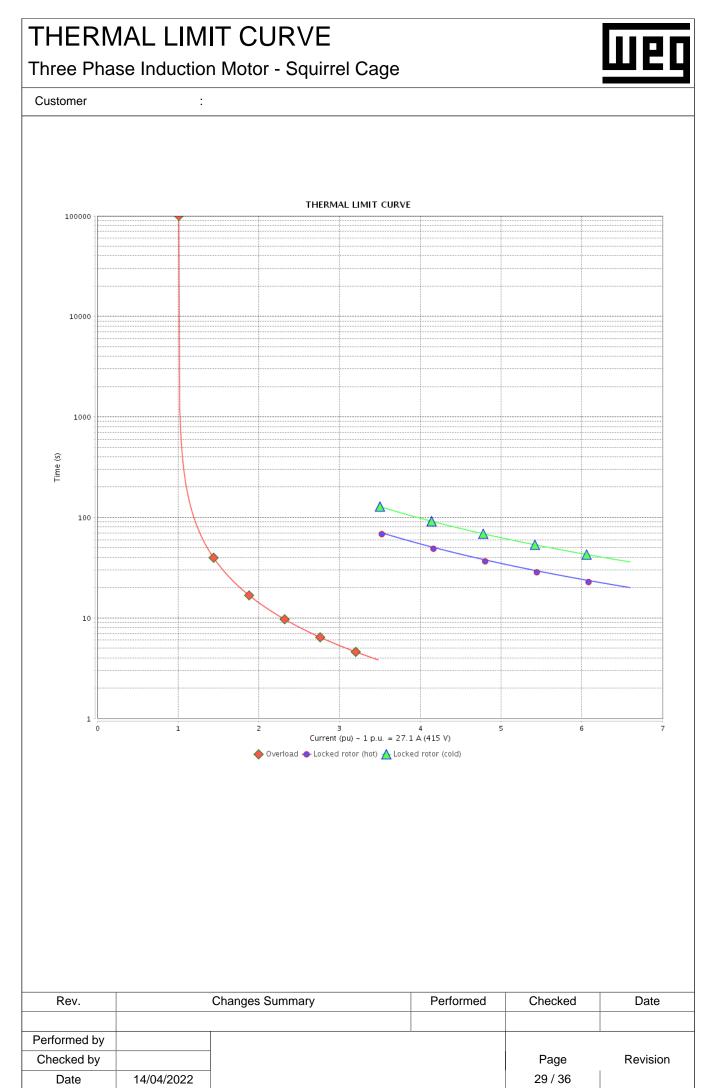


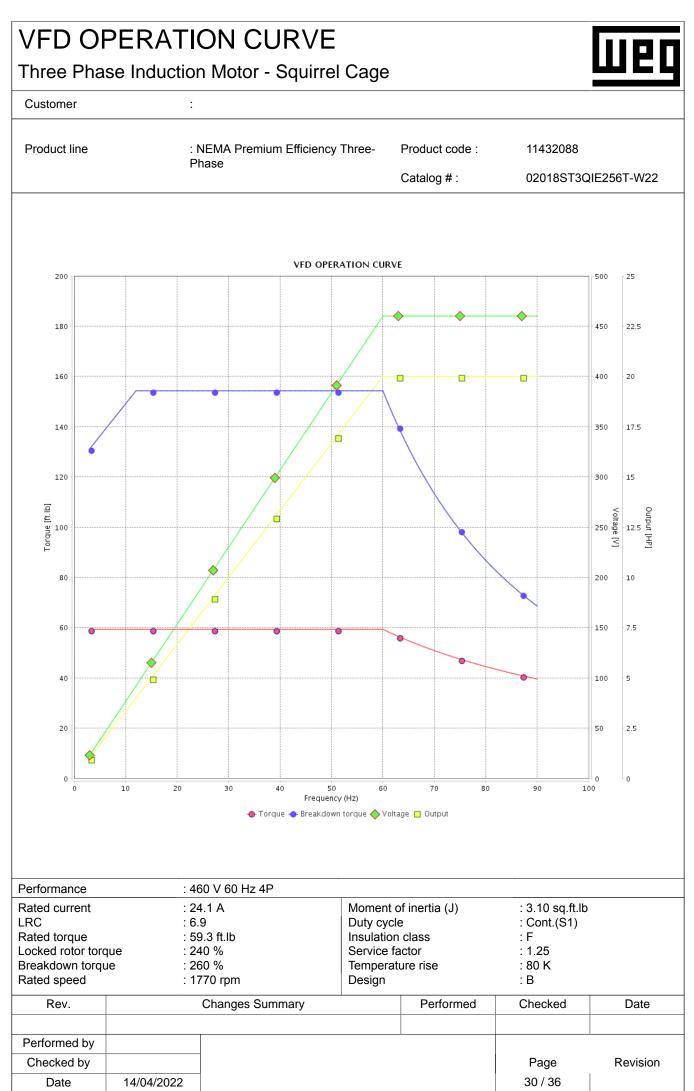
THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage		l	шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	11432088	
				Catalog # :	02018ST3QI	E256T-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 7 jue : 2 ie : 2	7.1 A .6 1.7 ft.lb 29 % 60 % 465 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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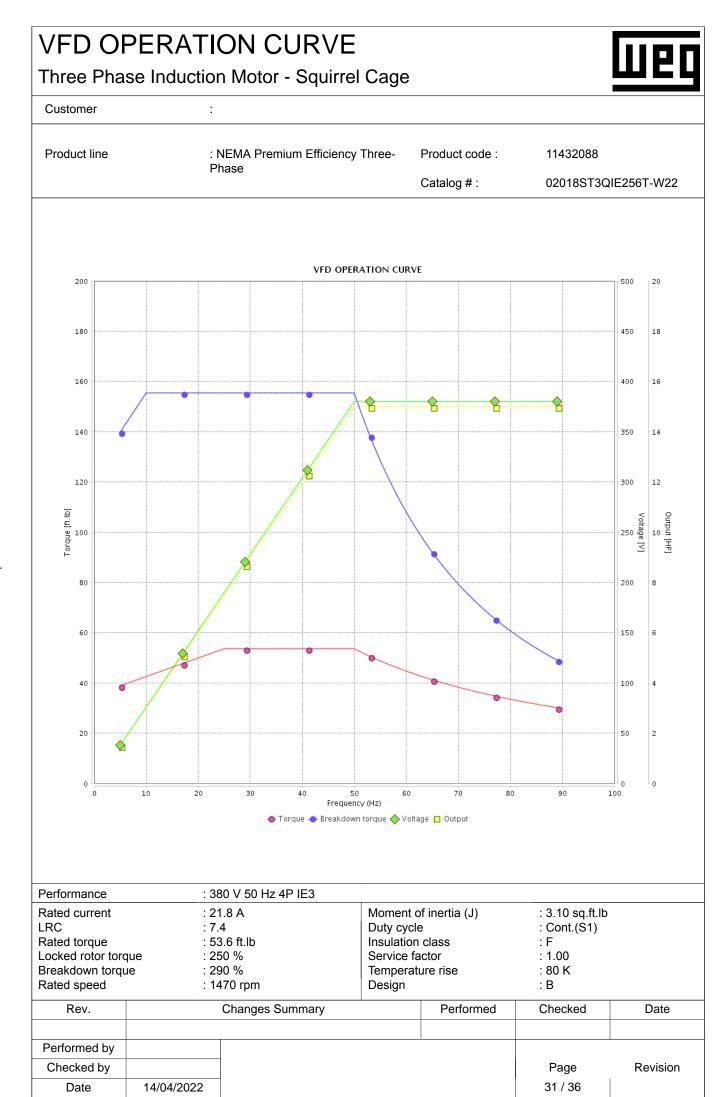
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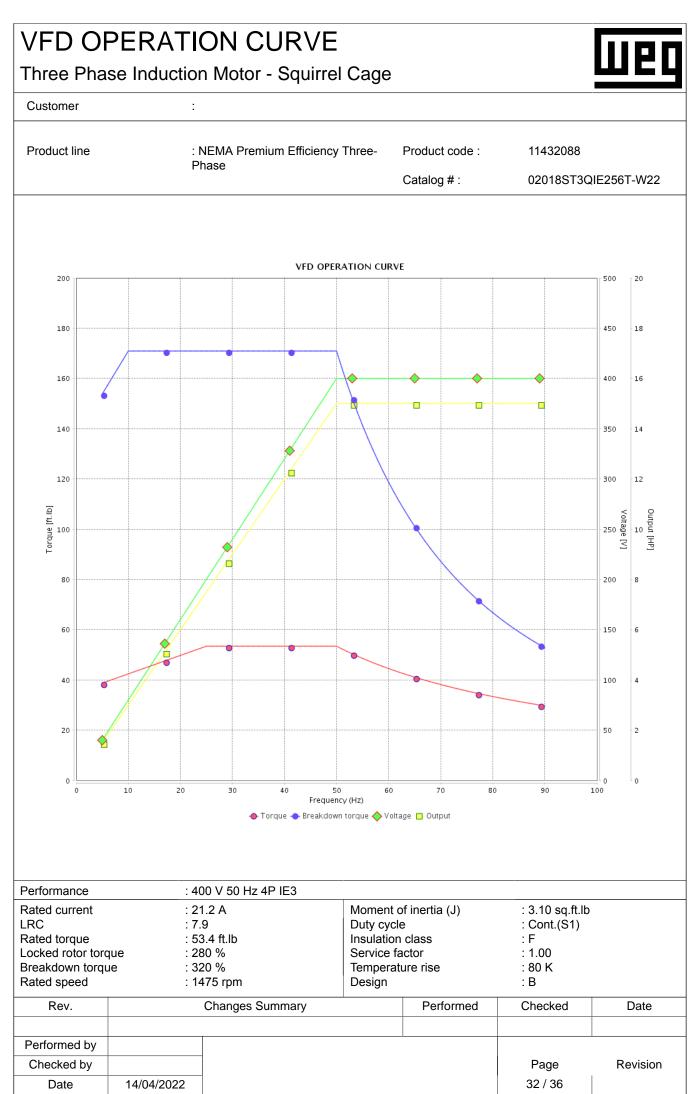
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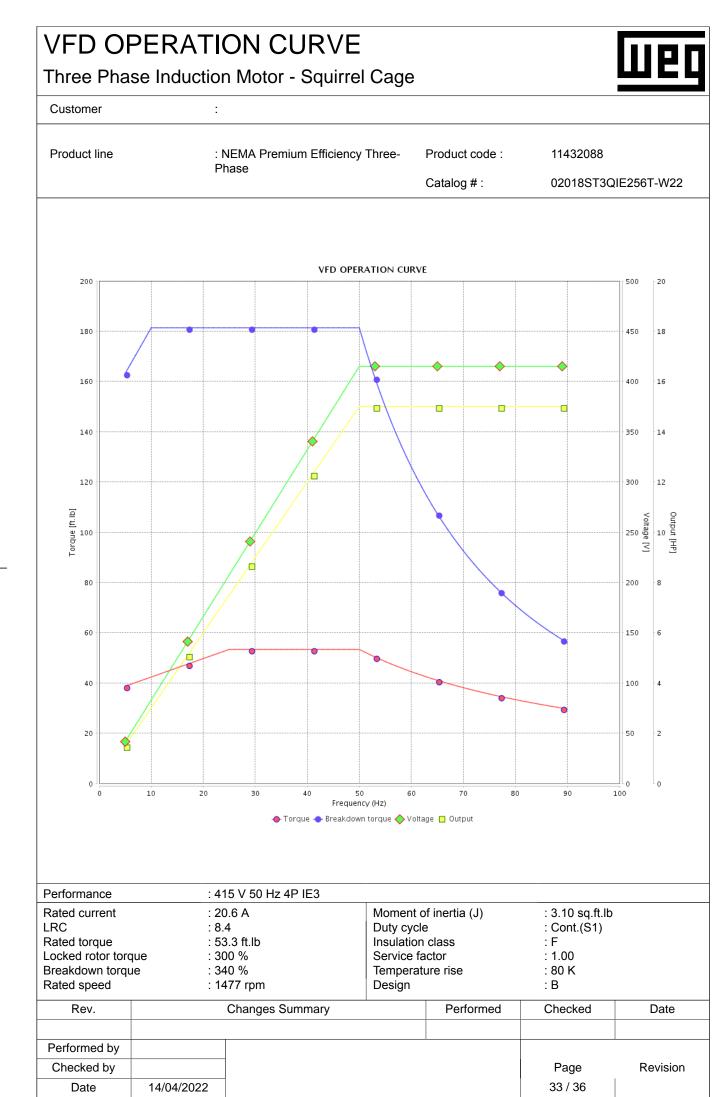
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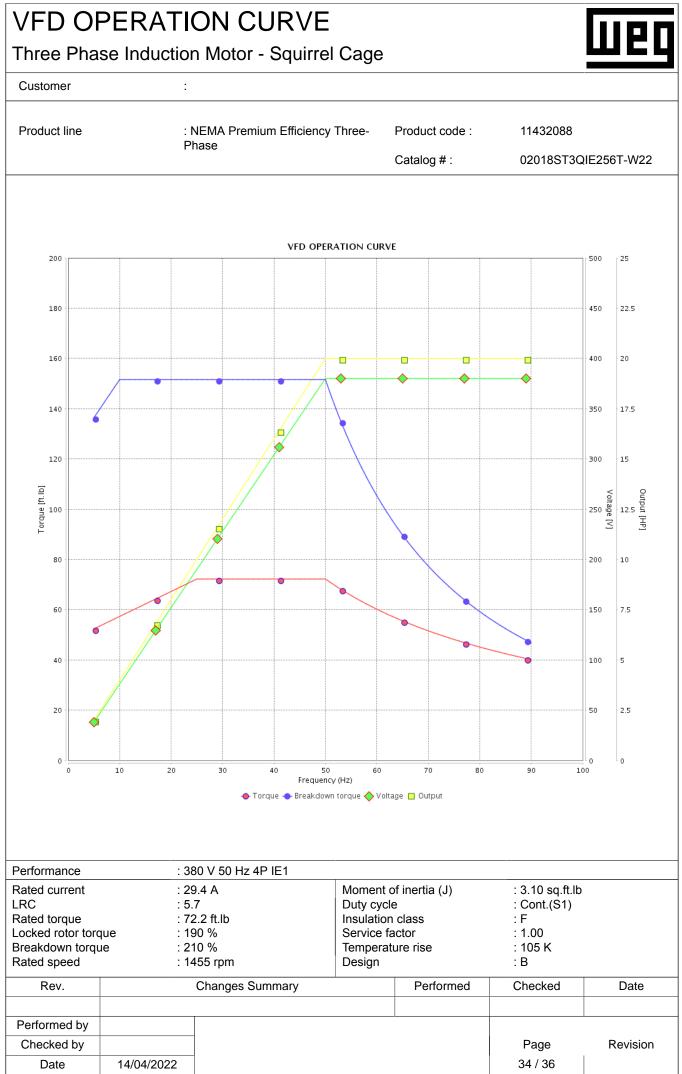


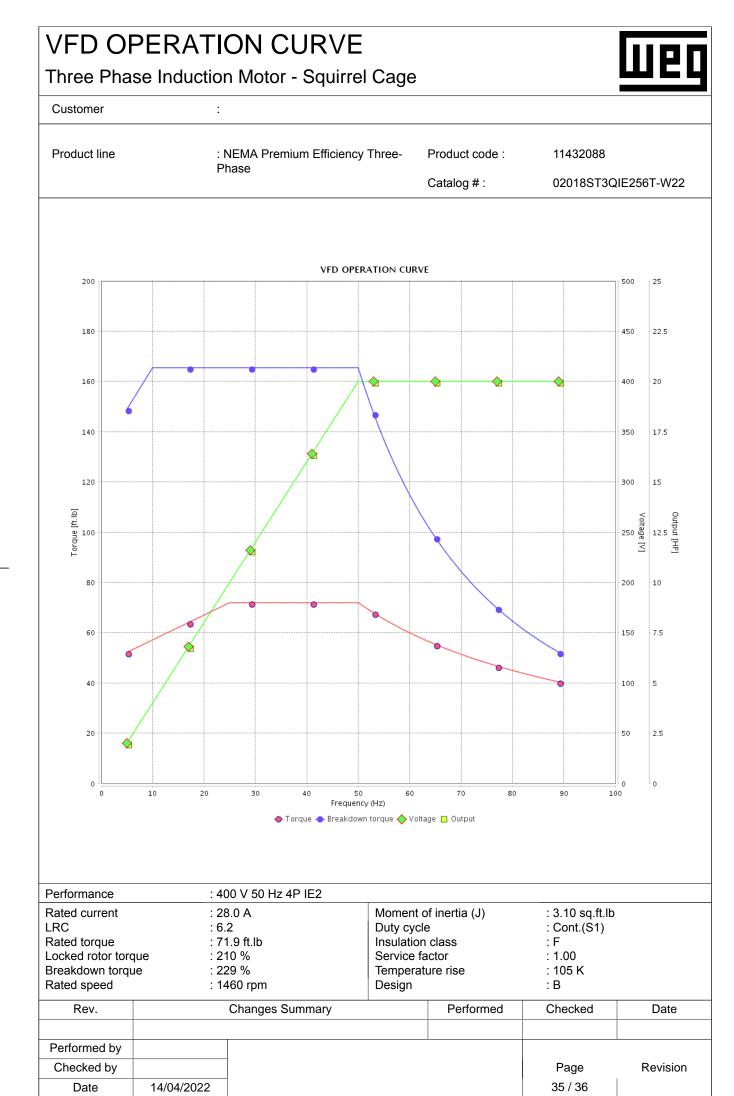


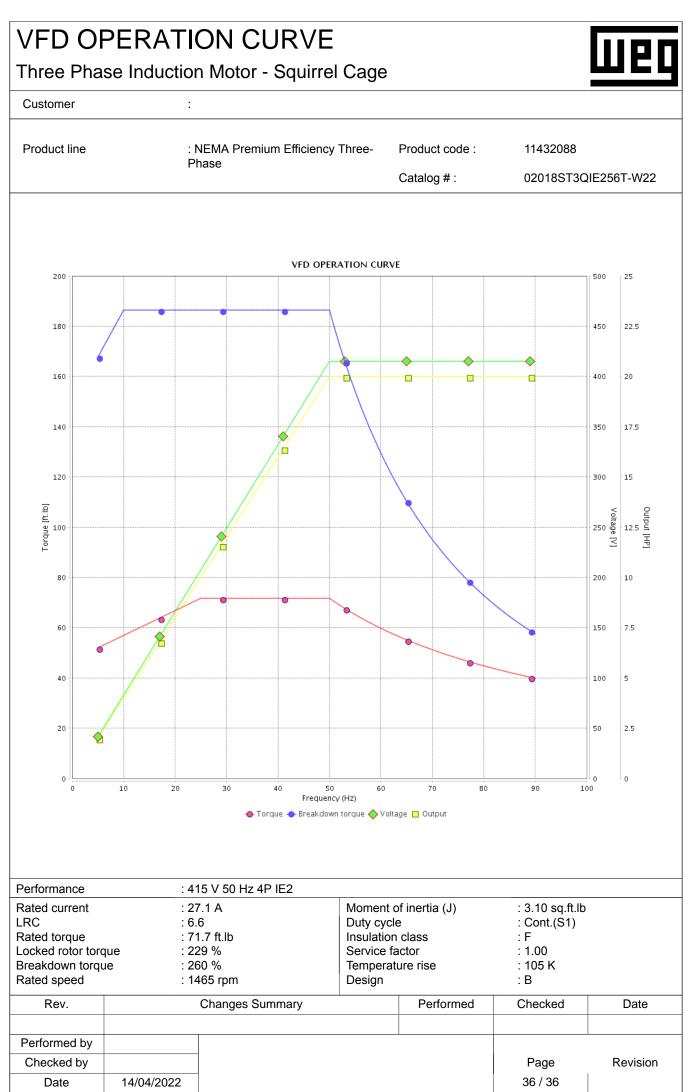


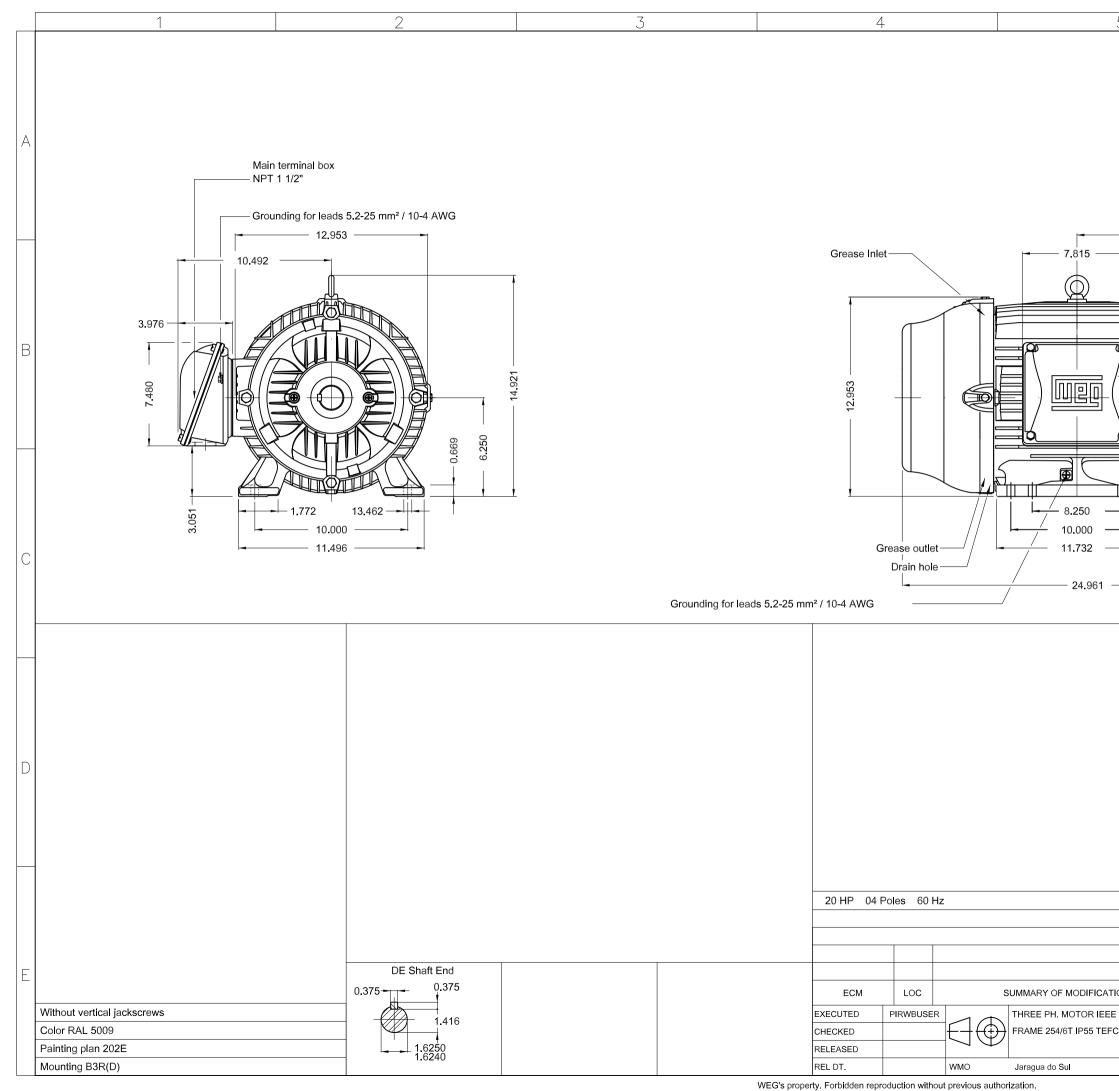












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