DATA SHEET

Three Phase Induction Motor - Squirrel Cage

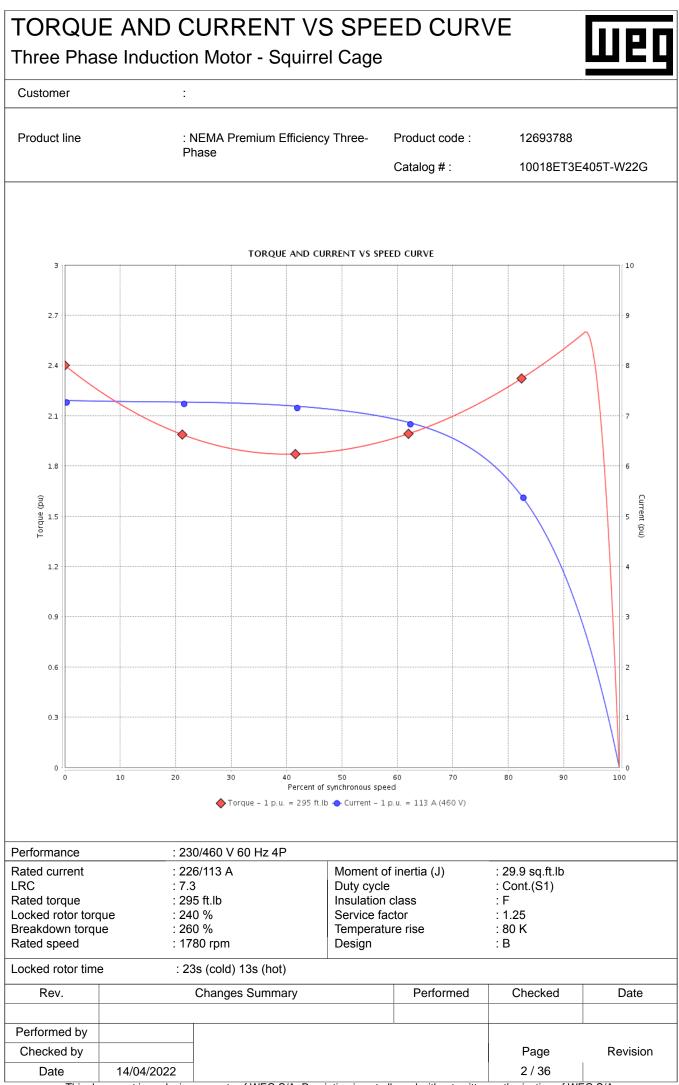
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Customer

Product line		: NEMA Premium Efficiency Three-			Product code	code : 12693788				
		Phase				Catalog # :	10	0018ET3E40	5T-W22G	
Frame		: 404/5T				g method		C411 - TEFC	;	
Insulation class		: F			Mounti			F-1		
Duty cycle		: Cont.(S1)	1000		Rotatio			Both (CW and	,	
Ambient tempera	ature	: -20°C to +				g method		Direct On Line	e	
Altitude		: 1000 m.a.	S.I.			. weight ³		1170 lb		
Protection degre Design	e	: IP55 : B			womer	nt of inertia (J))	29.9 sq.ft.lb		
5		_								
Output [HP]		100	75		75	75	100	100	100	
Poles		4	4		4	4	4	4	4	
Frequency [Hz]		60	50		50	50	50	50	50	
Rated voltage [V]		230/460	380		-00	415	380	400	415	
Rated current [A]		226/113	102		8.3	95.9	138	131	127	
L. R. Amperes [A]		1650/825	785		26	854	814	852	902	
_RC [A]		7.3x(Code H)	7.7x(Code H)	8.4x(0	Code J)	8.9x(Code K)	5.9x(Code F		7.1x(Code H	
No load ourroot [A	.1	76.0/38.0	37.6	A	0.1	42.0	37.6	G)	42.0	
No load current [A Rated speed [RPI		1780	37.6 1485		0.1 485	42.0	37.6 1470	40.1	42.0	
	vij									
Slip [%] Datad targua [ft lb	1	1.11	1.00		.00	1.00	2.00	1.67	1.67	
Rated torque [ft.lb		295	265		65	265	357	356	356 220	
Locked rotor torqu		240	260		80	290	190	210		
Breakdown torque	÷[%]	260	280		00	330	210	229 1.00	250	
Service factor		1.25 80 K	1.00 80 K		.00 0 K	1.00 80 K	1.00 105 K	1.00 105 K	1.00 105 K	
Temperature rise										
Locked rotor time		23s (cold)	16s (cold) 9s (hot)		(cold)	16s (cold) 9s (hot)	16s (cold)	16s (cold)	16s (cold)	
Noise level ²		13s (hot) 68.0 dB(A)	64.0 dB(A)		(hot) dB(A)	64.0 dB(A)	9s (hot) 64.0 dB(A)	9s (hot) 64.0 dB(A)	9s (hot) 64.0 dB(A)	
	25%	94.6	93.4		3.3	93.0	94.8	94.0 UB(A)	94.0 UB(A)	
	50%	94.0	93.4	-	3.3 3.9	93.6	94.8	94.7	94.4	
Efficiency (%)	75%	95.0	94.0		3.9 4.5	93.0	94.5	94.5	94.5	
	100%	95.0	94.4	-	4.5 5.0	94.5	93.6	94.5	94.5	
	25%	0.51	0.47		.44	0.41	0.57	0.53	0.51	
	50%	0.51	0.47	-	.44 .69	0.41	0.82	0.53	0.31	
Power Factor	75%	0.84	0.72	-	.81	0.00	0.82	0.79	0.84	
	100%	0.87	0.86		.85	0.79	0.88	0.88	0.87	
	100 %	1					0.00	0.00	0.07	
Bearing type		<u>Drive end</u> : 6316 C3		20		tion loads				
					Max. tra			087 lb		
Sealing Lubrication inter	vol	: WSeal : 10000 h		-	Max. co	mpression	ression : 3257 lb			
Lubrication inter										
Lubricant type	п		34 g 27 g Mobil Polyrex EM							
Notes USABLE @208V	245A SF 1.		-							
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. hotor from the 1m and with t weight subjee	e shaft end. tolerance of +3	3dB(A).			are average va supply, subject				
(4) At 100% of fu		Changes	Summony			Porforma	d Ch	ackad	Data	
Rev.		Changes	Summary			Performe	u Ch	ecked	Date	
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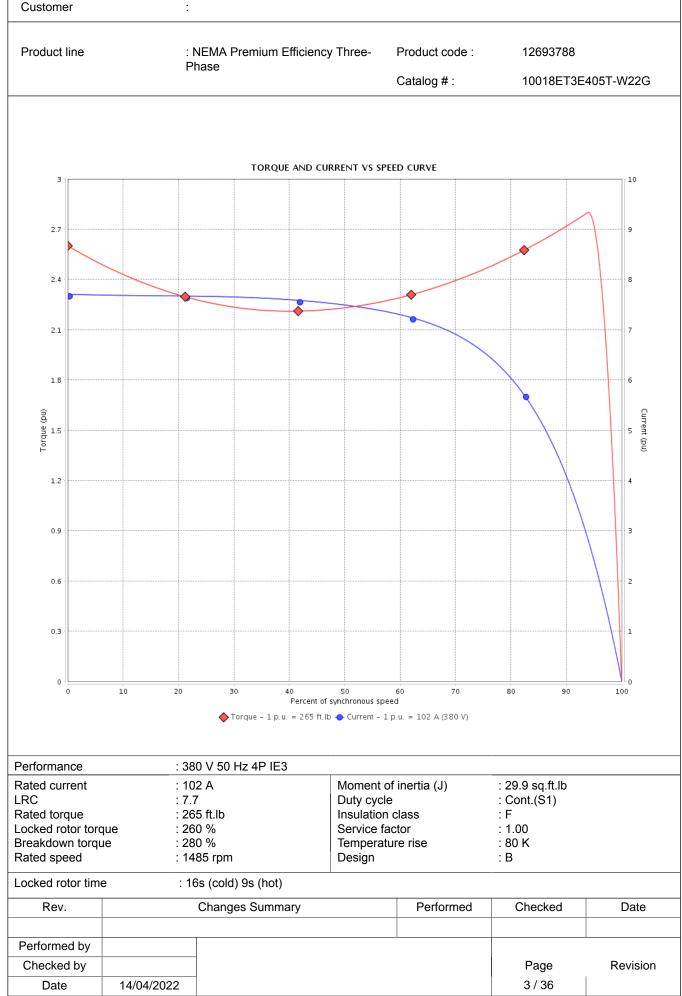
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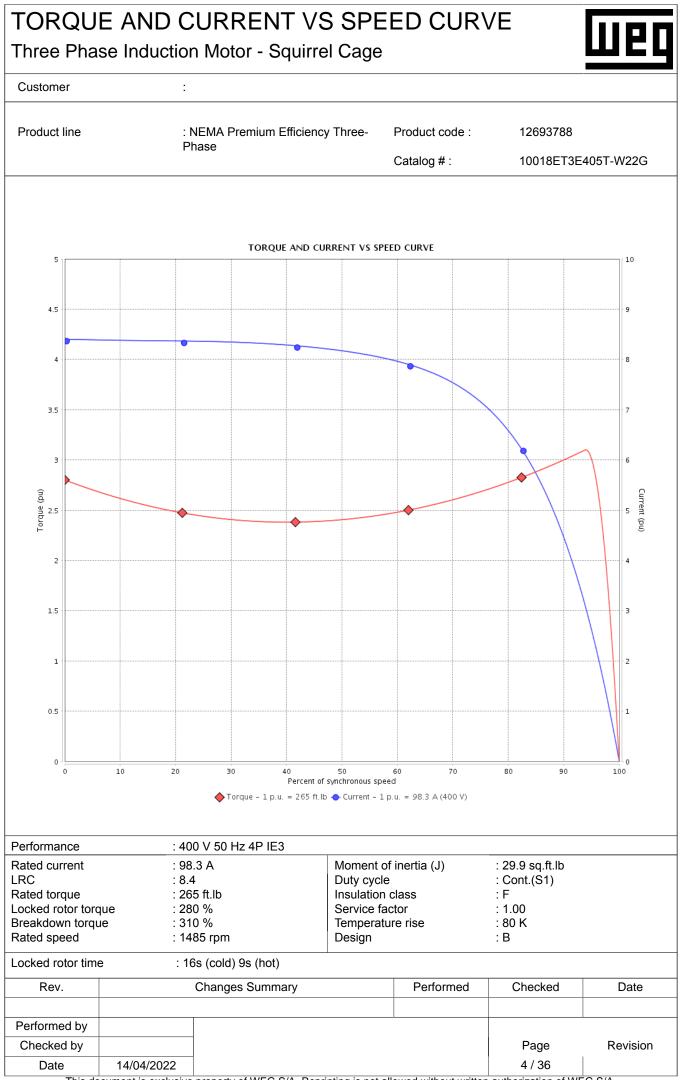
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





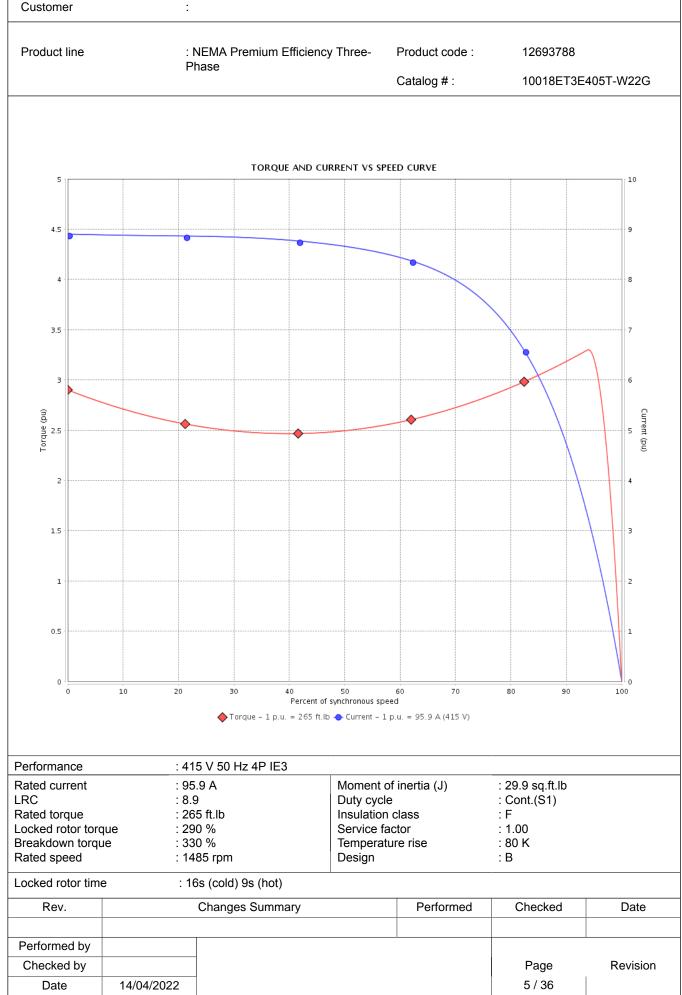
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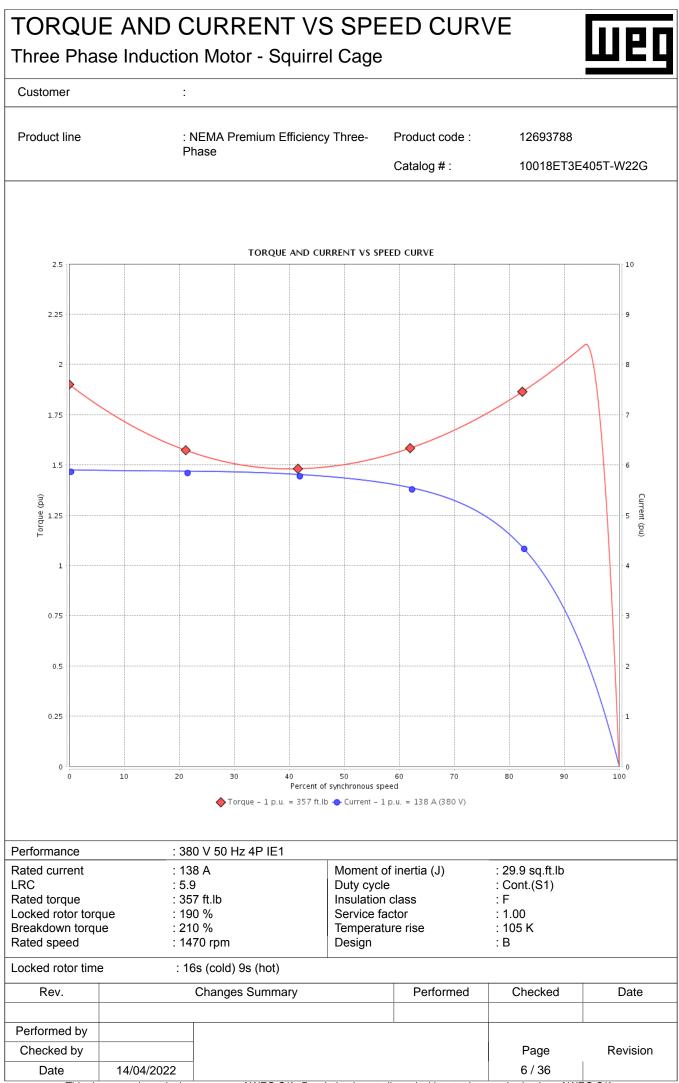
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



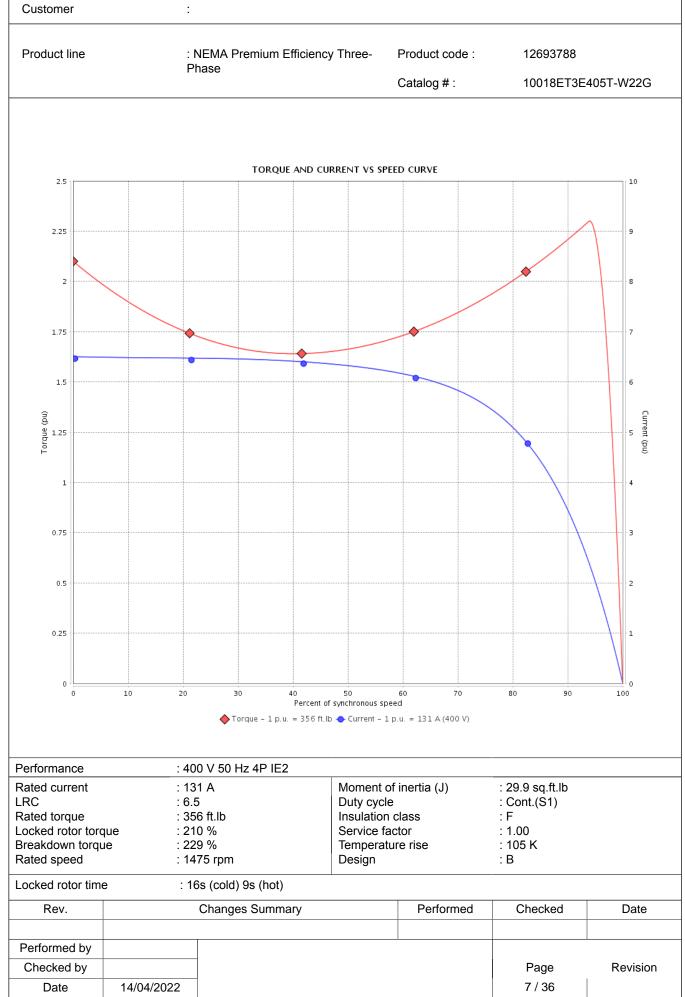
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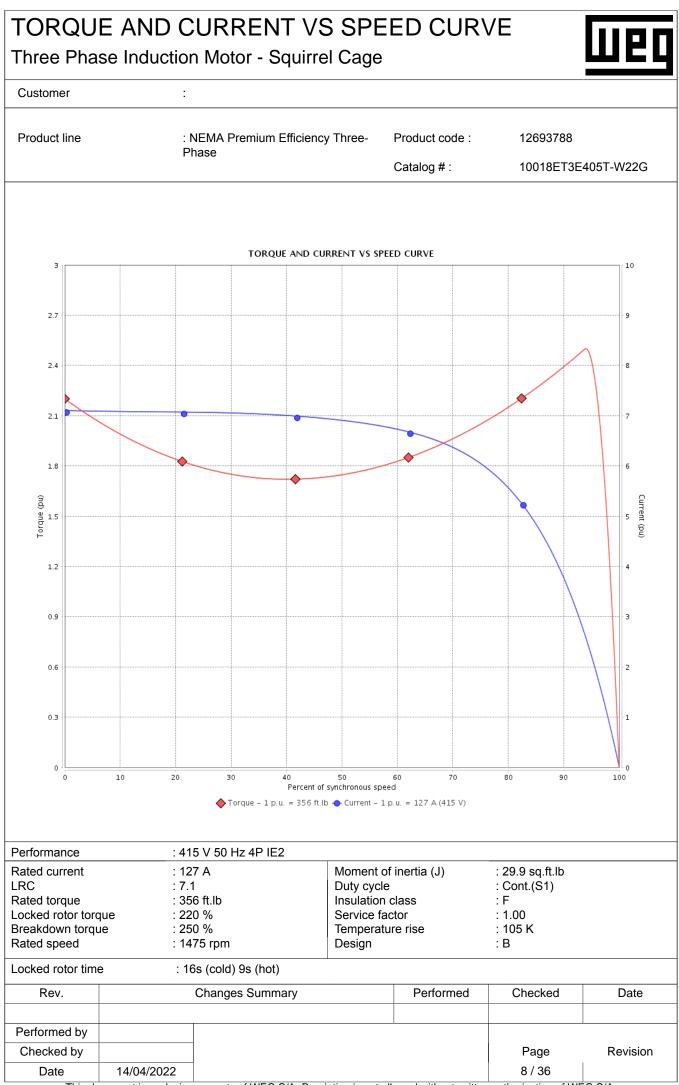
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

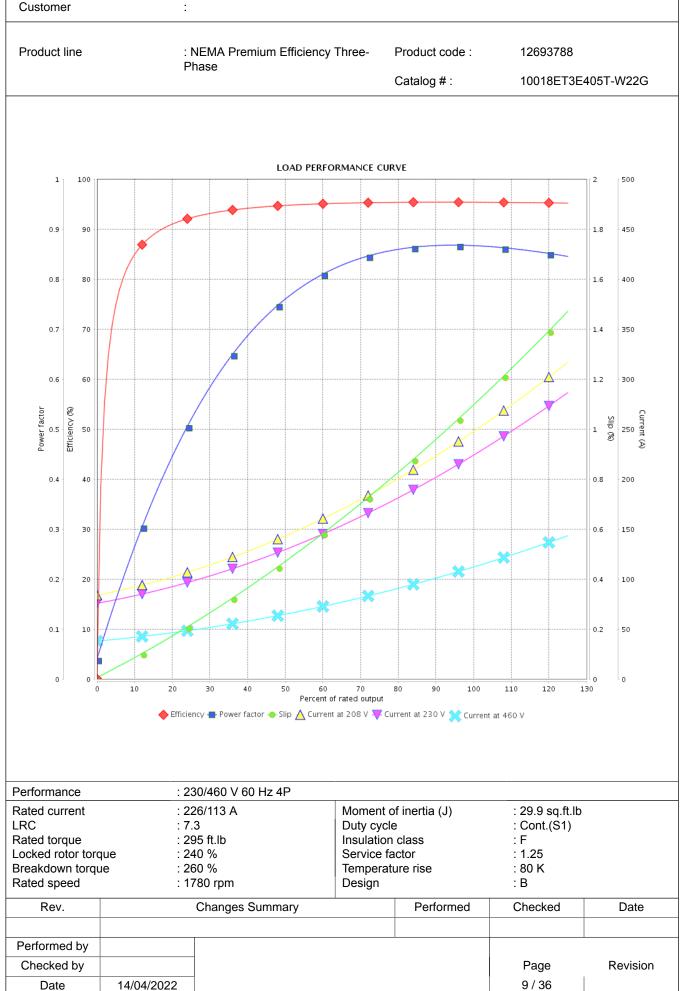


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Three Phase Induction Motor - Squirrel Cage

Customer



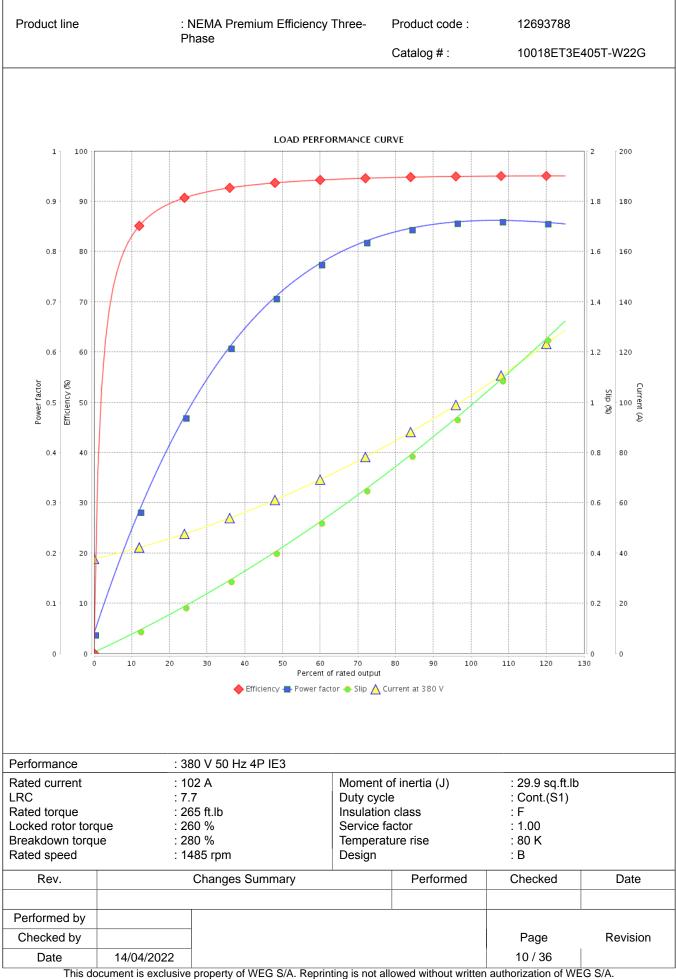
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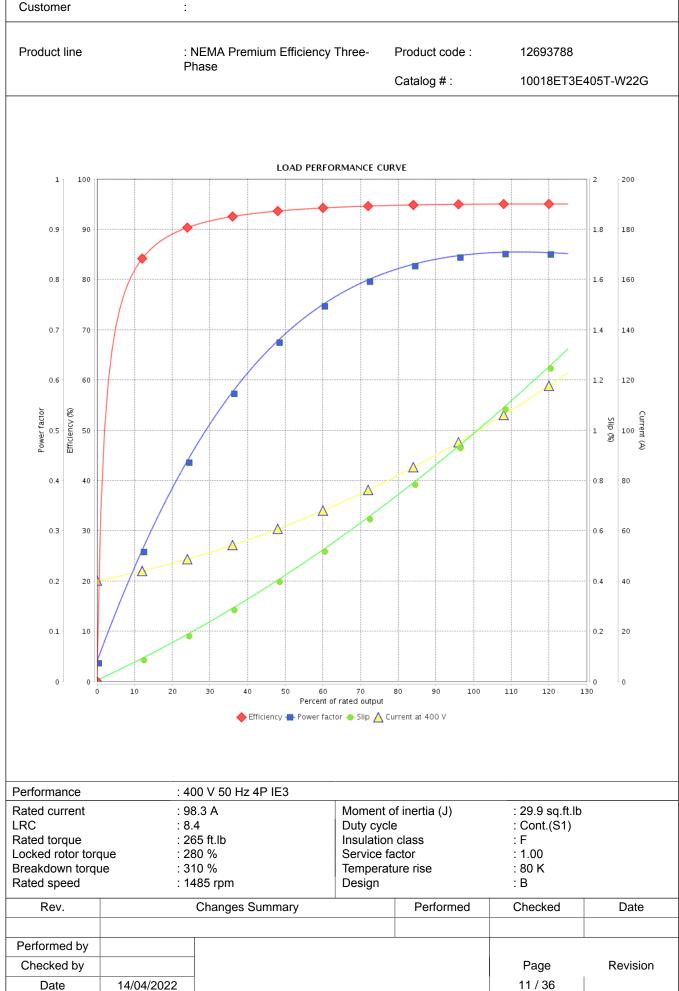


Customer



Three Phase Induction Motor - Squirrel Cage

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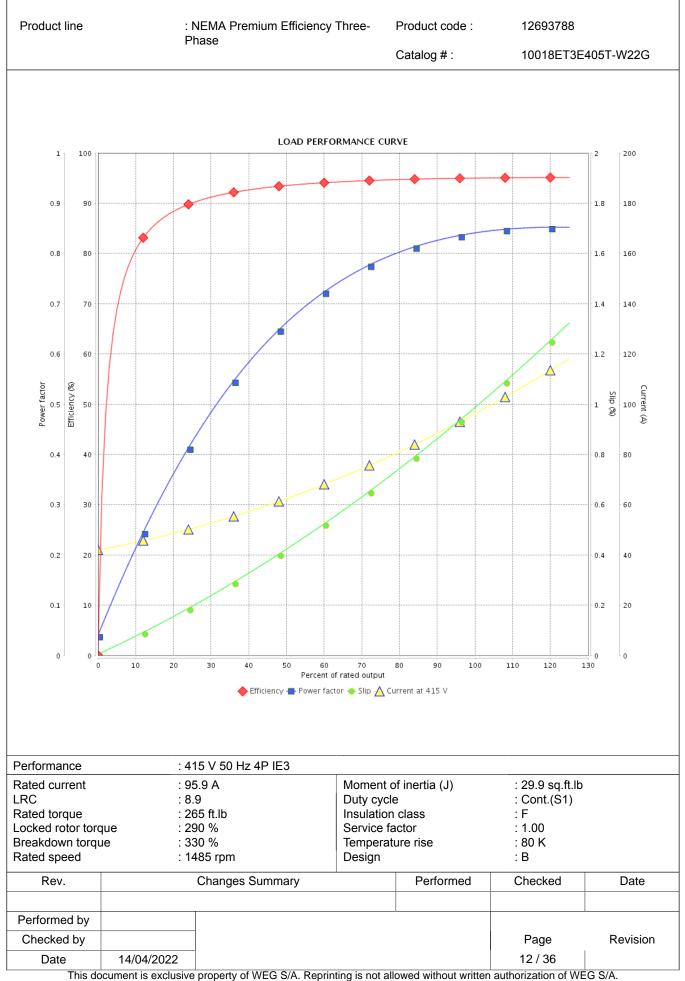
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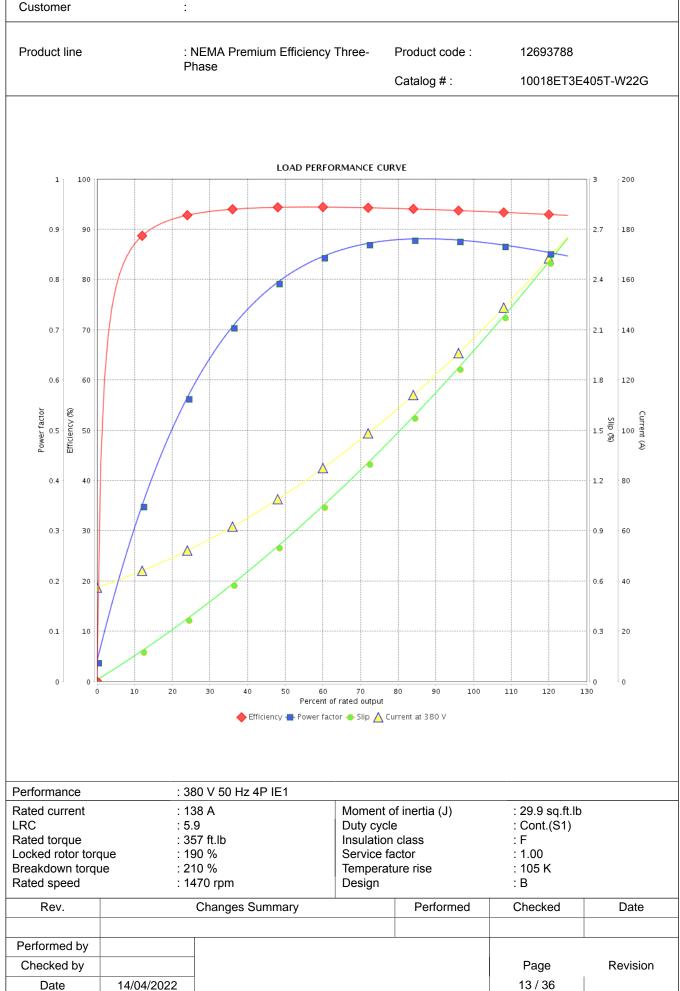


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Three Phase Induction Motor - Squirrel Cage

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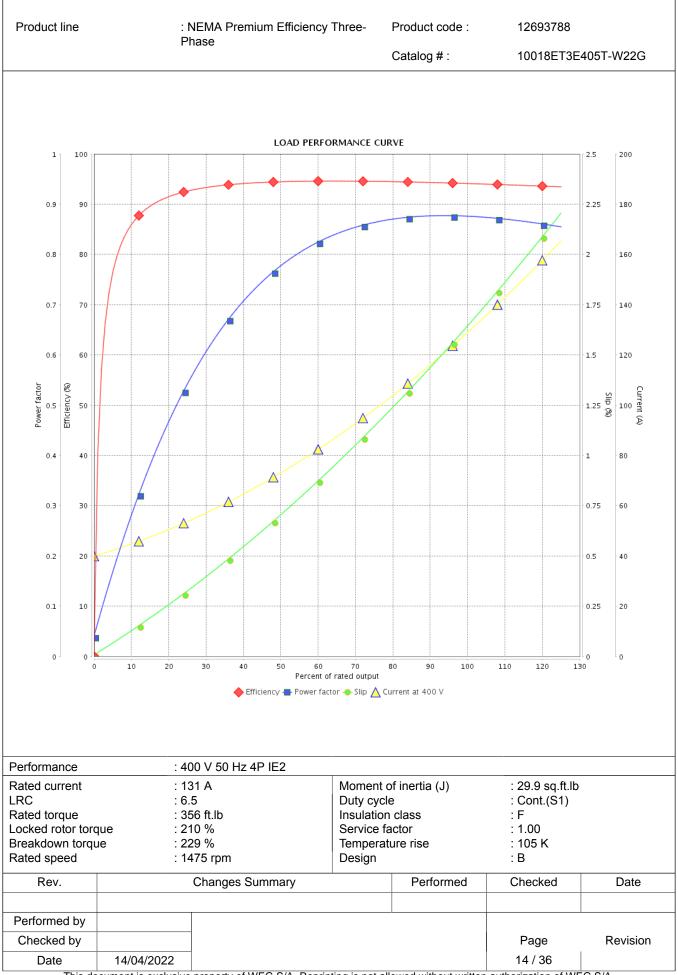
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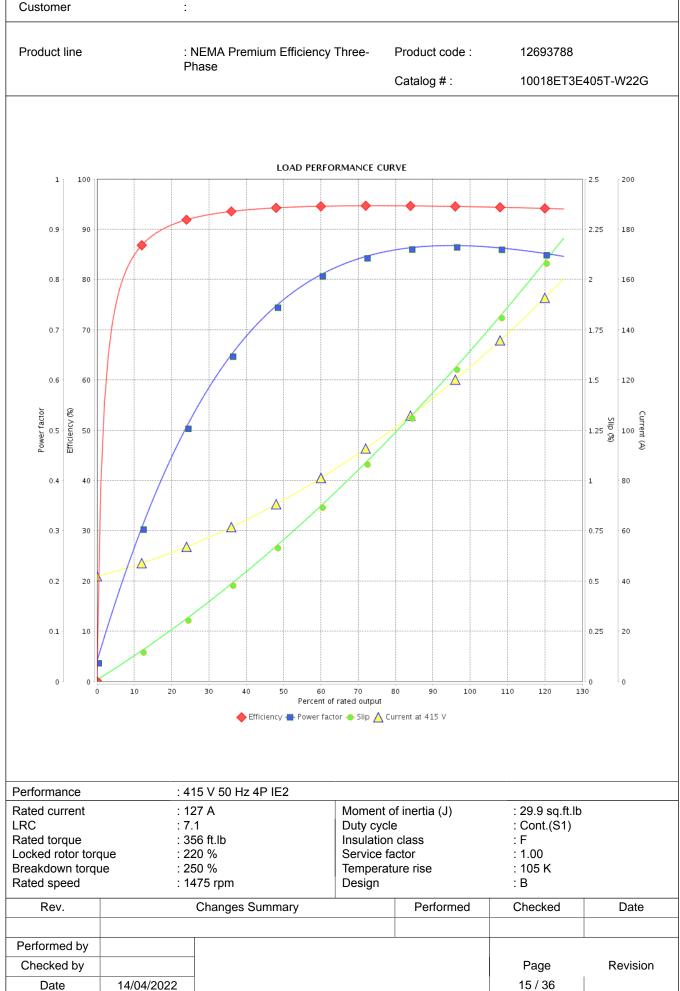


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Three Phase Induction Motor - Squirrel Cage

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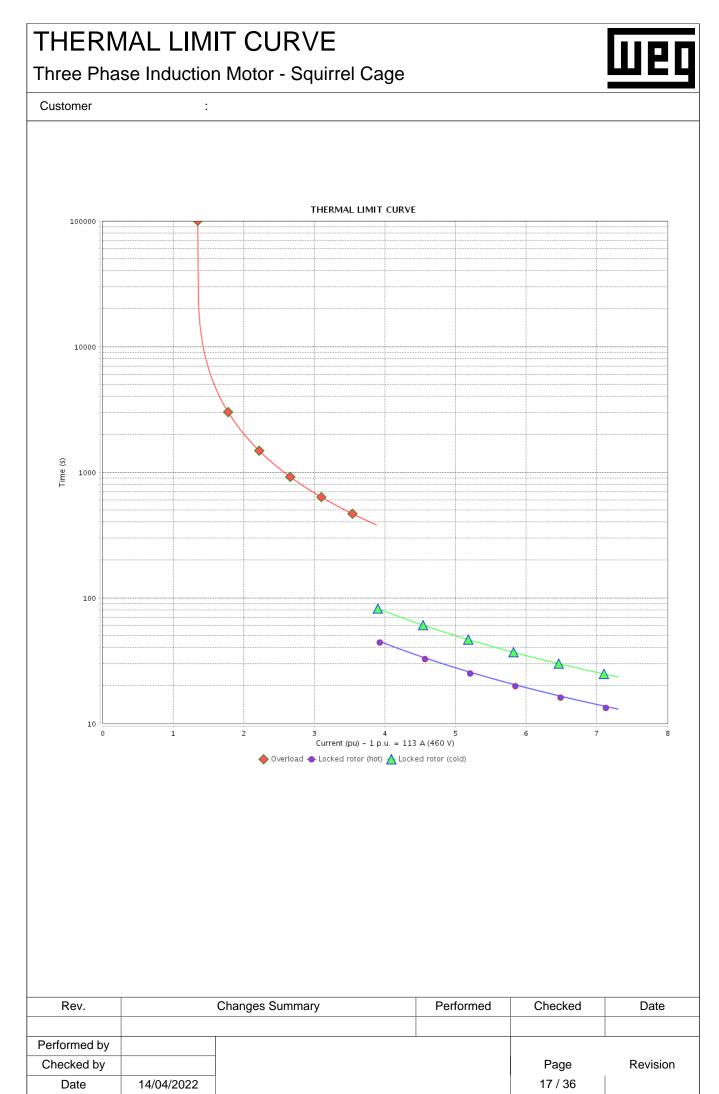
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THERMAL LIMIT CURVE						
Three Pha	se Induction	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	12693788	
		hase		Catalog # :	10018ET3E4	05T-W22G
Performance	. 2	30/460 V 60 Hz 4P				
Rated current	: 2:	26/113 A		f inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	ue : 24 Je : 29	.3 95 ft.lb 40 % 60 % 780 rpm	Duty cycle Insulation Service fa Temperate Design	e class ictor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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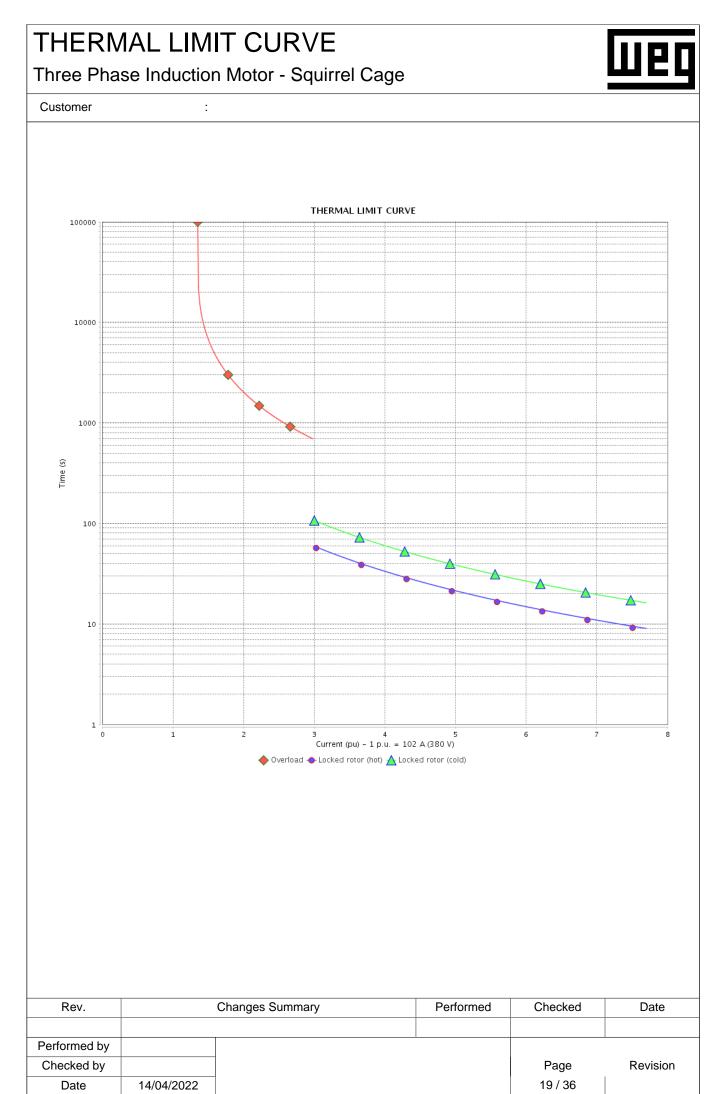


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage		l	
Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	12693788	
	I	liase		Catalog # :	10018ET3E4	05T-W22G
Performance		80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 2 iue : 2 ie : 2 : 1	02 A .7 65 ft.lb 60 % 80 % 485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
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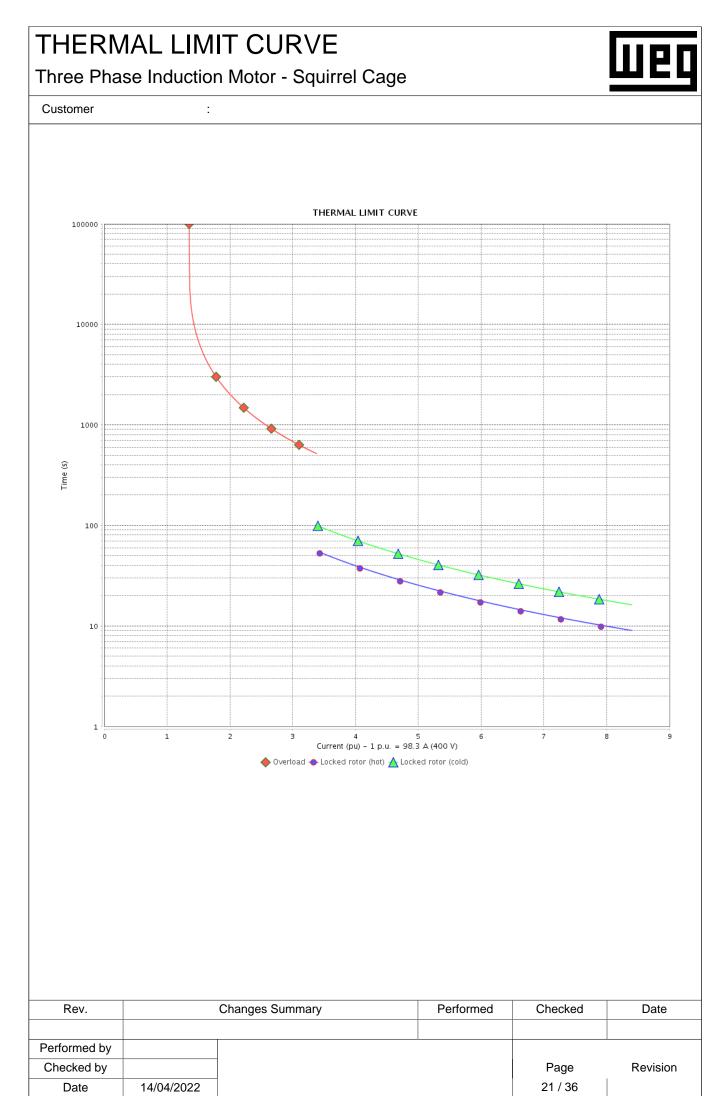


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	12693788	
				Catalog # :	10018ET3E4	05T-W22G
Performance		00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 2 jue : 2 ie : 3	8.3 A .4 65 ft.lb 80 % 10 % 485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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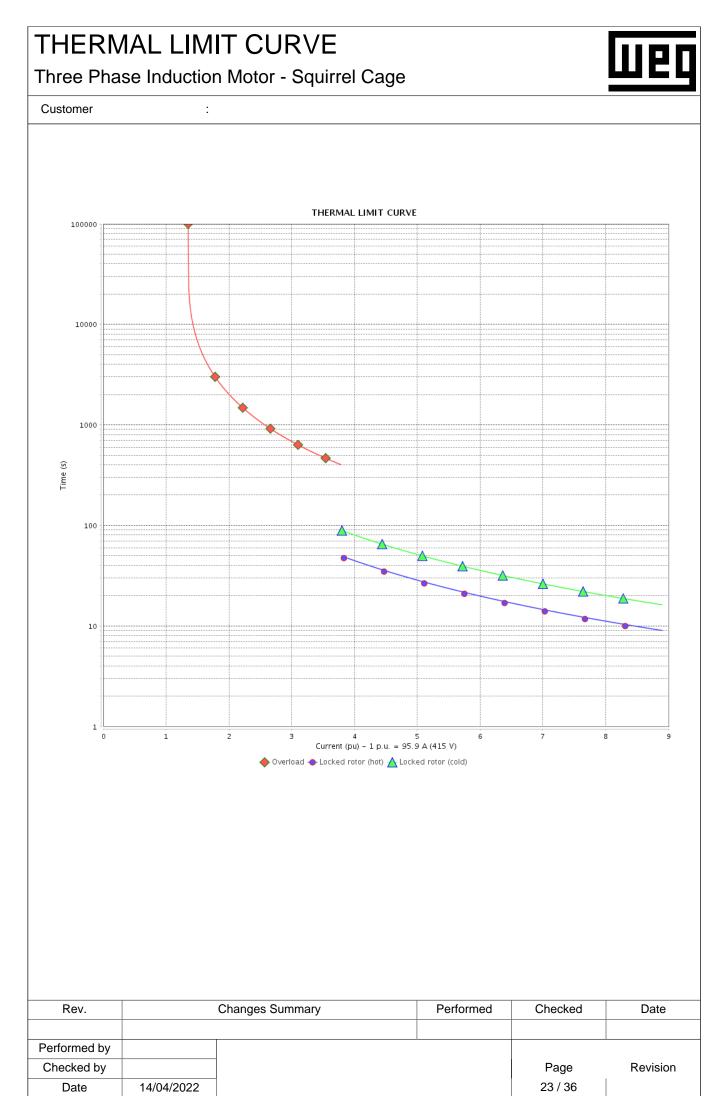


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсч
Customer	:					
Product line		NEMA Premium Efficiency T hase	Three-	Product code :	12693788	
				Catalog # :	10018ET3E4	05T-W22G
Performance		15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 8 : 2 jue : 2 ie : 3	5.9 A .9 65 ft.lb 90 % 30 % 485 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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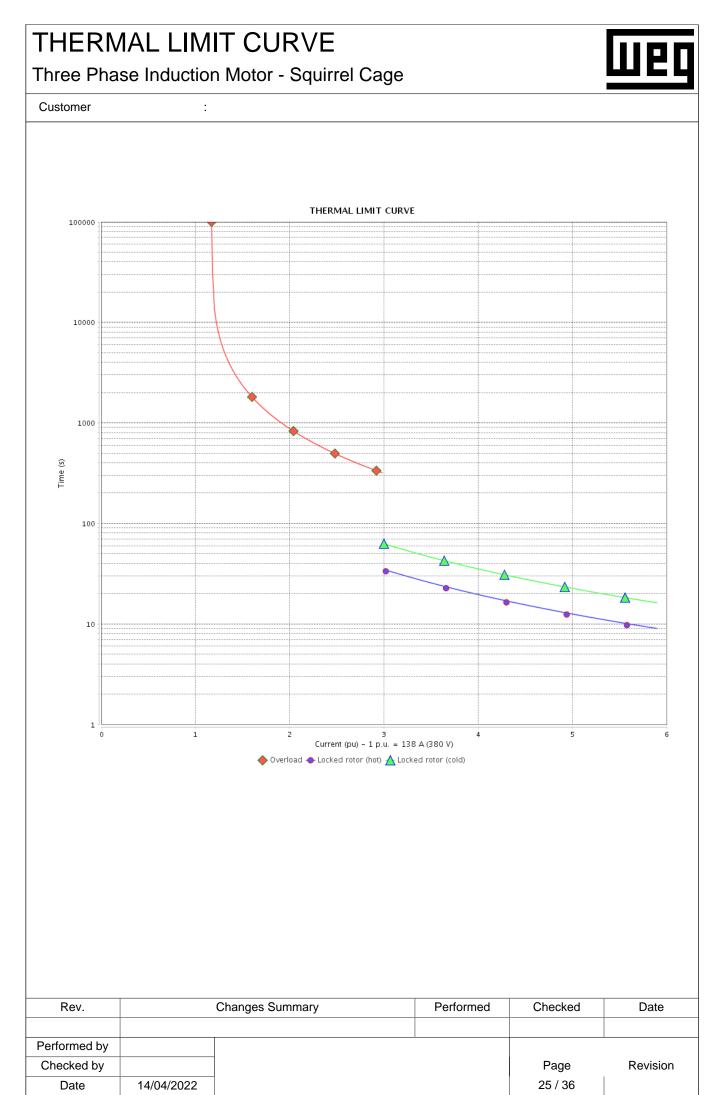


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Three Pha	se Inductio	n Motor - Squirrel	Cage			
Customer	:					
Product line		NEMA Premium Efficiency ` 'hase	Three-	Product code :	12693788	
	1	liase		Catalog # :	10018ET3E4	05T-W22G
Performance		80 V 50 Hz 4P IE1	Managata	finantia		
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 3 jue : 1 ie : 2	38 A .9 57 ft.lb 90 % 10 % 470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant Rev.	: 	Changes Summary		Performed	Checked	Date
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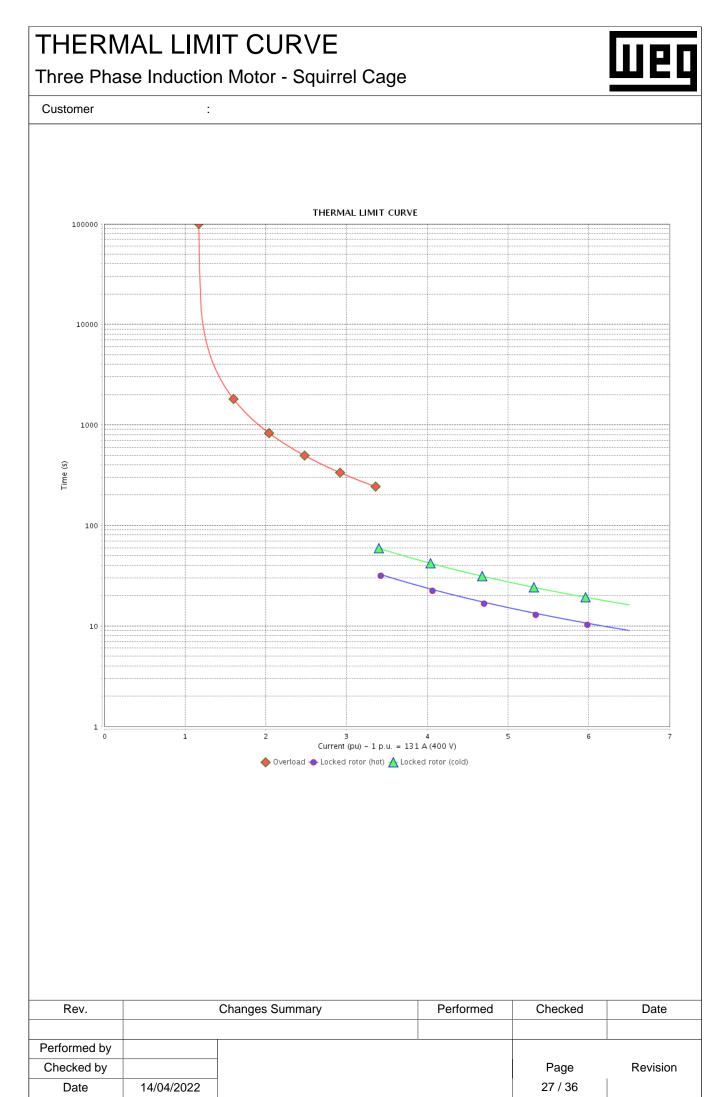


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			
Customer	:					
Product line		NEMA Premium Efficiency [·] hase	Three-	Product code :	12693788	
	1	nase		Catalog # :	10018ET3E4	05T-W22G
Performance		00 V 50 Hz 4P IE2		6 1 1 1		
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 3 iue : 2 ie : 2 : 1	31 A .5 56 ft.lb 10 % 29 % 475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant						
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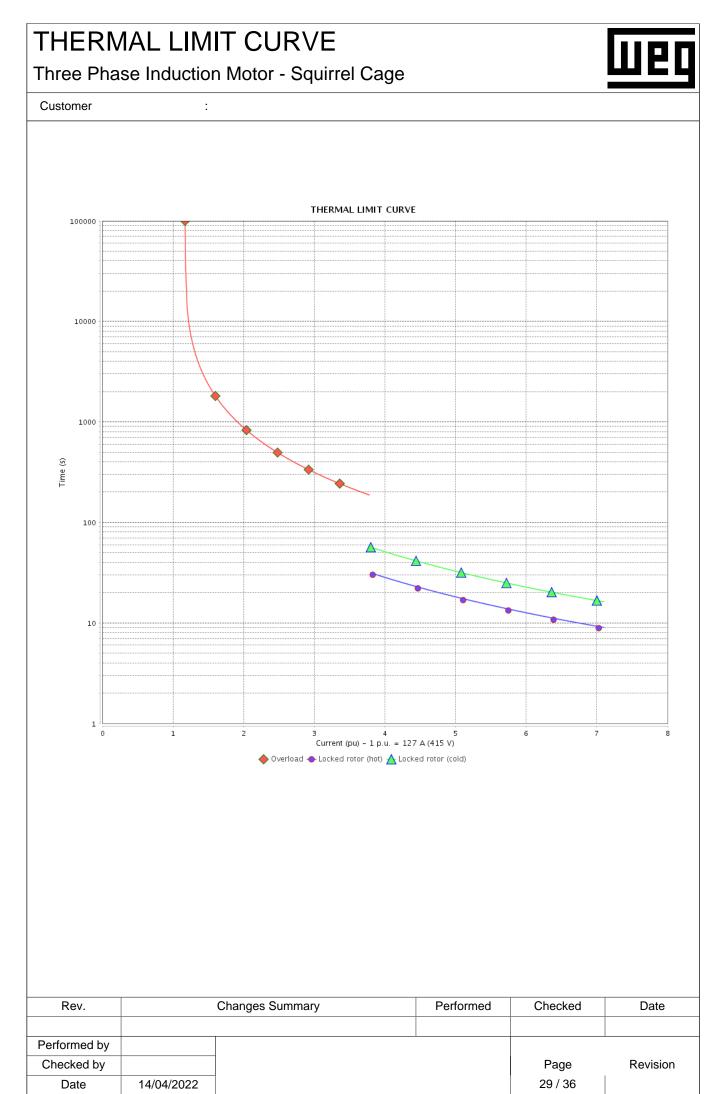


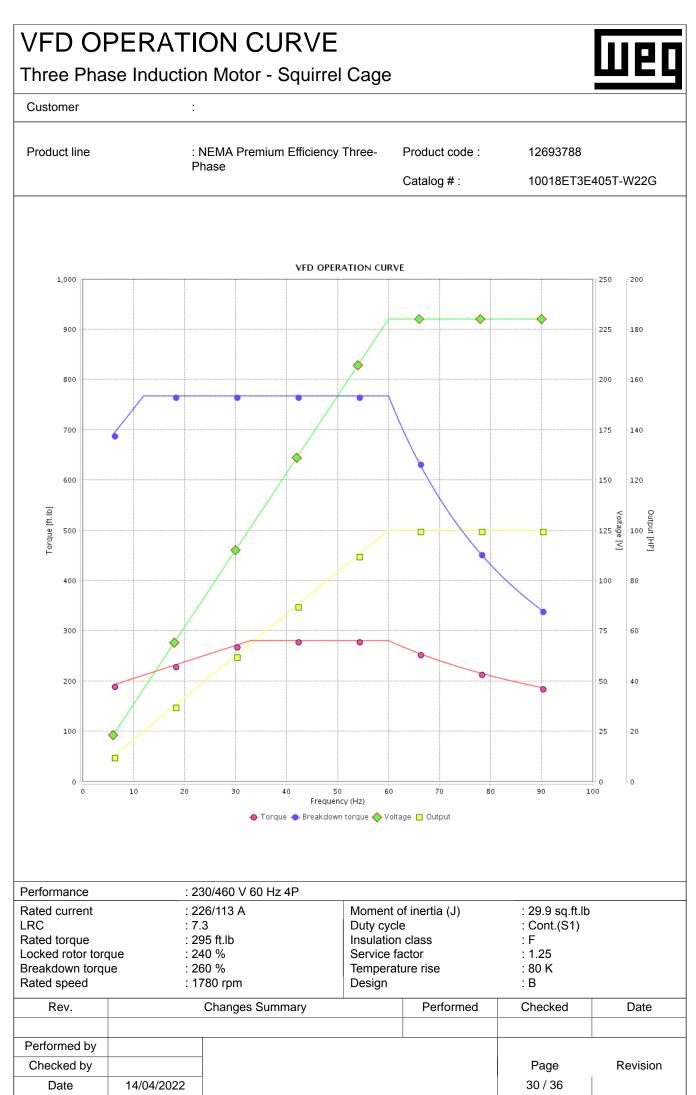
THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage		l	
Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12693788 10018ET3E4	05T W22C
					1001021324	001-11220
- <i>(</i>						
Performance Rated current		15 V 50 Hz 4P IE2 27 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 3 que : 2 ue : 2		Duty cycle Insulation Service fa Temperatu Design	e class ctor	: Cont.(S1) : F : 1.00 : 105 K : B	
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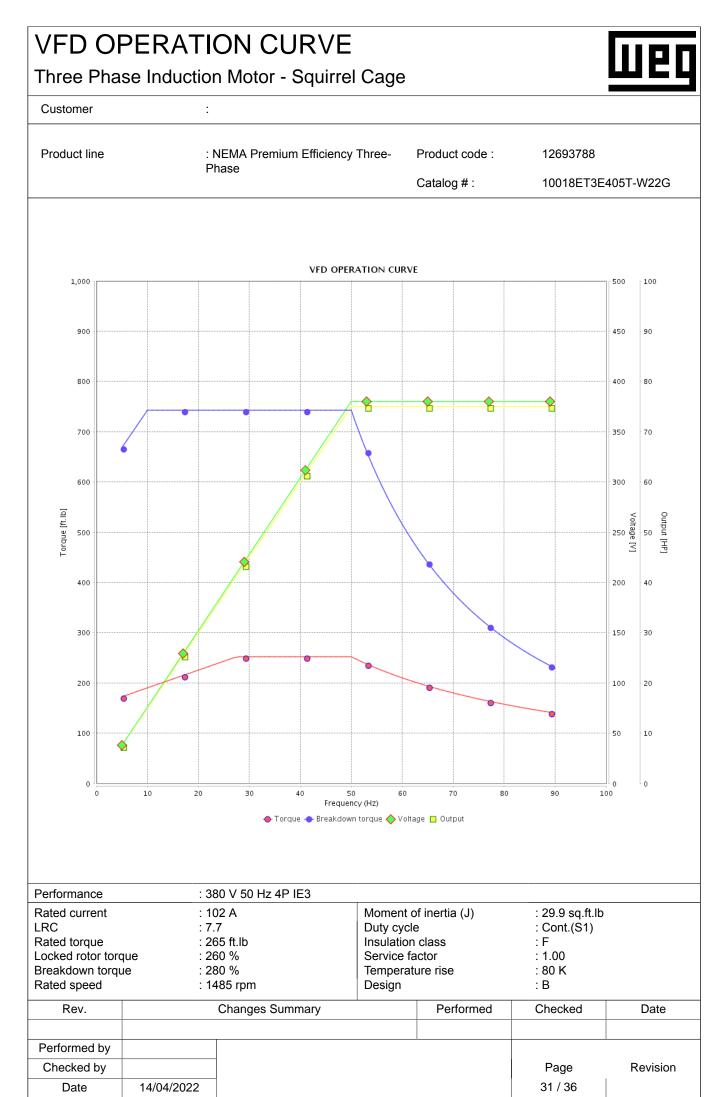
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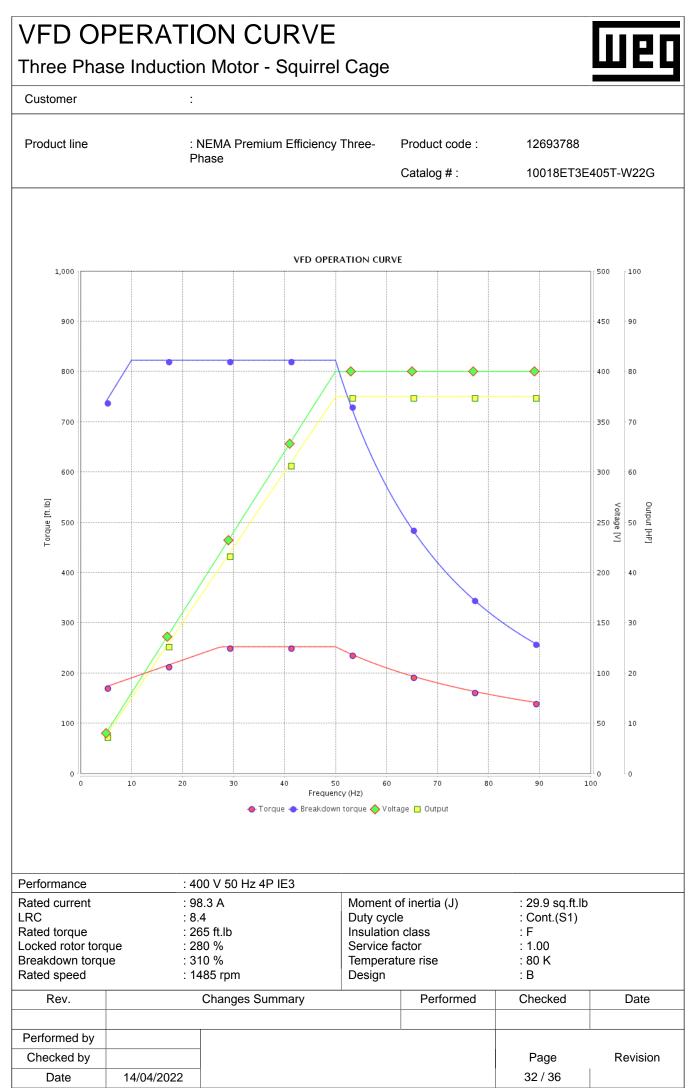
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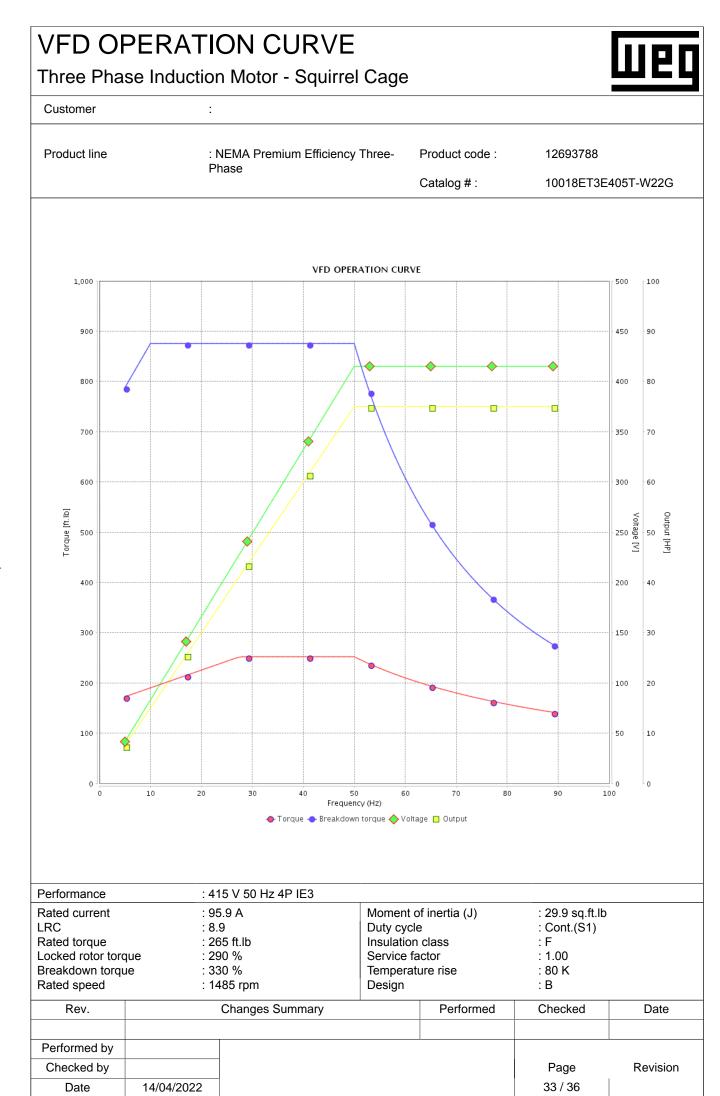
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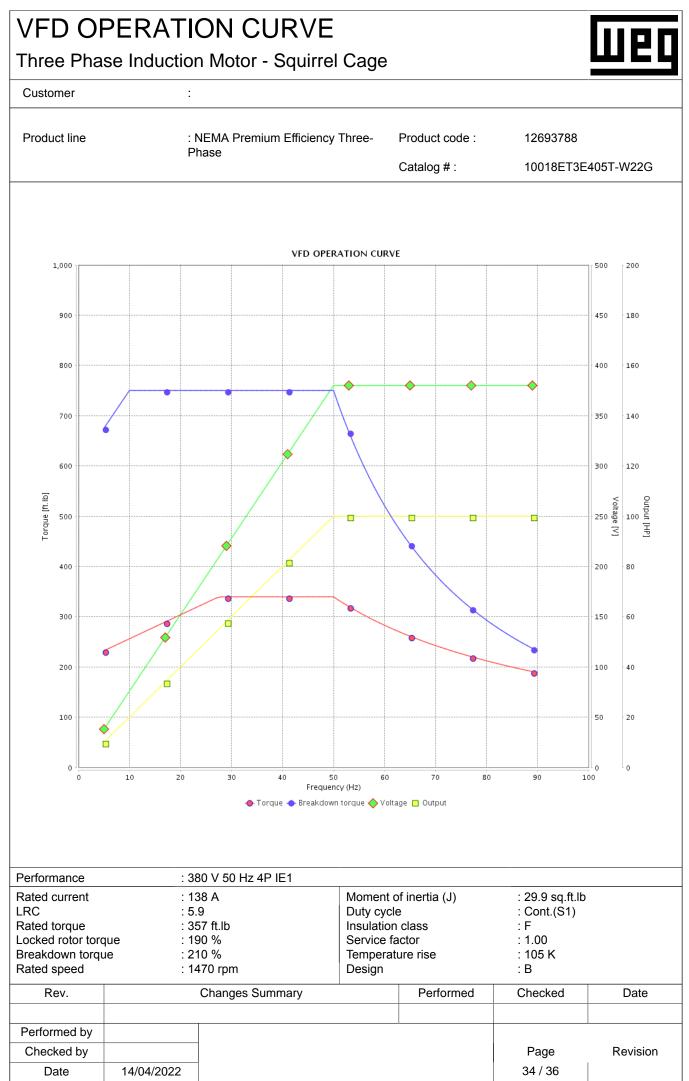


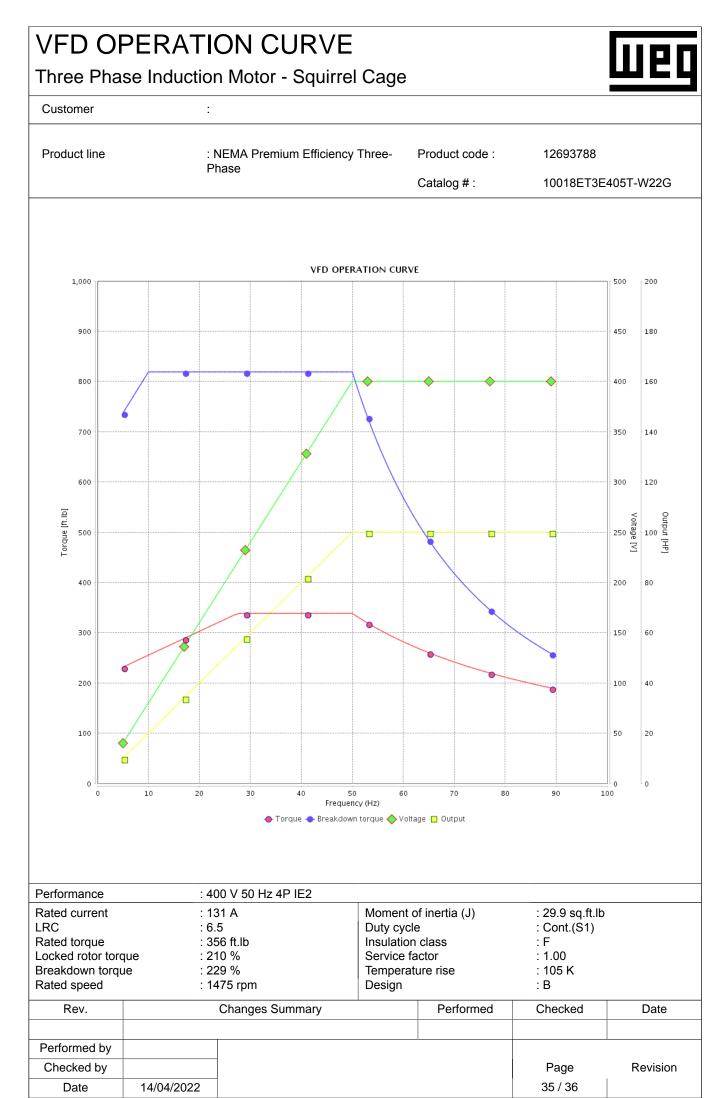


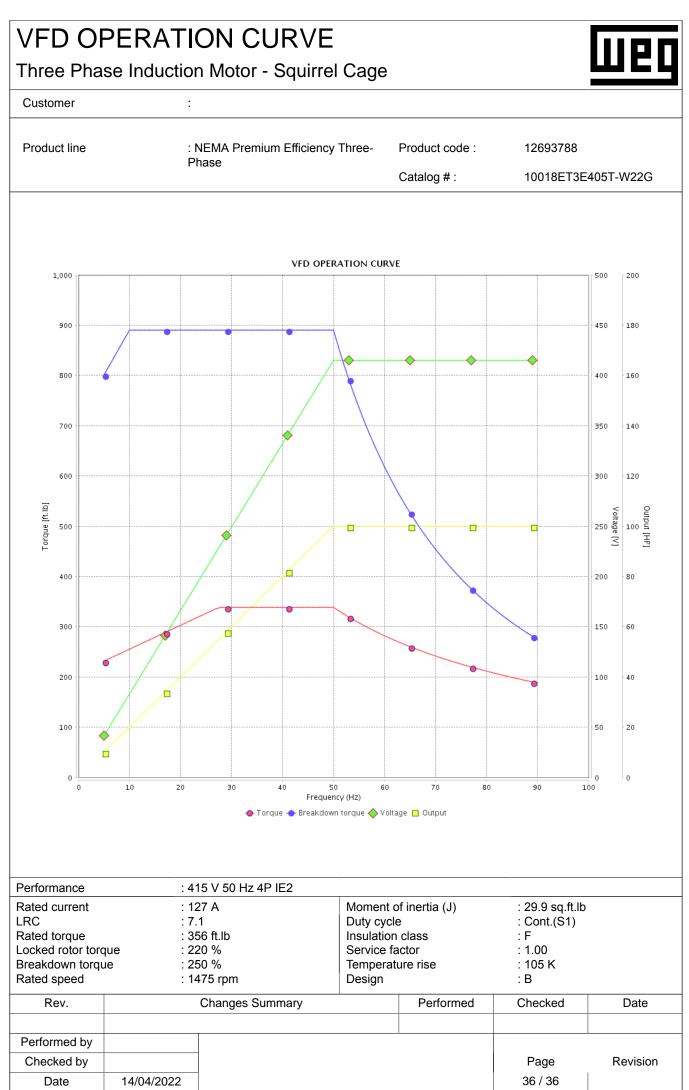


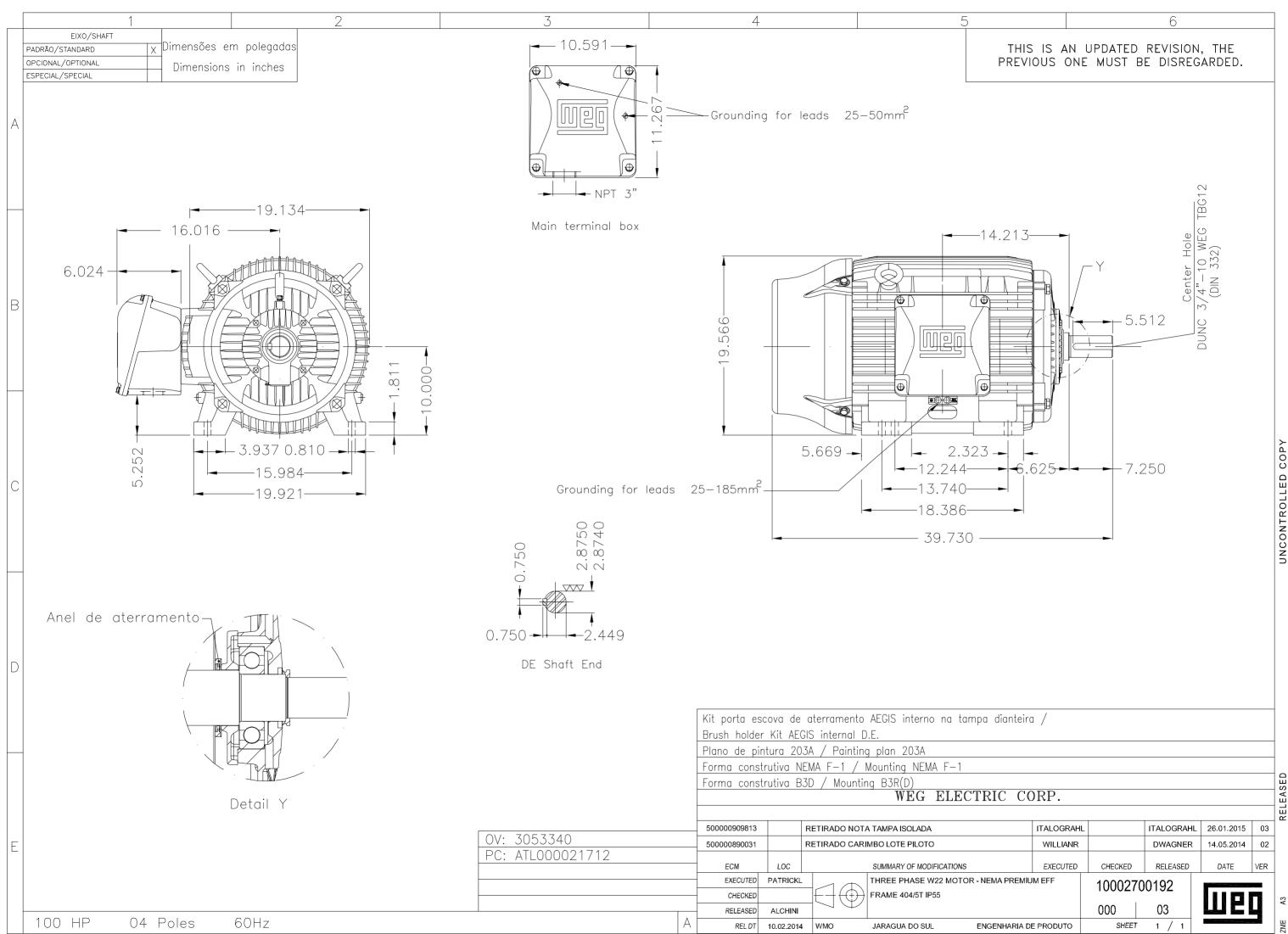












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8

Inverter Duty Motor Severe Duty 60Hz: For use on PWM: VT 1000:1, CT 20:1, 1.00SF

MEXIC 788	PH3 60Hz	Fr. 404/5T 1000m.a.s.l. IP55 TEFC 1170lb	- - - - - - - - - -
M	V 230/460	A 226/113	- דון פון און דו פון פון וו נוע גון גון גון גון און
26	HP 100	kW 75	ΔΔ Ι.Σ΄ Ι.Ξ΄ Ι.Ι΄ Δ Ι.Σ΄ Ι.Ξ΄ Ι.Ι΄
MADE IN 12693	SF 1.25	SFA 283/141	208-230V 380//460V
M∧	RPM 1780	PF 0.87	<u> </u>
	AMB 40°C	INS cl. F DT80K NEMA NOM EFF 95.4%	"Щ → 6314-C3 (27g)
	DUTY CONT.	DES B Code H	WOBIL POLYREX EM (10000h)
	USABLE @208V	245A SF 1.10 SFA 270	
· .	100HP 75kW	50Hz 380V 138A 1470RPM SF 1.00 EFF 93.6% (IE1)	