DATA SHEET

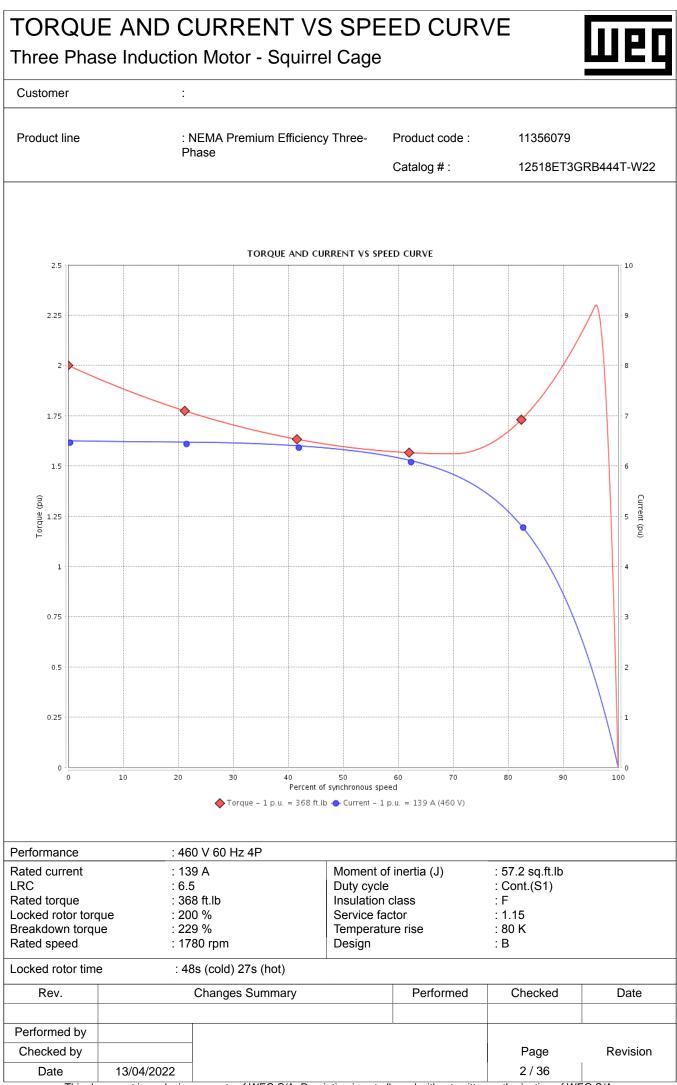
Three Phase Induction Motor - Squirrel Cage

:

Customer

Product line			mium Efficien	cy Three-	Product code	e: 11	11356079		
		Phase			Catalog # :	12	12518ET3GRB444T-W22		
Frame Insulation class		: 444/5T : F			g method		C411 - TEFC		
Duty cycle		: F : Cont.(S1)		Mount Rotatio			oth (CW and	CCW	
Ambient tempera	iture	: -20°C to +	40°C		g method		Direct On Line	,	
Altitude	liture	: 1000 m.a.			k. weight ³		656 lb		
Protection degree	9	: IP55	0		nt of inertia (J)		57.2 sq.ft.lb		
Design		: B			(-)				
Output [HP]		125	100	100	100	125	125	125	
Poles		4	4	4	4	4	4	4	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		460	380	400	415	380	400	415	
Rated current [A]		139	139	136	132	168	160	155	
. R. Amperes [A]		904	890	952	1003	857	912	961	
_RC [A]		6.5x(Code			7.6x(Code J)				
- 6 -1		G)	G)						
No load current [A	1	40.0	40.0	43.0	45.0	40.0	43.0	45.0	
Rated speed [RPM		1780	1480	1480	1485	1475	1475	1480	
Slip [%]	•	1.11	1.33	1.33	1.00	1.67	1.67	1.33	
Rated torque [ft.lb]		368	354	354	353	445	444	443	
Locked rotor torgu		200	200	229	240	160	180	190	
Breakdown torque		229	229	260	280	180	200	220	
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K	
_ocked rotor time		48s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	
		27s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	
Noise level ²		73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A	
	25%	94.9	94.7	94.5	94.1	95.3	95.3	94.9	
Efficiency (%)	50%	95.0	94.7	94.6	94.3	95.0	95.0	95.0	
	75%	95.4	95.1	95.1	95.1	95.0	95.0	95.0	
	100%	95.4	95.0	95.0	95.2	94.5	94.5	95.0	
	25%	0.52	0.50	0.47	0.44	0.58	0.54	0.52	
Dawar Fastar	50%	0.74	0.73	0.69	0.67	0.79	0.76	0.74	
Power Factor	75%	0.82	0.82	0.80	0.78	0.85	0.83	0.82	
	100%	0.85	0.86	0.84	0.83	0.86	0.86	0.85	
		Drive end	Non drive	end Founda	tion loads		1	1	
Bearing type		: NU-319 C			action	: 1	773 lb		
Sealing		: WSeal	WSea		ompression		429 lb		
Lubrication interv	al	: 5000 h	10000			-			
Lubricant amoun	t	: 45 g	34 g						
Lubricant type			I Polyrex EM						
Notes				<u> </u>					
NULES									
This revision repla	aces and car	ncel the previo	us one, which	These	are average va	alues based o	n tests with s	inusoidal	
must be eliminate		F	,		supply, subject				
(1) Looking the m	otor from the	e shaft end.		MG-1.					
(2) Measured at 1									
(3) Approximate v		t to changes a	after						
manufacturing pro									
(4) At 100% of full		Charrent	Sum		Deuteure			Data	
Rev.		Changes	Summary		Performe	ea Che	ecked	Date	
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Date	13/04/202						/ 36		

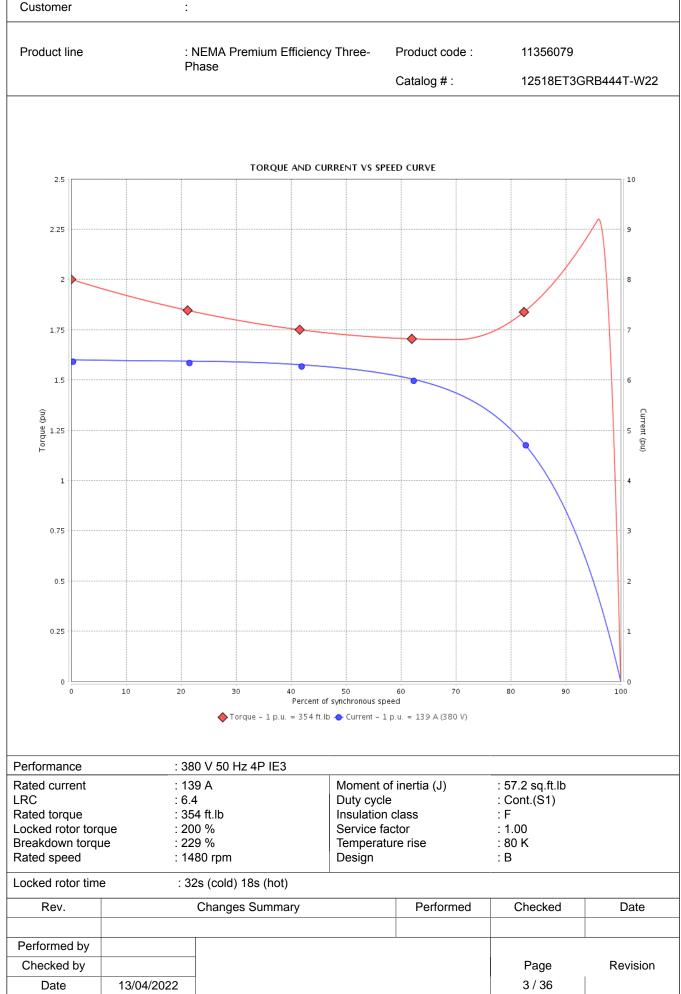
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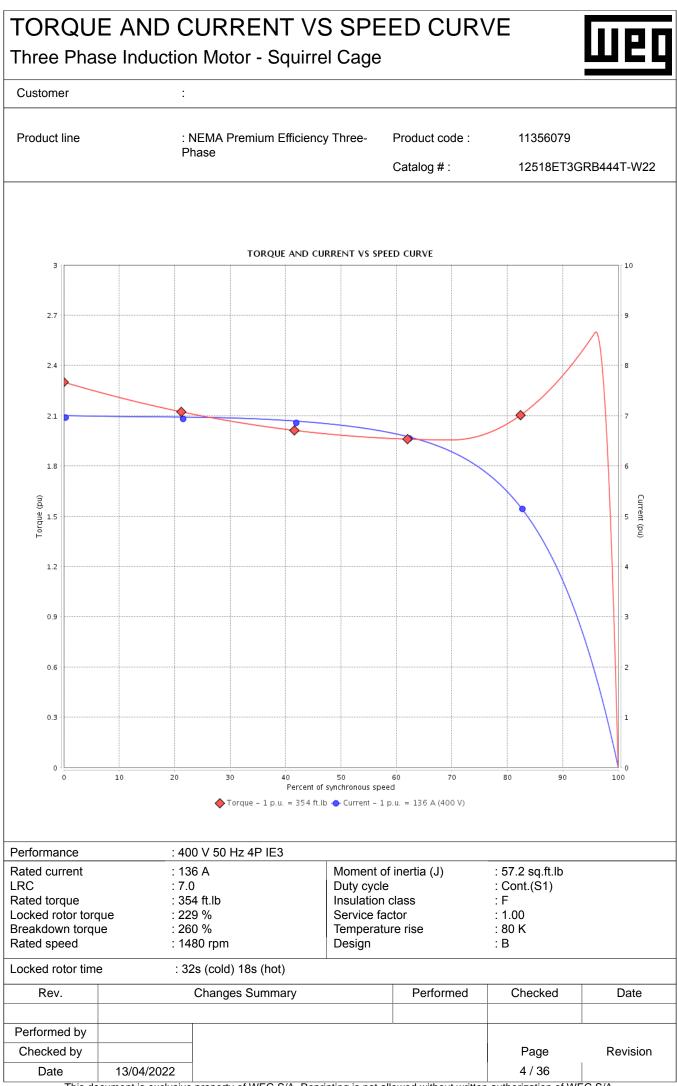
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



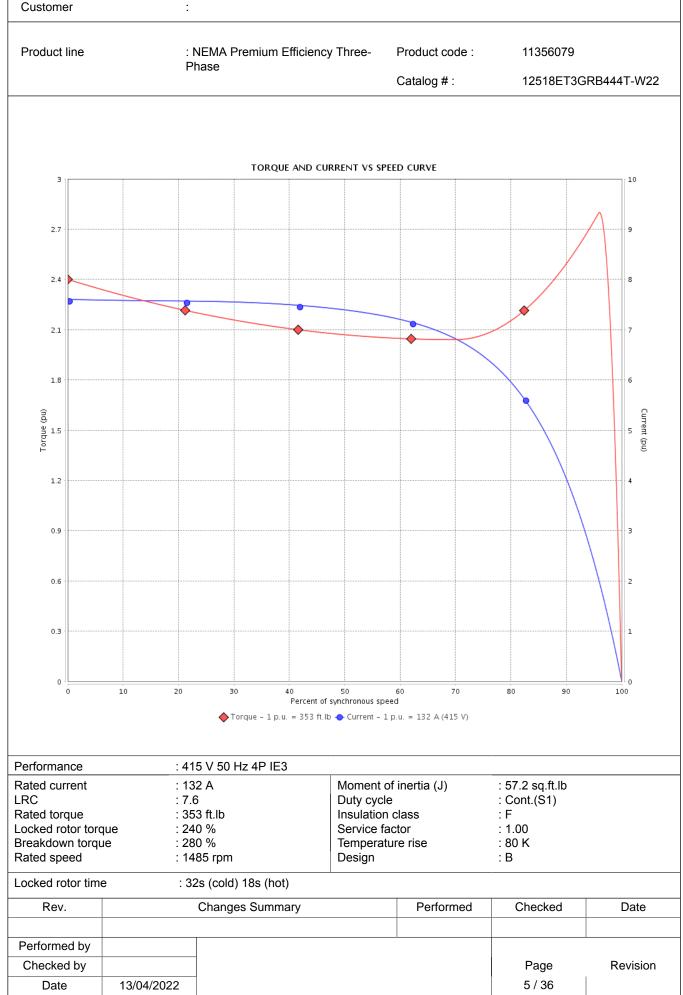
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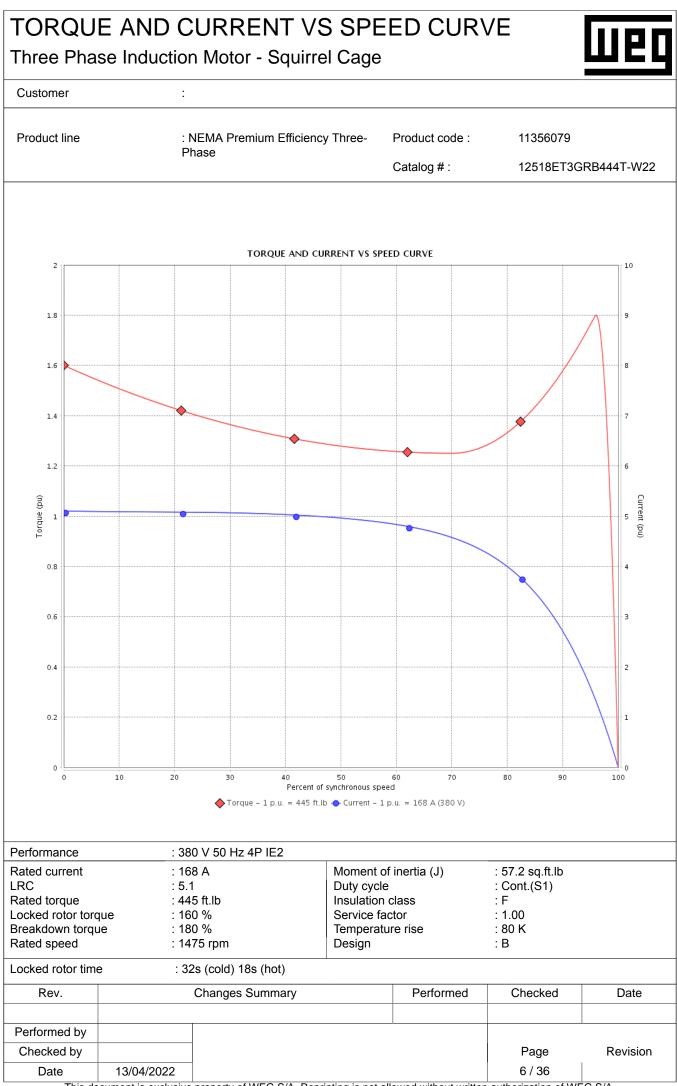
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



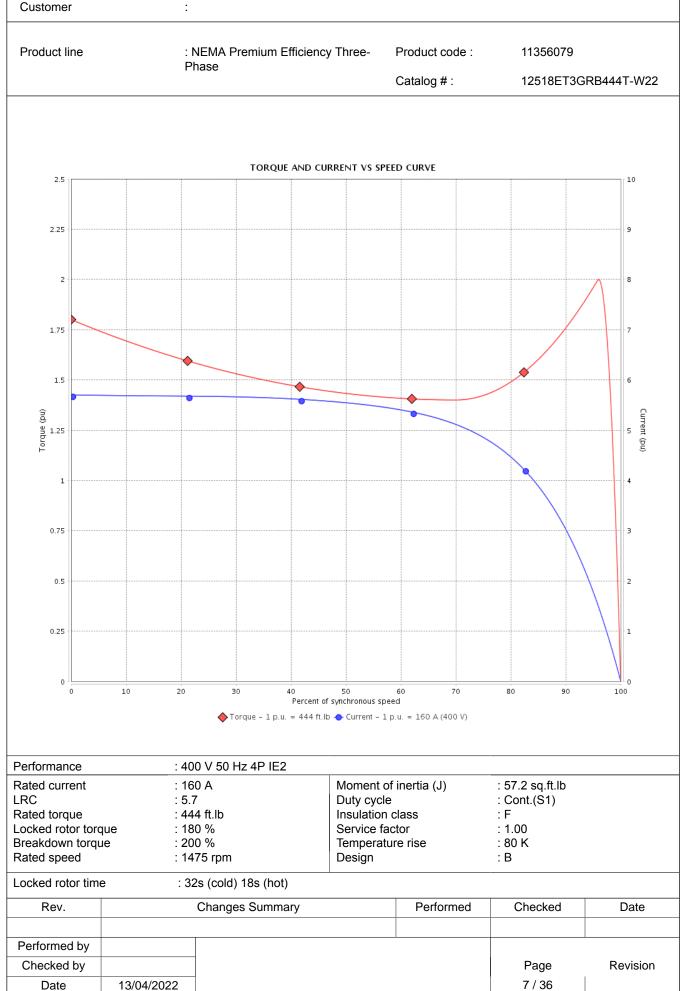
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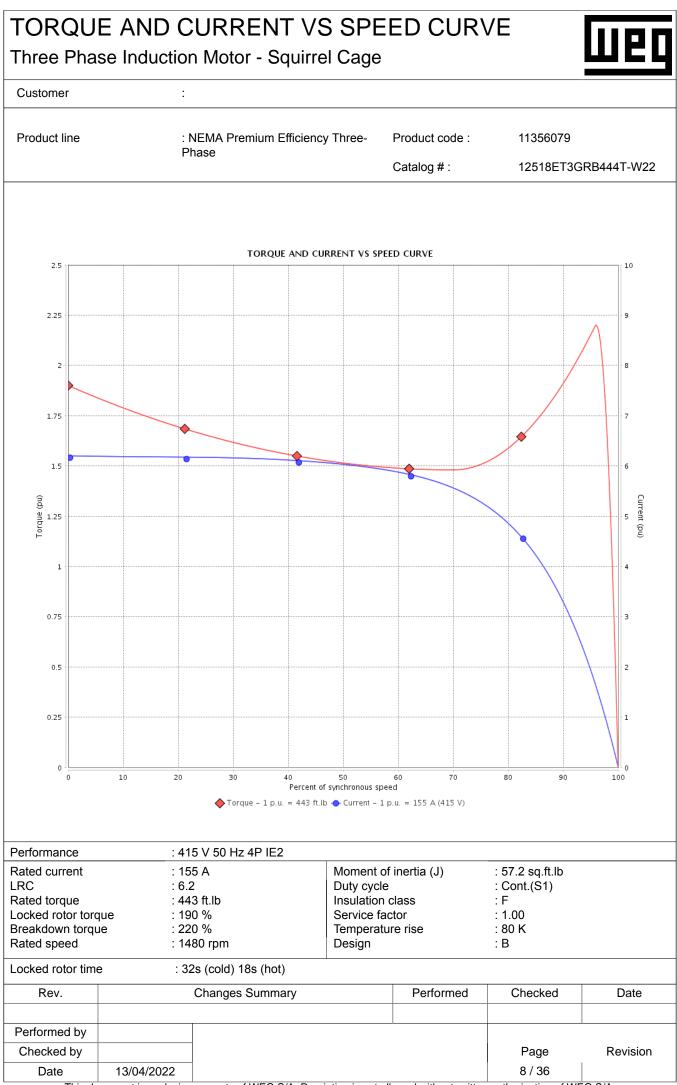
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer

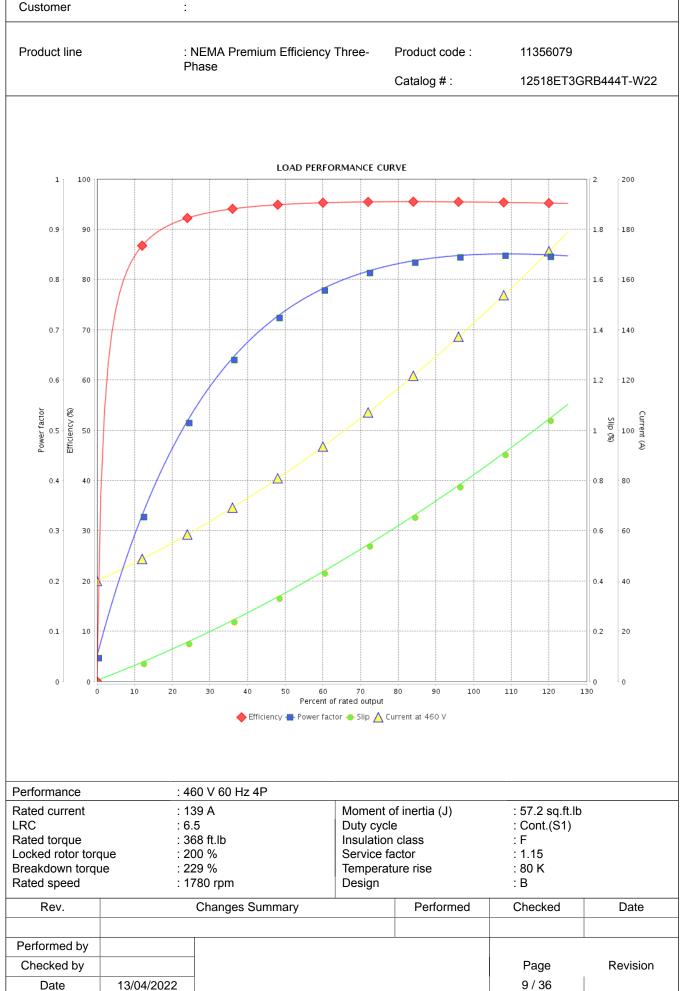


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Three Phase Induction Motor - Squirrel Cage

Customer



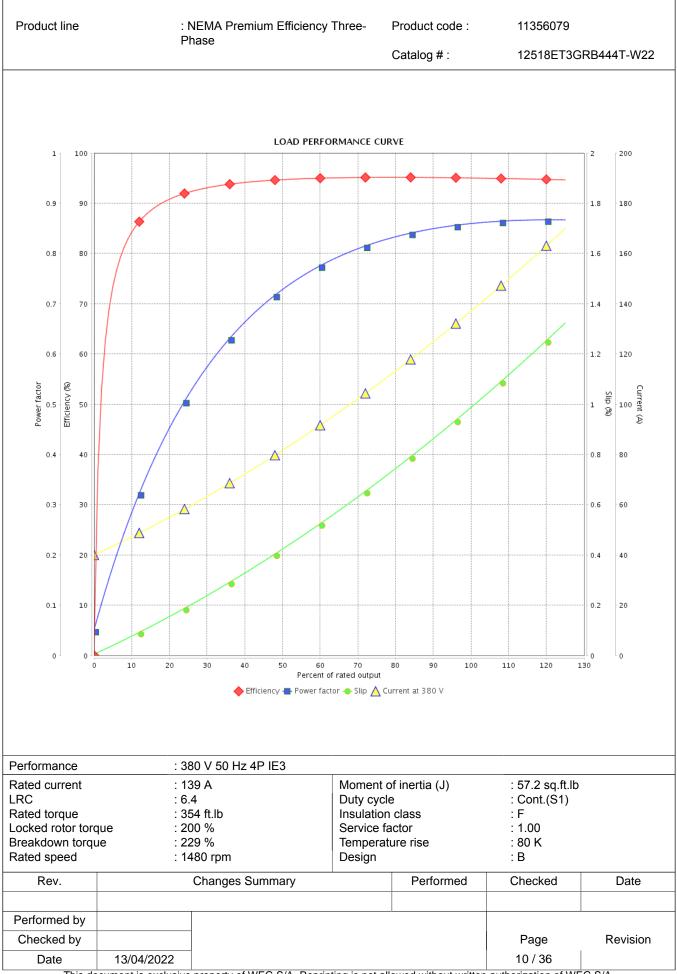
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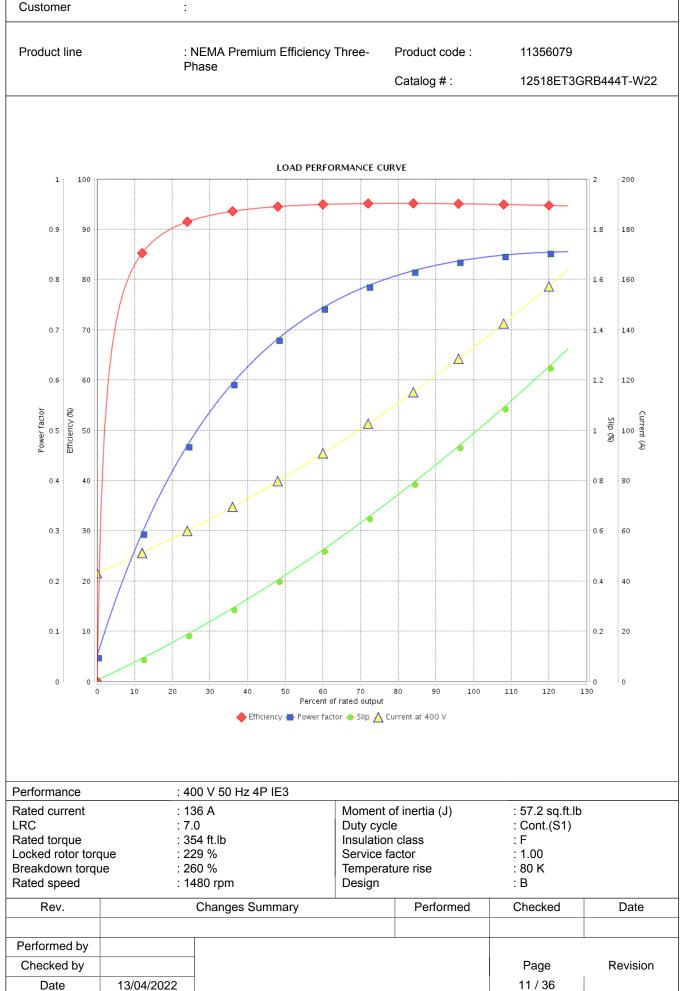


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



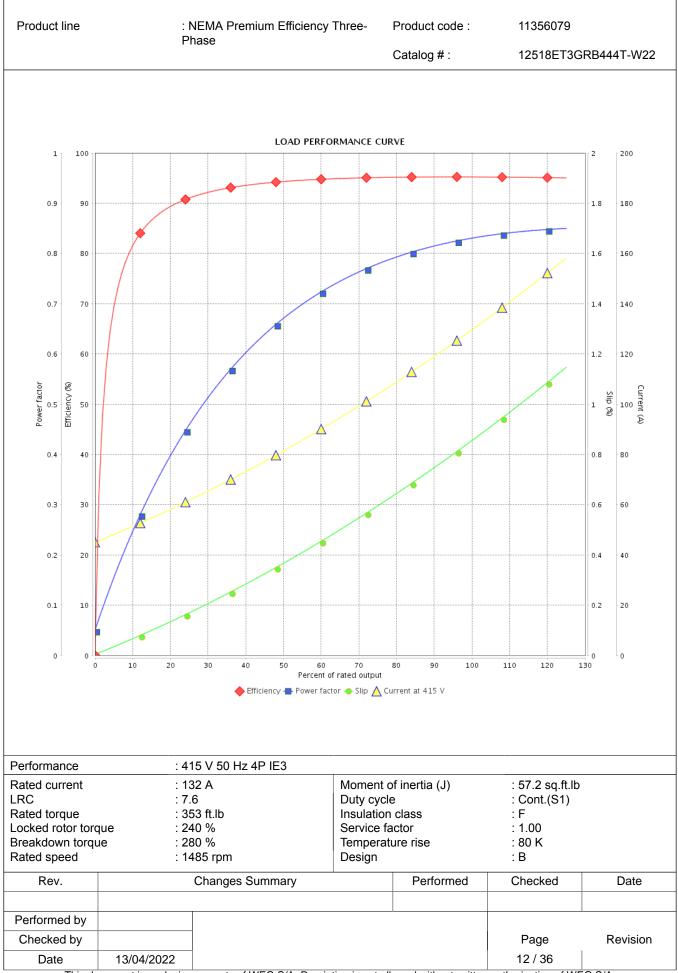
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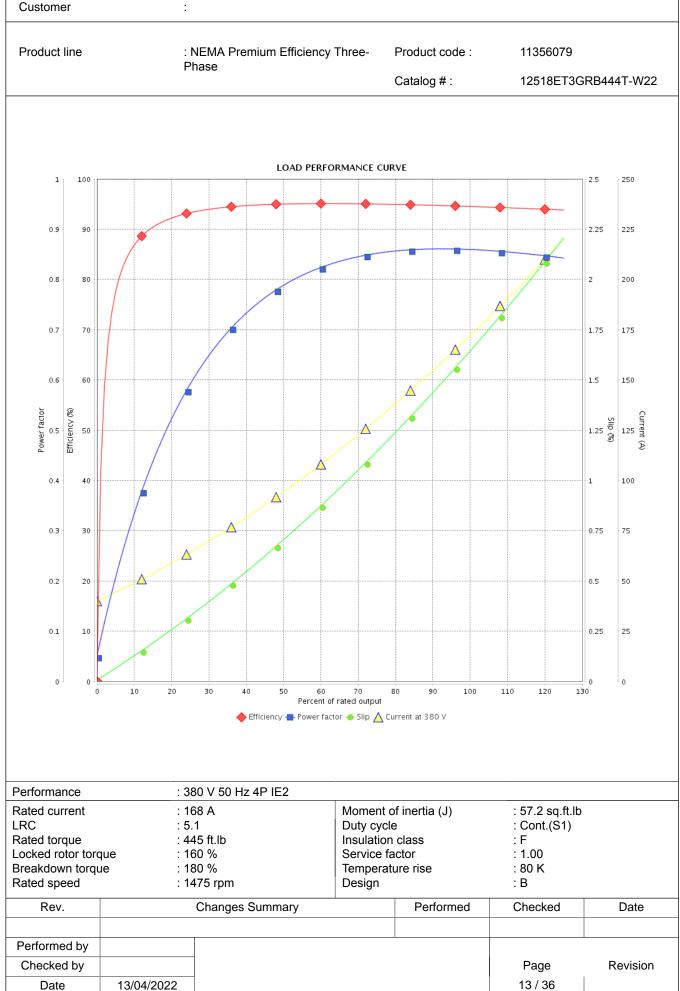


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Three Phase Induction Motor - Squirrel Cage

Customer



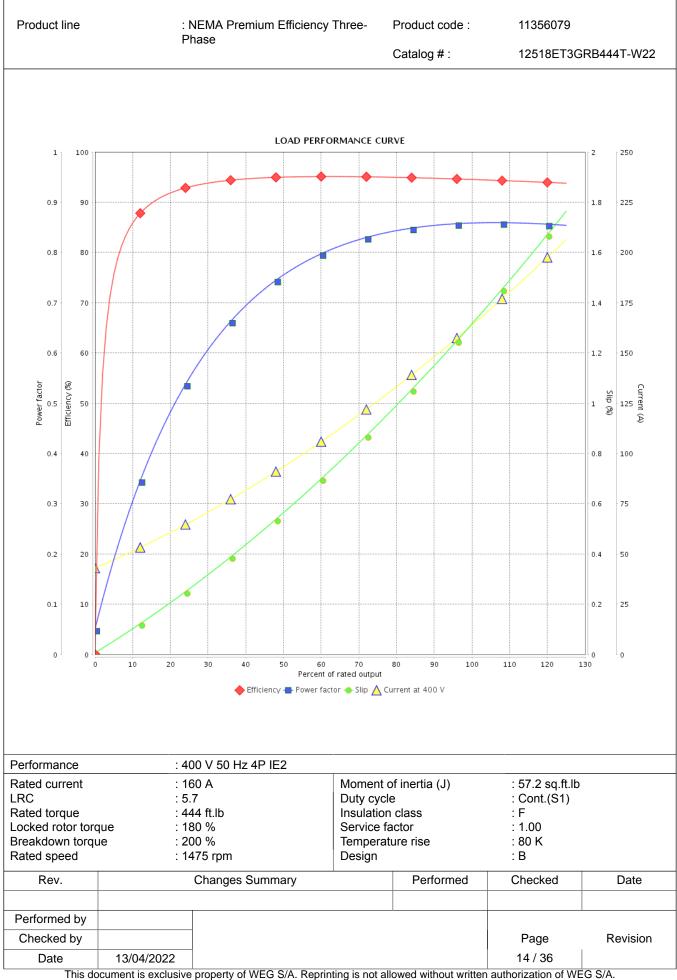
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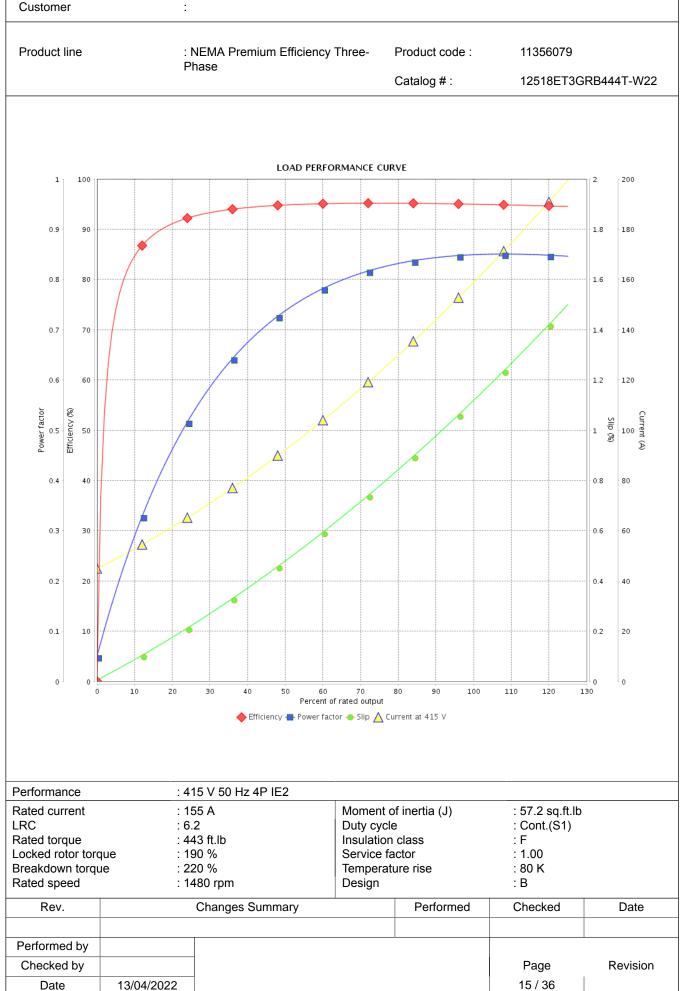


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Three Phase Induction Motor - Squirrel Cage

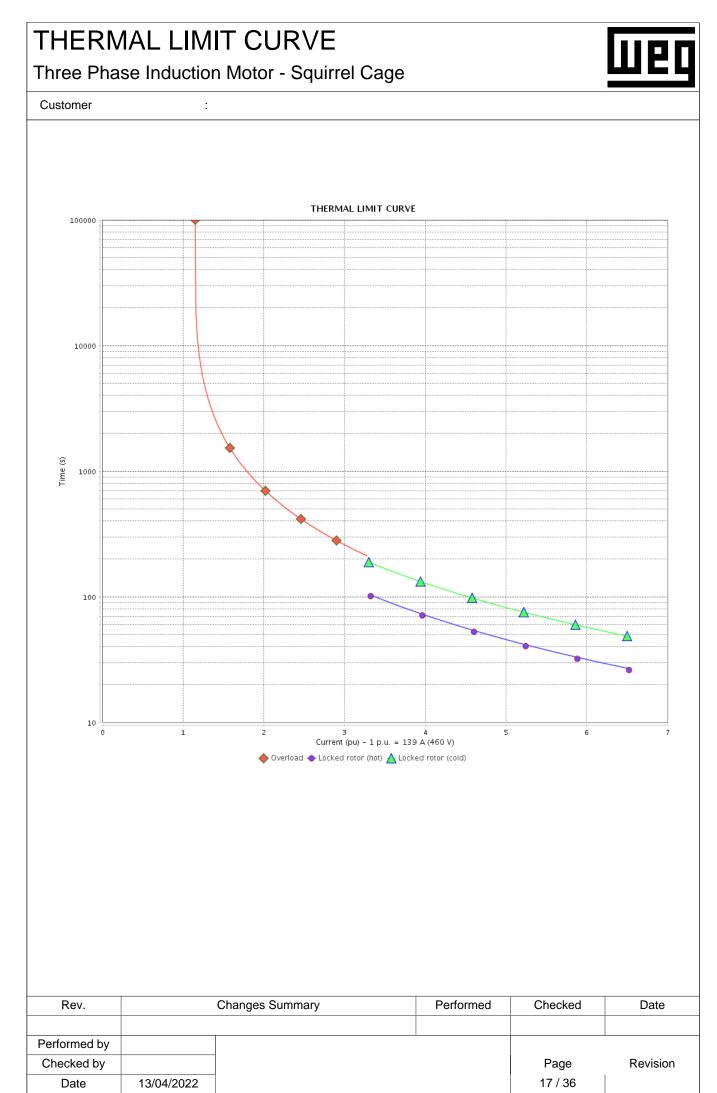
Customer



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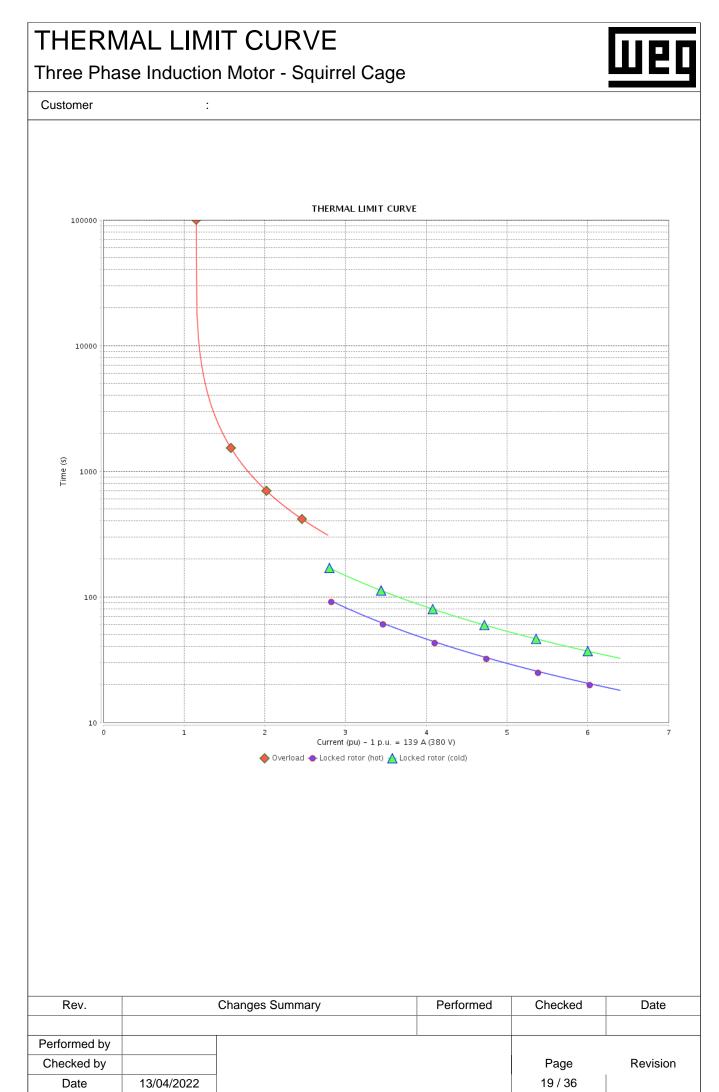
THERM	1AL LIN	MIT CURVE				Шео
Three Pha	se Induct	ion Motor - Squirrel	Cage			
Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11356079	
		Phase		Catalog # :	12518ET3G	RB444T-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torc	lue	: 139 A : 6.5 : 368 ft.lb : 200 %	Duty cycle Insulation Service fa	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed		: 229 % : 1780 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant Rev.	:	Changes Summary		Performed	Checked	Date

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Checked by					Page	Revision
Date	13/04/2022				16 / 36	
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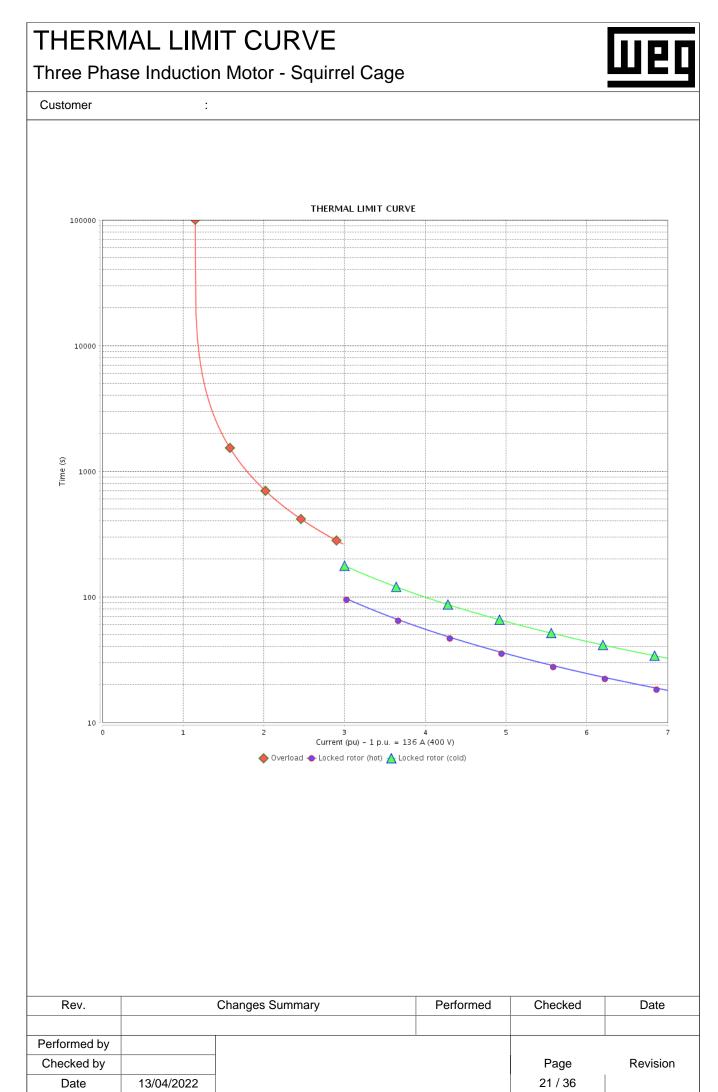
THERM	THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсч	
Customer	:						
Product line		NEMA Premium Efficiency T	Three-	Product code :	11356079		
	I	nase		Catalog # :	12518ET3G	RB444T-W22	
Performance	: 3	80 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 3 que : 2 Je : 2	39 A 54 554 ft.lb 00 % 29 % 480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant	t						
Cooling constant	t						
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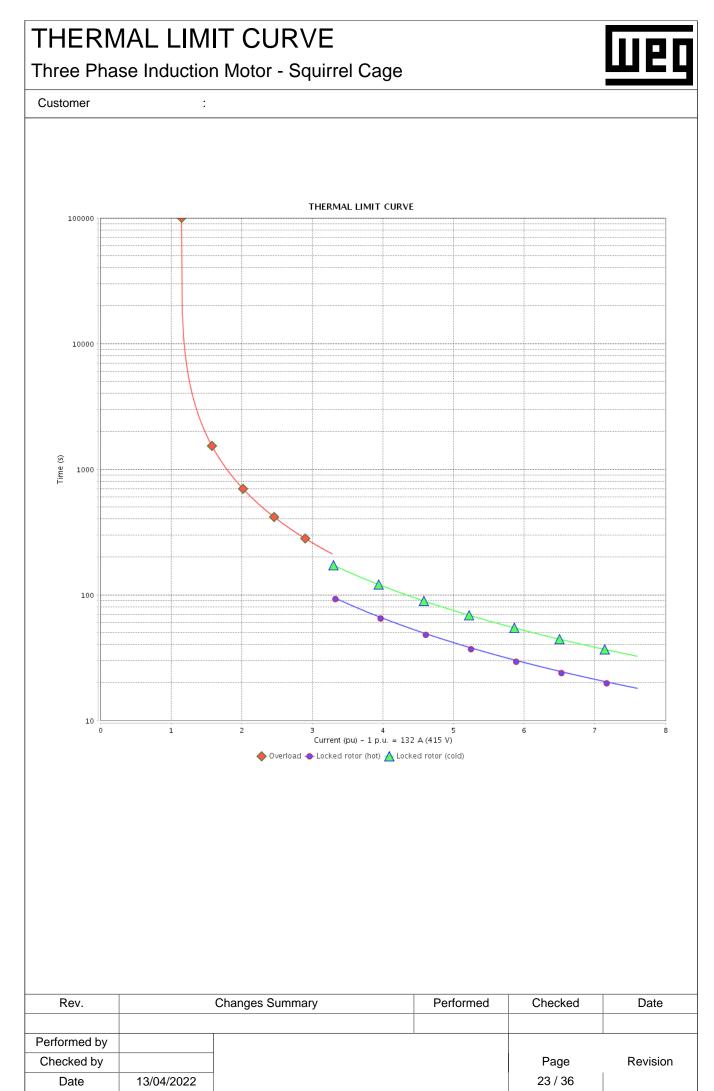
THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11356079 12518ET3G	RB444T-W22
Performance		00 V 50 Hz 4P IE3	Mamonta	finantia (1)	· F7 0 og ft lb	
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 3 que : 2 Je : 2	36 A .0 54 ft.lb 29 % 60 % 480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	t	Changes Summer		Dorforms - d	Charlie -	Data
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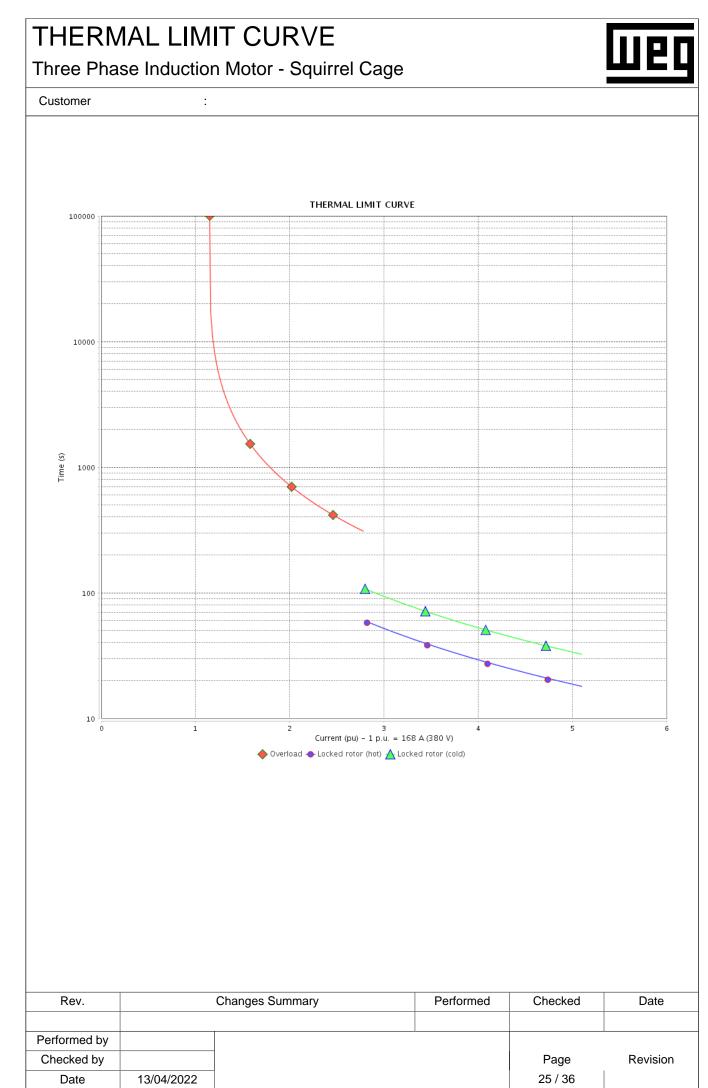
THERMAL LIMIT CURVE					
Three Phase Indu	uction Motor - Squirrel	Cage			Weq
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356079 12518ET3G	RB444T-W22
Performance	: 415 V 50 Hz 4P IE3			57 0 (11)	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 132 A : 7.6 : 353 ft.lb : 240 % : 280 % : 1485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ictor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant	Changes Summers		Performed	Checked	Data
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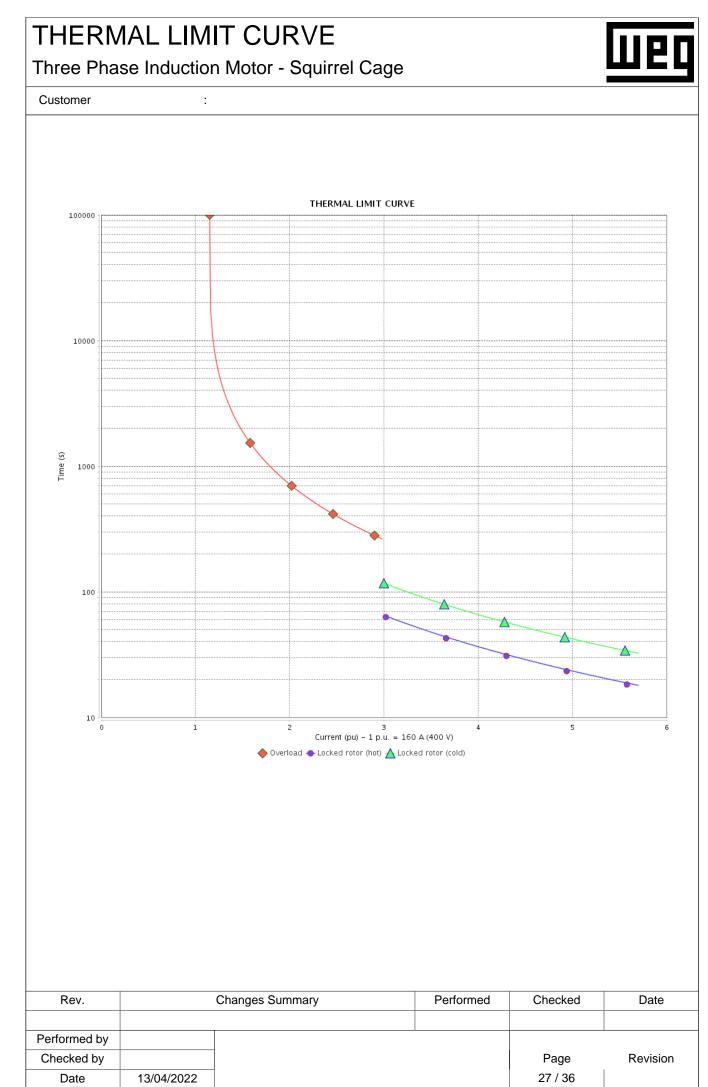
THERM	THERMAL LIMIT CURVE						
Three Pha	se Induction Mc	otor - Squirrel (Cage			шсц	
Customer	:						
Product line	: NEMA Phase	Premium Efficiency T		Product code : Catalog # :	11356079 12518ET3G	RB444T-W22	
Performance Rated current	: 168 A) Hz 4P IE2	Moment of	f inertia (J)	: 57.2 sq.ft.lb		
LRC Rated torque Locked rotor toro Breakdown torqu Rated speed			Duty cycle Insulation Service fao Temperatu Design	e class ctor	: Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
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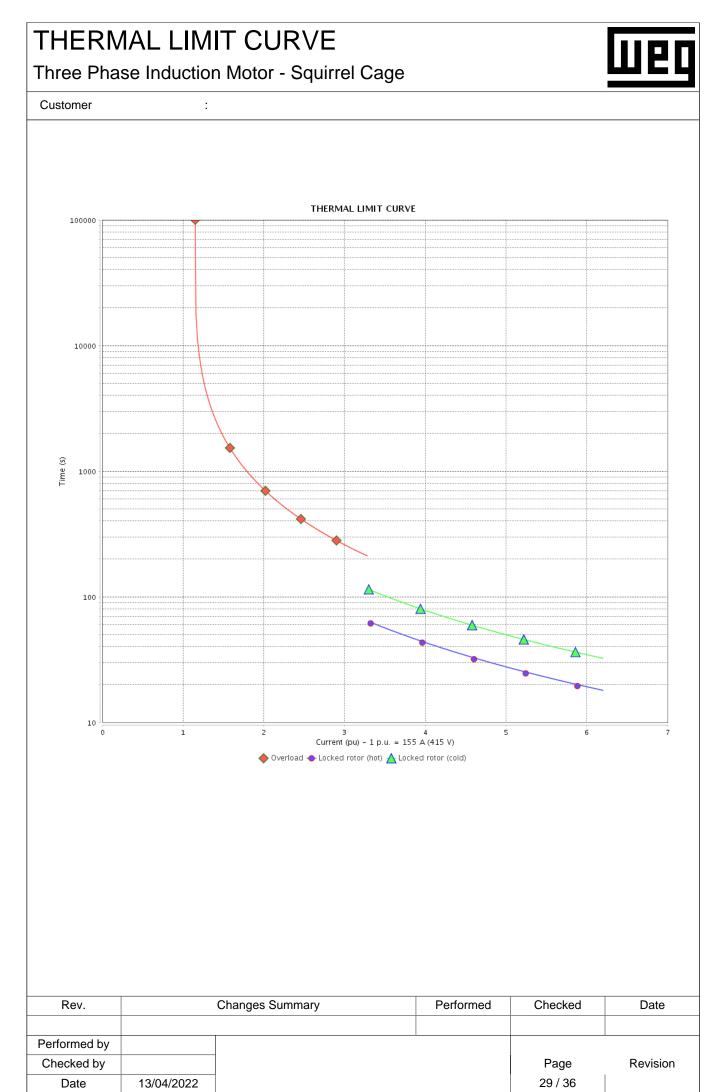
THERM	THERMAL LIMIT CURVE					
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11356079 12518ET3G	RB444T-W22
Performance		00 V 50 Hz 4P IE2	Mamonta	finantia (1)	· F7 0 og ft lb	
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 4 jue : 1 ie : 2	60 A .7 44 ft.lb 80 % 00 % 475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	<u> </u>	Ohan maa O				
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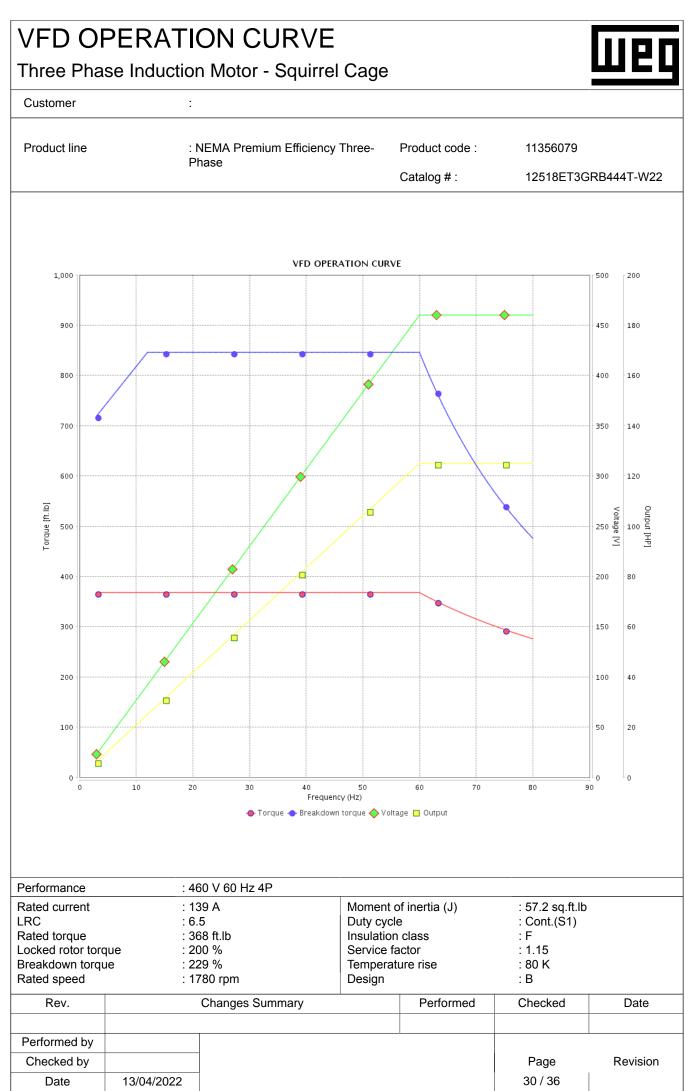
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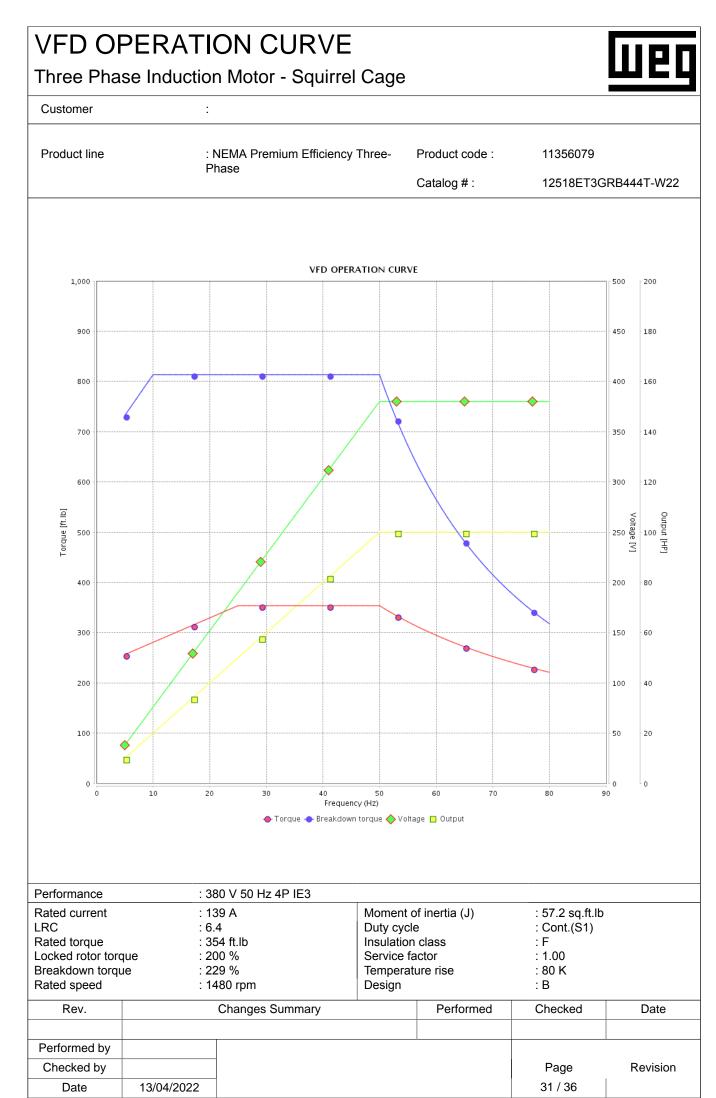


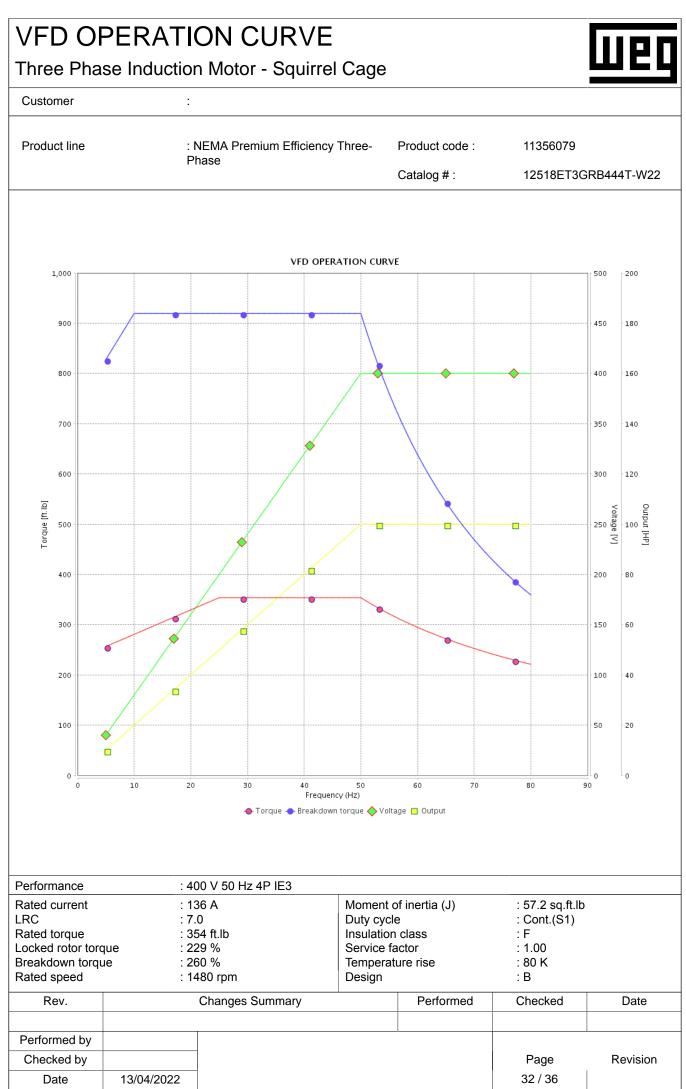
THERMAL LIMIT CURVE								
THERMAL LIMIT CORVE Three Phase Induction Motor - Squirrel Cage								
Customer	:							
Product line	: NEMA Premium Phase	Efficiency Three-	Product code :	11356079 12518ET3GRB444T-W22				
			Catalog # :					
Performance	: 415 V 50 Hz 4P IE	Ξ2						
Rated current LRC	: 155 A : 6.2	Moment o Duty cycle	f inertia (J)	: 57.2 sq.ft.lb : Cont.(S1)				
Rated torque	: 443 ft.lb	Insulation	class	: F				
Locked rotor toro Breakdown torqu		Service fa Temperatu		: 1.00 : 80 K				
Rated speed	: 1480 rpm	Design		: B				
Heating constant								
Cooling constant			Performed	Checked	Date			
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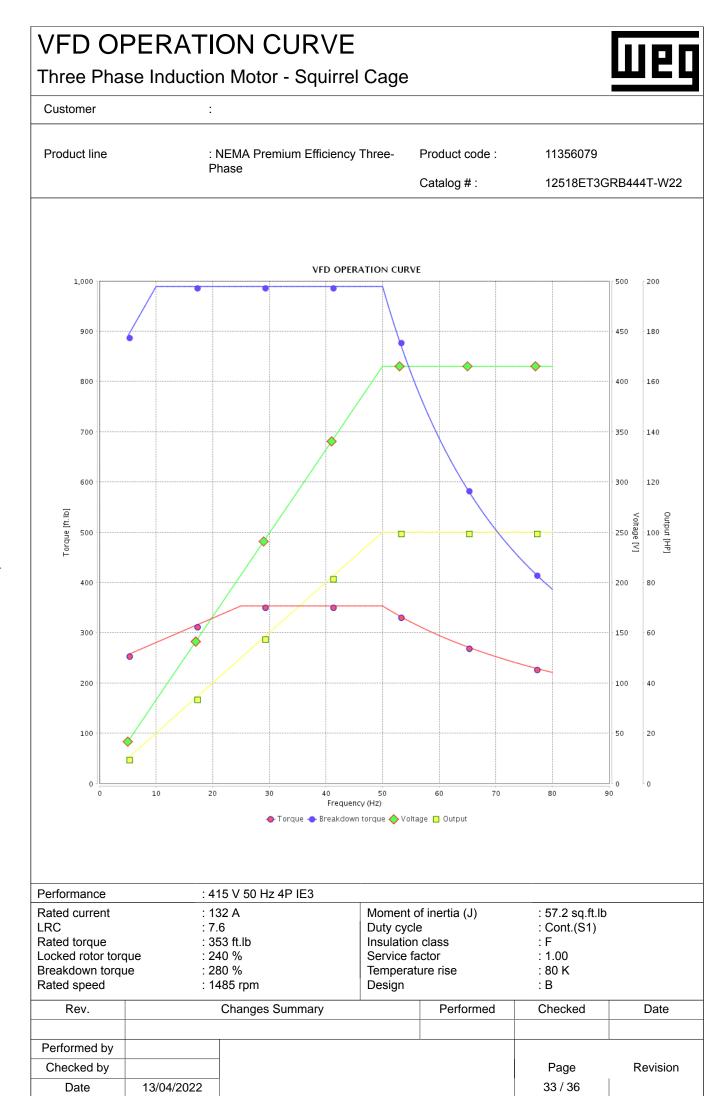
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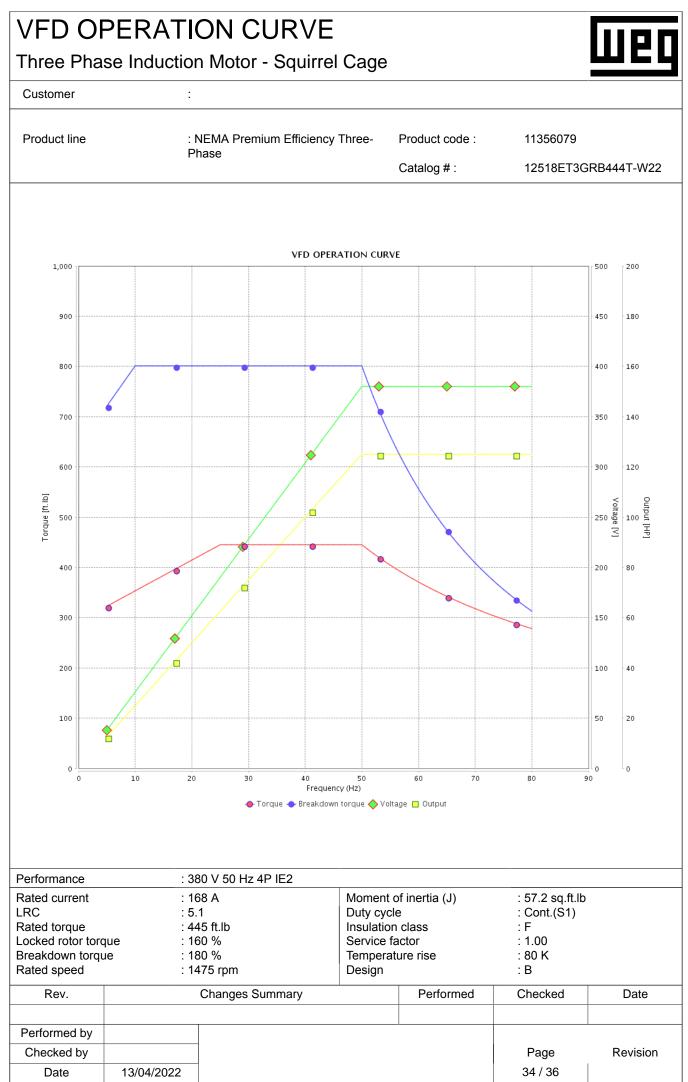


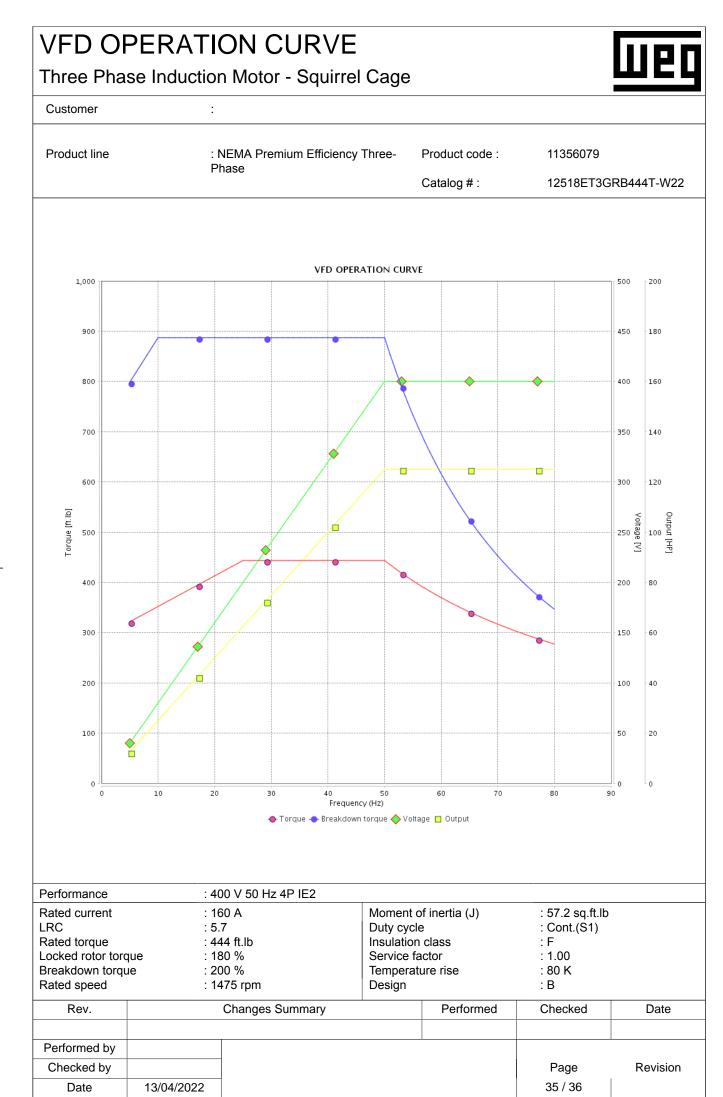


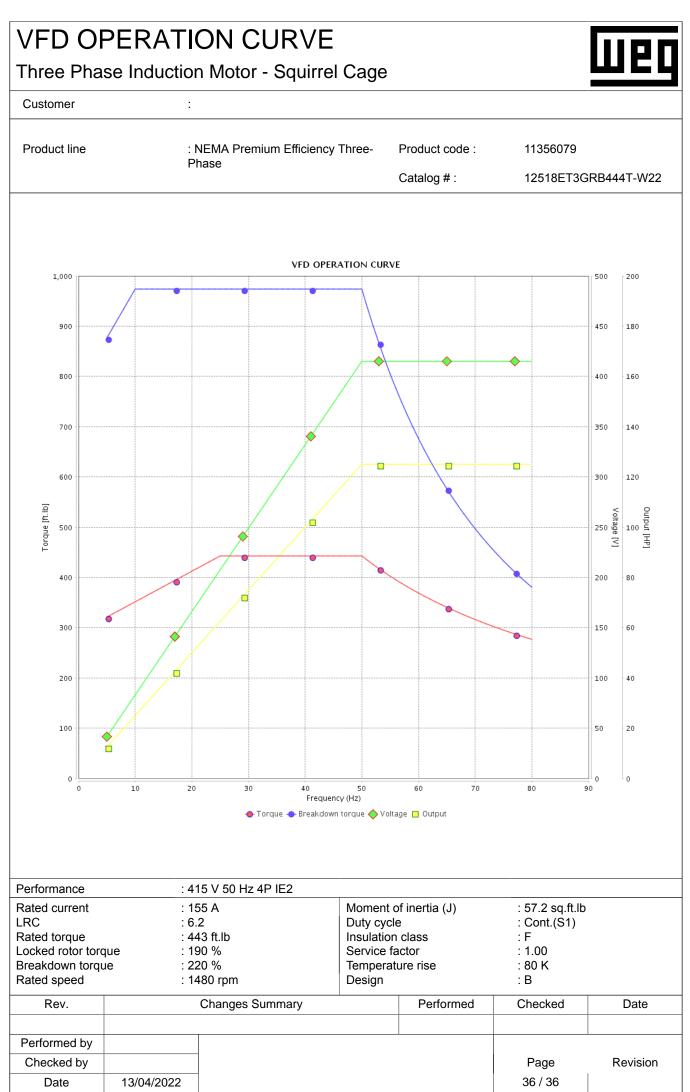


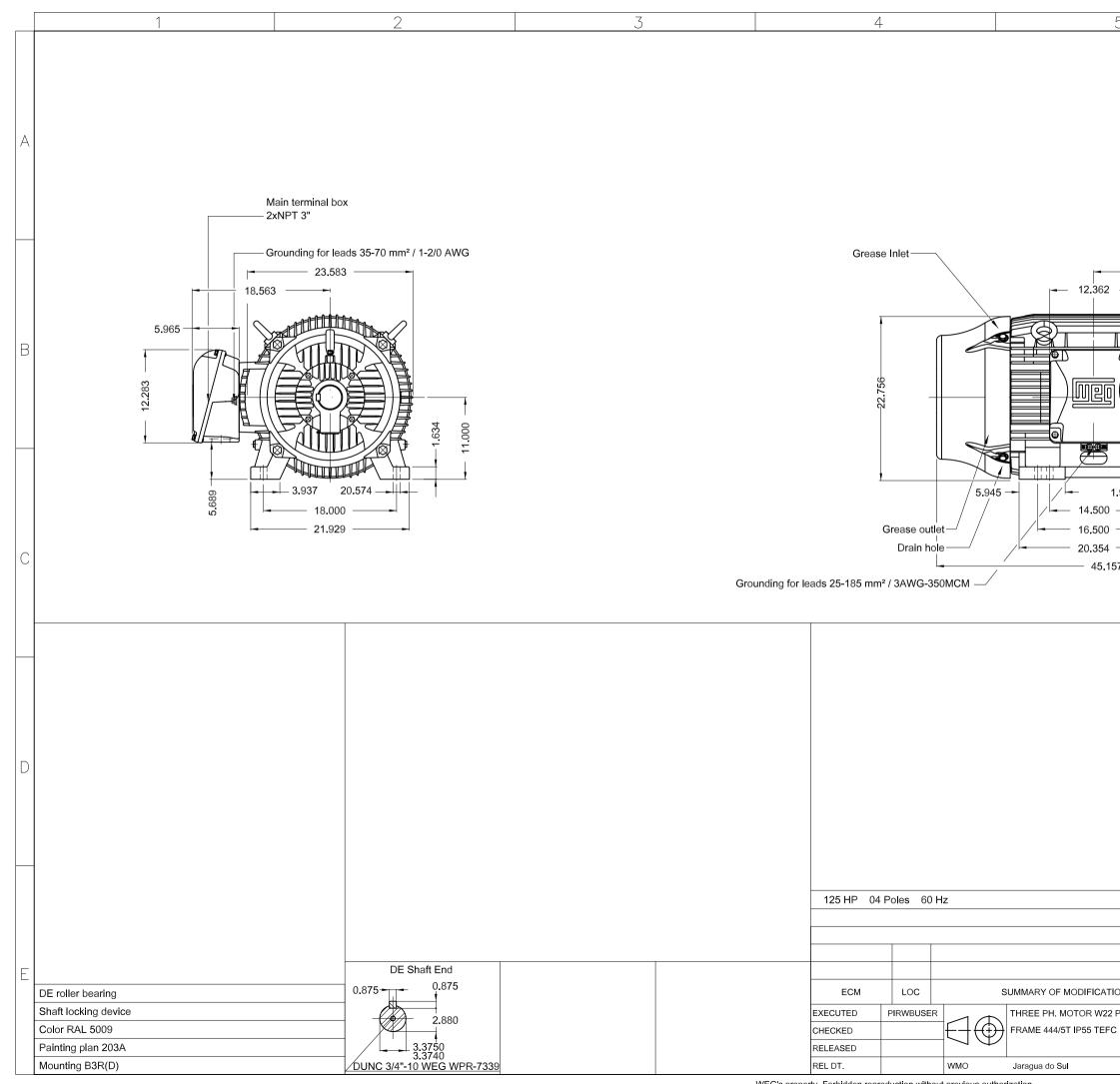












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IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
PREM. EFF.		PREVI			
C		WDD	<u> </u>	ШВ	
Product E	Engineering	SHEET	1 / 1		

		Premium W22			Ô	3PT9 LISTED IS	FOR SAFE AREA Mod.TE1BF0X0N CC029A	C Energy Vert	^{ed} Class II, Div 2, Gr F and G - T3C
0	MODEL 12518ET3	GRB444T–W22							For use on PWM: Gr. A, B, C, D and F, VT 1000:1, CT 20:1, 1.00SF - T3A
Ŭ,	Inverter Duty Moto Severe Duty)r							PART-WINDING WYE-DELTA
MEXICO 079	PH3 60Hz	Fr. 444/5T	1000m.a.s.l.	IP55 TEI	FC 1656lb				START RUN START RUN 011201100111 011201100111 011201100111 01120110111
IN 1 356(V 460			A 139					dī d
-	HP 125			kW 90					016 014 015 016 014 015 017 018 019 017 018 019 011 012 013 011 012 013 011 012 013 011 012 013 011 012 013 011 012 013 011 012 013 011 012 013
MADE 1	SF 1.15			SFA 160					ů už_uš_ ů už_uš_ ů už_uš .NU–319–C3 (45g)
ΪW	RPM 1780			PF 0.85				1 Th	
	AMB 40°C		INS (cl. F DT80	K nema nom eff	95.4%		⊟→	- 6316-C3 (34g)
	DUTY CONT.		DES	B Code	G			Ŕ	MOBIL POLYREX EM (5000h)
								X	
· .								11111	·