DATA SHEET

Three Phase Induction Motor - Squirrel Cage

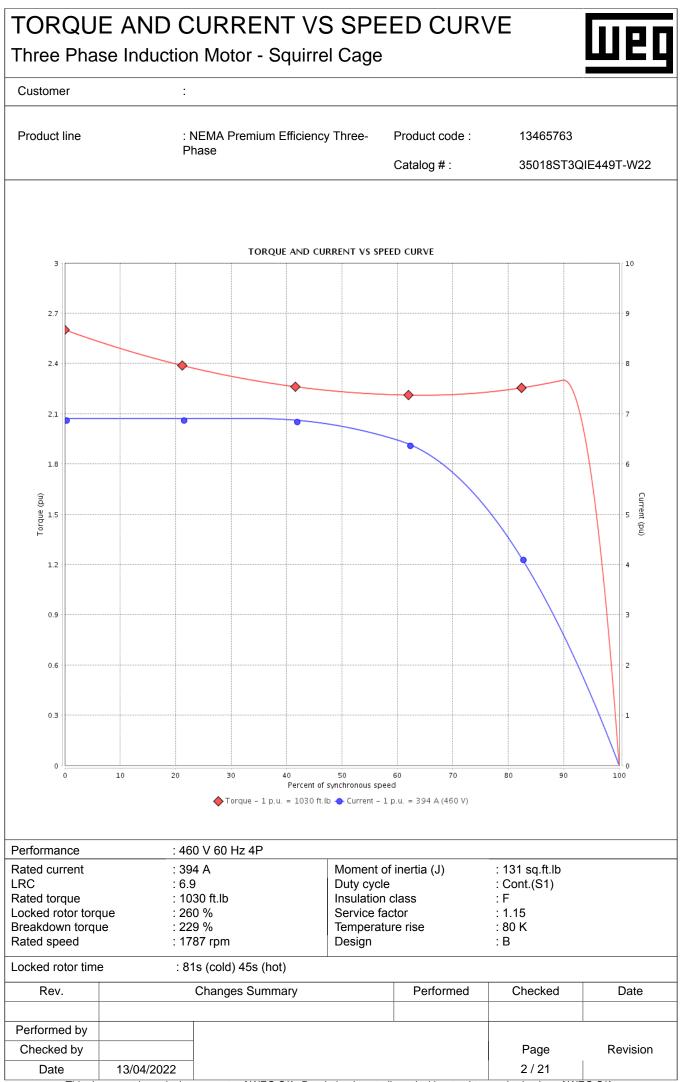
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Customer

		: NEMA Premium Efficiency Three- Phase			Product code :		13465763	
		1-11030	Catalog # :		35018	35018ST3QIE449T-W22		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: L447/9T : 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 : 3209 lb : 131 sq.ft.lb		
Output [HP]		350		300	30	0	300	
Poles		4		4	4	-	4	
Frequency [Hz]		60		50	50		50	
Rated voltage [V]		460		380 40			415	
Rated current [A]		394		404	38		379	
R. Amperes [A]		2719		2868	306		3222	
RC [A]		6.9x(Code G)	7.1	x(Code G)	7.9x(Co	ode H)	8.5x(Code J)	
No load current [A]	115		110	11		122	
Rated speed [RPN		1787		1486	148	88	1490	
Slip [%]	-	0.72		0.93 1060	3.0	30	0.67	
Rated torque [ft.lb]		1030			100	60	1060	
ocked rotor torqu	e [%]	260			240 2 229 2		290	
Breakdown torque	[%]	229	229		25		280	
Service factor		1.15			1.1		1.15	
Temperature rise		80 K			80		80 K	
ocked rotor time		81s (cold) 45s (hot)		cold) 49s (ho			68s (cold) 38s (hot)	
Noise level ²		77.0 dB(A)	7	7.0 dB(A)	77.0 c		77.0 dB(A)	
	25%	95.7		96.1	95		95.5	
Efficiency (%)	50%		95.8		96.2 95		95.6	
	75%	96.2		96.3	96		96.2	
	100%	96.2		96.3	96		96.2	
	25%	0.52		0.52	0.4		0.45	
Power Factor	50%	0.76		0.74	0.7		0.66	
	75%	0.83		0.82	3.0		0.78	
	100%	0.86			0.8	50	0.84	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: 6322 C3 63 : Inpro/Seal Inpr : 6000 h 80	000 h 15 g	Foundation Max. tractic Max. comp	on	: 6288 : 9497		
Notes				<u> </u>				
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the m and with t veight subjec ocess.	cel the previous one, w shaft end. olerance of +3dB(A). t to changes after	hich		•		sts with sinusoidal stipulated in NEMA	
Rev.		Changes Summary	,		Performed	Checke	d Date	
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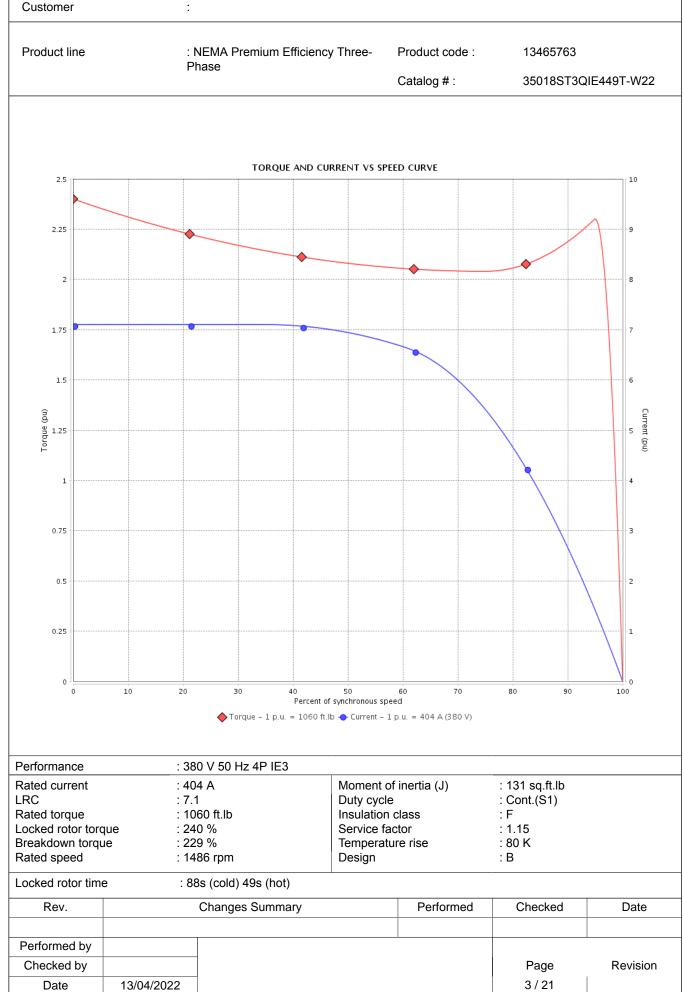


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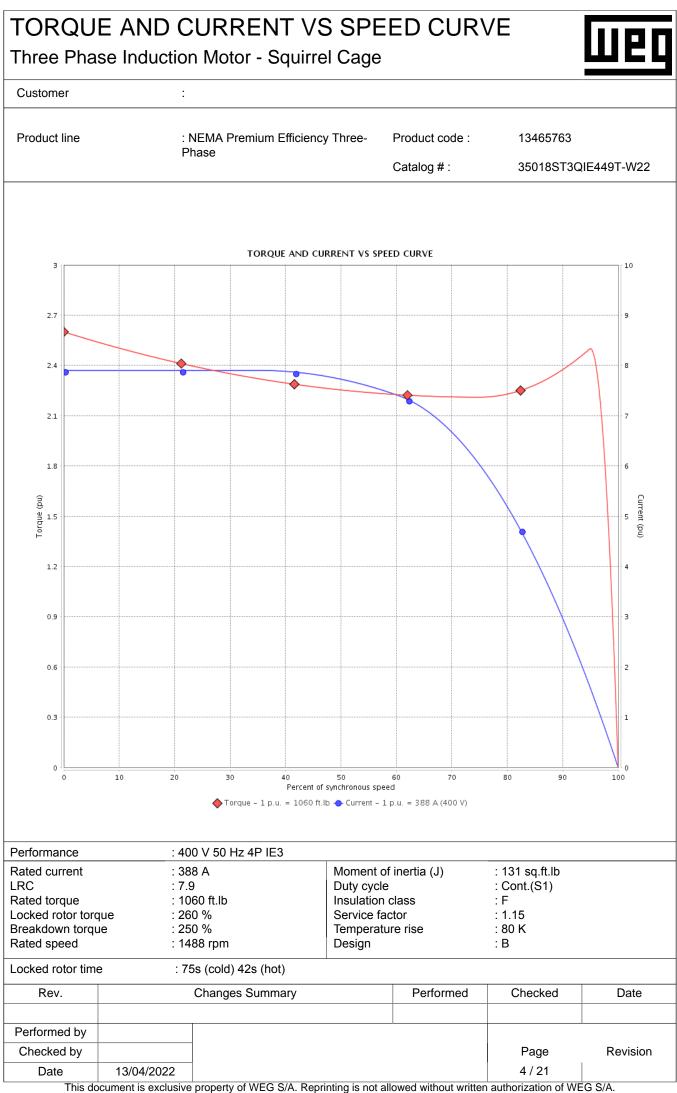
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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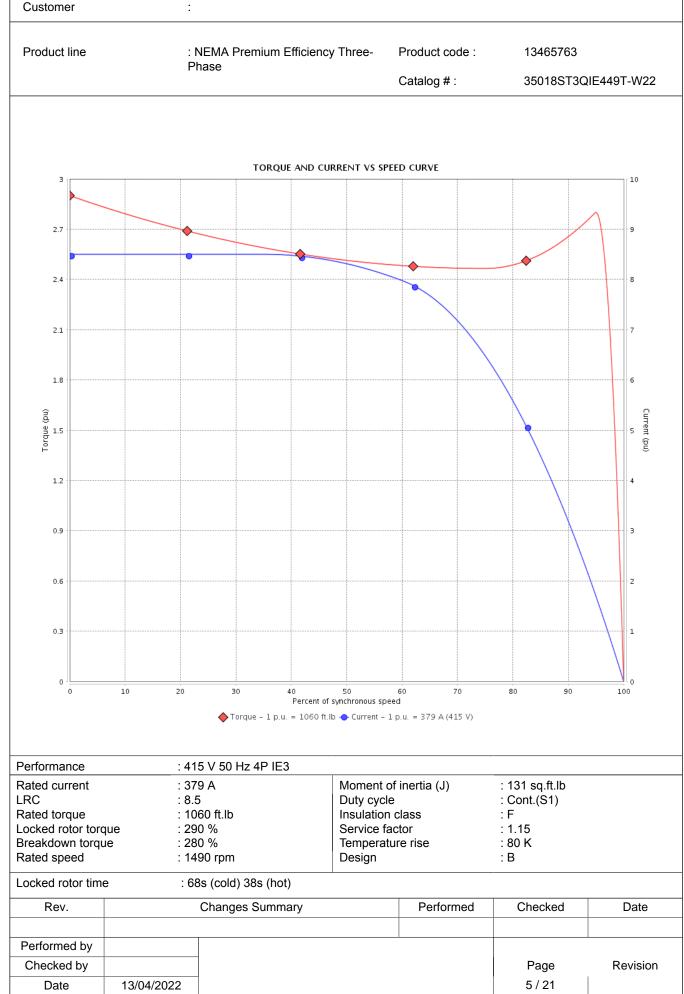


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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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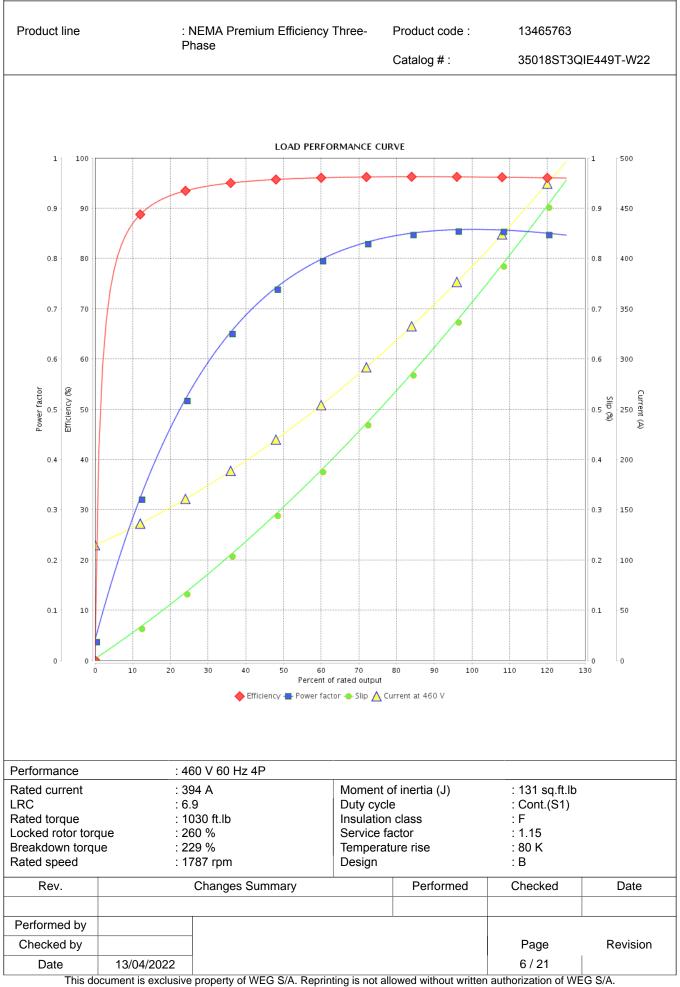
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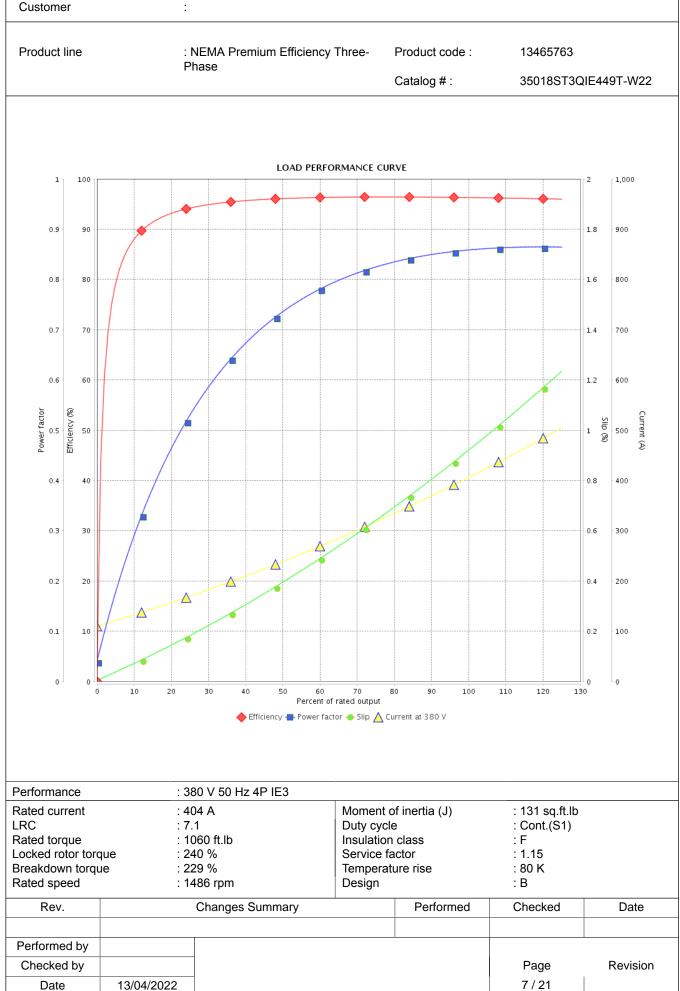


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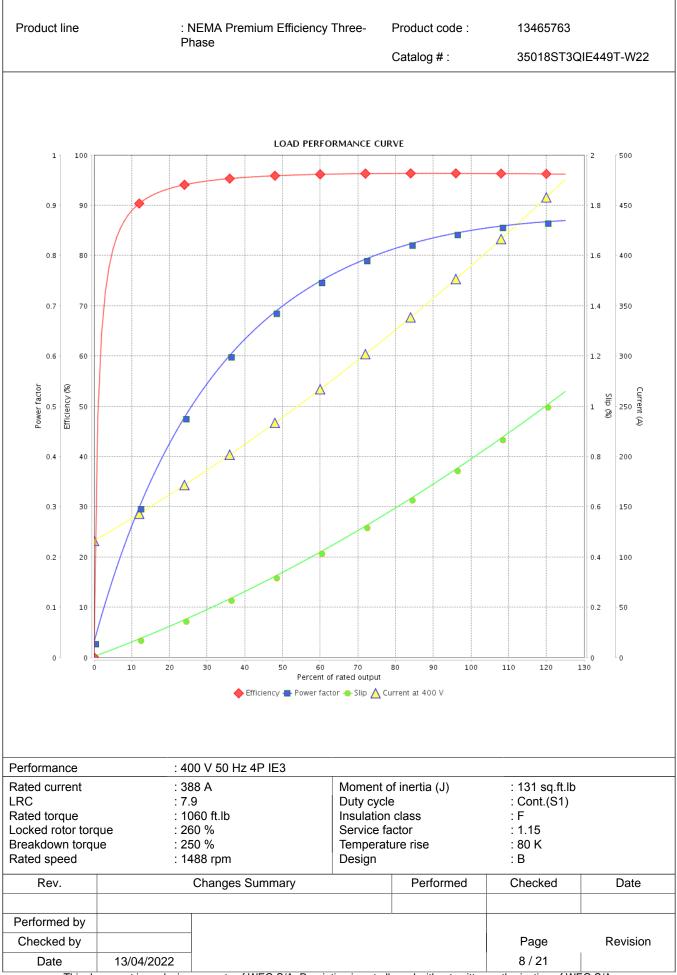
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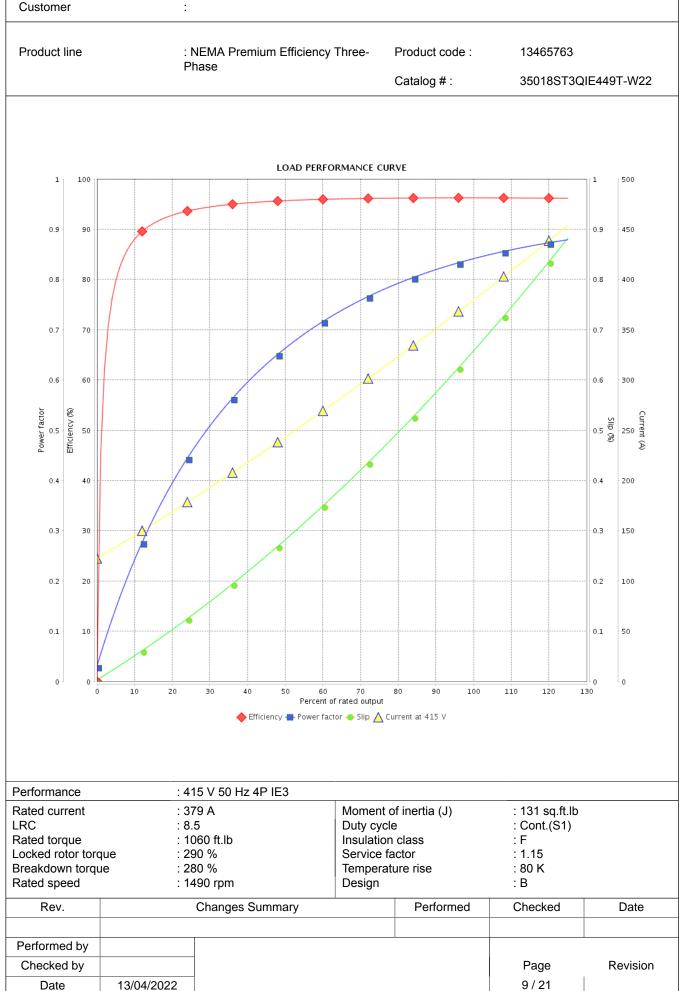


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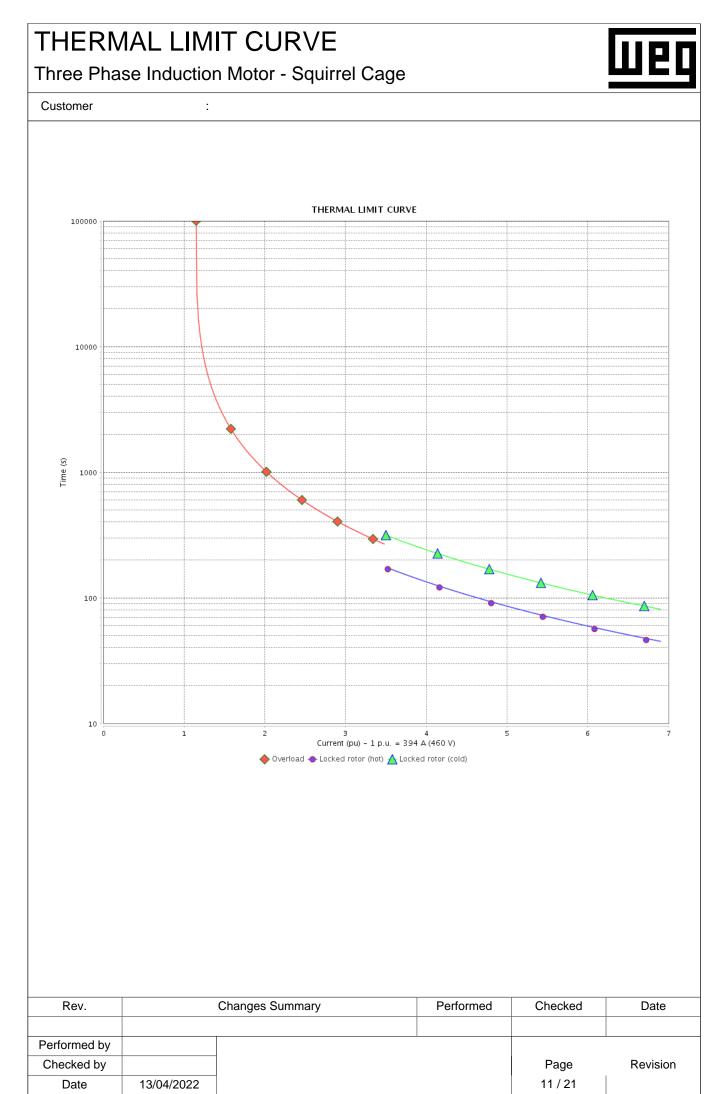
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Three Pha	se Induction	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	13465763	
				Catalog # :	35018ST3QI	E449T-W22
Performance		60 V 60 Hz 4P 94 A	Momento	f inertia (I)	: 131 sq ft lb	
LRC: 6Rated torque: 1Locked rotor torque: 2Breakdown torque: 2Rated speed: 1			Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 131 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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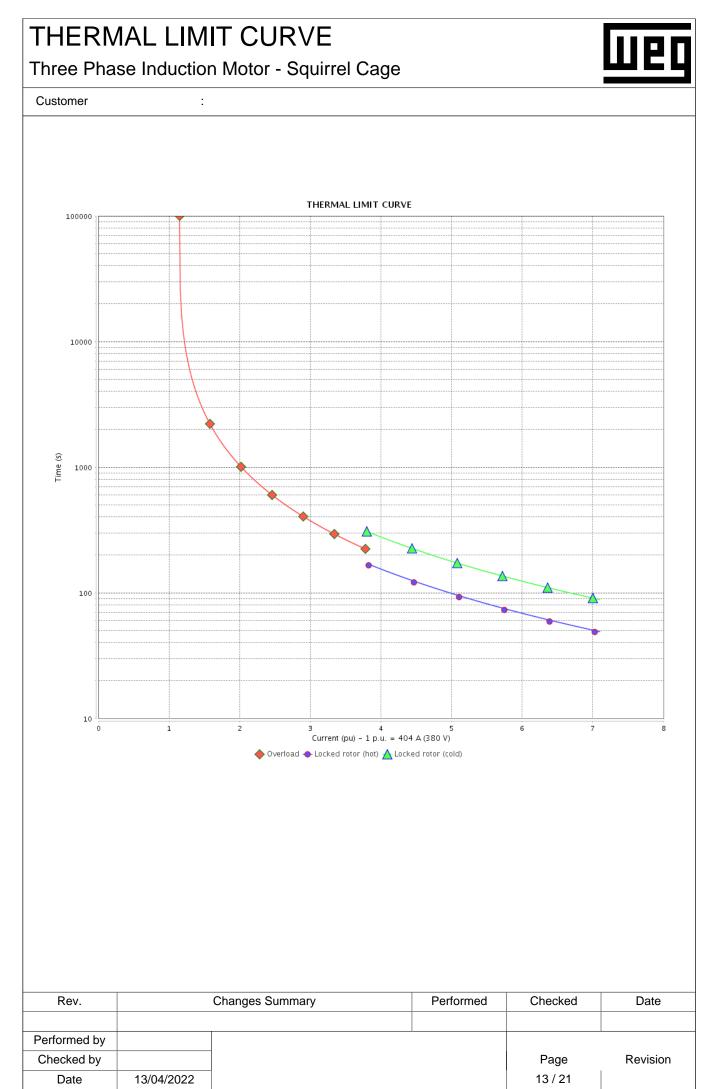


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц		
Customer	:							
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	13465763	13465763		
				Catalog # :	35018ST3Q	IE449T-W22		
Performance	. 2	80 V 50 Hz 4P IE3						
Rated current		04 A	Moment o	f inertia (J)	: 131 sq.ft.lb			
LRC: 7.1Rated torque: 1060 ft.lbLocked rotor torque: 240 %Breakdown torque: 229 %Rated speed: 1486 rpm		Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.15 : 80 K : B				
Heating constan								
Cooling constant Rev.		Changes Summary		Performed	Checked	Date		
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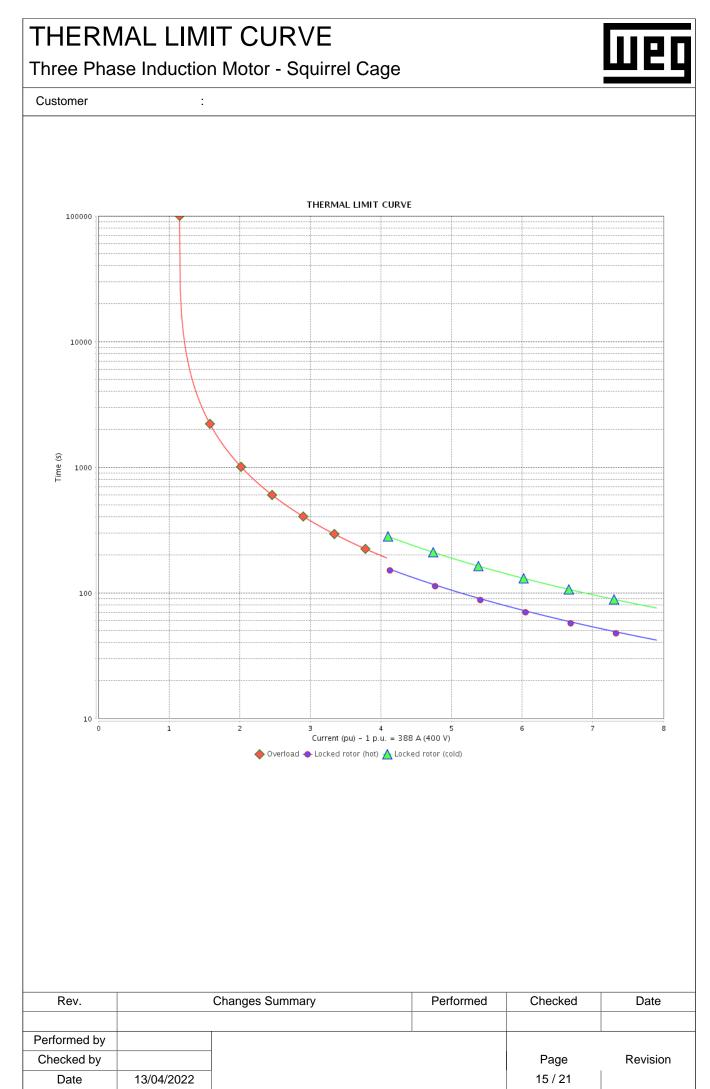


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line	:1	NEMA Premium Efficiency ⁻	Three-	Product code :	13465763	
		hase		Catalog # :	35018ST3Q	E449T-W22
Performance	· 4	00 V 50 Hz 4P IE3				
Rated current	: 3	88 A	Moment o Duty cycle	f inertia (J)	: 131 sq.ft.lb	
LRC: 7.9Rated torque: 106Locked rotor torque: 260Breakdown torque: 250		: 1060 ft.lb Ins : 260 % Se		e class ictor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant	t	Changes Summers		Performed	Charles	Data
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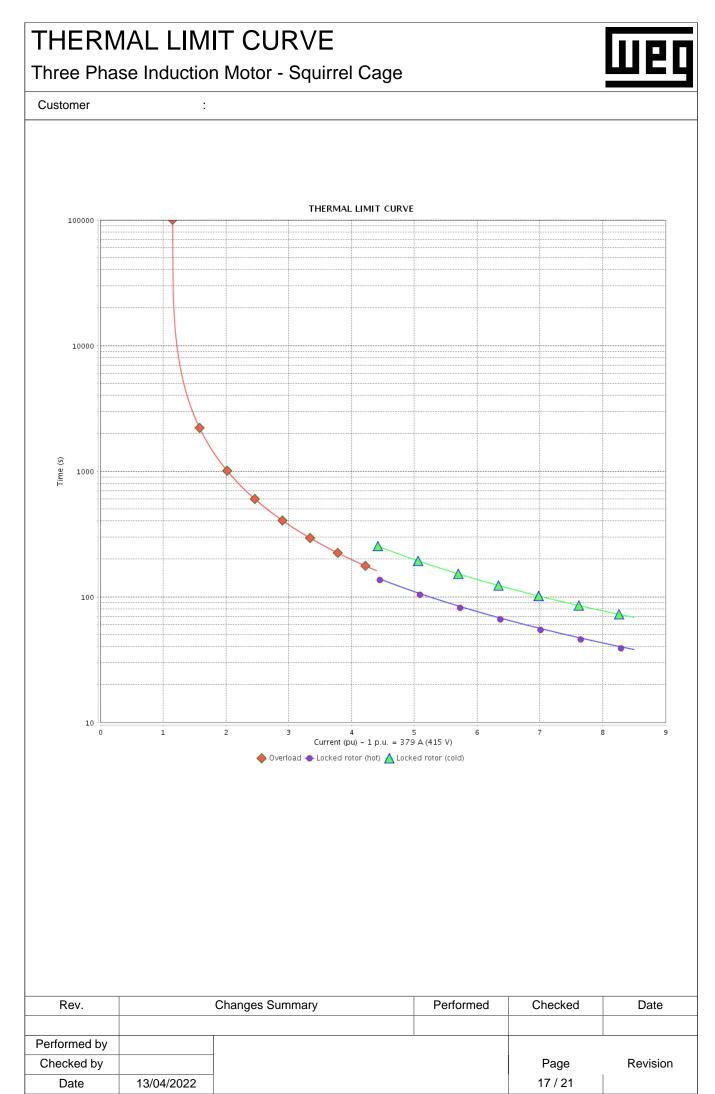


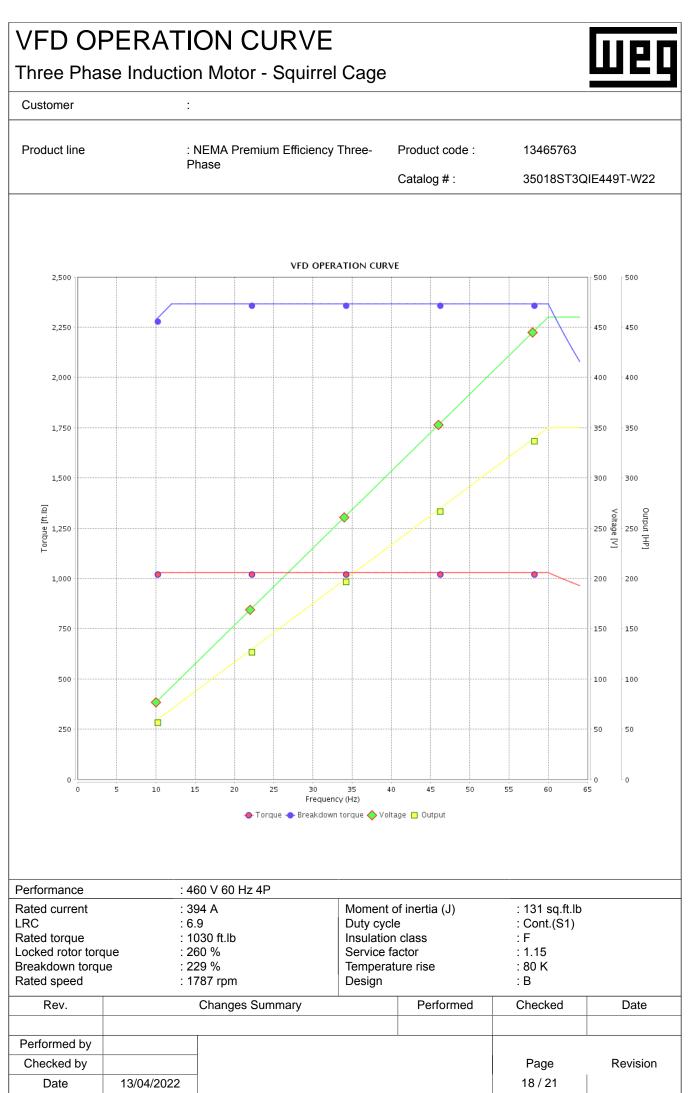
THERM	1AL LIM	IT CURVE				шеq
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	13465763 35018ST3Q	
Performance		15 V 50 Hz 4P IE3				
Rated current LRC	: 3 : 8	79 A .5	Moment o Duty cycle	of inertia (J) e	: 131 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor toro		060 ft.lb 90 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu	.e : 2	80 %	Temperature rise		: 80 K	
Rated speed Heating constant		490 rpm	Design		: B	
Cooling constant						
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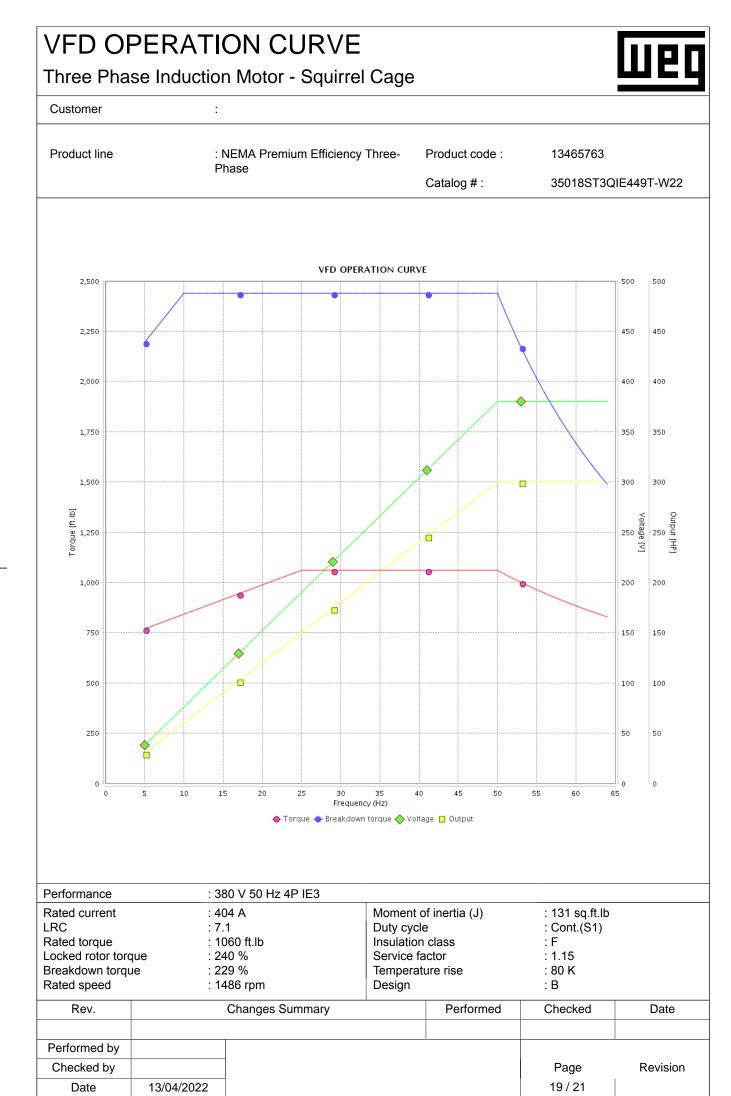
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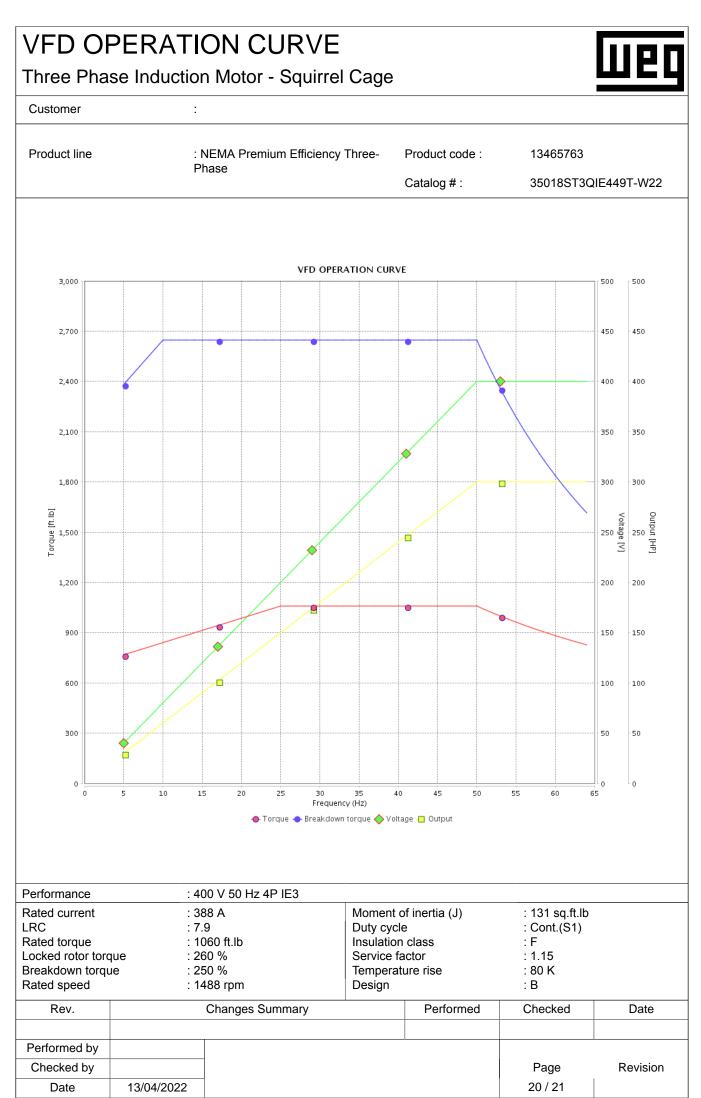




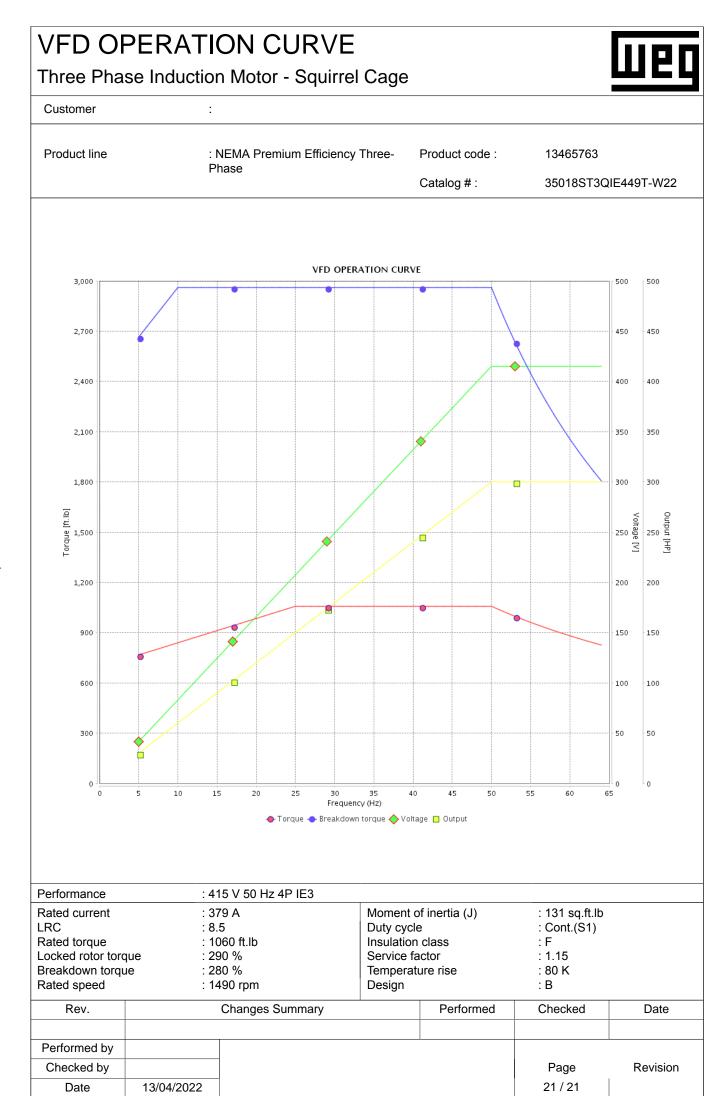
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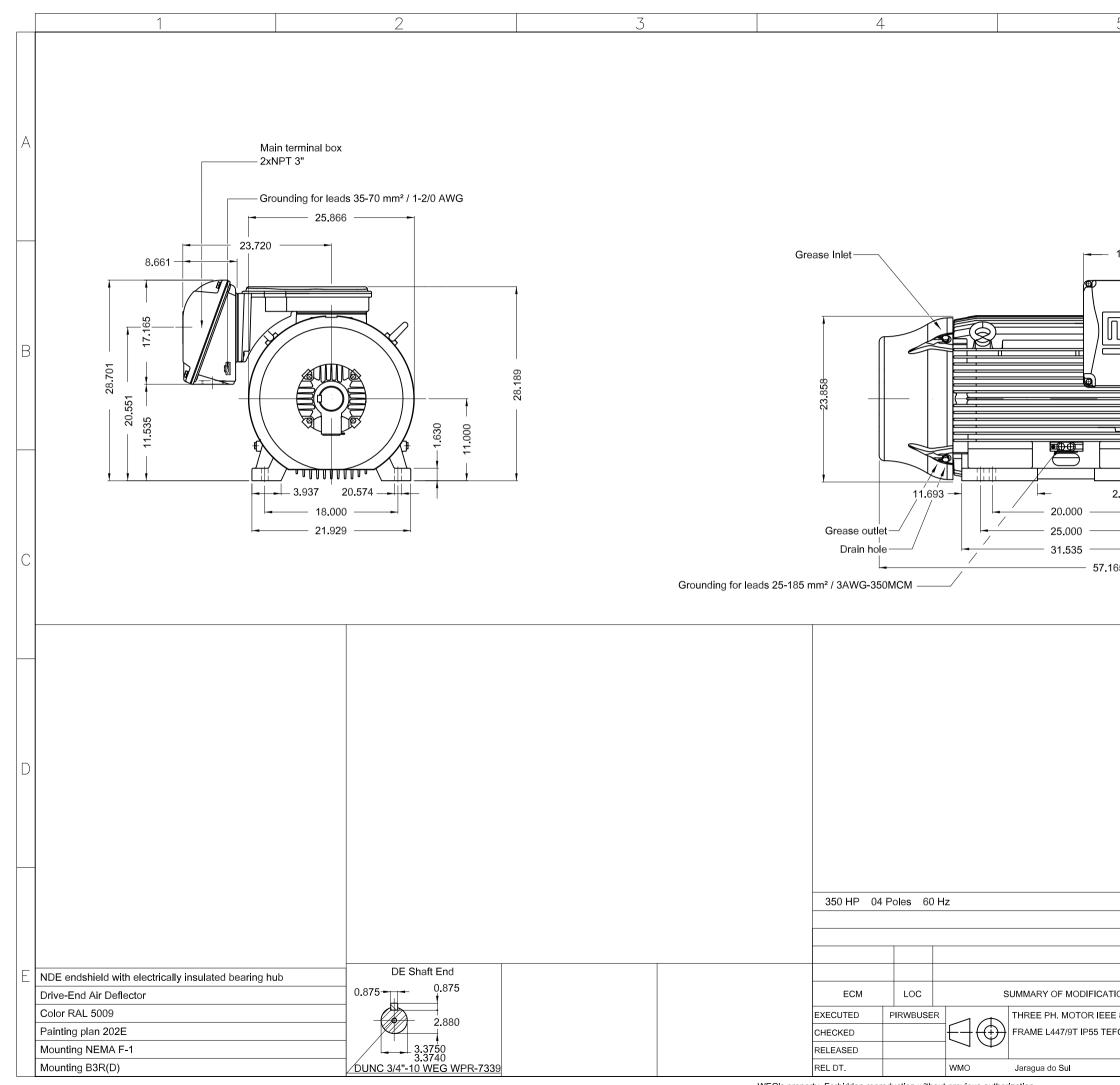
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