DATA SHEET

Three Phase Induction Motor - Squirrel Cage

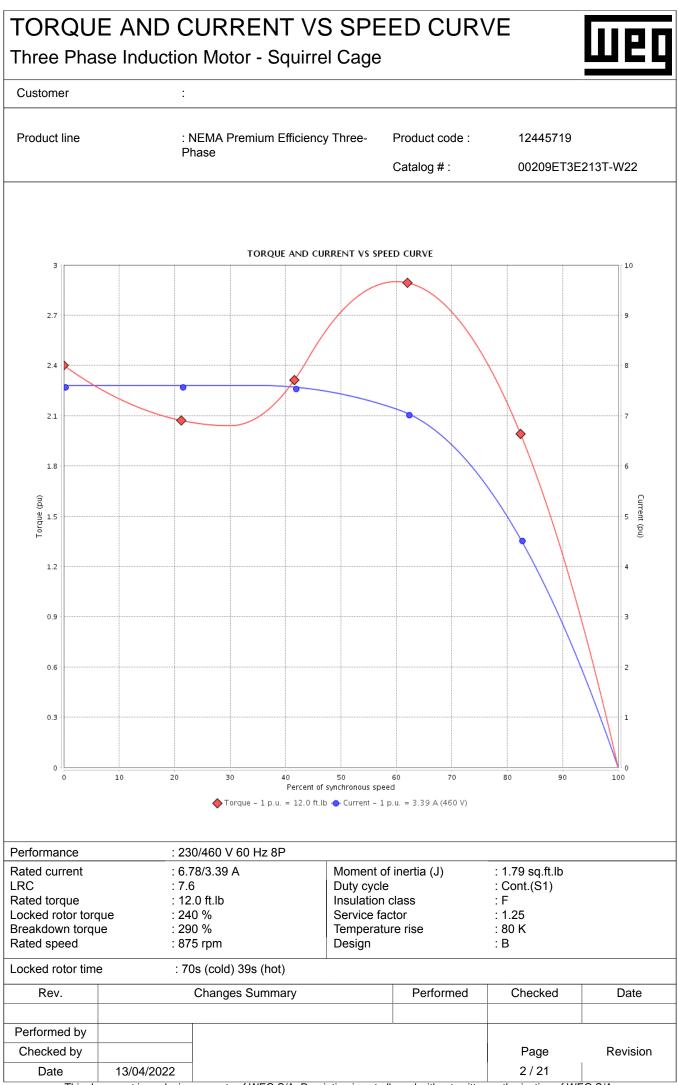
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Customer

Product line		: NEMA Premium Effi	ciency T	hree- Pro	oduct code :	12445719	9
		Phase		Cat	talog # :	00209ET	3E213T-W22
Frame		: 213/5T		Cooling me	ethod	: IC411 -	TEFC
Insulation class		:F		Mounting		: F-1	-
Duty cycle		: Cont.(S1)		Rotation ¹		: Both (C	W and CCW)
Ambient tempera	ature	: -20°C to +40°C		Starting me	ethod	: Direct C	
Altitude		: 1000 m.a.s.l.		Approx. we		: 166 lb	
Protection degree	е	: IP55		Moment of		: 1.79 sq.	.ft.lb
Design		: B					
Dutput [HP]		2		2		2	2
Poles		8		8	8	3	8
requency [Hz]		60		50	5	0	50
Rated voltage [V]		230/460		380	4(00	415
Rated current [A]		6.78/3.39		3.91	3.	80	3.78
R. Amperes [A]		51.5/25.7		29.7	28		28.7
RC [A]		7.6x(Code M)	7.6	6x(Code L)		ode M)	7.6x(Code M)
No load current [A]	1	4.60/2.30		2.30		42	2.54
Rated speed [RPN		875		715		20	720
Slip [%]		2.78		4.67	4.		4.00
Rated torque [ft.lb]	1	12.0		4.67	4.		14.6
.ocked rotor torque		240					
				190 210		29	270
Breakdown torque	[%]		290		25		280
Service factor		1.25			1.		1.00
Temperature rise			80 K			K	80 K
ocked rotor time		70s (cold) 39s (hot)		cold) 39s (hot			'0s (cold) 39s (hot)
loise level ²	25%	52.0 dB(A)	4	8.0 dB(A)	48.0	dB(A)	48.0 dB(A)
Efficiency (%)	25% 50%	82.5		81.5	81	5	81.5
	75%						
		84.0		82.0	82		82.5
	100%	85.5		82.0	82	C.D	82.5
	25%	0.45				40	
Power Factor	50%	0.45		0.52	0.4		0.46
	75%	0.55		0.62		59	0.56
	100%	0.65		0.71	0.	69	0.67
			rive end	Foundation	loads		
Bearing type			07 ZZ	Max. tractio		: 147 lb	
Sealing		: V'Ring V	'Ring	Max. compr	ression	: 313 lb	
Lubrication interv	/al	-	-				
Lubricant amoun	t	: -	-				
Lubricant type		: Mobil Polyrex E	ΞM				
Notes USABLE @208V	7.49A SF 1.	15 SFA 8.62A					
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the m and with t veight subjec ocess.	ncel the previous one, where the previous one, where the shaft end. olerance of +3dB(A). At to changes after	hich				with sinusoidal ipulated in NEMA
Rev.		Changes Summary	,	·	Performed	Checked	Date
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Performed by							
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Date	13/04/202	2				1/21	

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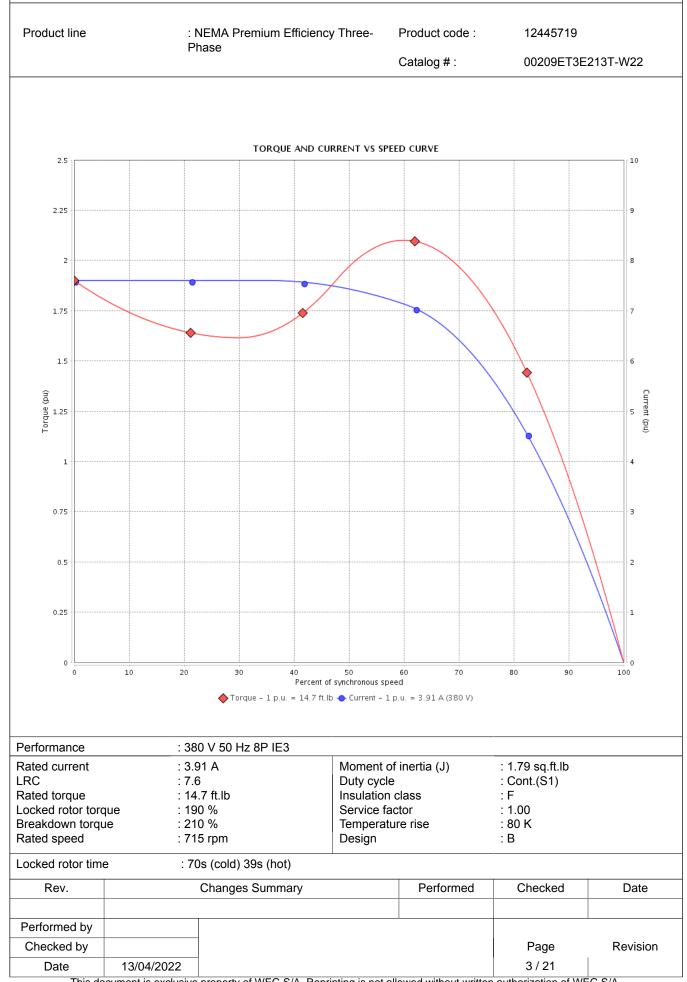
TORQUE AND CURRENT VS SPEED CURVE

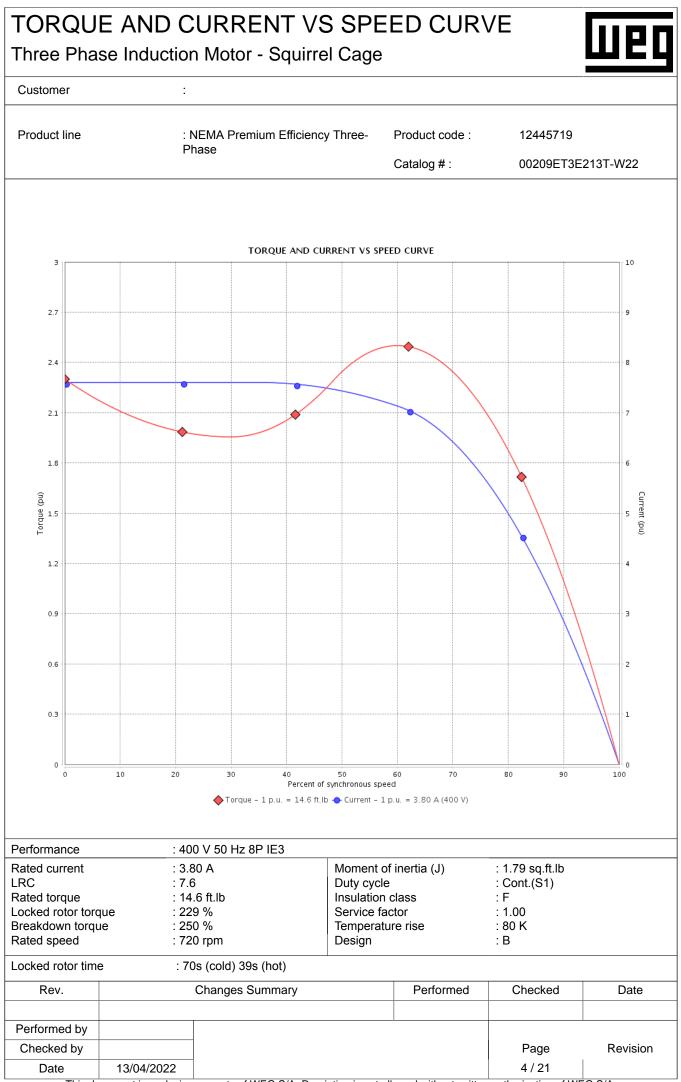
Three Phase Induction Motor - Squirrel Cage

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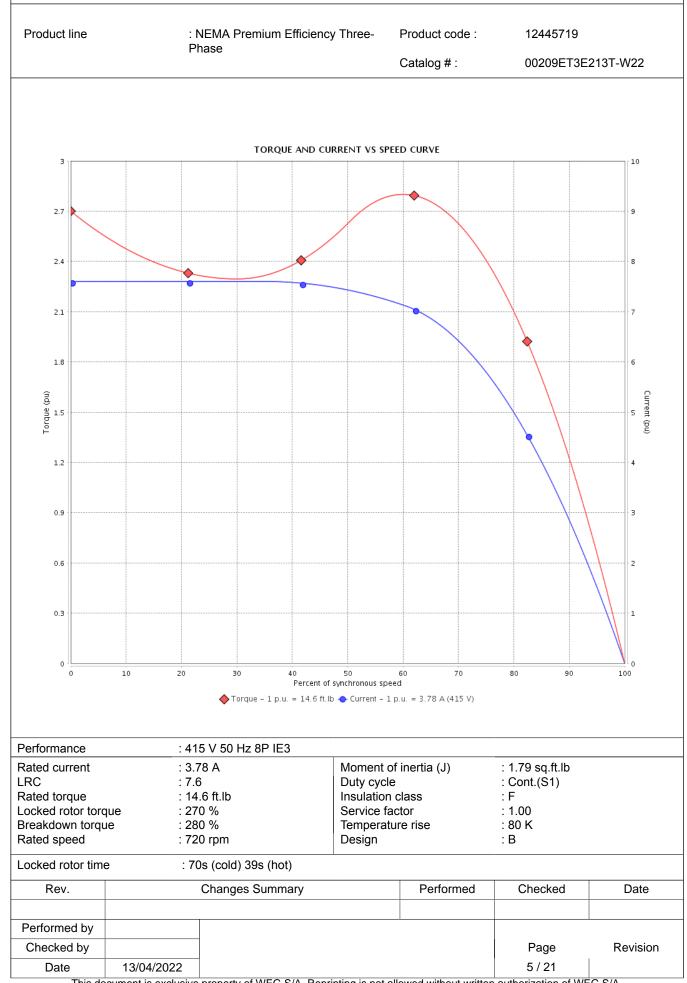
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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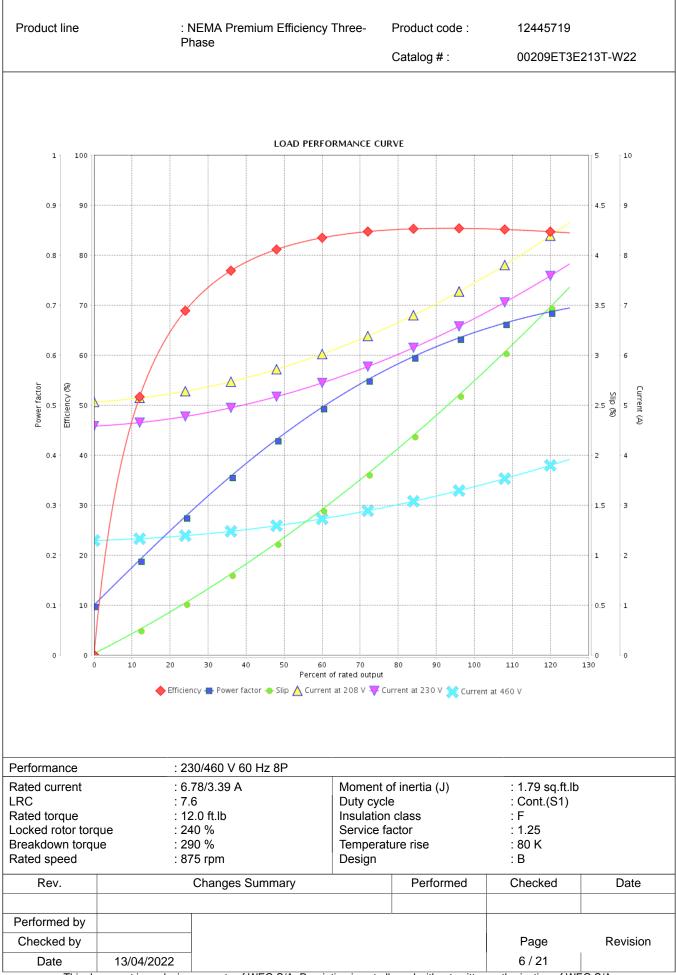


Three Phase Induction Motor - Squirrel Cage

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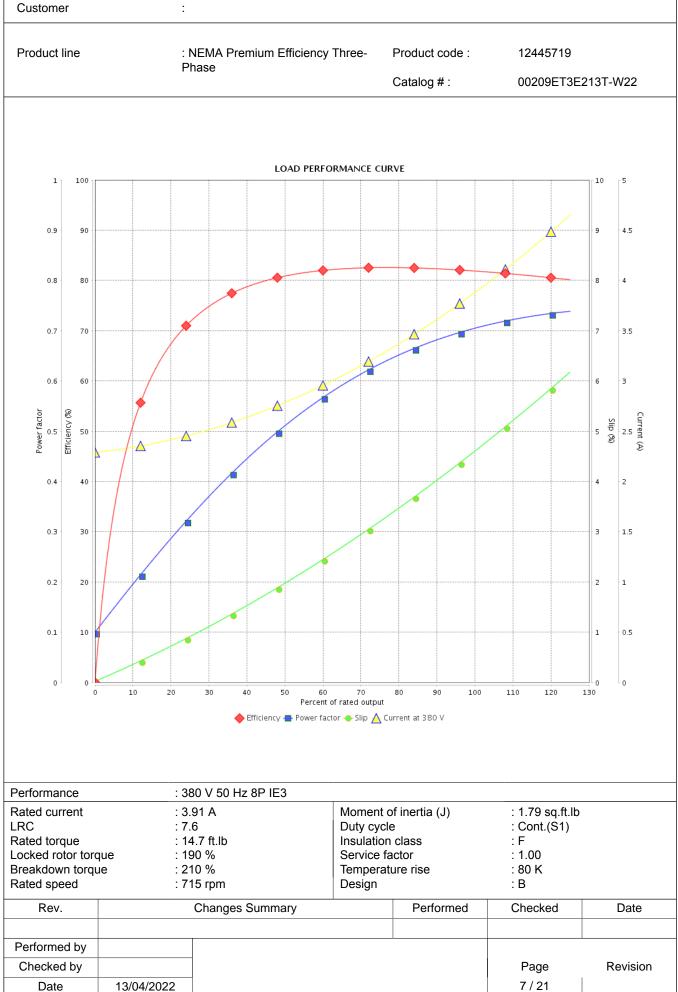


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Customer



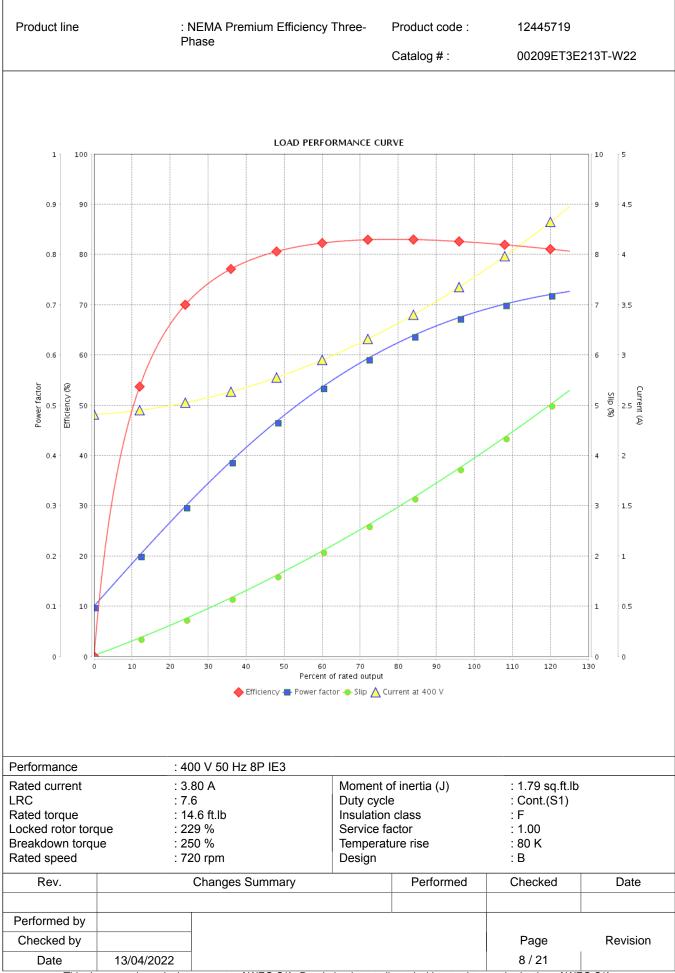
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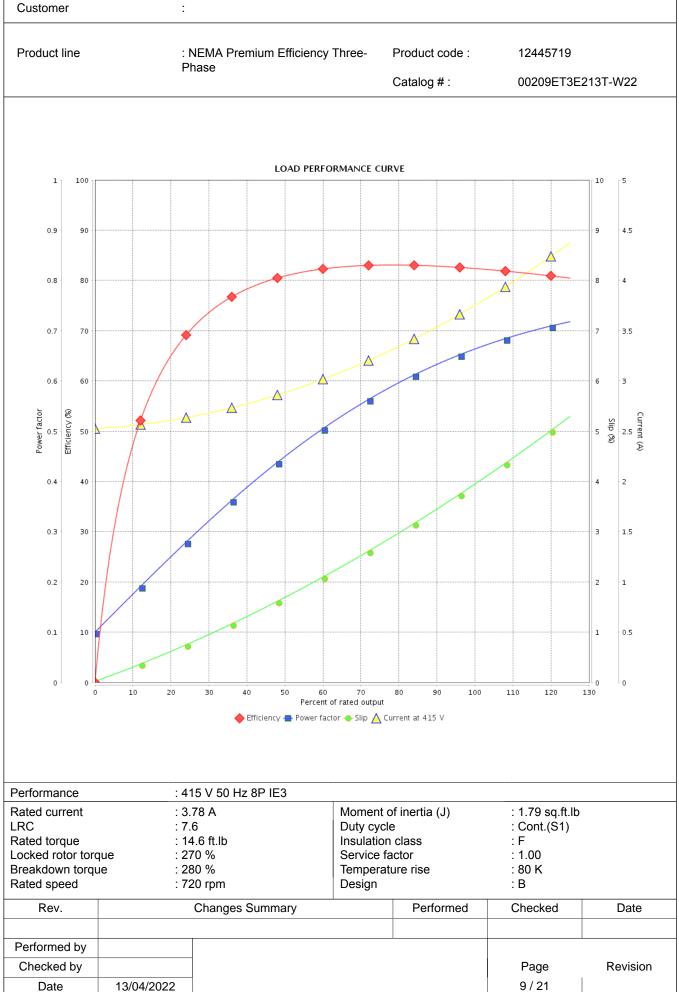


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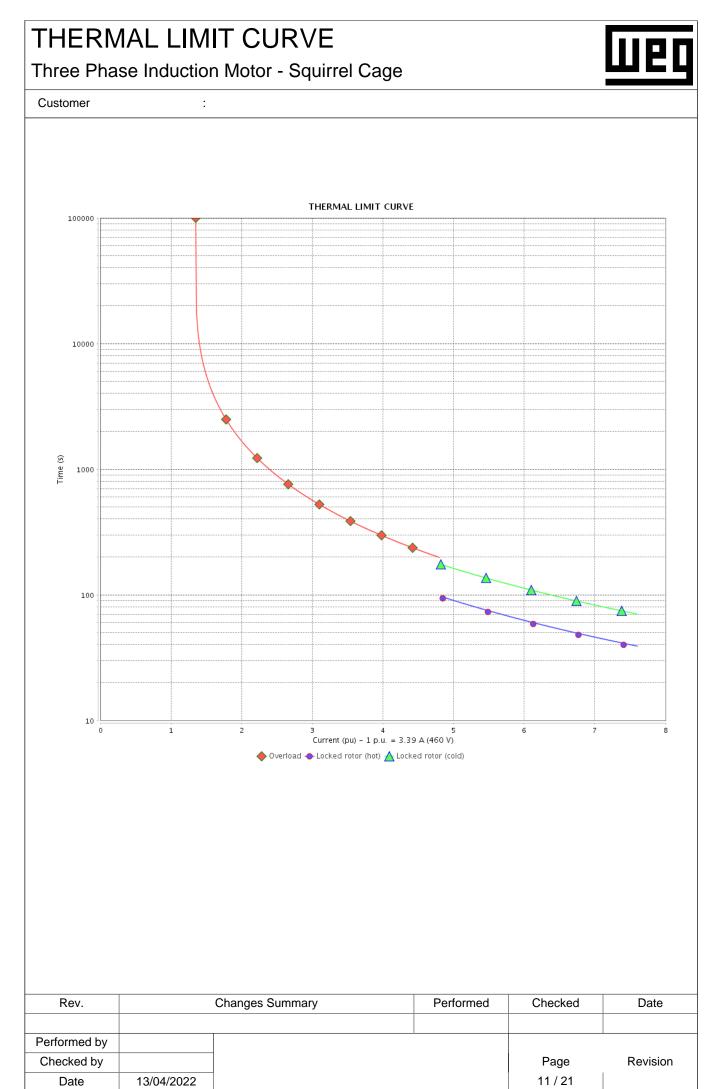
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THERMAL	LIMIT CURVE		Web
Three Phase Inc	luction Motor - Squirrel Cage	;	шсц
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445719
	Thuse	Catalog # :	00209ET3E213T-W22

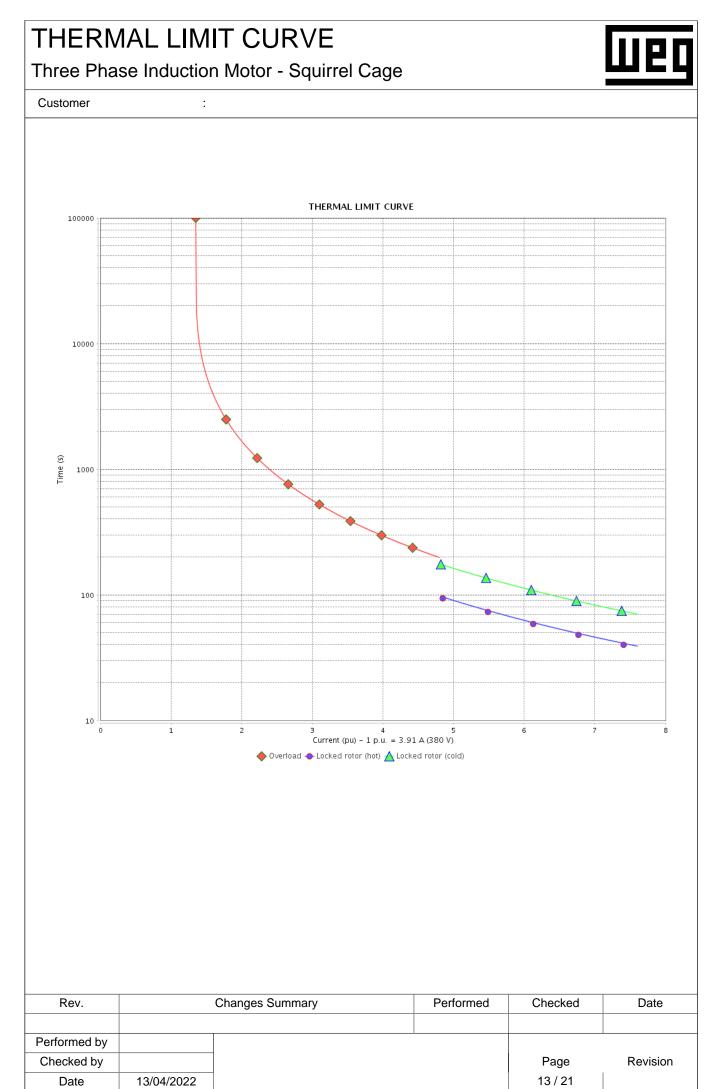
Performance	: 2	30/460 V 60 Hz 8P				
Rated current: 6.78/3.39 ALRC: 7.6Rated torque: 12.0 ft.lbLocked rotor torque: 240 %Breakdown torque: 290 %Rated speed: 875 rpmHeating constant		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.79 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
u u						
Cooling constant	t					
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THERMAL	LIMIT CURVE		
Three Phase Inc	duction Motor - Squirrel Cage	;	<u> </u>
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445719
	Thase	Catalog # :	00209ET3E213T-W22

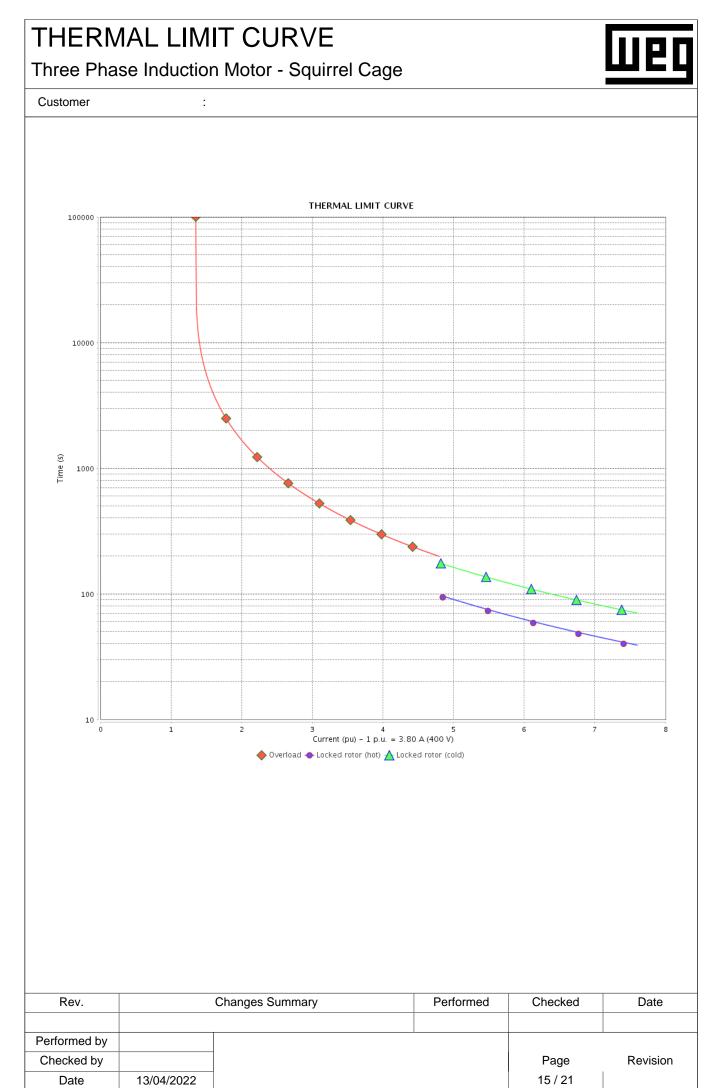
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Performance		: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	9	: 3.91 A : 7.6 : 14.7 ft.lb : 190 % : 210 % : 715 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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Date	13/04/2022				12/21	



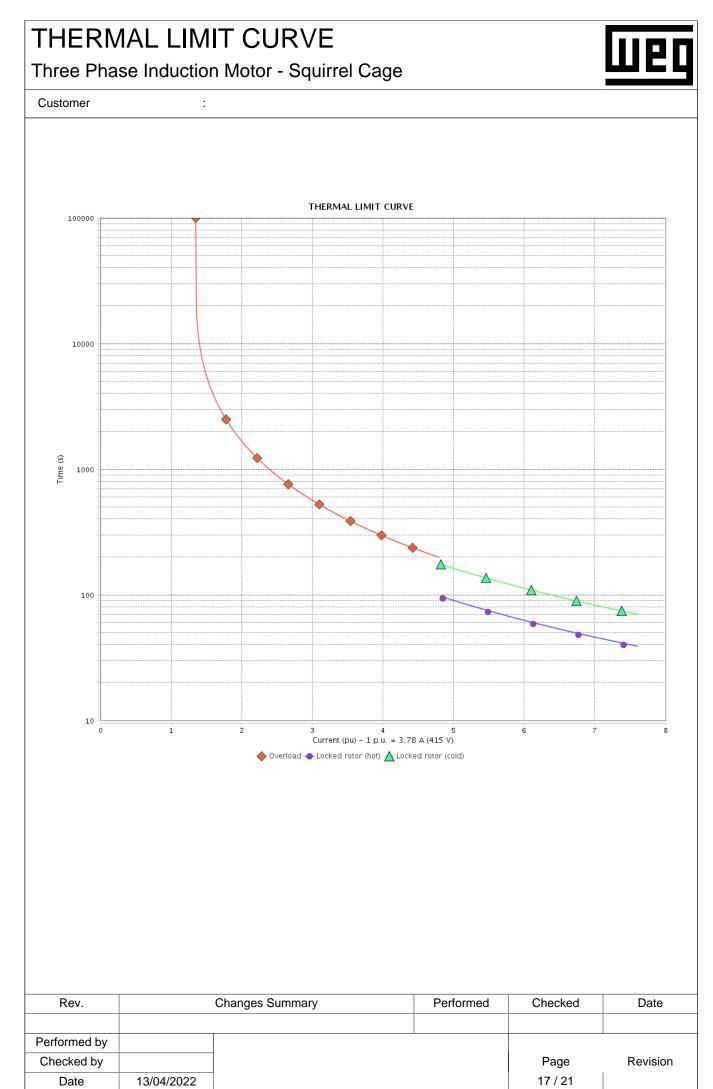
THERMAL LI	MIT CURVE		
Three Phase Induc	tion Motor - Squirrel Cage)	шсц
Customer	:		
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		Catalog # :	00209ET3E213T-W22

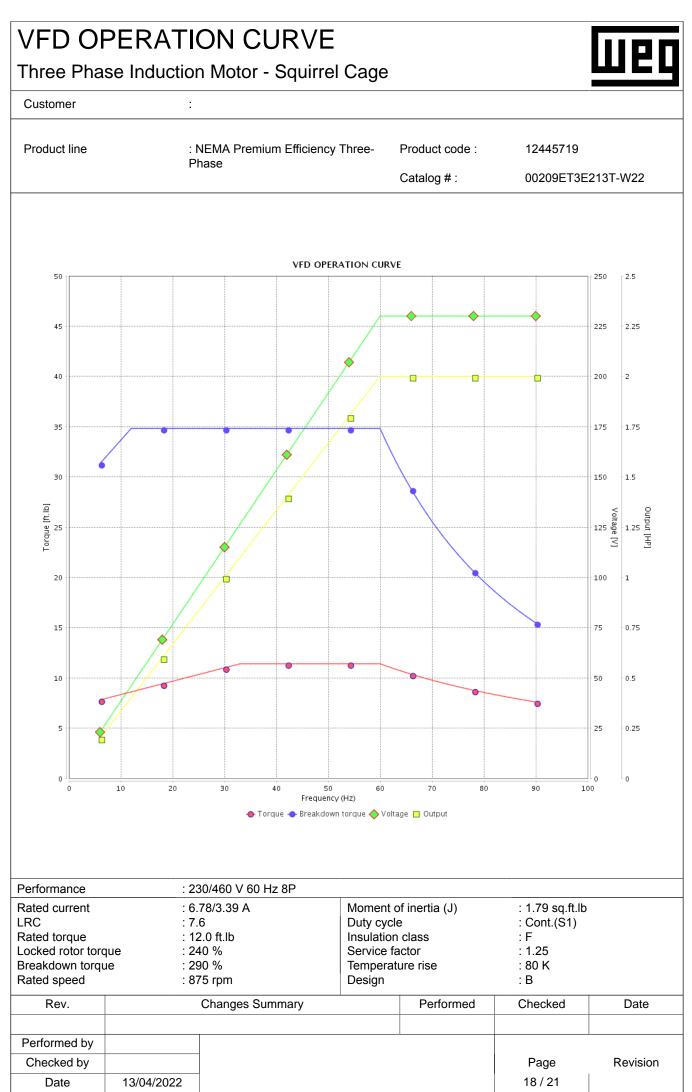
Performance	: 4	: 400 V 50 Hz 8P IE3				
Rated current: 3.80 ALRC: 7.6Rated torque: 14.6 ft.lbLocked rotor torque: 229 %Breakdown torque: 250 %Rated speed: 720 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant	t					
Cooling constant	t					
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Date	13/04/2022				14 / 21	



THERMAL	LIMIT CURVE		
Three Phase Ind	uction Motor - Squirrel Cage)	<u> </u>
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445719
	Thuse	Catalog # :	00209ET3E213T-W22

Performance	: 4	15 V 50 Hz 8P IE3	5 V 50 Hz 8P IE3			
Rated current: 3.78 ALRC: 7.6Rated torque: 14.6 ft.lbLocked rotor torque: 270 %Breakdown torque: 280 %Rated speed: 720 rpm		6 4.6 ft.lb 70 % 80 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t				·	
Cooling constant	t					
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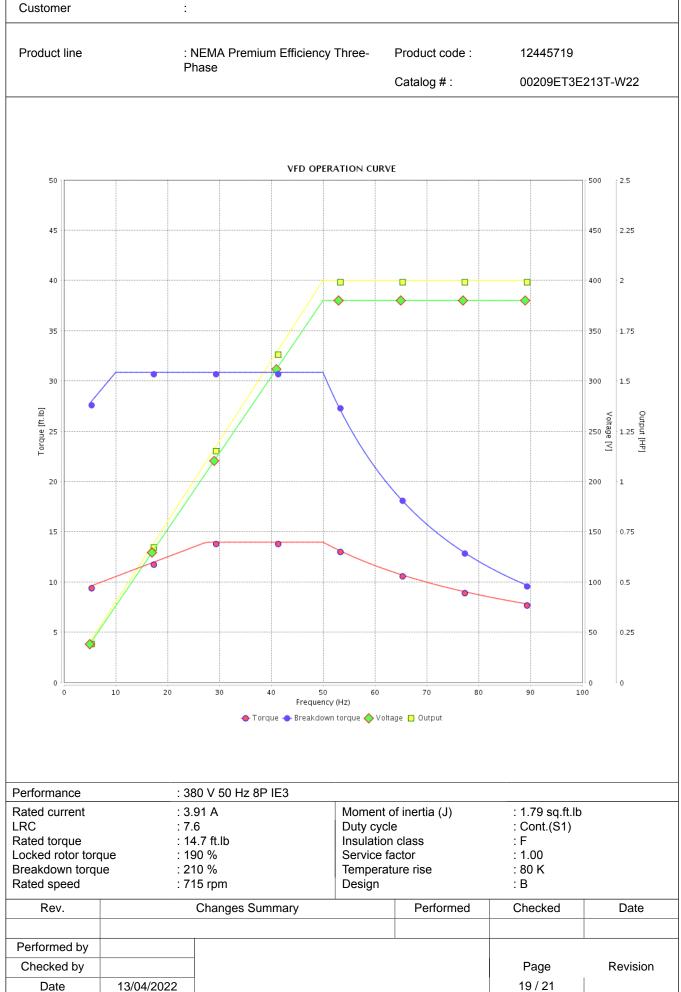


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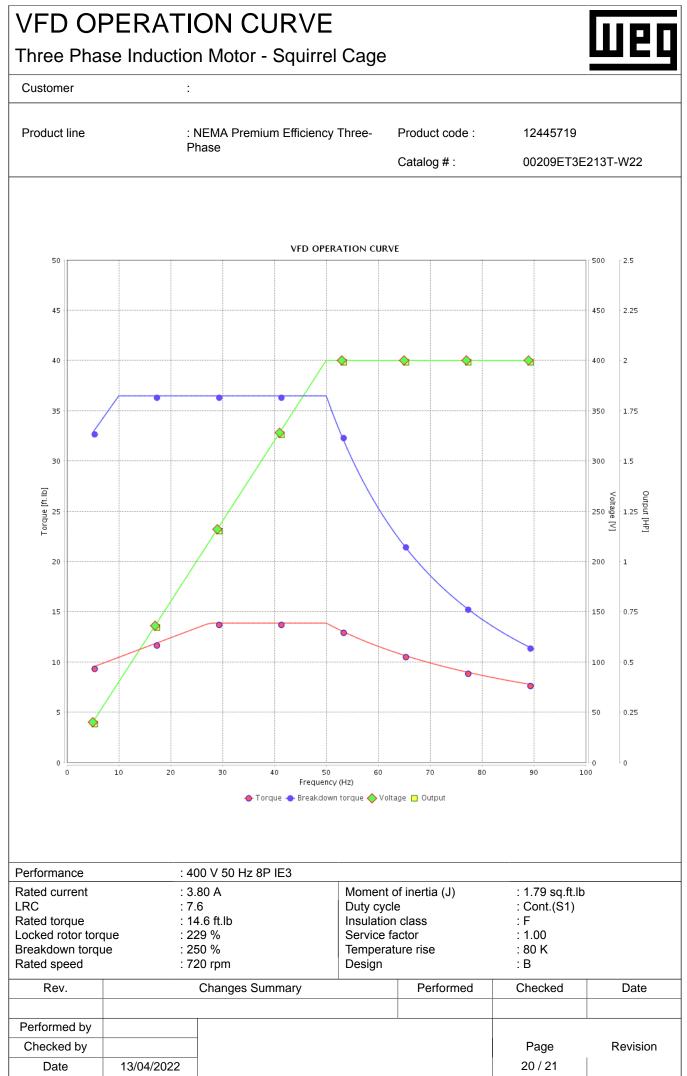
VFD OPERATION CURVE

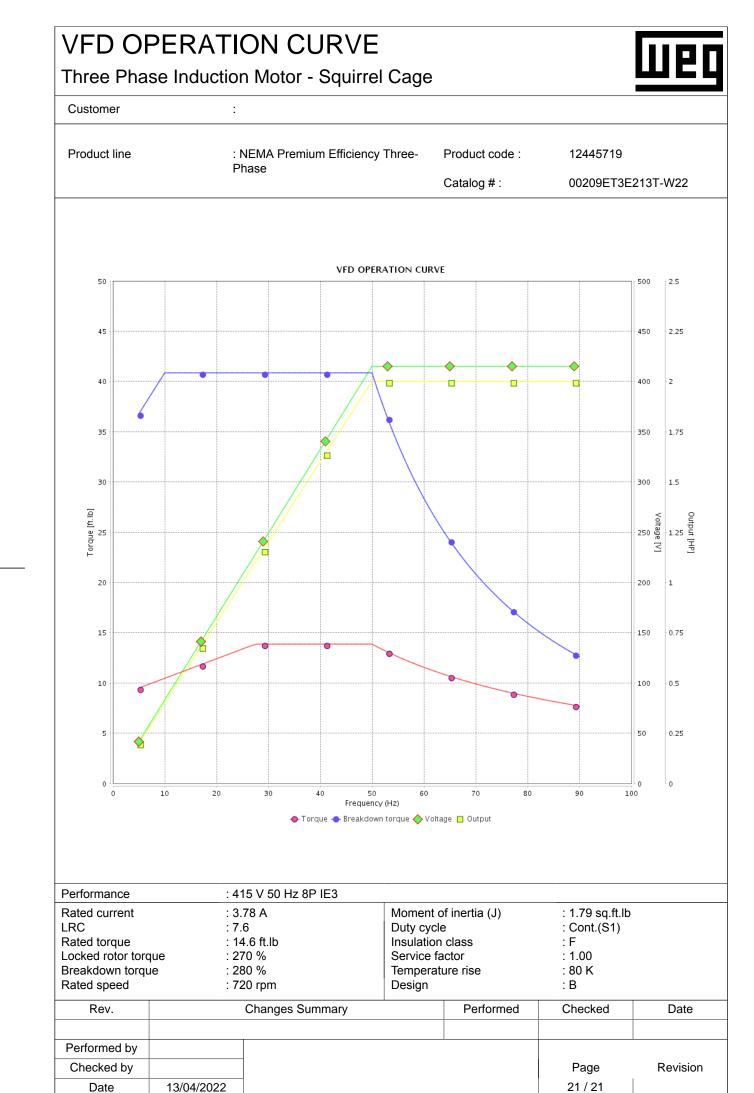
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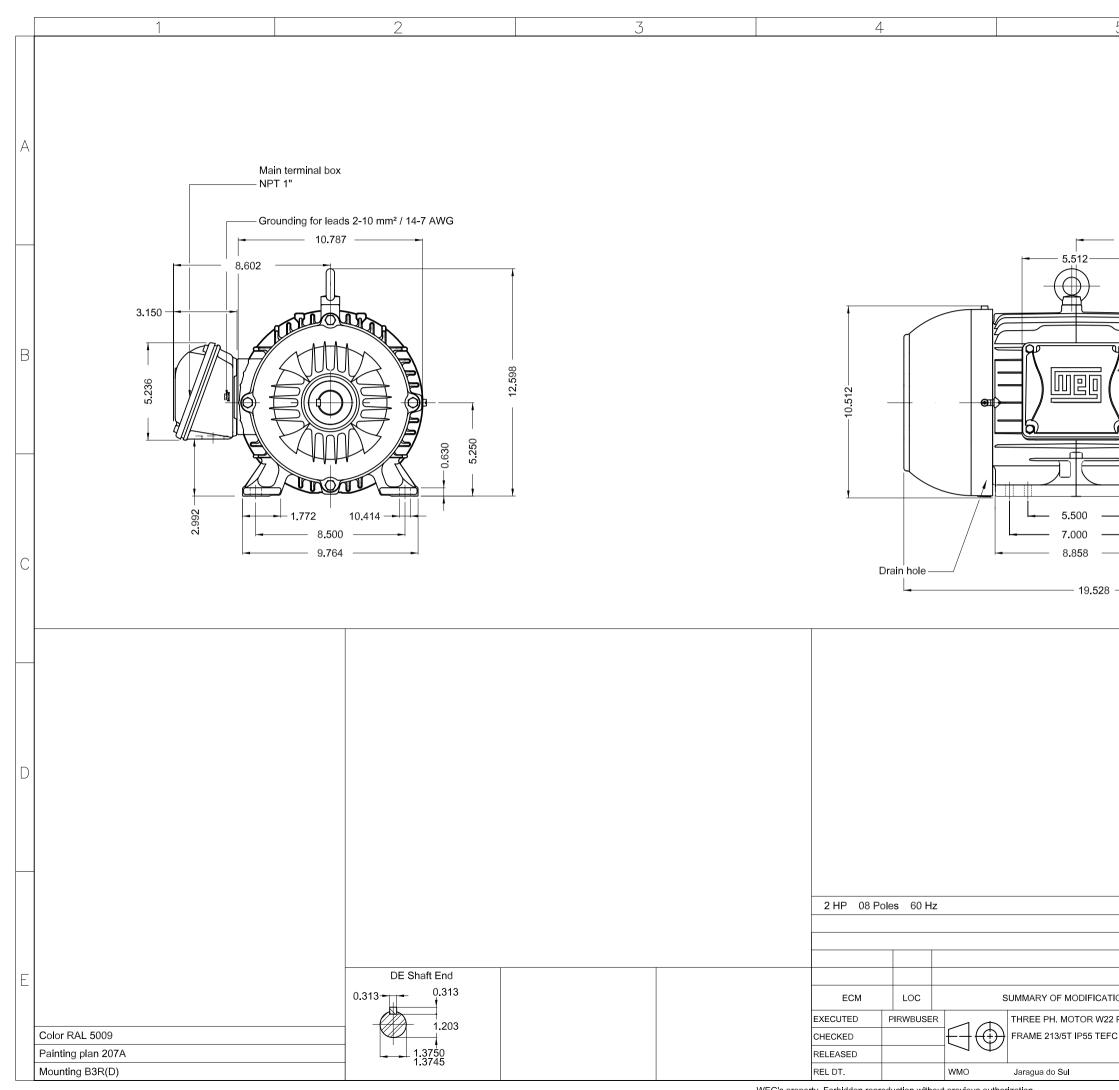


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7.008		2.480 3.375 Drain hole				
					A	Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
PREM. EFF.		PREVI	EW			
C		WDD		ШВ		A3
Produc	t Engineering	SHEET	1 / 1			XME

