DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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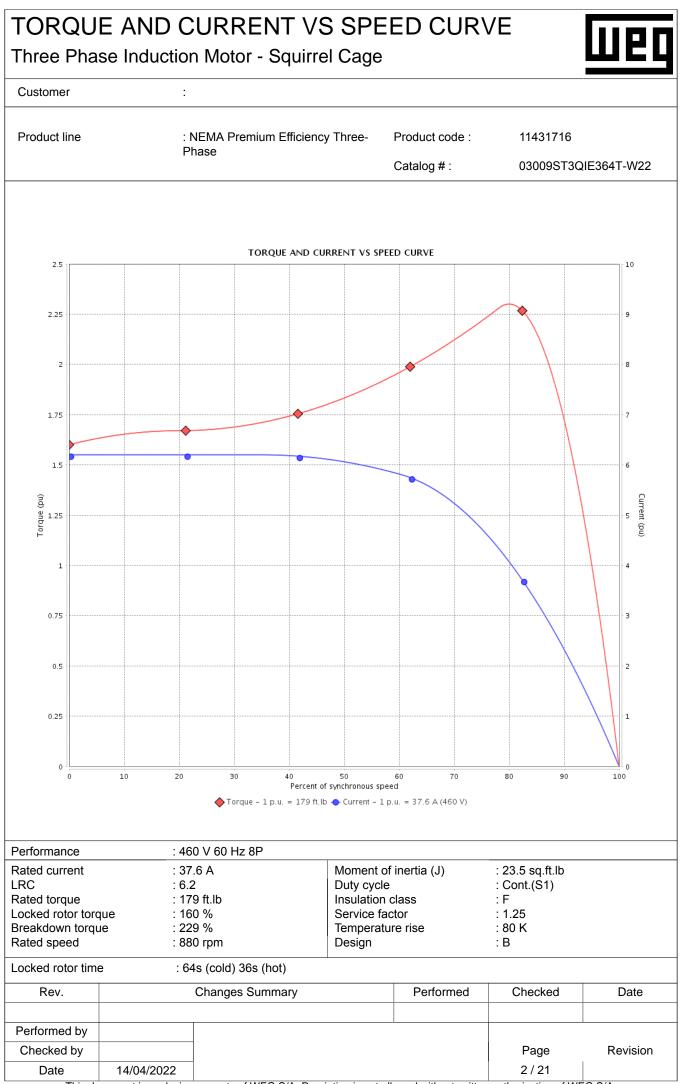


Product line		: NEMA Premium Efficiency Three- Product code : Phase			11431716		
			,	Cata	log # :	03009	ST3QIE364T-W22
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 364/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 820 lb : 23.5 sq.ft.lb	
Output [HP]		30		30	30		30
Poles		8		8	8		8
Frequency [Hz]		60		50	50		50
Rated voltage [V]		460		380	40		415
Rated current [A]		37.6		45.5	42.		42.2
R. Amperes [A]		233		223	23		249
.RC [A]		6.2x(Code G)	4.9	Dx(Code E)	5.5x(Co		5.9x(Code G)
No load current [A]	14.7		14.4	15.	,	16.0
Rated speed [RPN		880		720	72		730
Slip [%]	1	2.22		4.00	3.3		2.67
Rated torque [ft.lb	1	179		219	21		216
ocked rotor torqu		160		120		0	150
Breakdown torque		229		120		0	200
Service factor	, [,0]	1.25		1.00	1.0		1.00
Temperature rise		80 K		105 K 10			105 K
ocked rotor time		64s (cold) 36s (hot)	480 (0	(cold) 27s (hot) 48s (co			48s (cold) 27s (hot
Noise level ²		60.0 dB(A)		56.0 dB(A) 56.0			56.0 dB(A)
	25%		50		00.0 u		
	50%	91.5		90.5		5	90.5
Efficiency (%)	75%	91.7		90.5	90. 90.		90.6
_	100%	91.7		89.5	90.		90.6
	25%	J1.1		09.0	90.	0	30.0
-	<u> </u>	0.63		0.70 (6	0.63
Power Factor	50% 75%	0.63		0.70	0.6		0.65
	100%	0.73		0.79	0.7		0.75
Bearing type Sealing Lubrication interv	1	Drive end Non dr : 6314 C3 63 ² : Inpro/Seal Inpr	<u>ive end</u> 14 C3 o/Seal 000 h	endFoundation loadsC3Max. traction: 1067 lbealMax. compression: 1887 lb			b
Lubricant amour Lubricant type			27 g				
Notes			I				
must be eliminate (1) Looking the m	ed. lotor from the Im and with t weight subjec	ncel the previous one, wh e shaft end. tolerance of +3dB(A). ct to changes after	nich				sts with sinusoidal stipulated in NEMA
			1				
(3) Approximate w manufacturing pro		Changes Summary		F	Performed	Checke	d Date
(3) Approximate v manufacturing pr (4) At 100% of ful Rev.		Changes Summary		F	Performed	Checkee	d Date
 (3) Approximate with the second second		Changes Summary		F	Performed	Checked	d Date Revision

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 Date
 14/04/2022
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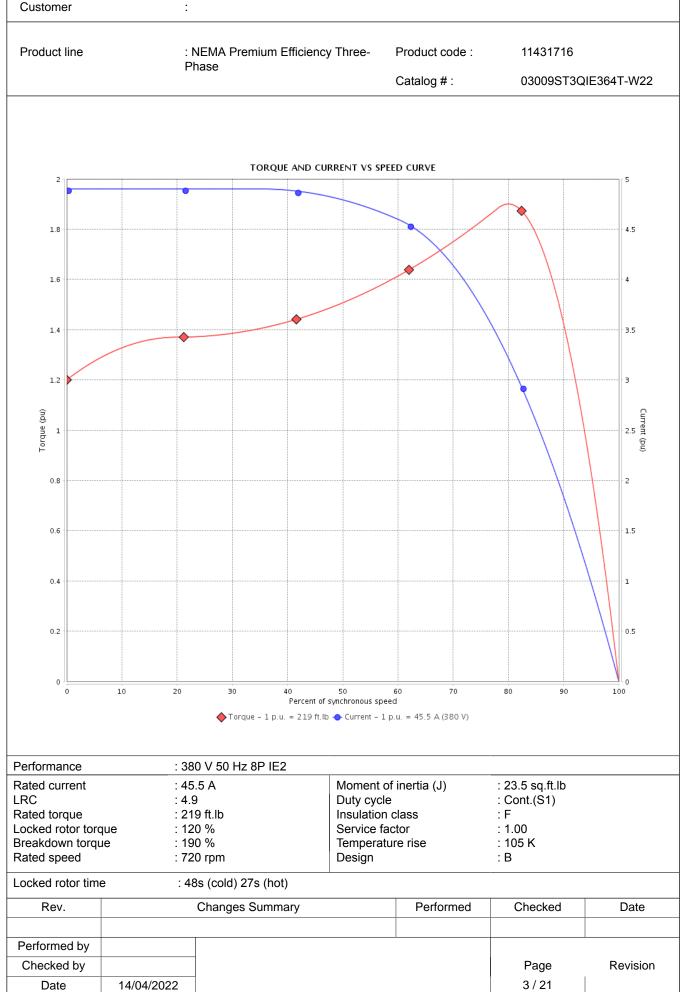
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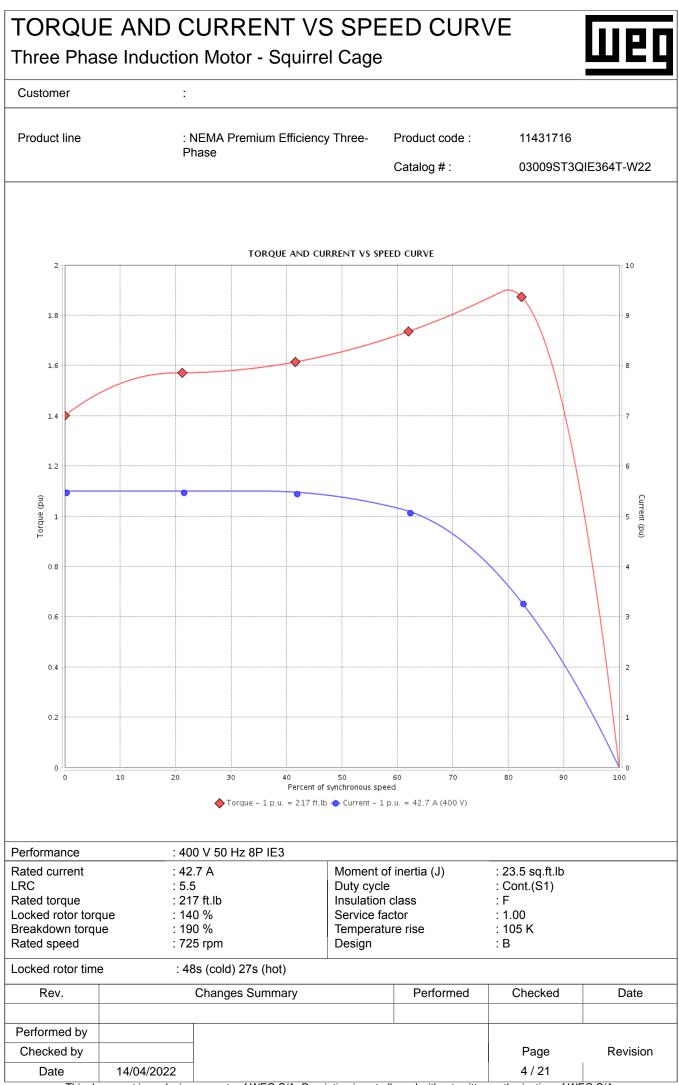
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



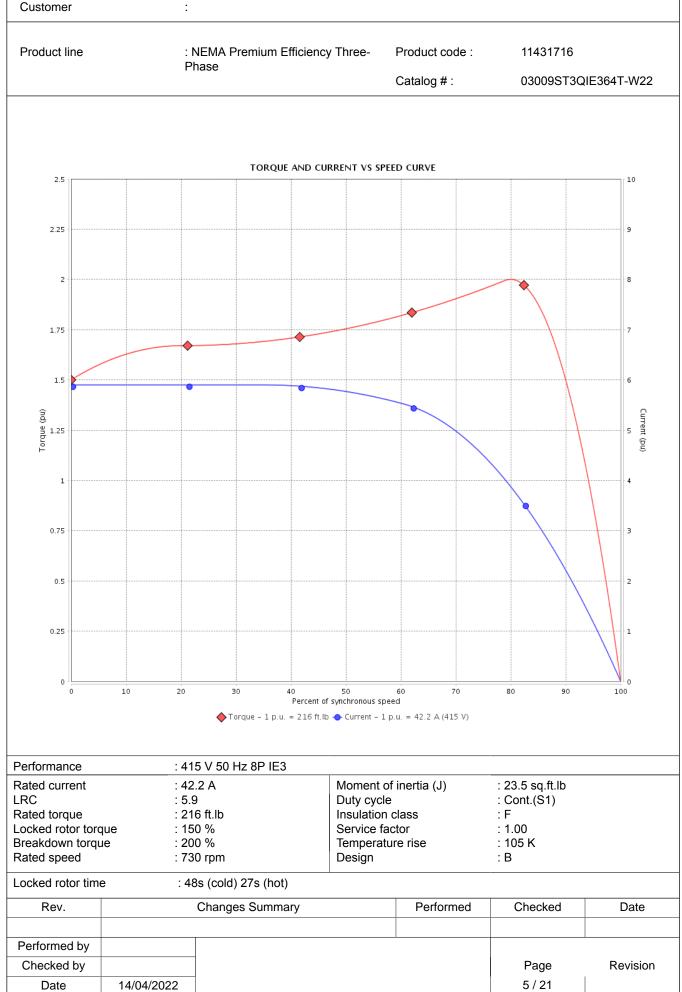
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TORQUE AND CURRENT VS SPEED CURVE

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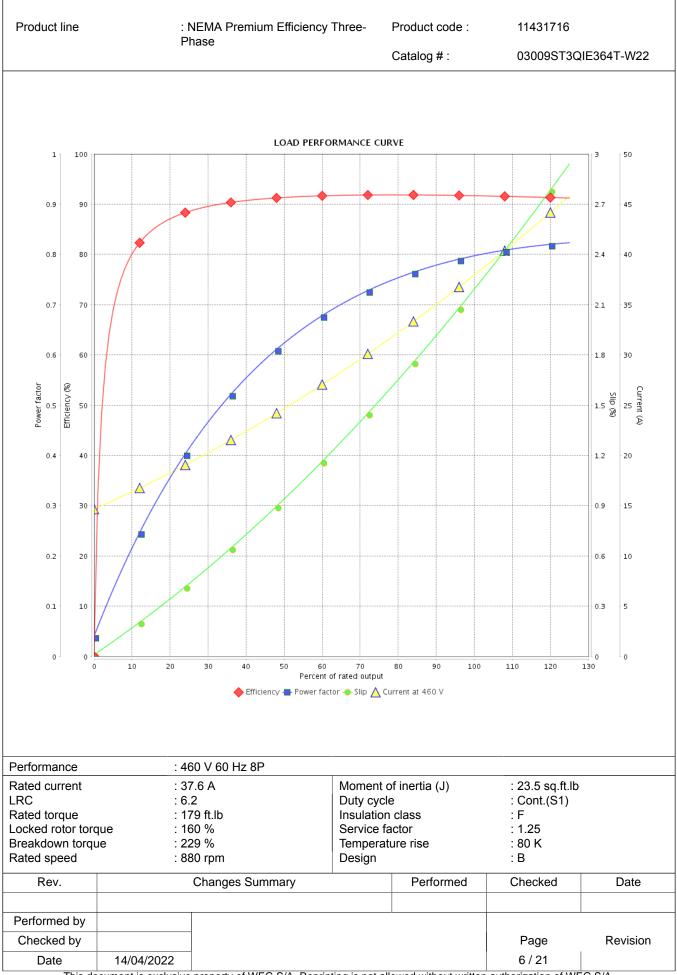
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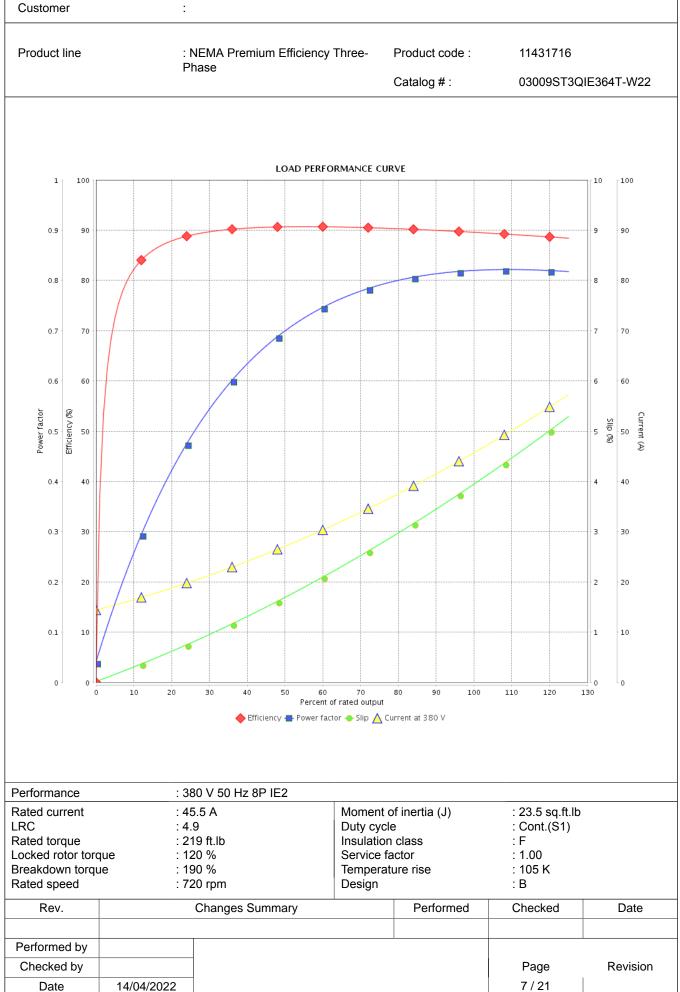


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Three Phase Induction Motor - Squirrel Cage

Customer



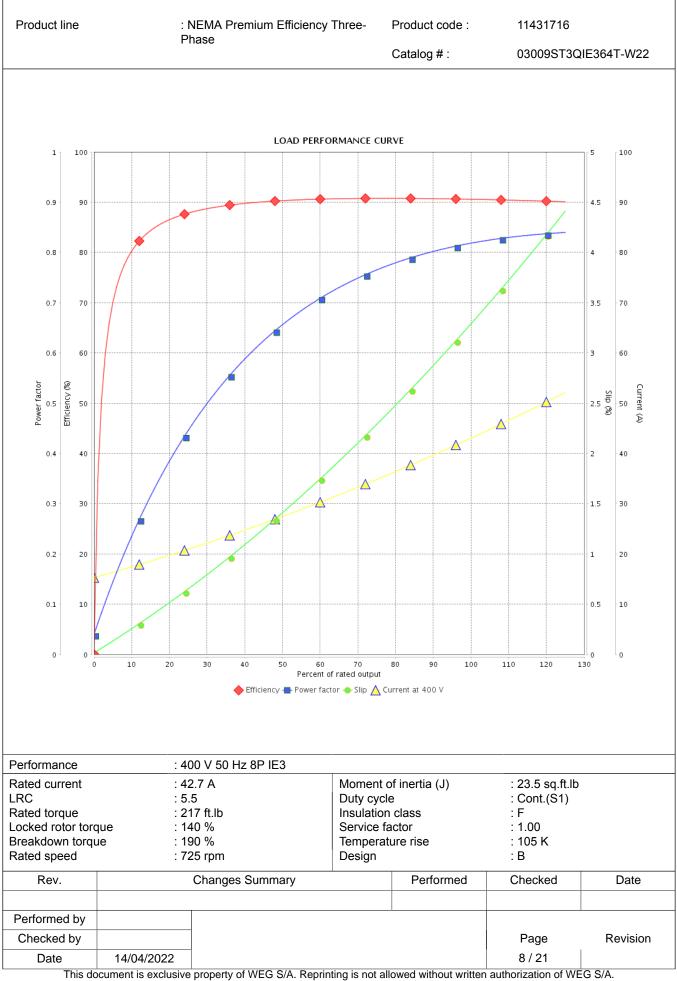
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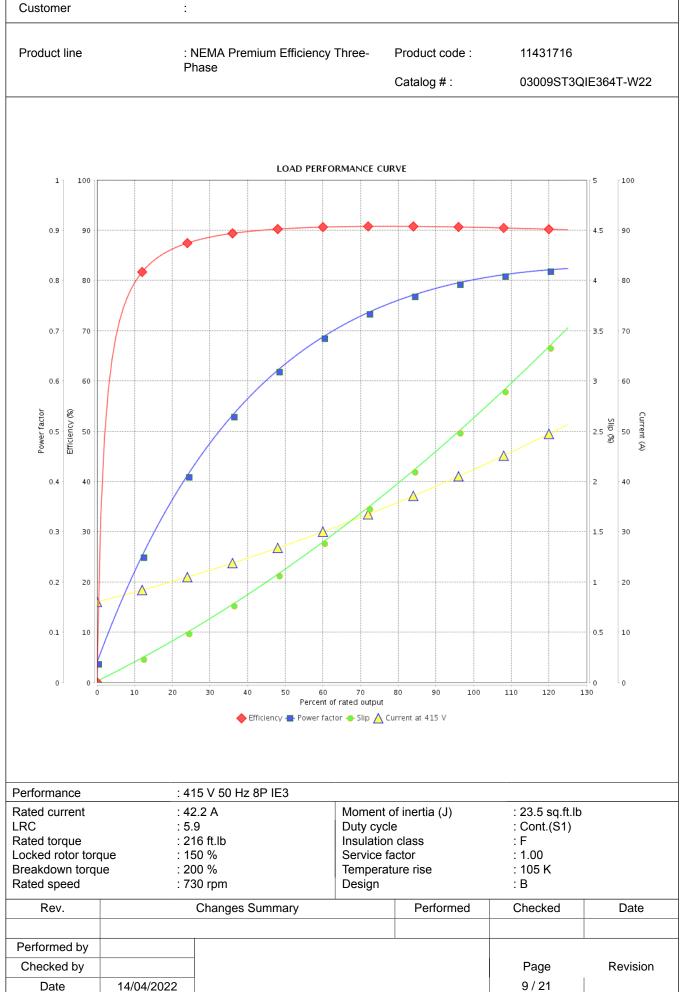


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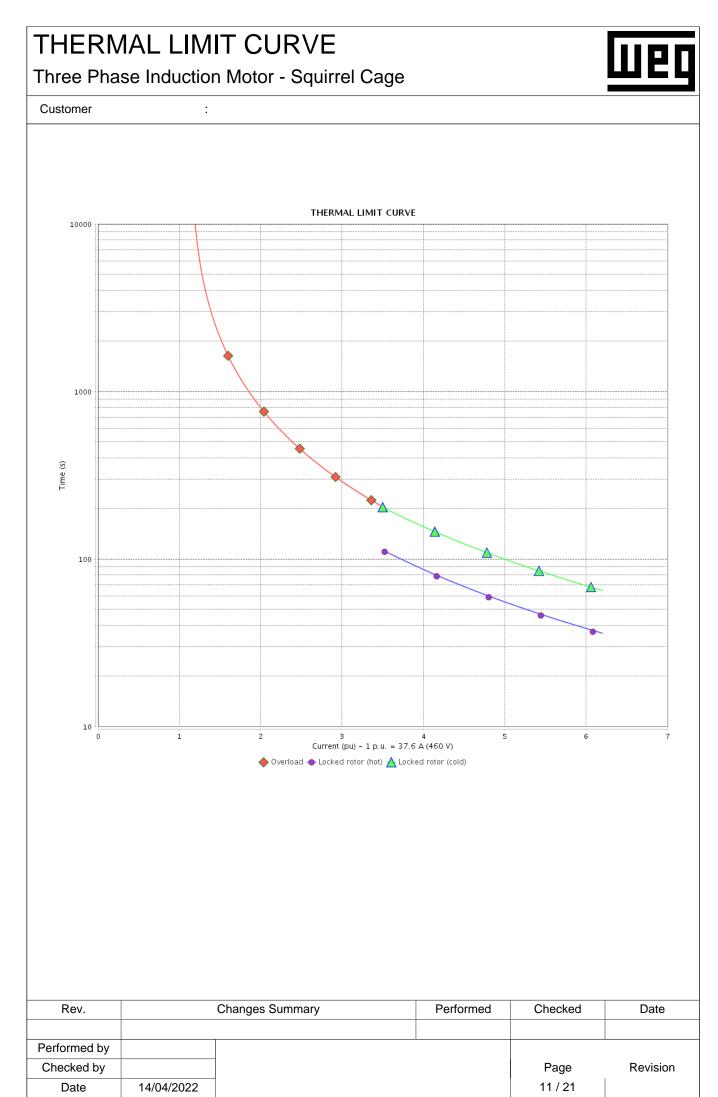
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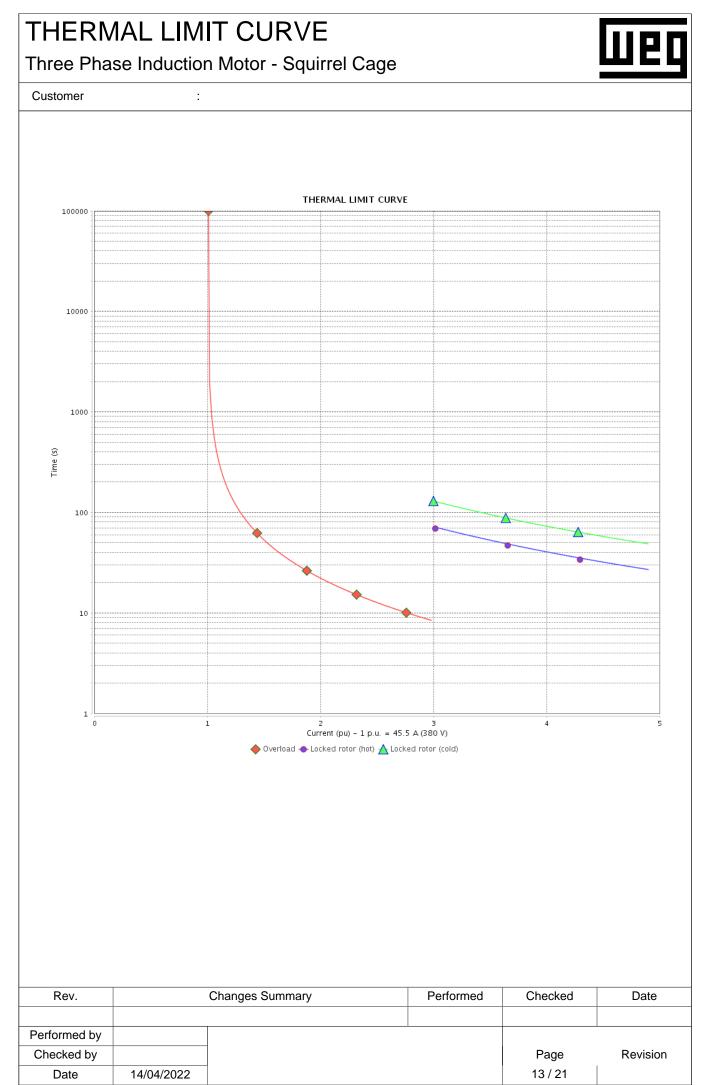
	LIMIT CURVE duction Motor - Squirrel Cage	9	шео
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	11431716
	Phase	Catalog # :	03009ST3QIE364T-W22

Performance : 460 V 60 Hz 8P			
LRC: 6.2Duty cycleRated torque: 179 ft.lbInsulation classLocked rotor torque: 160 %Service factor	Insulation class Service factor Temperature rise		
Heating constant			
Cooling constant			
Rev. Changes Summary F	Performed	Checked	Date
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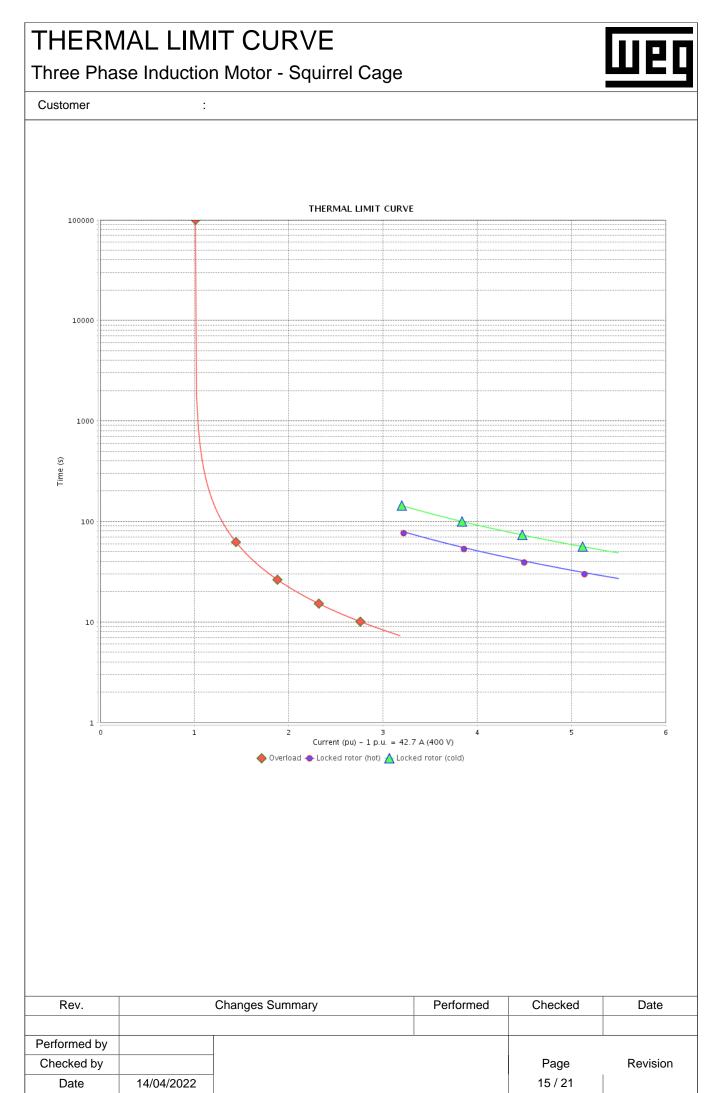
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
	uction Motor - Squirrei Cage	;					
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11431716				
	Filase	Catalog # :	03009ST3QIE364T-W22				

Performance	: 3	80 V 50 Hz 8P IE2	0 V 50 Hz 8P IE2			
Rated current: 45.5 ALRC: 4.9Rated torque: 219 ft.lbLocked rotor torque: 120 %Breakdown torque: 190 %		Duty cycle: ContInsulation class: FService factor: 1.00Temperature rise: 105		: 1.00 : 105 K		
Rated speed	: 72	20 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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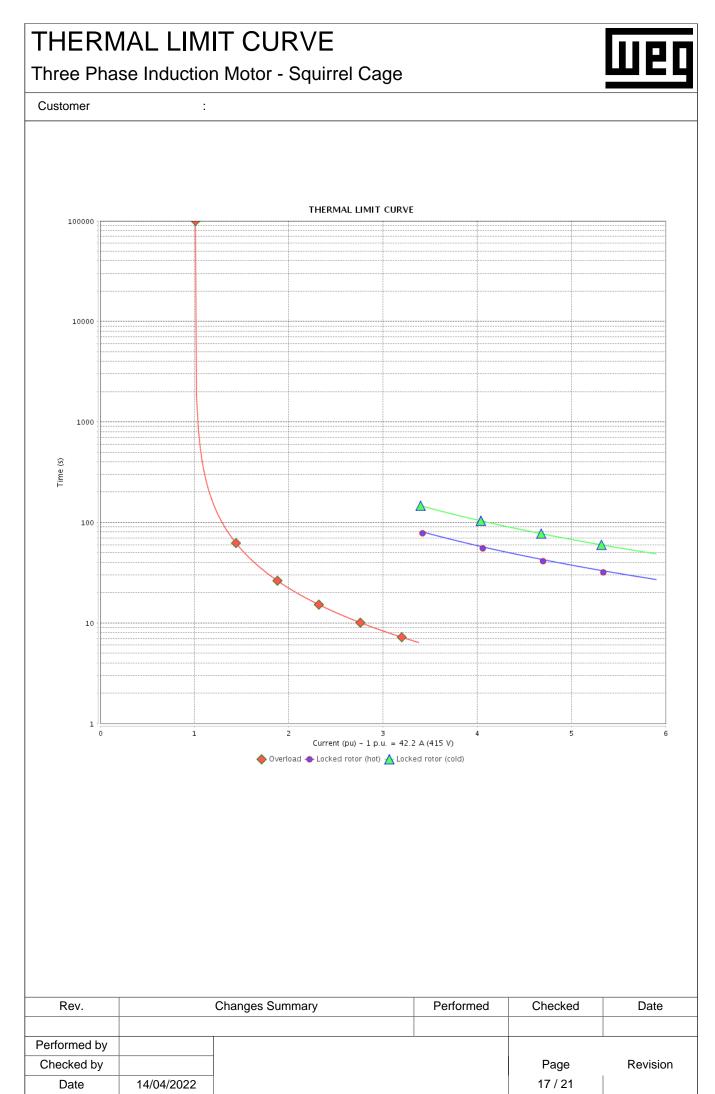
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Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11431716
	1 11436	Catalog # :	03009ST3QIE364T-W22

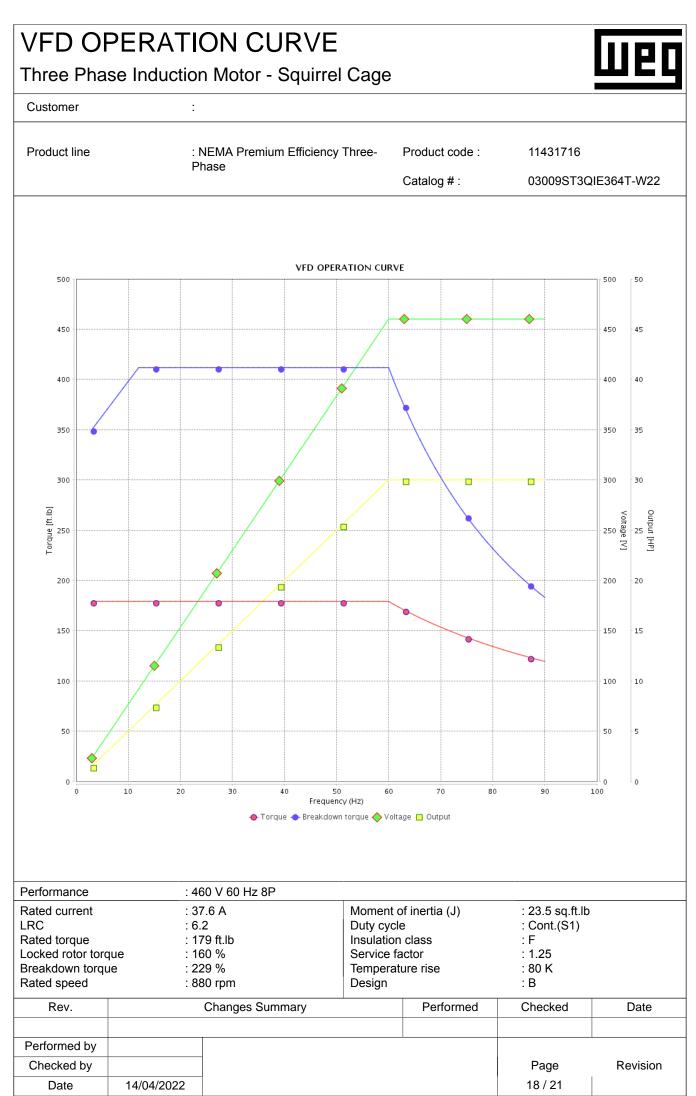
Performance	: 4	400 V 50 Hz 8P IE3	00 V 50 Hz 8P IE3			
Rated current: 42.7 ALRC: 5.5Rated torque: 217 ft.lbLocked rotor torque: 140 %		Moment of inertia (J) Duty cycle Insulation class Service factor		: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00		
Breakdown torqu		90 %	Temperature rise		: 105 K	
Rated speed	: 7	'25 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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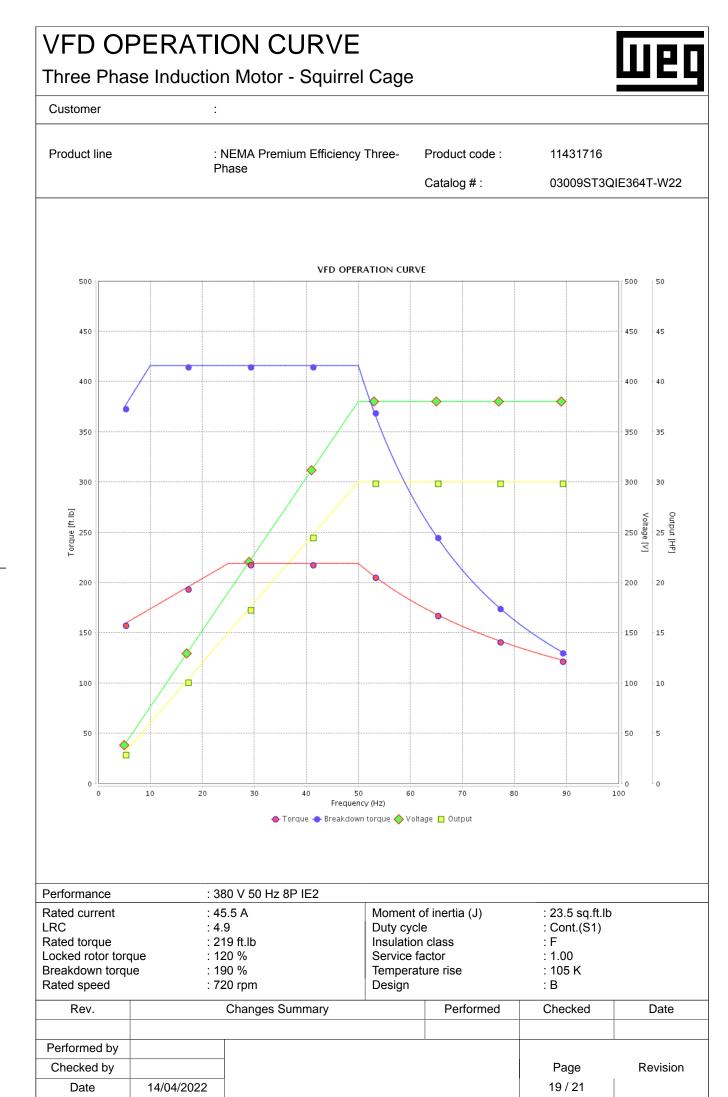


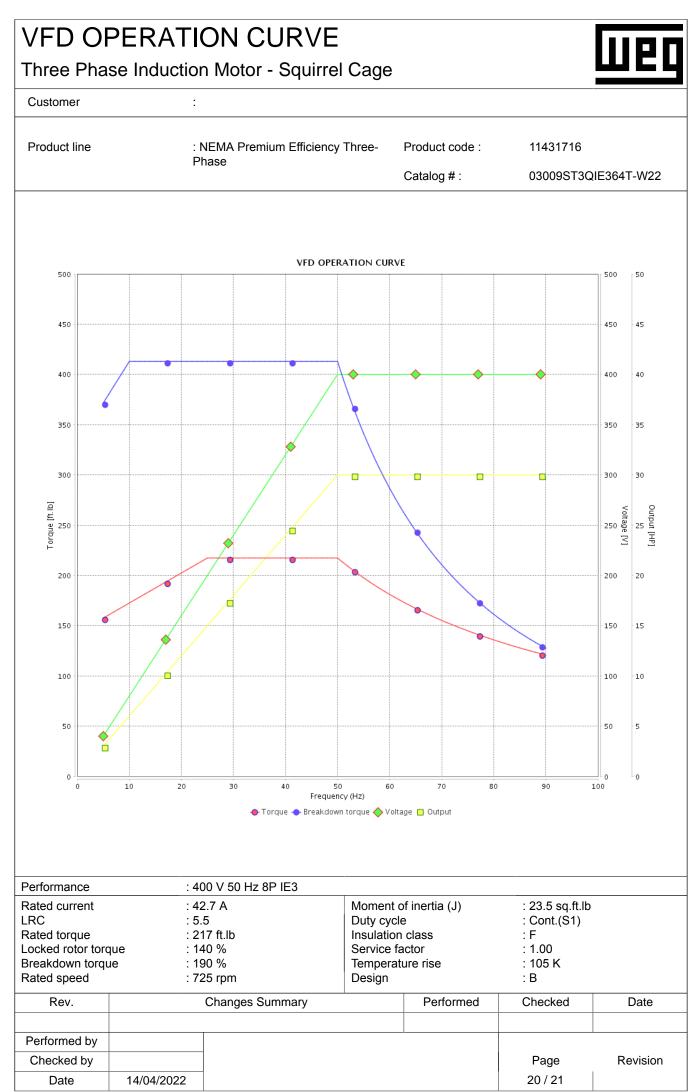
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	uction Motor - Squirrei Cage	;					
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11431716				
	Filase	Catalog # :	03009ST3QIE364T-W22				

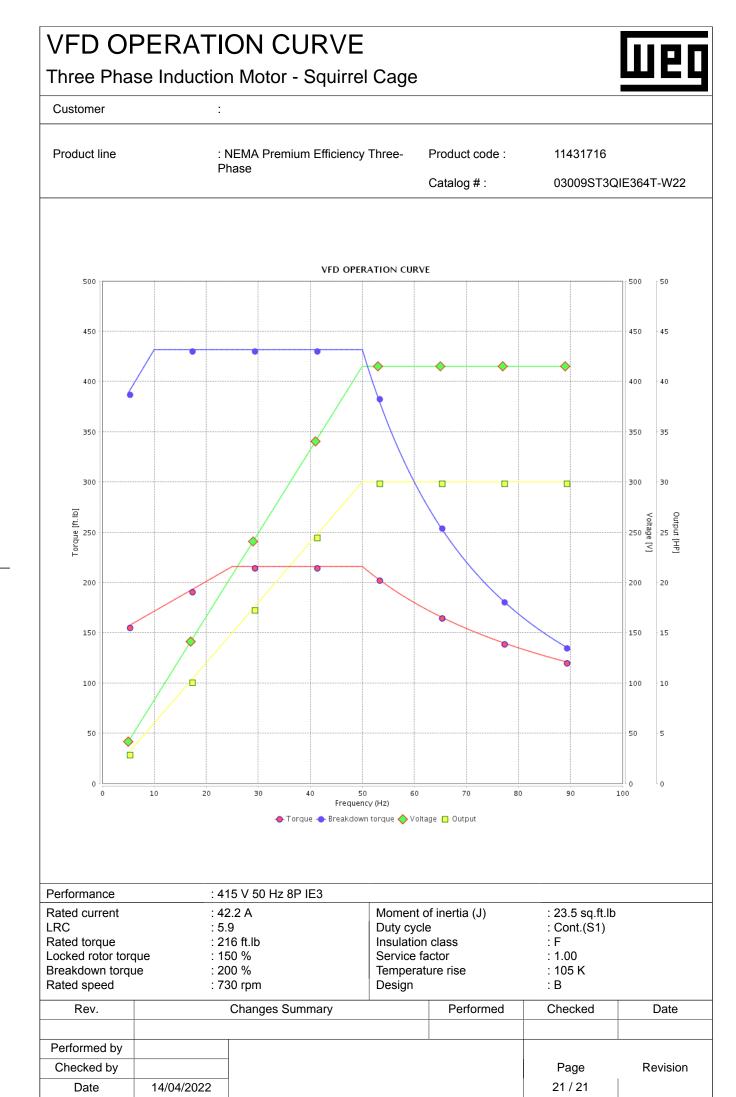
Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 42	2.2 A	Moment of inertia (J)		: 23.5 sq.ft.lb	
LRC	: 5.	.9			: Cont.(S1)	
Rated torque	: 2	16 ft.lb			:F	
Locked rotor torc	ue : 1	50 %) % Service factor		: 1.00	
Breakdown torqu	ie : 20	0 % Temperature rise		ure rise	: 105 K	
Rated speed	: 7:	30 rpm	Design		: B	
Heating constant	t					
Cooling constant	:					
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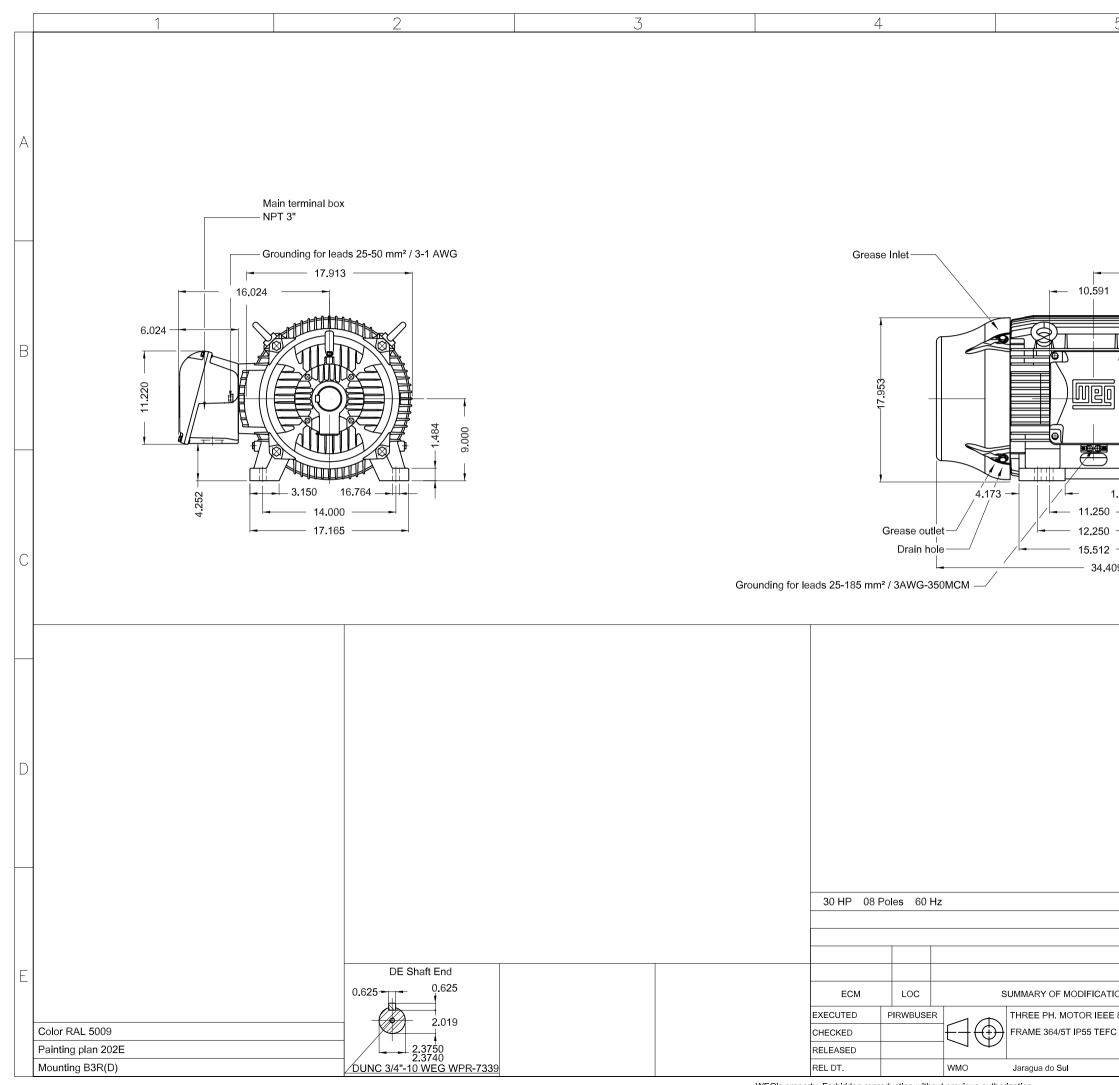








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