## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

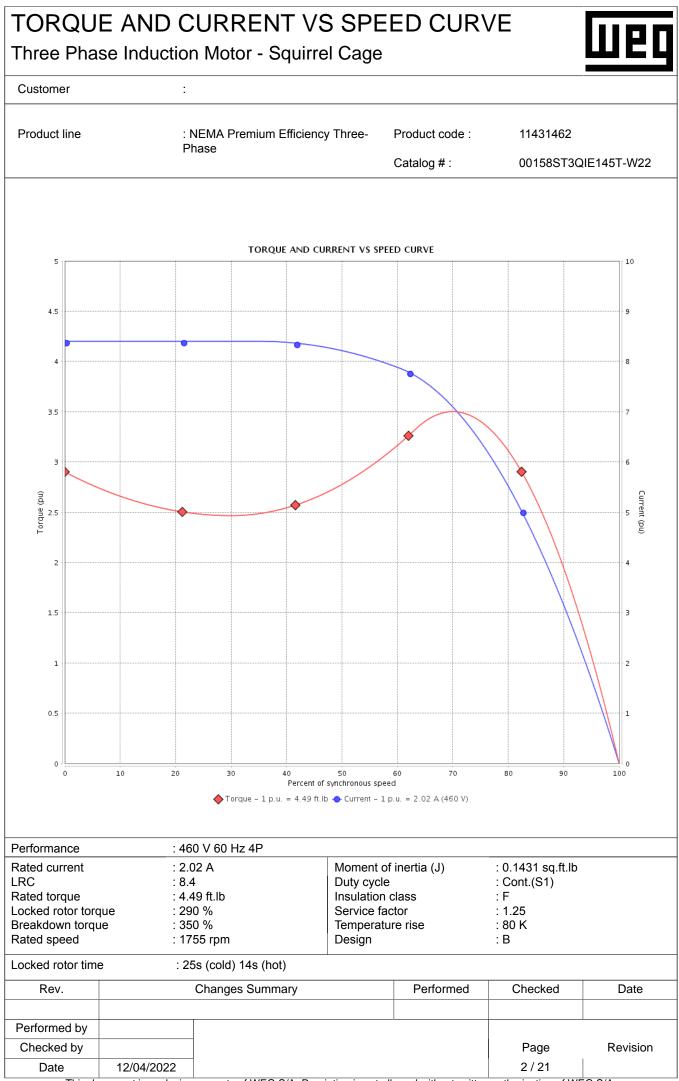
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Product line		: NEMA Premium Effic	ciency TI	hree- Pro	duct code :	114314	462	
		Phase		Cat	alog # :	00158ST3QIE145T-W22		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: F I : Cont.(S1) F : -20°C to +40°C S : 1000 m.a.s.l.		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 61.5 lb : 0.1431 sq.ft.lb		
Output [HP]		1.5		1.5	1.	5	1.5	
Poles		4		4			4	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		460		380	40		415	
Rated current [A]		2.02		2.42	2.3		2.30	
. R. Amperes [A]		17.0		15.5	16		17.0	
_RC [A]		8.4x(Code L)	6.4	x(Code H)	7.0x(C		7.4x(Code K)	
No load current [A]		1.10		1.10	1.:		1.30	
Rated speed [RPN	1]	1755		1440	14		1450	
Slip [%]		2.50		4.00	3.0		3.33	
Rated torque [ft.lb]		4.49		5.47	5.4		5.43	
_ocked rotor torque		290		220	25		280	
Breakdown torque	[%]	350		250	29		320	
Service factor		1.25		1.25	1.1		1.25	
Temperature rise		80 K		80 K	80		80 K	
ocked rotor time		25s (cold) 14s (hot)		old) 14s (hot)			25s (cold) 14s (hot)	
Noise level <sup>2</sup>	050/	51.0 dB(A)	49	9.0 dB(A)	49.0 0	aR(A)	49.0 dB(A)	
	25%	00.5		00 5		-	04.0	
Efficiency (%)	50%	82.5		82.5 84.0	82		81.0	
	75% 100%	85.5 86.5		84.0 84.1	84		<u> </u>	
	25%	80.5		84.1	84	.1	84.1	
Power Factor	25% 50%	0.60	0.60		0.0	a3	0.60	
	75%	0.70		0.67 0.6 0.76 0.7		0.00		
	100%	0.79		0.82	0.8		0.70	
Bearing type Sealing Lubrication interval		Drive end Non dr   : 6205 C3 620   : Inpro/Seal Inpr   : 20000 h 200	<u>ive end</u> 04 C3 ro/Seal 000 h	<u>ve end</u> Foundation loads 4 C3 Max. traction /Seal Max. compression		: 120 lb : 182 lb		
Lubricant amount			4 g EM					
Notes								
must be eliminate (1) Looking the me (2) Measured at 1	d. otor from the m and with t veight subject ocess.	ncel the previous one, whe e shaft end. colerance of +3dB(A). ct to changes after	nich				sts with sinusoidal stipulated in NEMA	
Rev.		Changes Summary			Performed	Checked	d Date	
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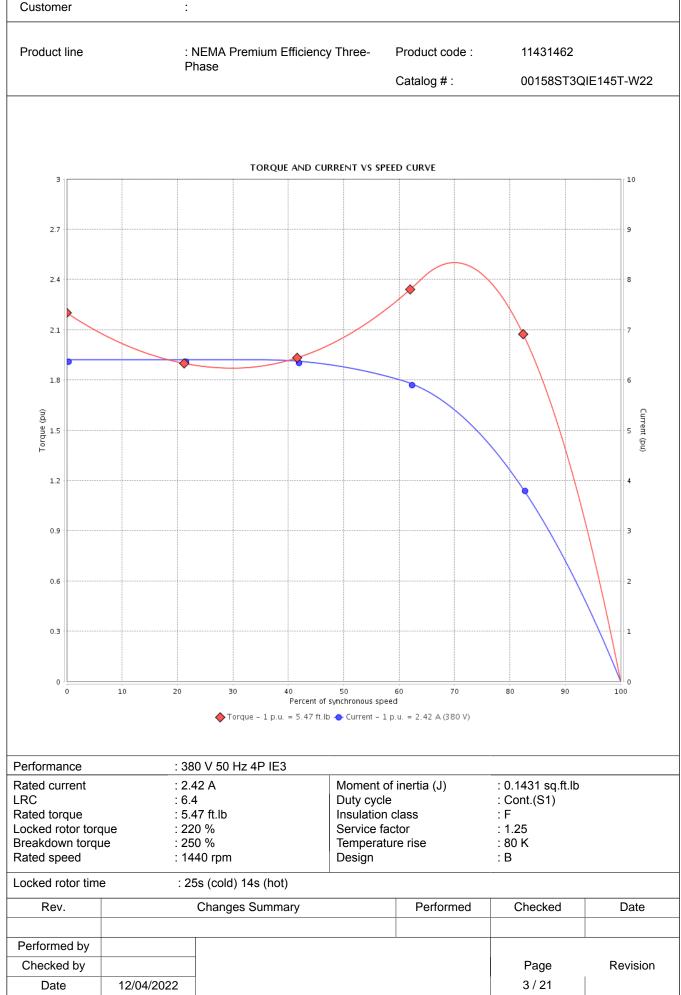
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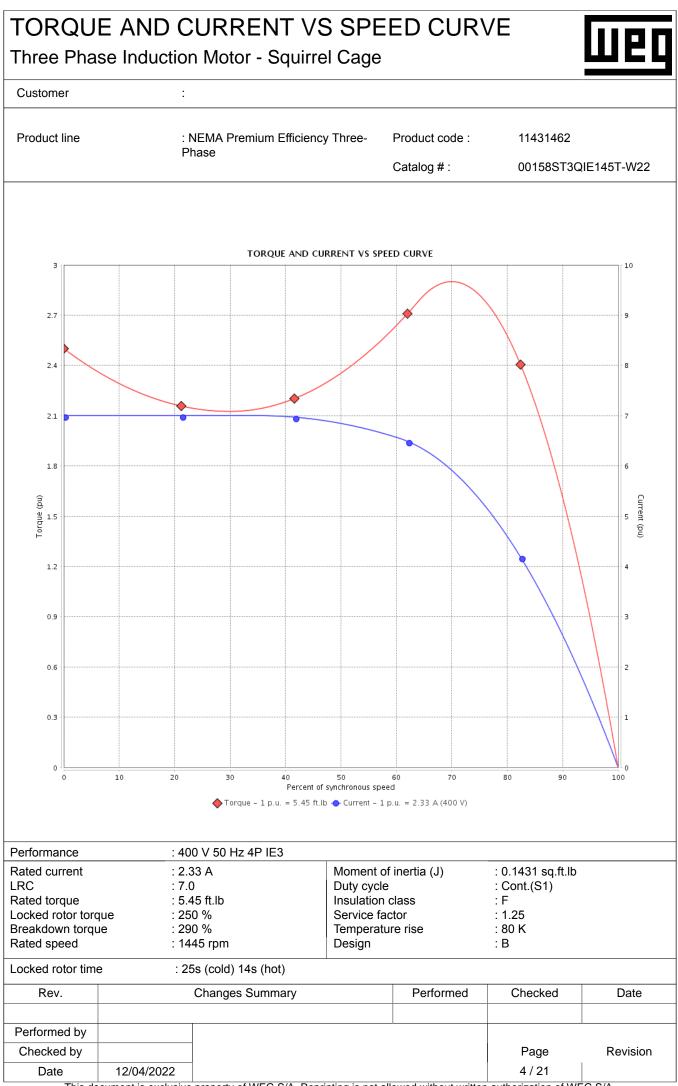
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





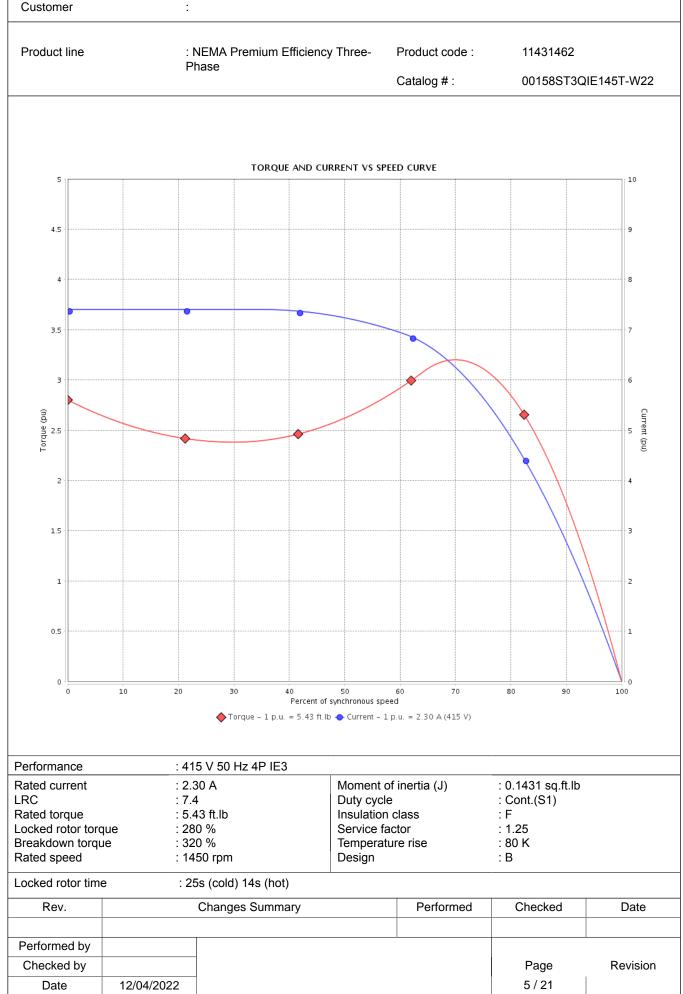
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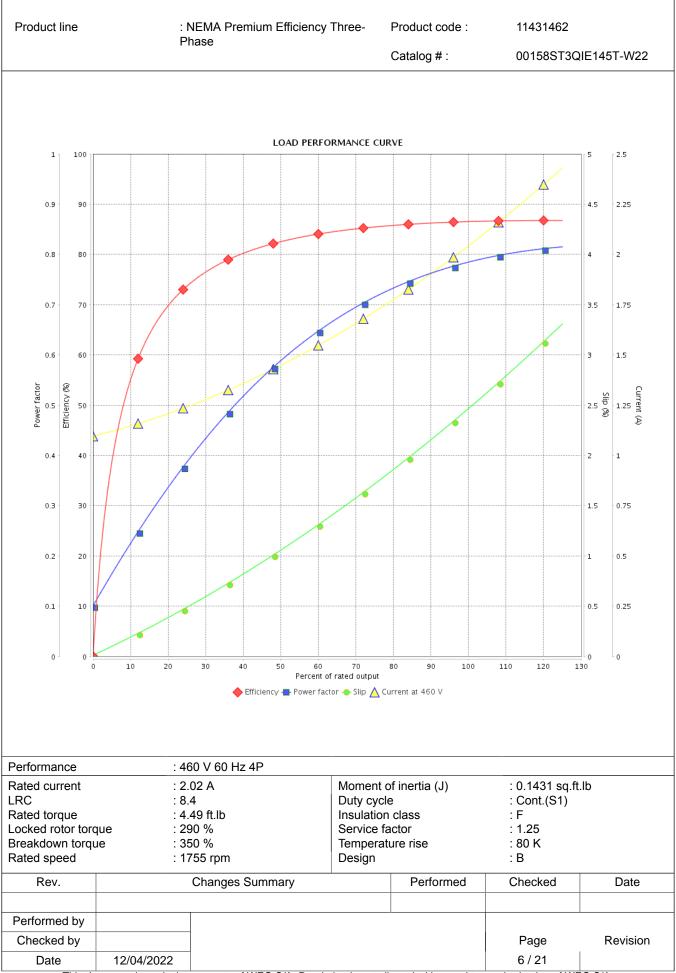
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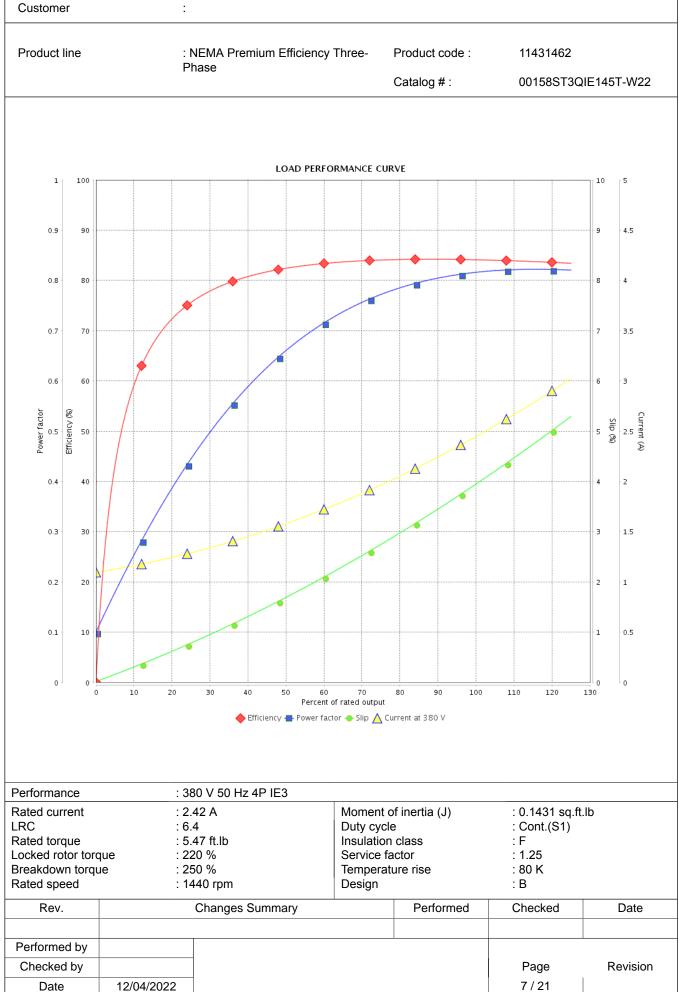


Customer



Three Phase Induction Motor - Squirrel Cage

#### Customer



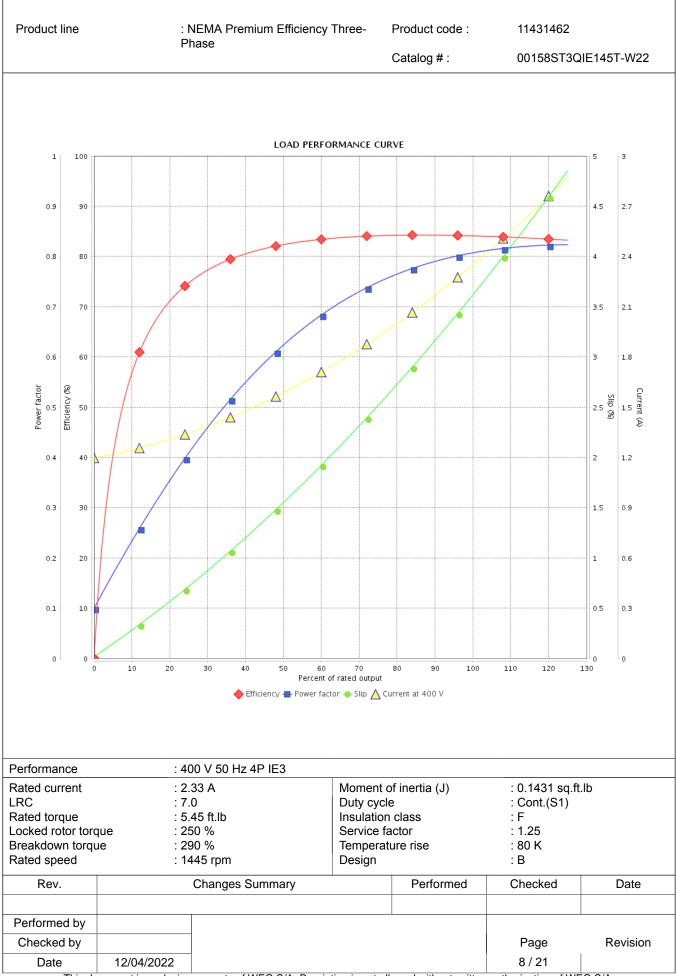
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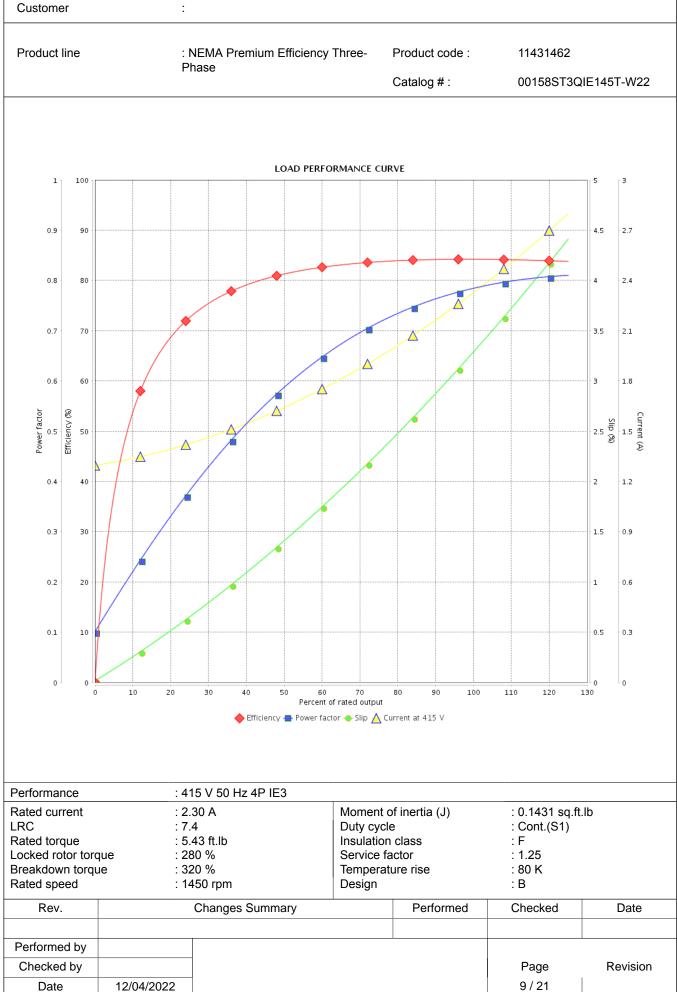


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Three Phase Induction Motor - Squirrel Cage

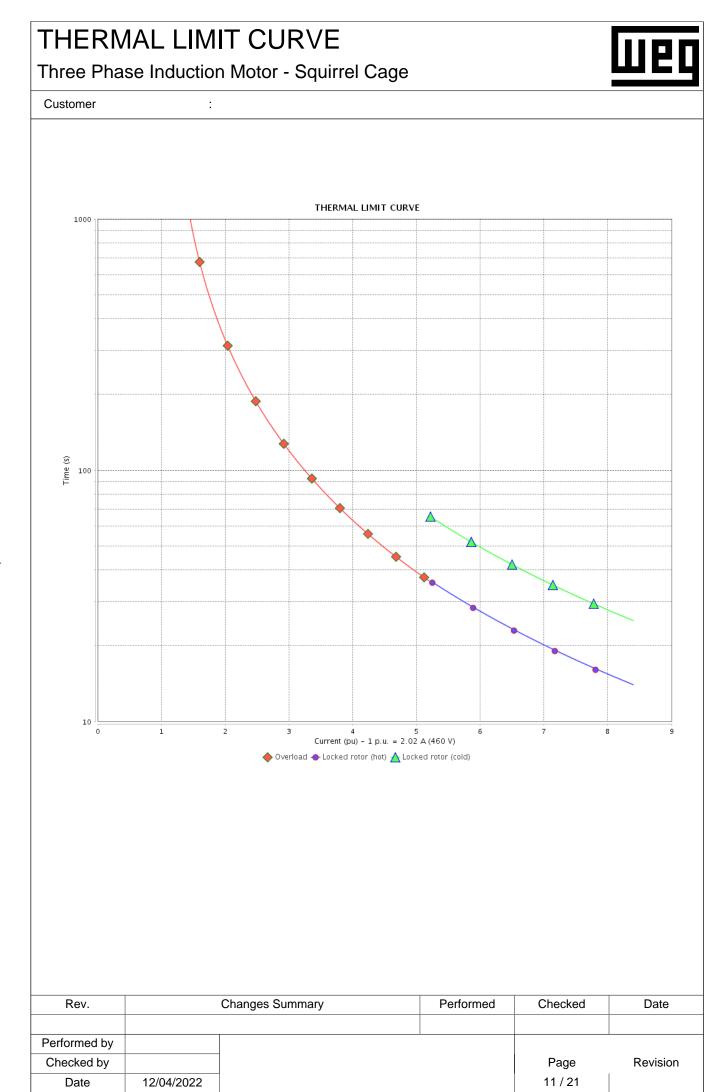
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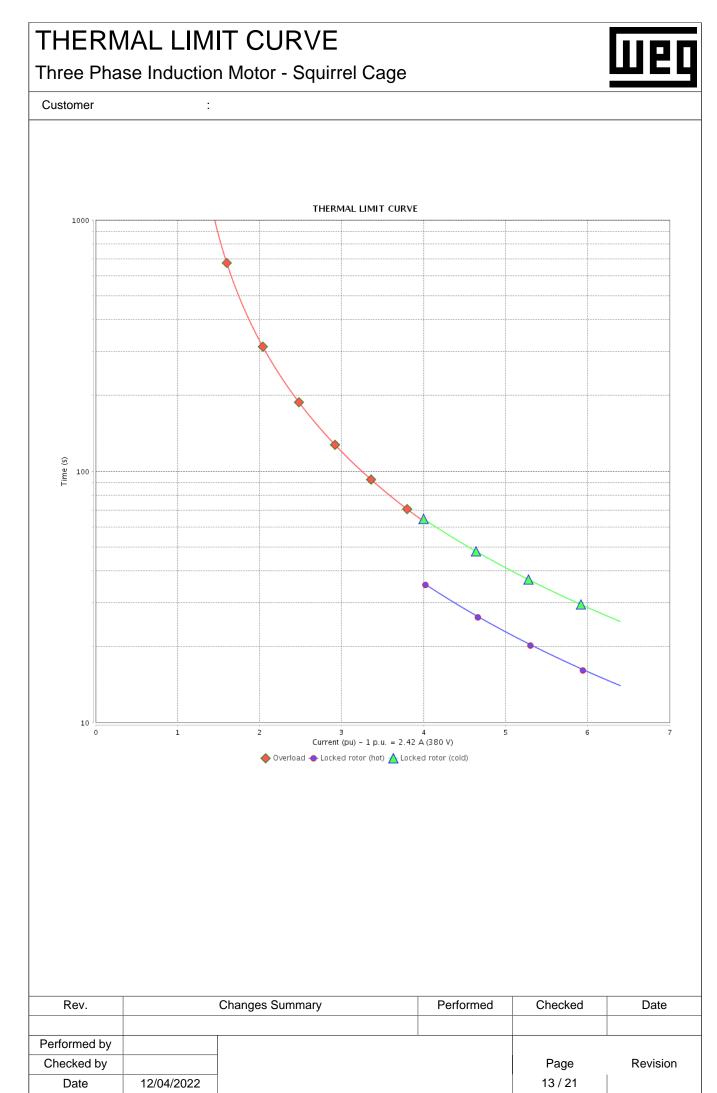
	LIMIT CURVE duction Motor - Squirrel Cage	9	Шео
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	11431462
	Phase	Catalog # :	00158ST3QIE145T-W22

Performance	: 4	60 V 60 Hz 4P				
Rated current	: 2	2.02 A	Moment of inertia (J)		: 0.1431 sq.ft.lb	
LRC	: 8	3.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	.49 ft.lb	Insulation class		: F	
Locked rotor tore	que : 2	290 %	Service factor		: 1.25	
Breakdown torqu	ue : 3	350 %	Temperature rise		: 80 K	
Rated speed	: 1	755 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
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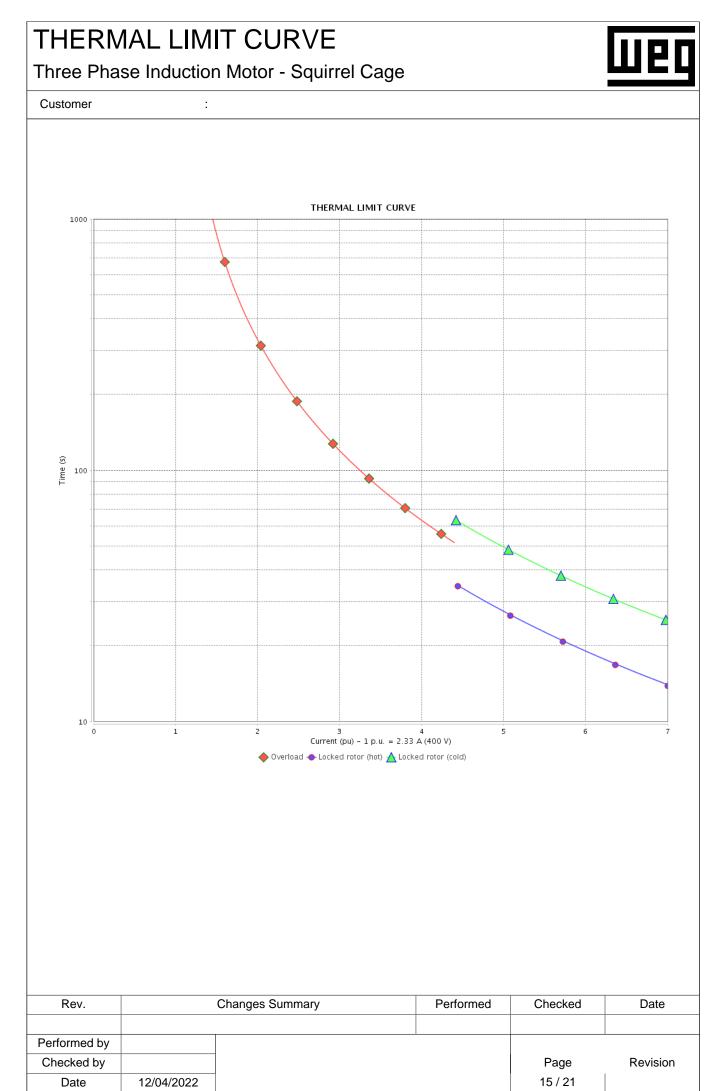
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11431462 00158ST3QIE145T-W2

Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	.42 A	Moment o	f inertia (J)	J) : 0.1431 sq.ft.lb	
LRC	: 6	.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	.47 ft.lb	Insulation	class	:F	
Locked rotor tor	que : 2	20 %	Service factor		: 1.25	
Breakdown torqu	Je :2	50 %	Temperature rise		: 80 K	
Rated speed	: 1	440 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
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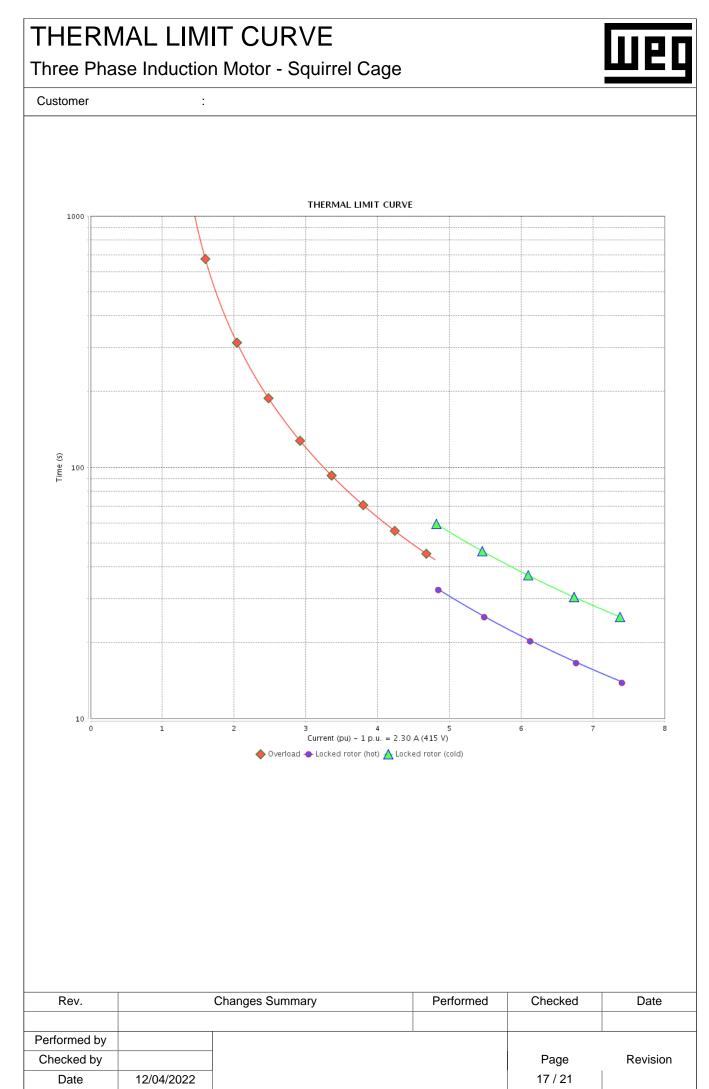
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11431462 00158ST3QIE145T-W22

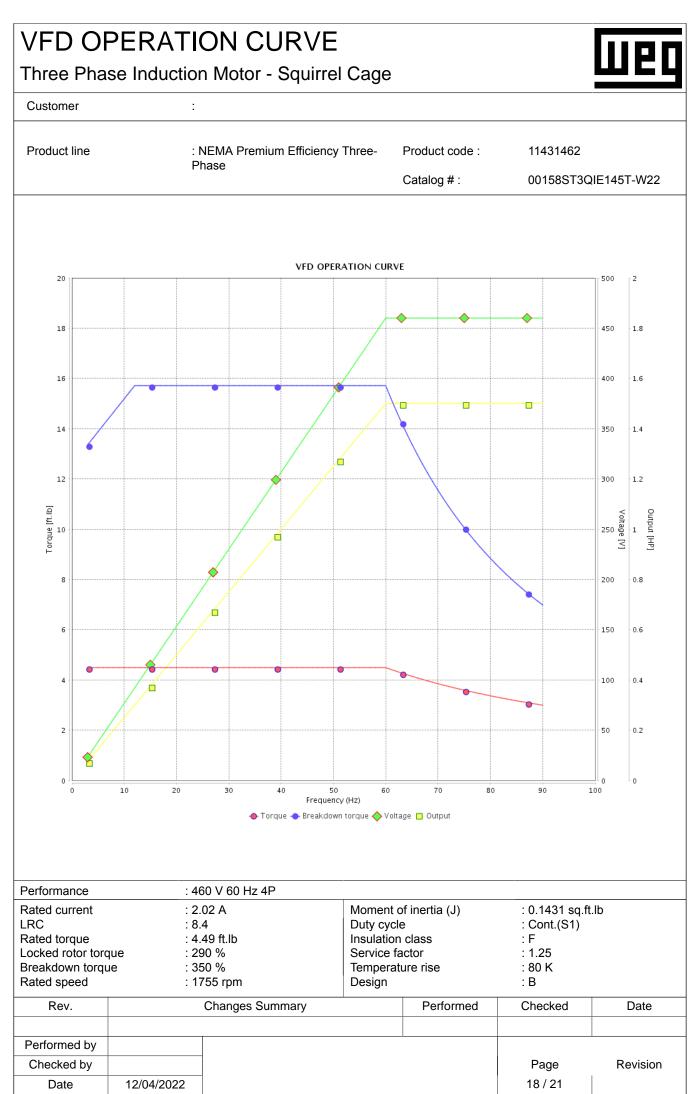
Performance	:	400 V 50 Hz 4P IE3				
Rated current: 2.33 ALRC: 7.0Rated torque: 5.45 ft.lbLocked rotor torque: 250 %Breakdown torque: 290 %Rated speed: 1445 rpm		Duty cycle: ConInsulation class: FService factor: 1.25		: 1.25 : 80 K	lb	
Heating constant	t					
Cooling constant	t					
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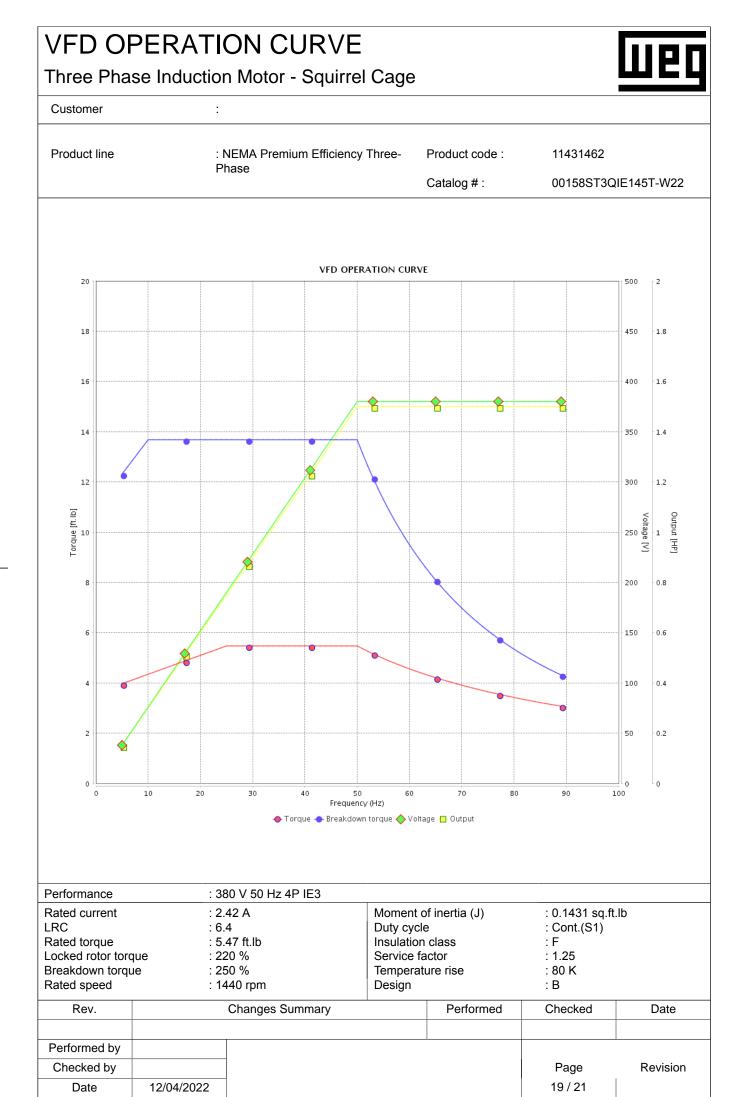


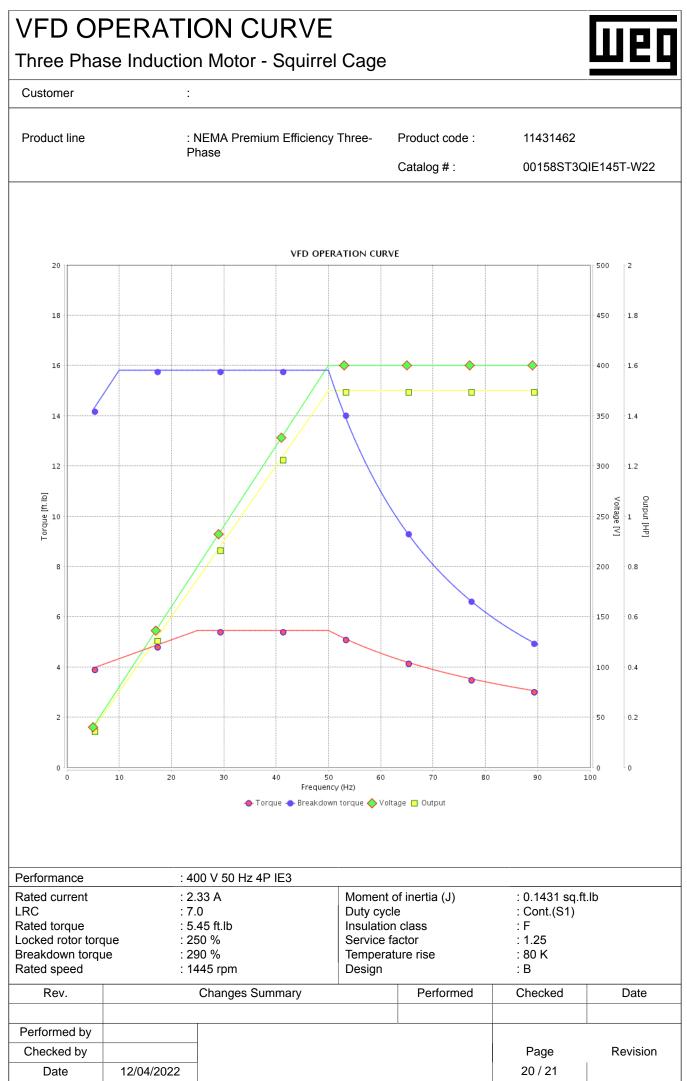
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	11431462
	Flidst	Catalog # :	00158ST3QIE145T-W22

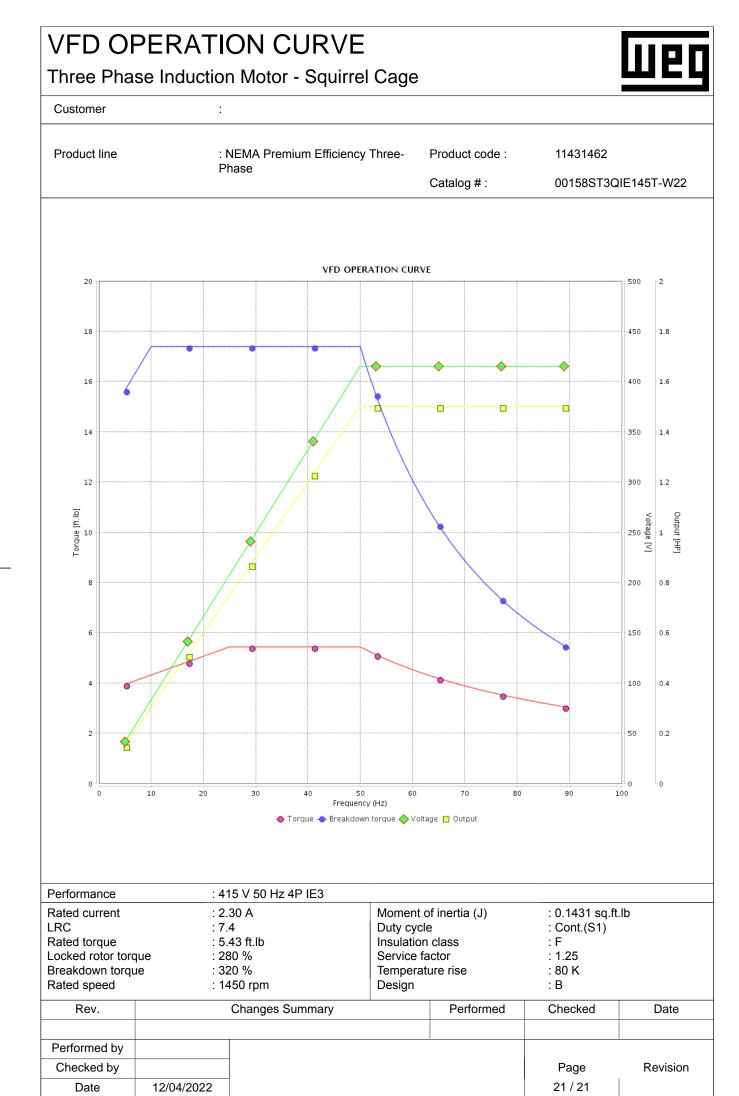
Performance	: 4	: 415 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 5 que : 2 Je : 3	.30 A .4 .43 ft.lb 80 % 20 % 450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle Insulation class Service factor Temperature rise		: 0.1431 sq.ff : Cont.(S1) : F : 1.25 : 80 K : B	i.lb
Heating constant	t							
Cooling constant	t							
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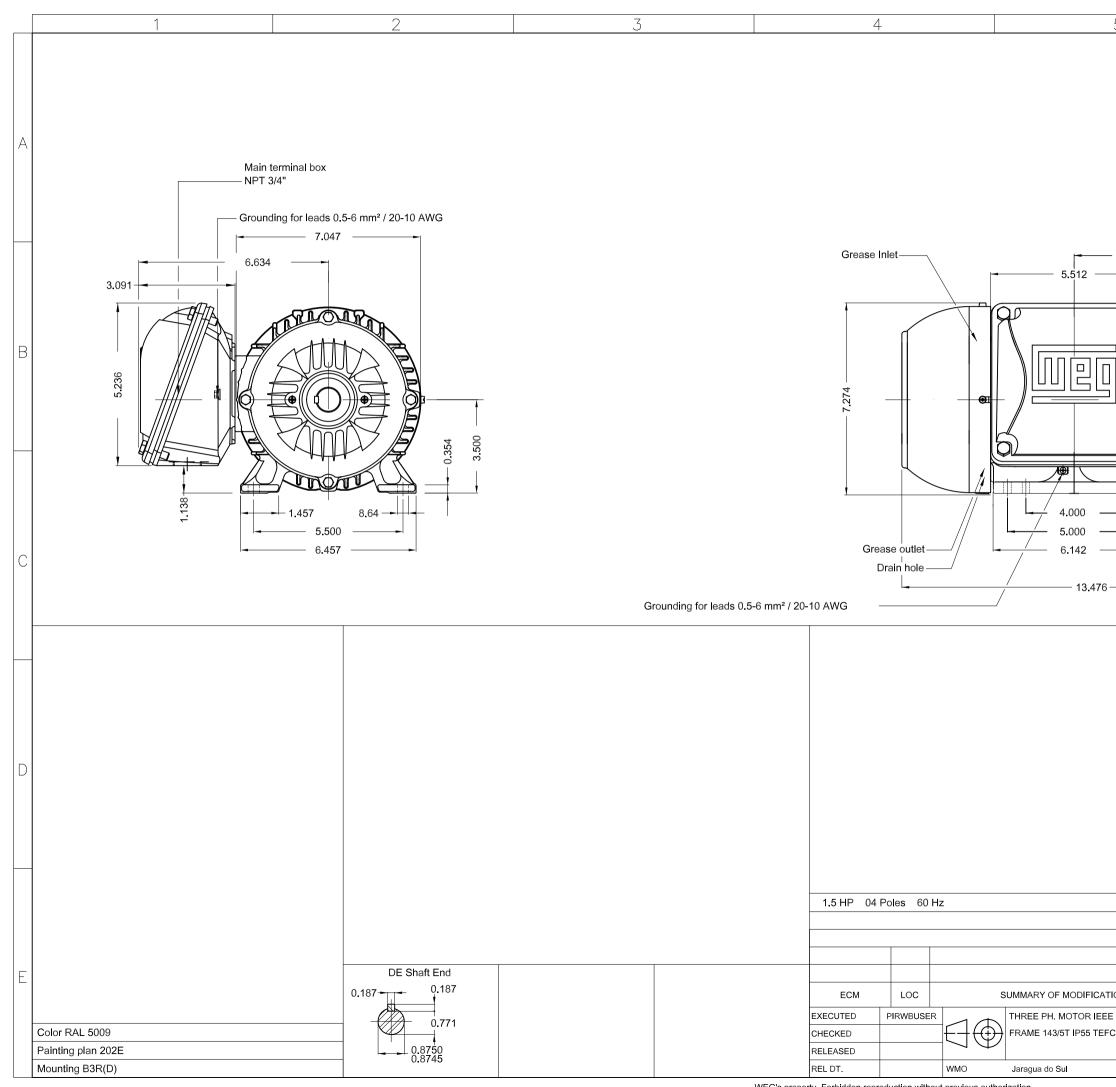












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		- 2.250				
		- Grease outlet - Drain hole				
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