# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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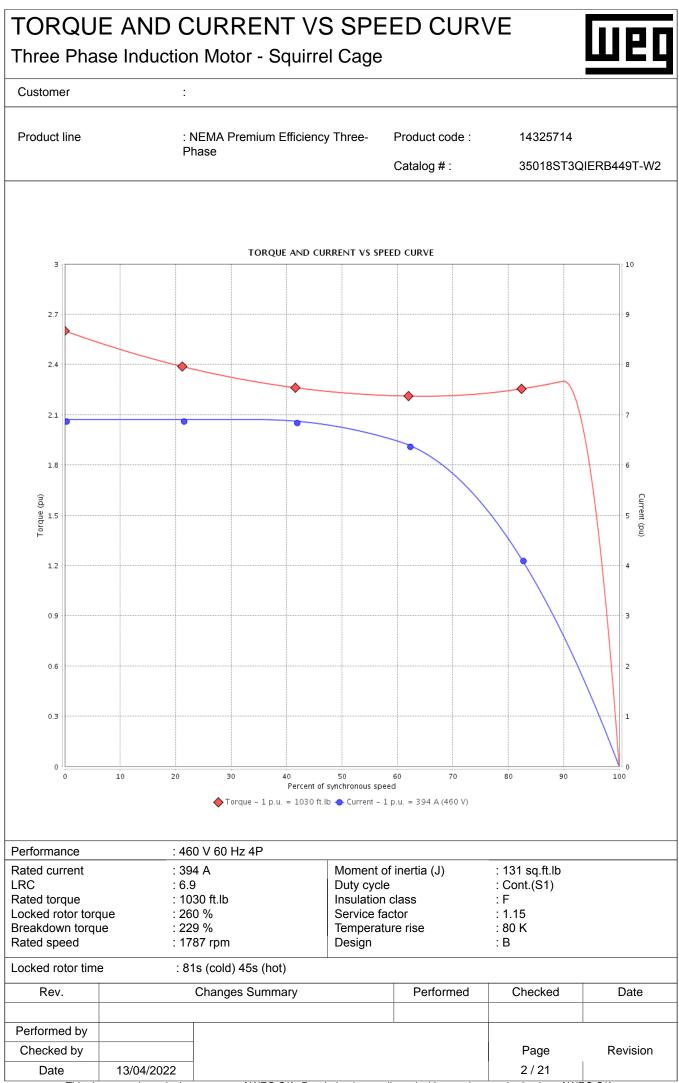


Product line Frame Insulation class		: NEMA Premium Effic						
Insulation class		Phase		ee- Product code :		14325714		
Insulation class				Catal	og # :	350188	ST3QIERB449T-W2	
		: L447/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Mounting:Rotation1:Starting method:Approx. weight3:		: F-1 : Both ( : Direct : 3223	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 3223 lb : 131 sq.ft.lb	
Output [HP]		350		300	300	)	300	
Poles		4		4	4		4	
Frequency [Hz]		60 460		50 380	50 400		50 415	
Rated voltage [V] Rated current [A]		394		404	388		379	
. R. Amperes [A]		2719		2868	306		3222	
RC [A]		6.9x(Code G)	7 1	x(Code G)	7.9x(Co		8.5x(Code J)	
No load current [A	1	115	1.1	110	116	,	122	
Rated speed [RPN		1787		1486	148		1490	
Slip [%]		0.72		0.93	0.80		0.67	
Rated torque [ft.lb	1	1030		1060	106		1060	
_ocked rotor torqu		260		240	260		290	
Breakdown torque		229		229	250		280	
Service factor		1.15		1.15	1.15	5	1.15	
Temperature rise		80 K		80 K	80 k		80 K	
_ocked rotor time		81s (cold) 45s (hot)		old) 49s (hot)	75s (cold) 4		68s (cold) 38s (hot)	
Noise level <sup>2</sup>		77.0 dB(A)	77	7.0 dB(A)	77.0 dE		77.0 dB(A)	
	25%	95.7		96.1	95.8		95.5	
Efficiency (%)	50%	95.8		96.2	95.9		95.6	
	75%	96.2		96.3	96.3		96.2	
	100%	96.2		96.3	96.3		96.2	
Power Factor	25%	0.52		0.52	0.48		0.45	
	50%	0.76		0.74	0.70		0.66	
	75%	0.83		0.82	0.80		0.78	
	100%	0.86 Drive end Non dr	ive end	0.86 Foundation lo	0.85 ads	D	0.84	
Bearing type Sealing Lubrication inter- Lubricant amoun		: NU-322 C3 63 <sup>-7</sup> : Inpro/Seal Inpr : 4000 h 80 : 60 g 4	9 C3Max. traction: 6281 lbb/SealMax. compression: 9504 lb00 h5 g					
Lubricant type Notes		: Mobil Polyrex E	-101					
must be eliminate	ed. notor from the 1m 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	
(2) Measured at 1								
(2) Measured at 1 (3) Approximate v manufacturing pro		Changes Summary		P	erformed	Checked	d Date	
<ul> <li>(2) Measured at</li> <li>(3) Approximate v</li> <li>manufacturing pre-</li> <li>(4) At 100% of full</li> </ul>		Changes Summary		P	erformed	Checked	d Date Revision	

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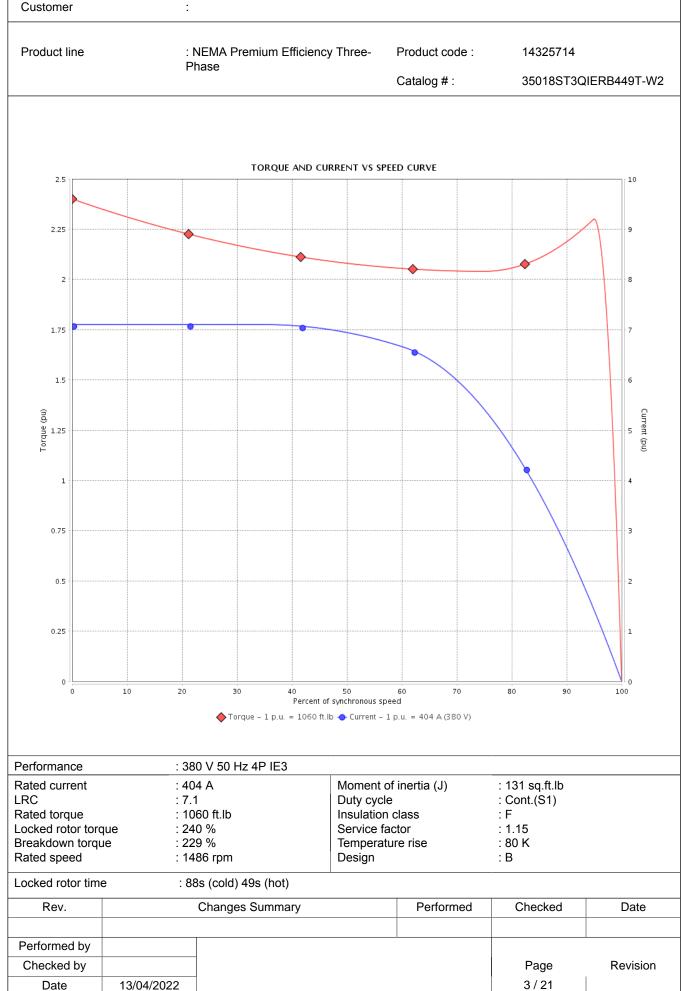




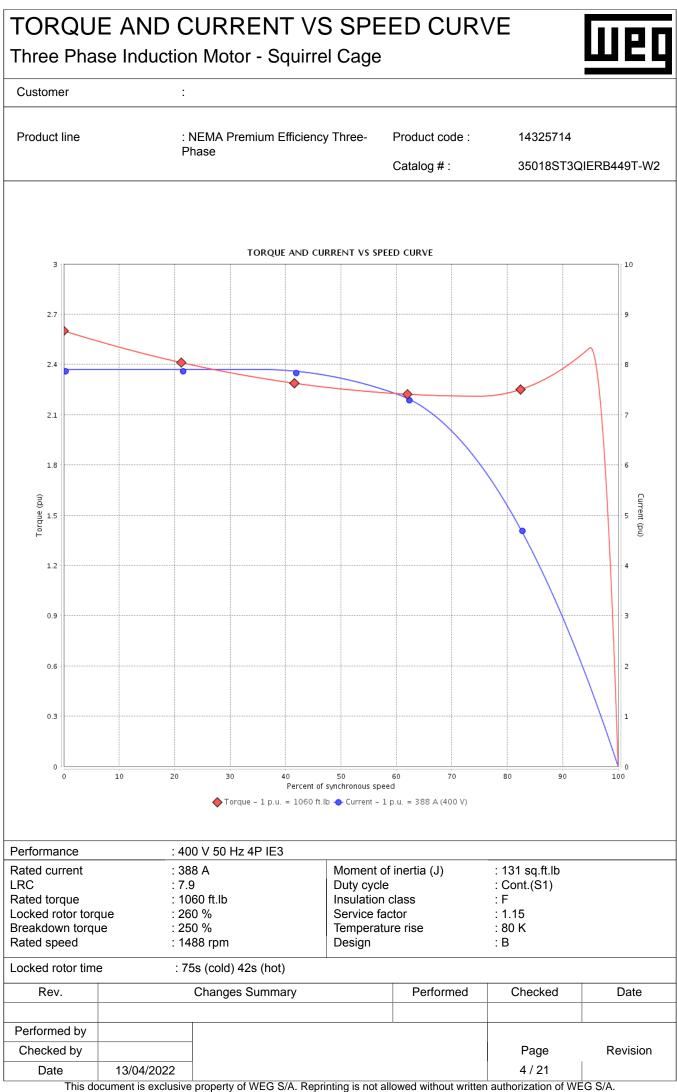
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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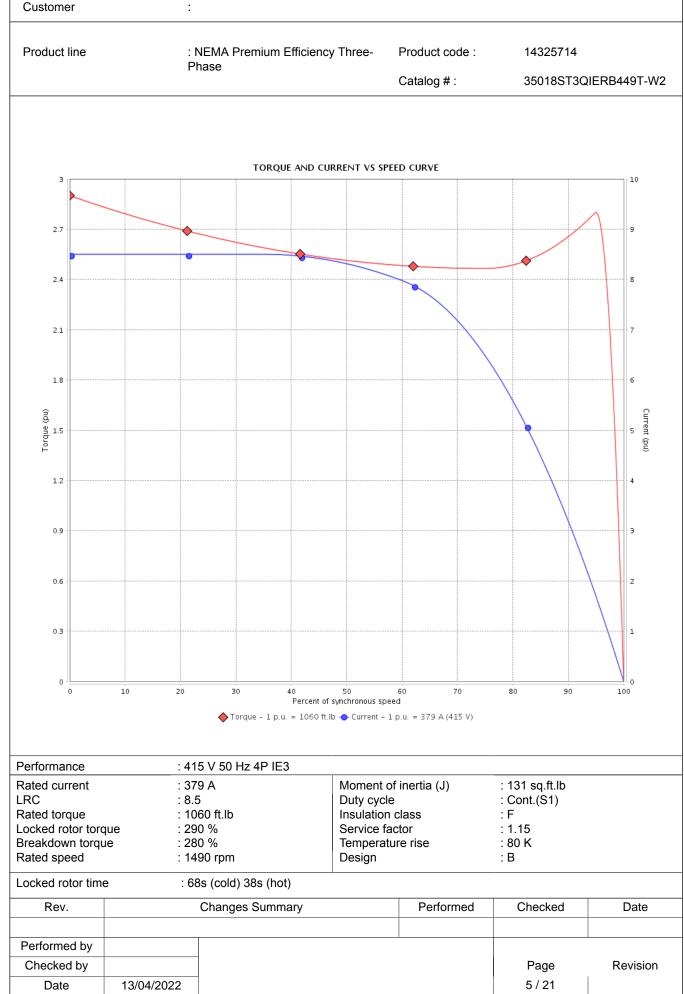


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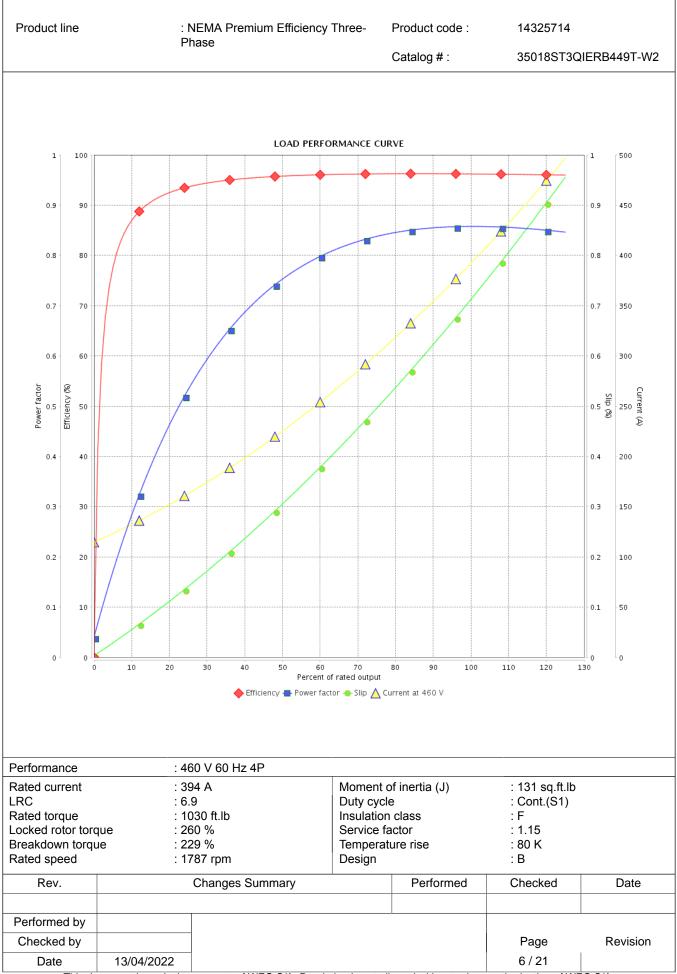
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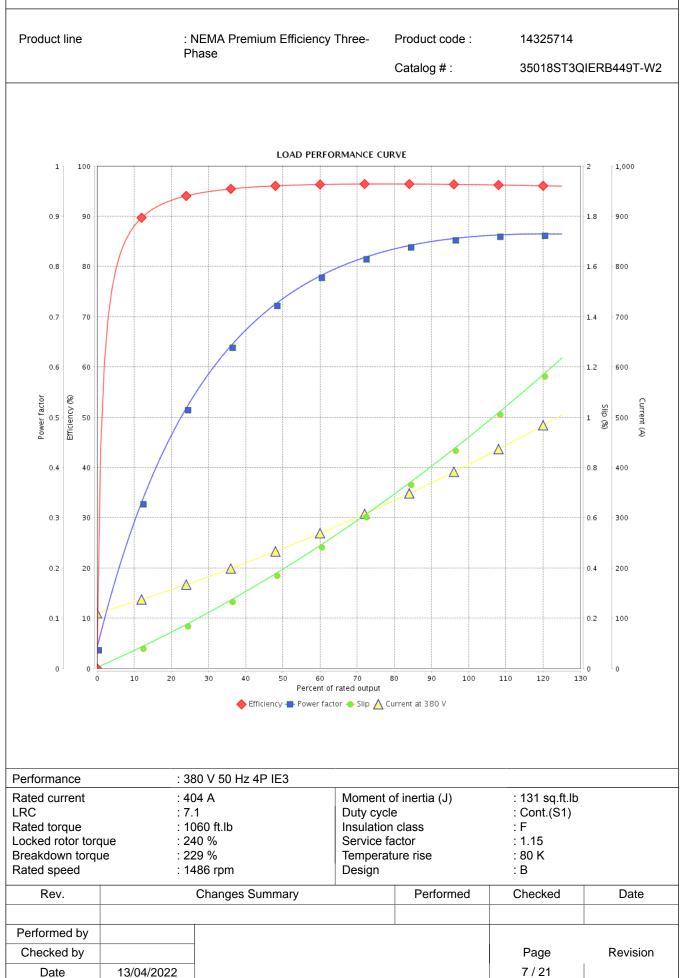
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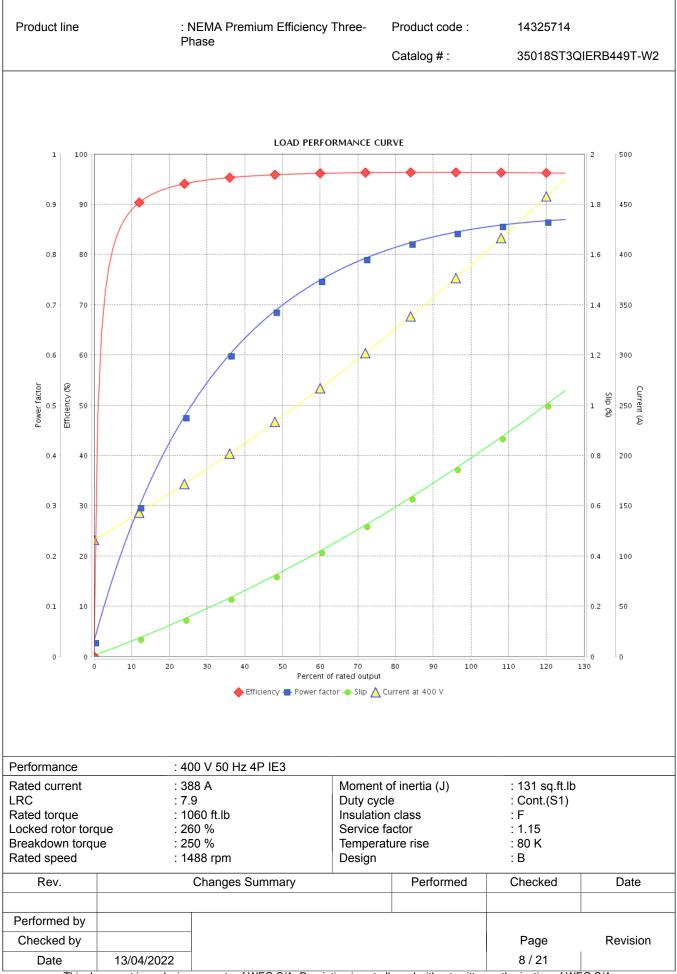
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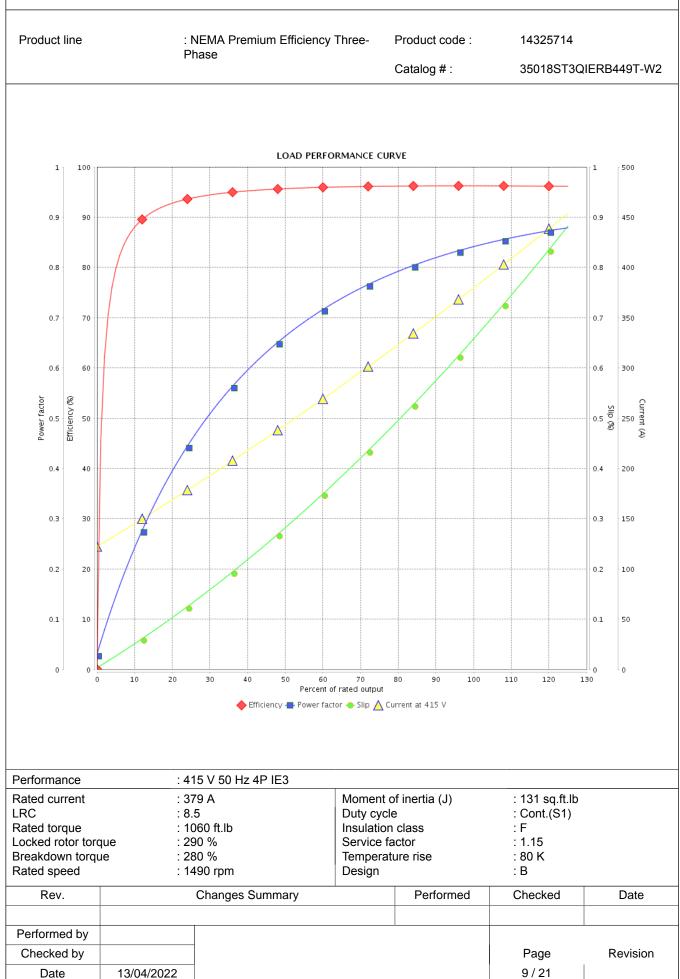
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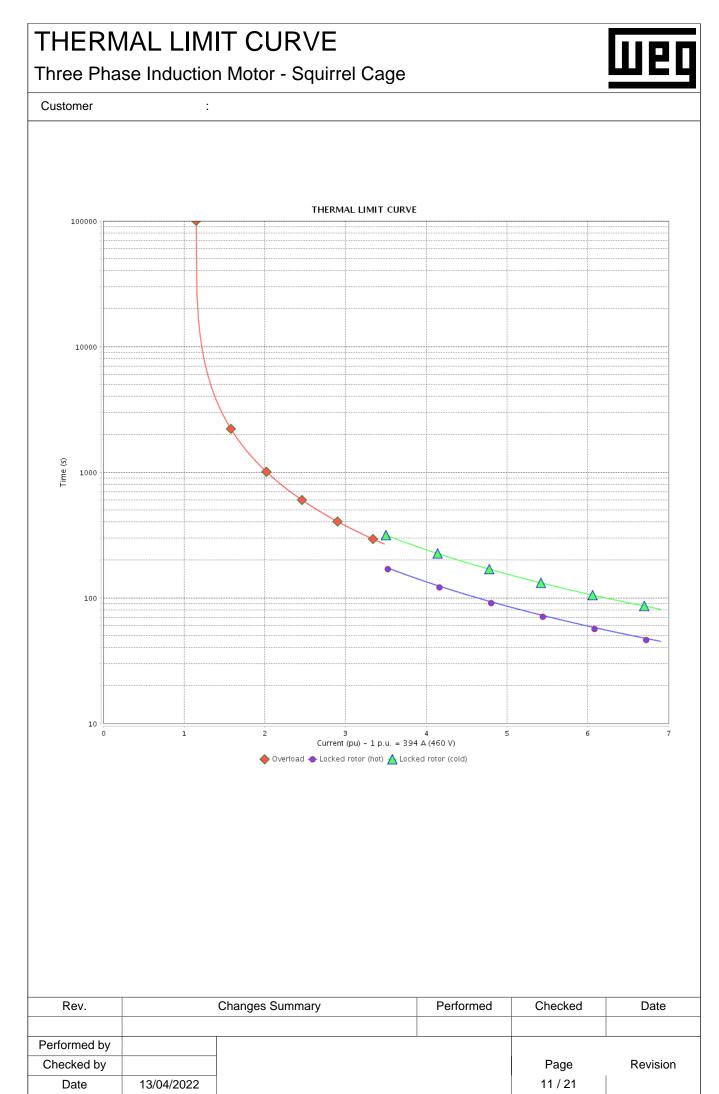
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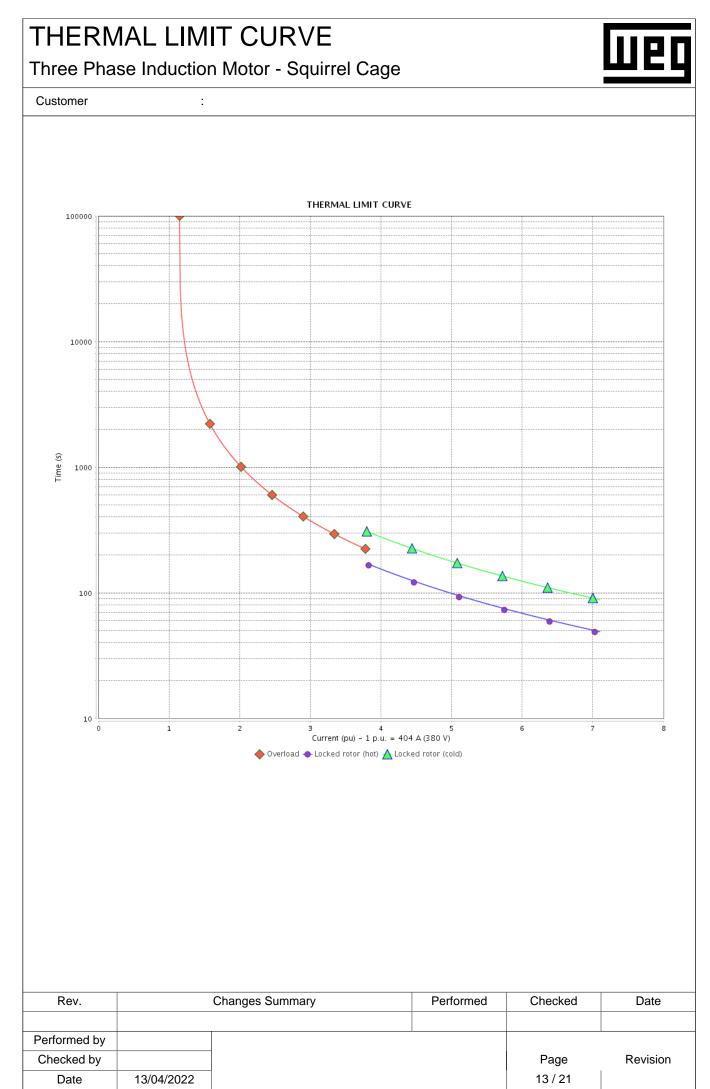
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14325714 35018ST3QIERB449T-W

Performance	: 46	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 10 que : 26 ue : 22	94 A 9 030 ft.lb 60 % 29 % 787 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 131 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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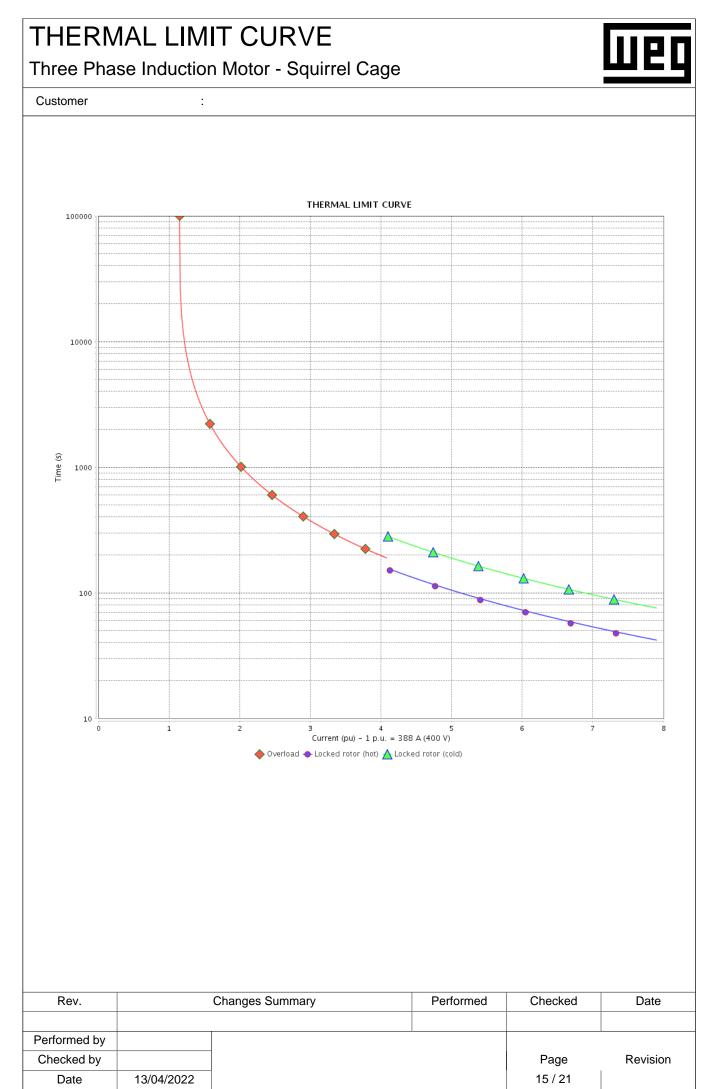
	LIMIT CURVE	е	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14325714 35018ST3QIERB449T-W2
Performance	: 380 V 50 Hz 4P IE3	ent of inertia (.I)	· 101 or # !!-
Rated current	· 404 A Mome	nt of inertia (.1)	· 131 sa ft lb

Performance	: 3	80 V 50 HZ 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	24 24 24 25 24 26 25	04 A .1 060 ft.lb 40 % 29 % 486 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 131 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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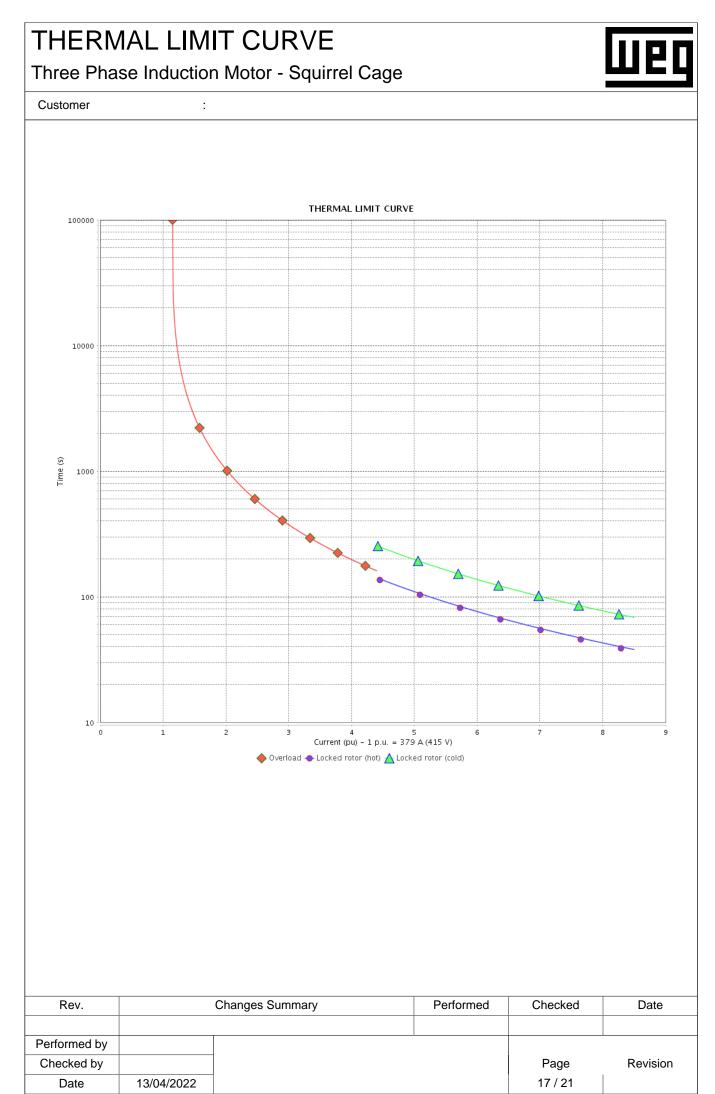
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	ction Motor - Squirrel Cage		
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14325714
	Thase	Catalog # :	35018ST3QIERB449T-W2
Performance	: 400 V 50 Hz 4P IE3		

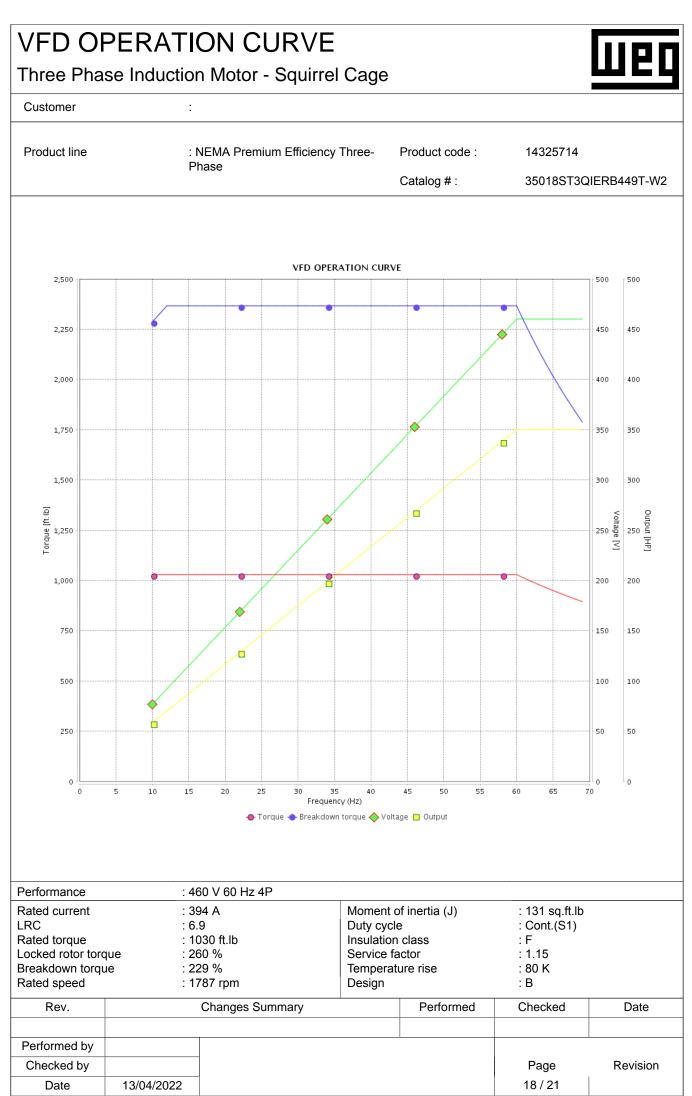
Fenomance	. 40	00 V 30 HZ 4F IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 10 que : 20 ue : 29	88 A .9 060 ft.lb 60 % 50 % 488 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 131 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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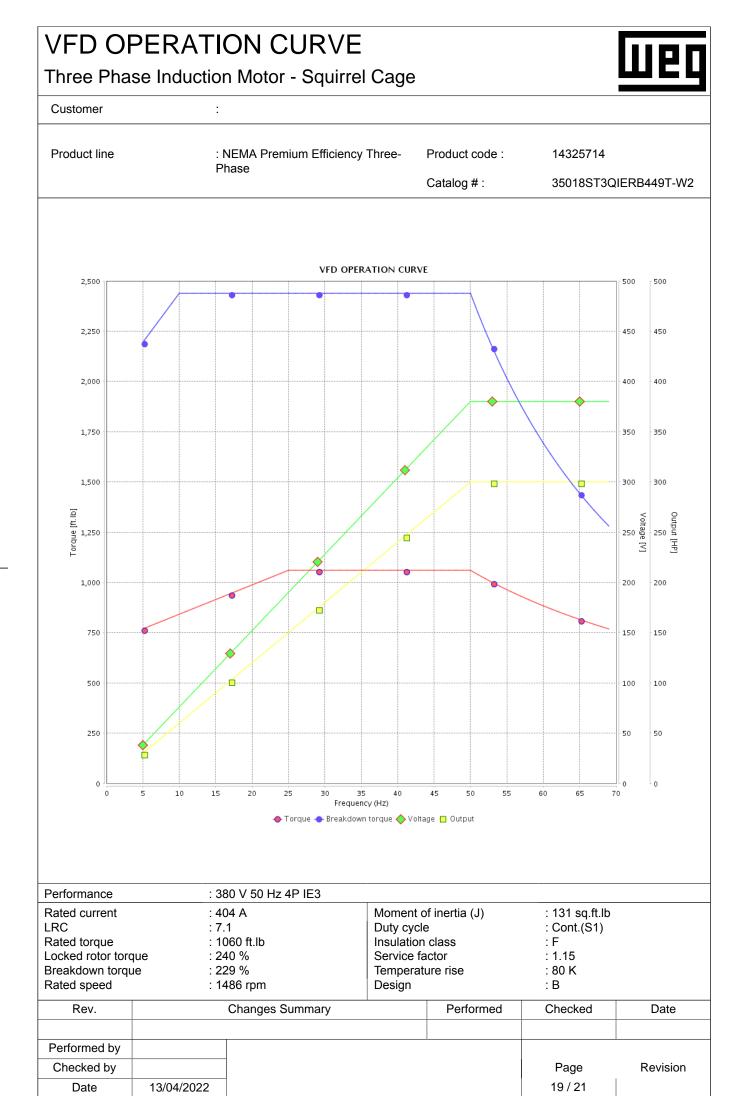
	LIMIT CURVE	ge	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three Phase	e- Product code : Catalog # :	14325714 35018ST3QIERB449T-W2
Performance	: 415 V 50 Hz 4P IE3		
Rated current LRC	: 379 A Mor : 8.5 Duty	nent of inertia (J) v cvcle	: 131 sq.ft.lb : Cont.(S1)

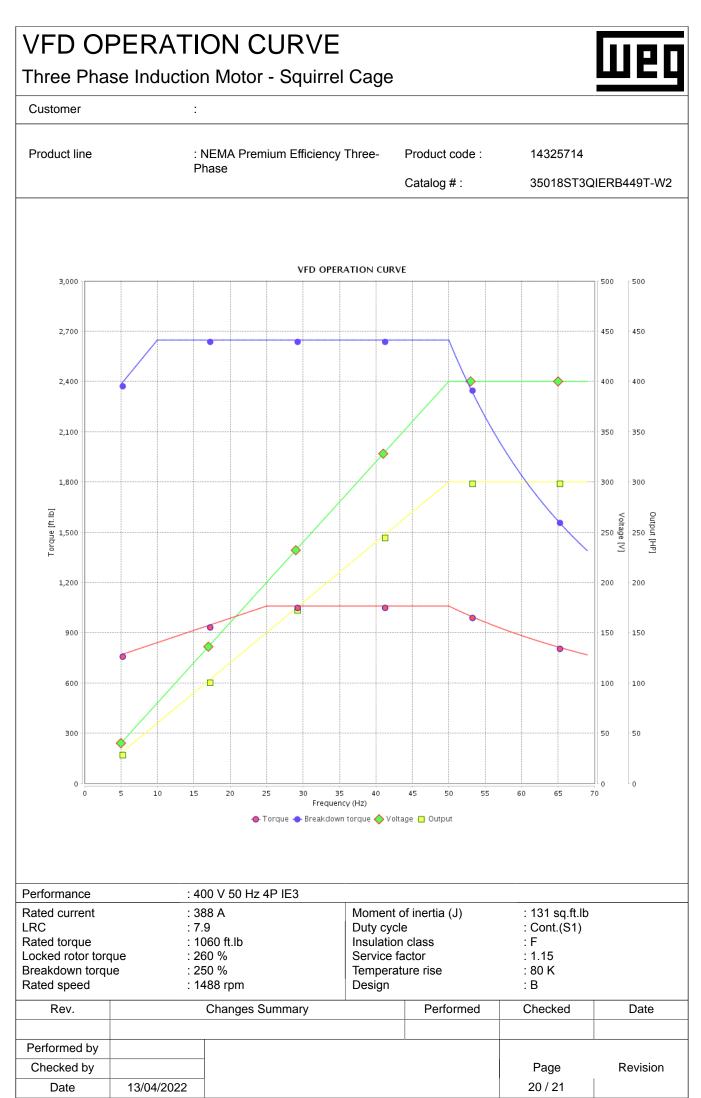
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 8. : 10 iue : 29 ie : 28	79 A 5 D60 ft.lb 90 % 30 % 490 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 131 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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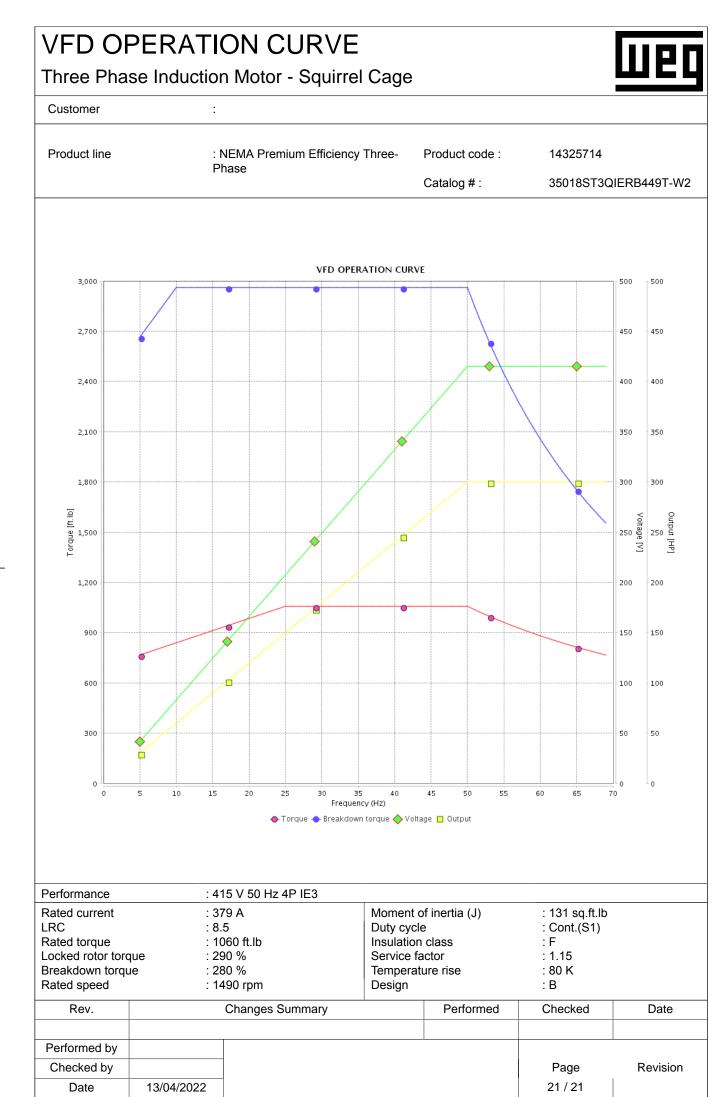


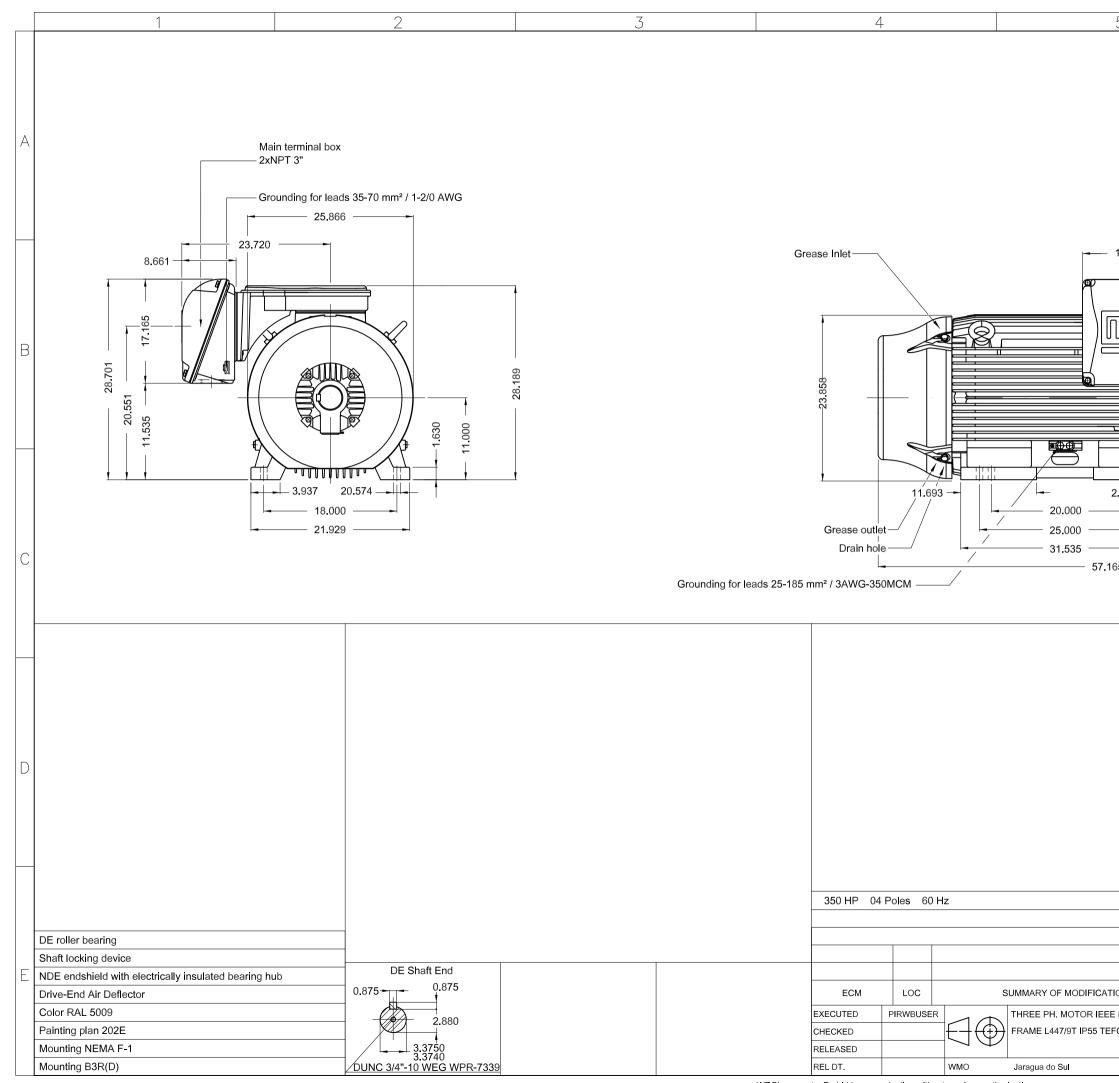


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