# DATA SHEET

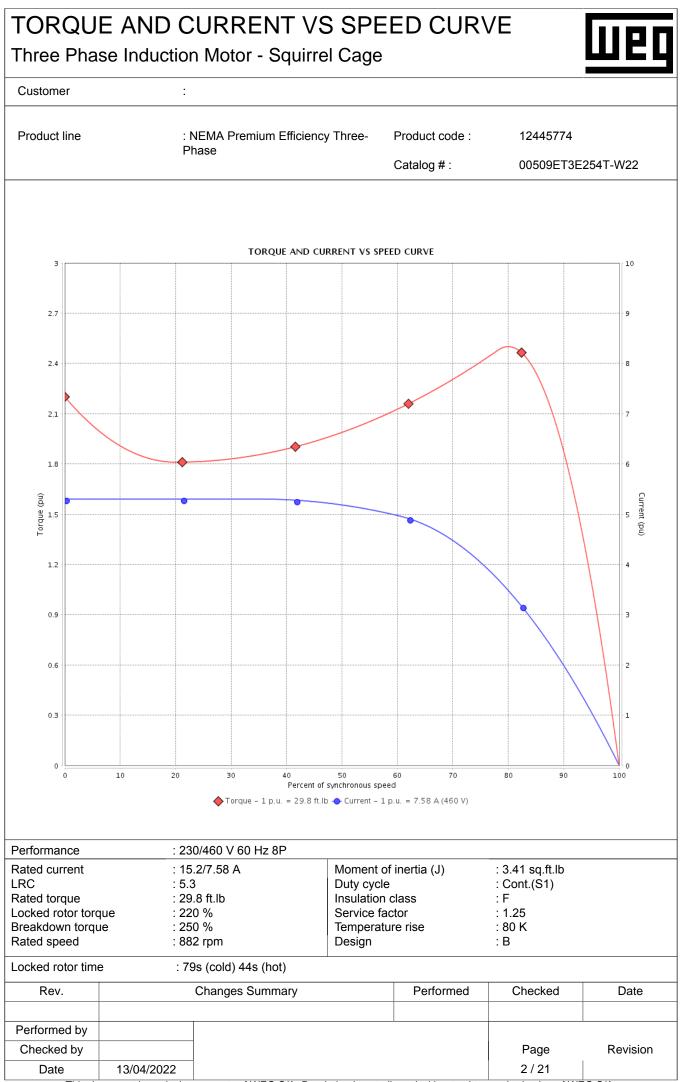
Three Phase Induction Motor - Squirrel Cage

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#### Customer

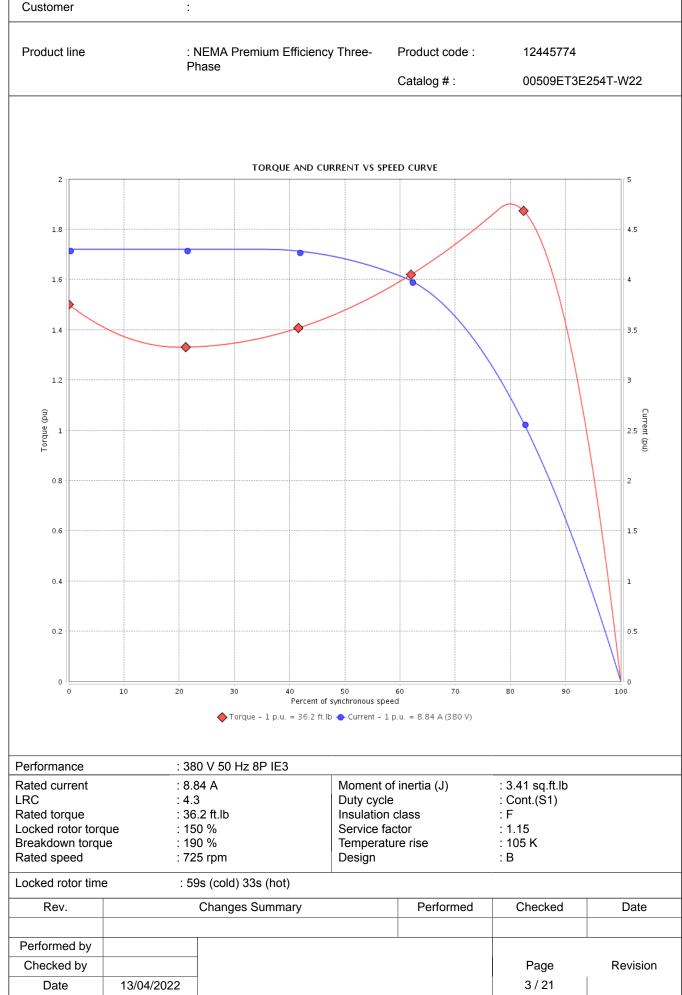
Product line		: NEMA Premium Effi	ciency T	hree- Produ	uct code :	12445	774
		Phase		Catal	og # :	00509	ET3E254T-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 254/6T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling meth Mounting Rotation <sup>1</sup> Starting meth Approx. weig Moment of in	nod ht³	: F-1 : Both : Direc : 272 II	b
Output [HP]		5		5	5		5
Poles		8		8	8		8
Frequency [Hz]		60		50	50	<b>)</b>	50
Rated voltage [V]		230/460		380	40	0	415
Rated current [A]		15.2/7.58		8.84	8.5		8.48
. R. Amperes [A]		80.3/40.2		38.0	40	.2	42.4
_RC [A]		5.3x(Code H)	4.3	Bx(Code F)	4.7x(Co	ode F)	5.0x(Code G)
No load current [A	]	9.00/4.50		4.45	4.7		4.95
Rated speed [RPN		882		725	72		730
Slip [%]		2.00		3.33	3.3	33	2.67
Rated torque [ft.lb]		29.8		36.2	36	.2	36.0
Locked rotor torqu	ie [%]	220		150	17	0	190
Breakdown torque	e [%]	250		190	21		229
Service factor		1.25		1.15	1.1		1.15
Temperature rise		80 K		105 K	80		80 K
Locked rotor time		79s (cold) 44s (hot)		cold) 33s (hot)	59s (cold)		59s (cold) 33s (hot)
Noise level <sup>2</sup>		54.0 dB(A)	5	1.0 dB(A)	51.0 c	IB(A)	51.0 dB(A)
	25%						
Efficiency (%)	50%	85.5		85.5	85	-	84.0 86.5 85.5
	75%	87.5		85.5	86		
	100%	87.5		84.8	85	.5	85.5
	25%						irect On Line 72 lb 41 sq.ft.lb 5 8 50 415 8.48 42.4 5.0x(Code G) 4.95 730 2.67 36.0 190 229 1.15 80 K ) 59s (cold) 33s (hot 51.0 dB(A) 84.0 84.0 84.5 85.5 0.50 0.63 0.71 1 lb
Power Factor	50%	0.49		0.56	0.5		
	75%	0.62		0.68	0.6		
	100%	0.70		0.75	0.7	/3	0.71
Bearing type Sealing Lubrication interv	val	: 6309 C3 62 : V'Ring V	r <u>ive end</u> 09 C3 'Ring	Foundation lo Max. traction Max. compres		: 261 lb : 532 lb	
Lubricant amoun		: 13 g	000 h 9 g =м				
Lubricant amoun Lubricant type Notes USABLE @208V	nt	: 13 g : Mobil Polyrex I	9 g				
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	16.8A SF 1. 2 16.8A SF 1. aces and car ed. notor from the 1m and with t weight subject ocess.	: 13 g : Mobil Polyrex F 15 SFA 19.3A	9 g EM		erage values	based on tex	sts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	16.8A SF 1. 2 16.8A SF 1. aces and car ed. notor from the 1m and with t weight subject ocess.	: 13 g : Mobil Polyrex F 15 SFA 19.3A Icel the previous one, w shaft end. olerance of +3dB(A).	9 g EM	power supply, MG-1.	erage values	based on tex	sts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of ful Rev.	16.8A SF 1. 2 16.8A SF 1. aces and car ed. notor from the 1m and with t weight subject ocess.	: 13 g : Mobil Polyrex F 15 SFA 19.3A Icel the previous one, w shaft end. olerance of +3dB(A). t to changes after	9 g EM	power supply, MG-1.	erage values subject to the	based on ter e tolerances	sts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	16.8A SF 1. 2 16.8A SF 1. aces and car ed. notor from the 1m and with t weight subject ocess.	: 13 g : Mobil Polyrex F 15 SFA 19.3A Icel the previous one, w shaft end. olerance of +3dB(A). t to changes after	9 g EM	power supply, MG-1.	erage values subject to the	based on tea e tolerances Checker	sts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of ful Rev.	16.8A SF 1. 2 16.8A SF 1. aces and car ed. notor from the 1m and with t weight subject ocess.	: 13 g : Mobil Polyrex F 15 SFA 19.3A icel the previous one, w shaft end. olerance of +3dB(A). t to changes after Changes Summary	9 g EM	power supply, MG-1.	erage values subject to the	based on ter e tolerances	sts with sinusoidal stipulated in NEMA



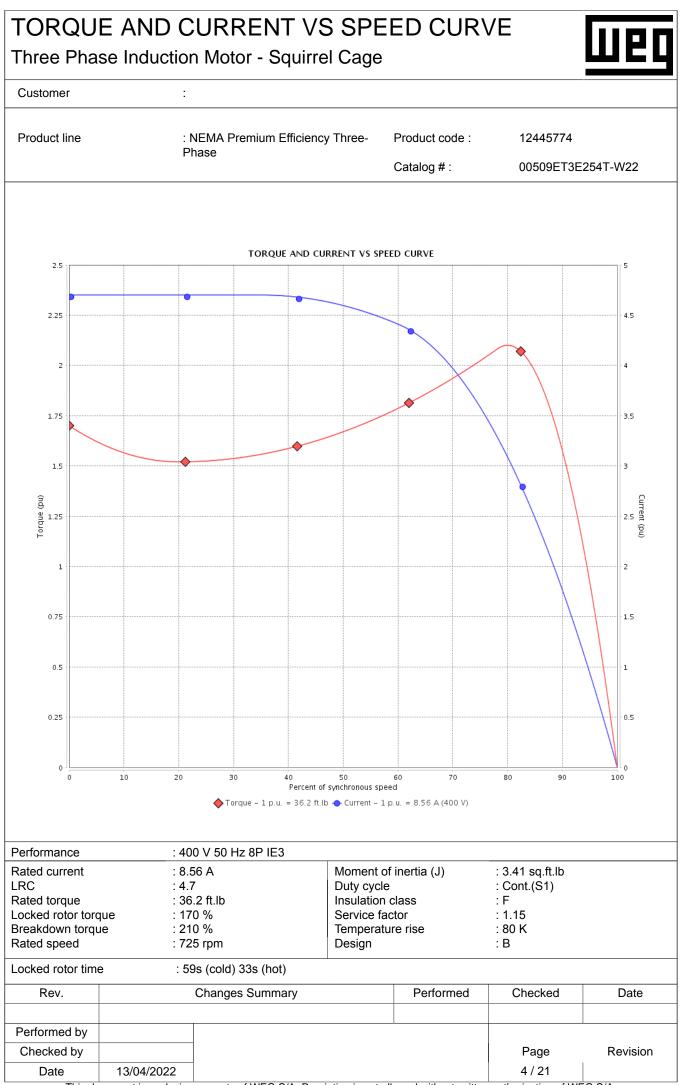
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



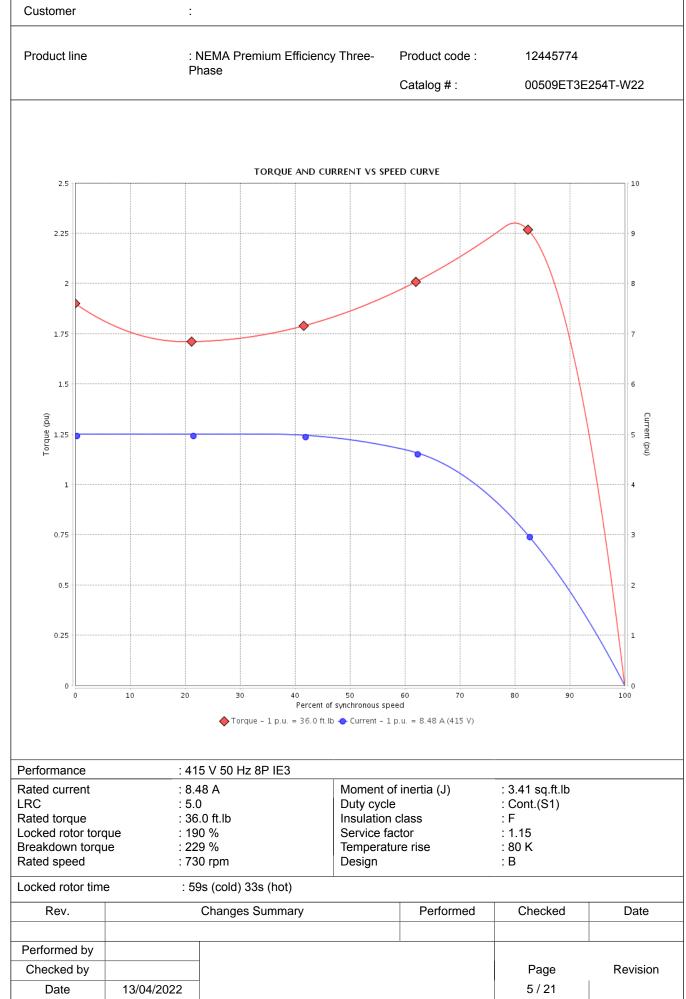


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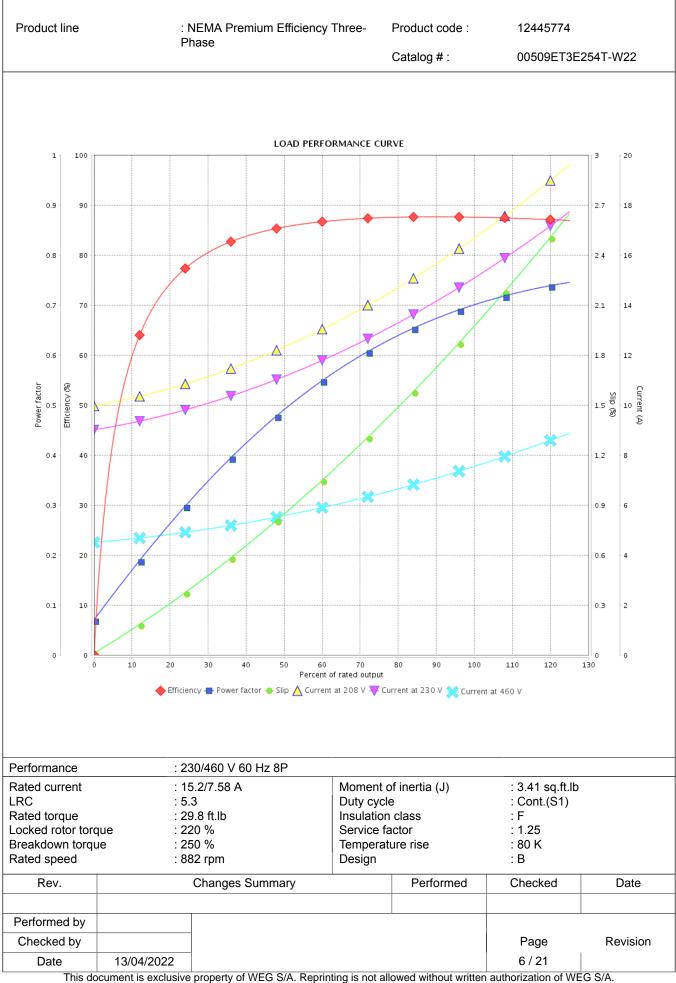
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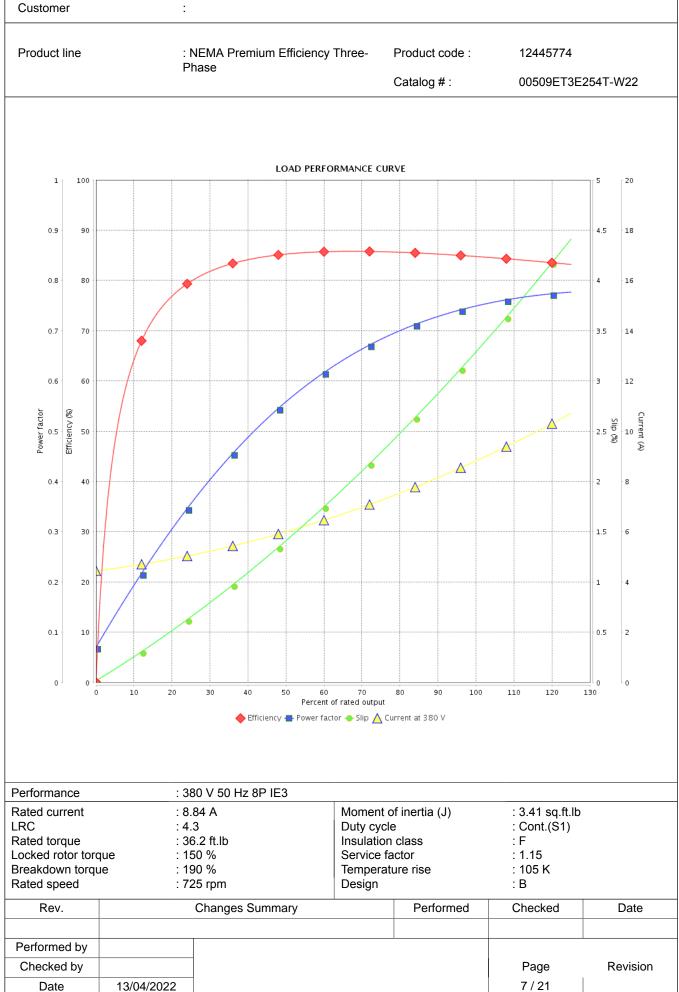


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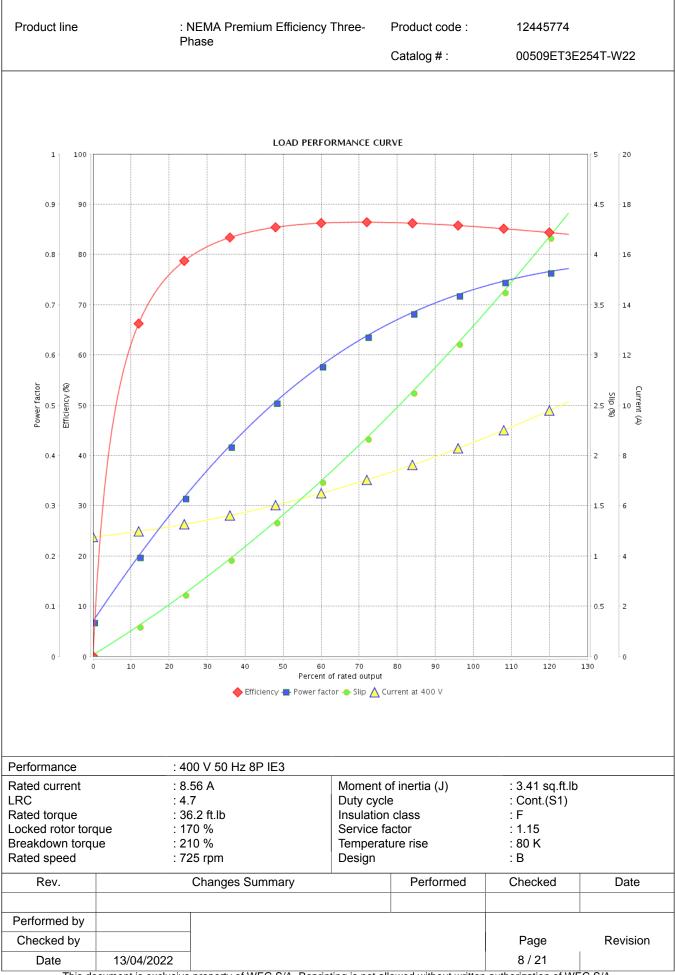
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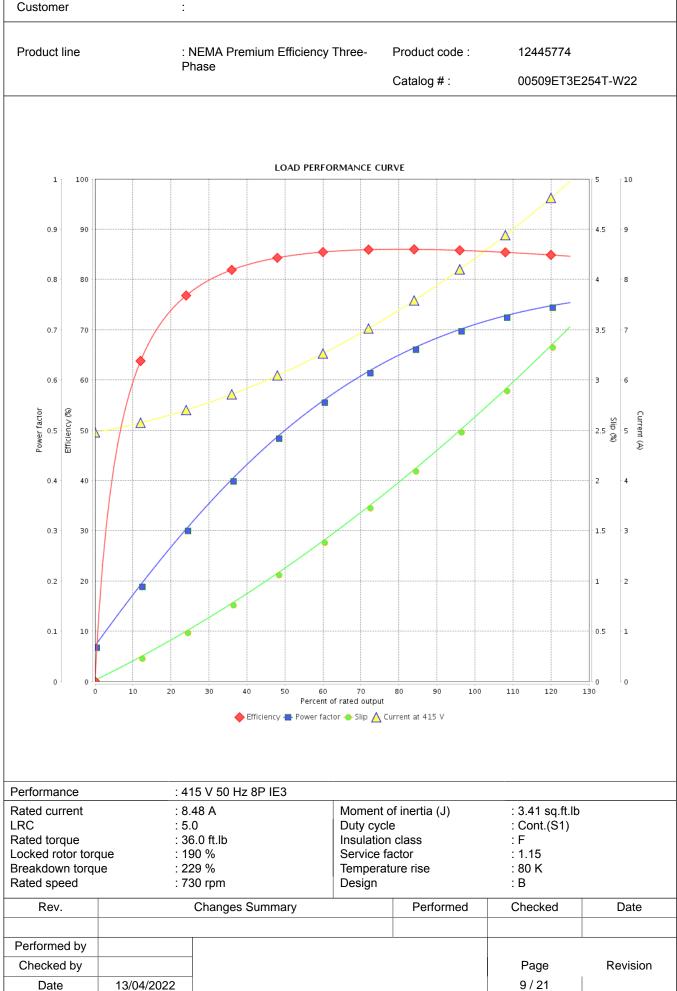


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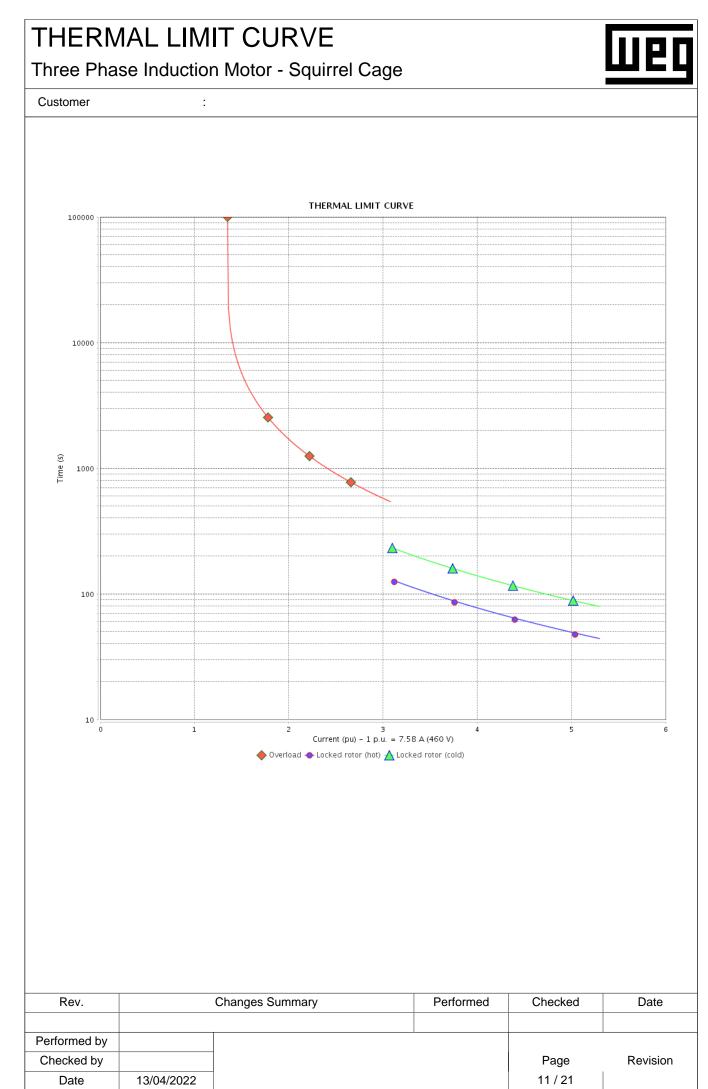
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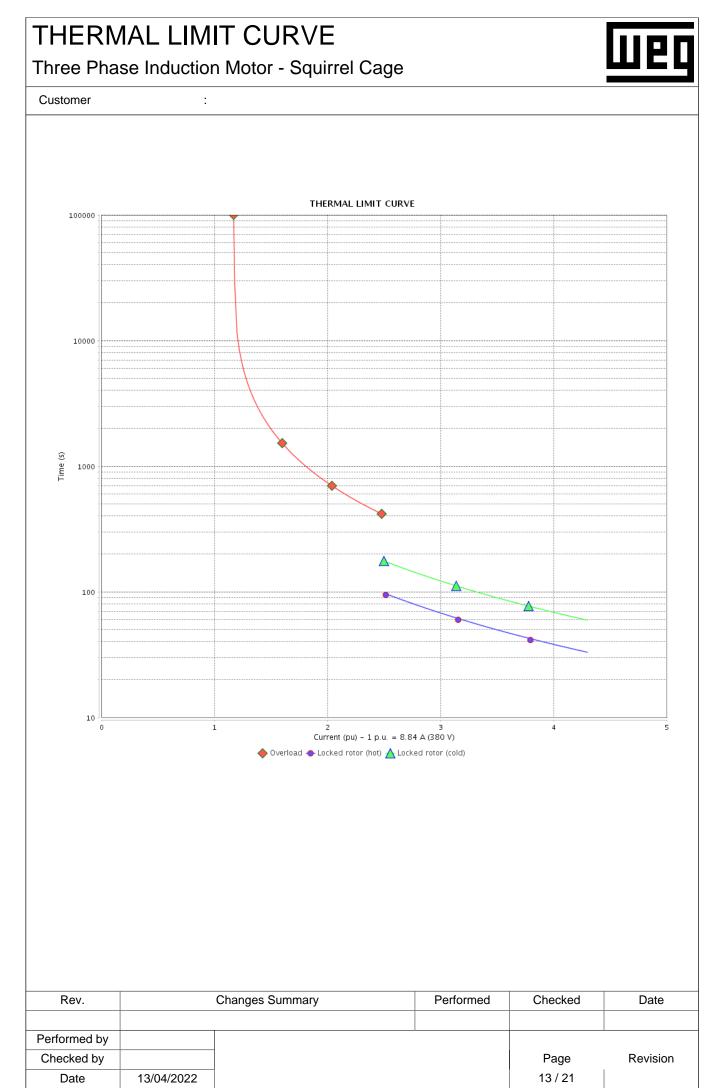
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	action motor equinor eage	·	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445774
	i nase	Catalog # :	00509ET3E254T-W22

Performance	: 2	230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	:: ;; ue ;;	15.2/7.58 A 5.3 29.8 ft.lb 220 % 250 % 882 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.41 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
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Date	13/04/2022				10 / 21	



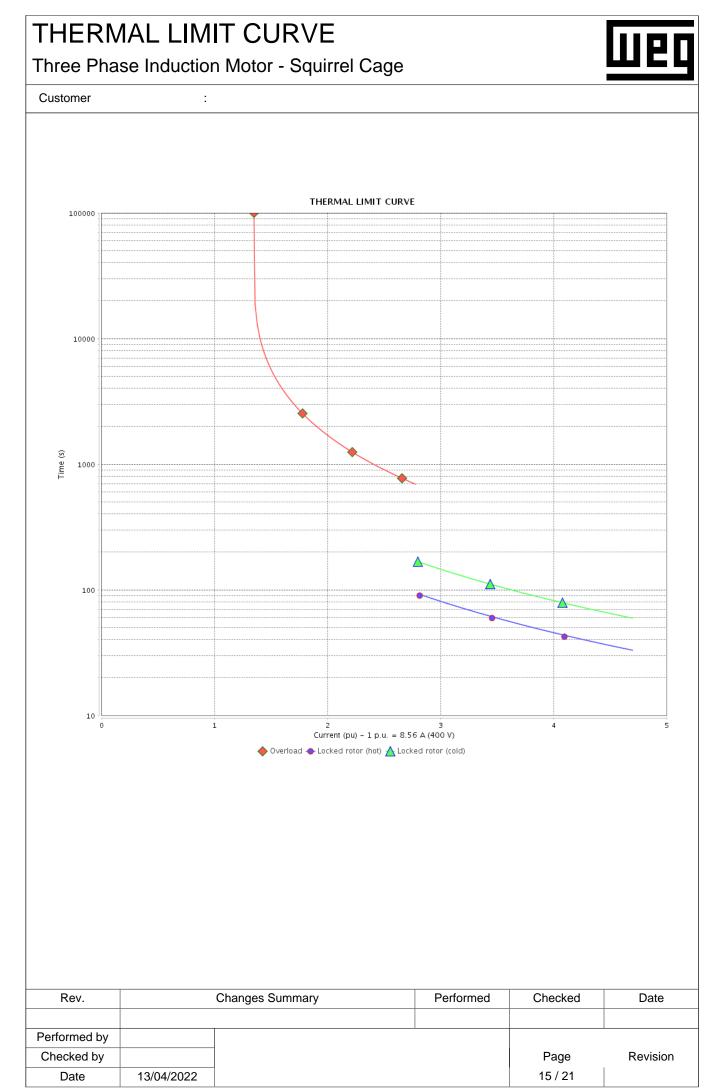
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Three Phase Induc	tion Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445774
		Catalog # :	00509ET3E254T-W22

Performance	: 38	80 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4. : 36 que : 19 ue : 19	84 A 3 6.2 ft.lb 50 % 90 % 25 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.41 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
Heating constan						
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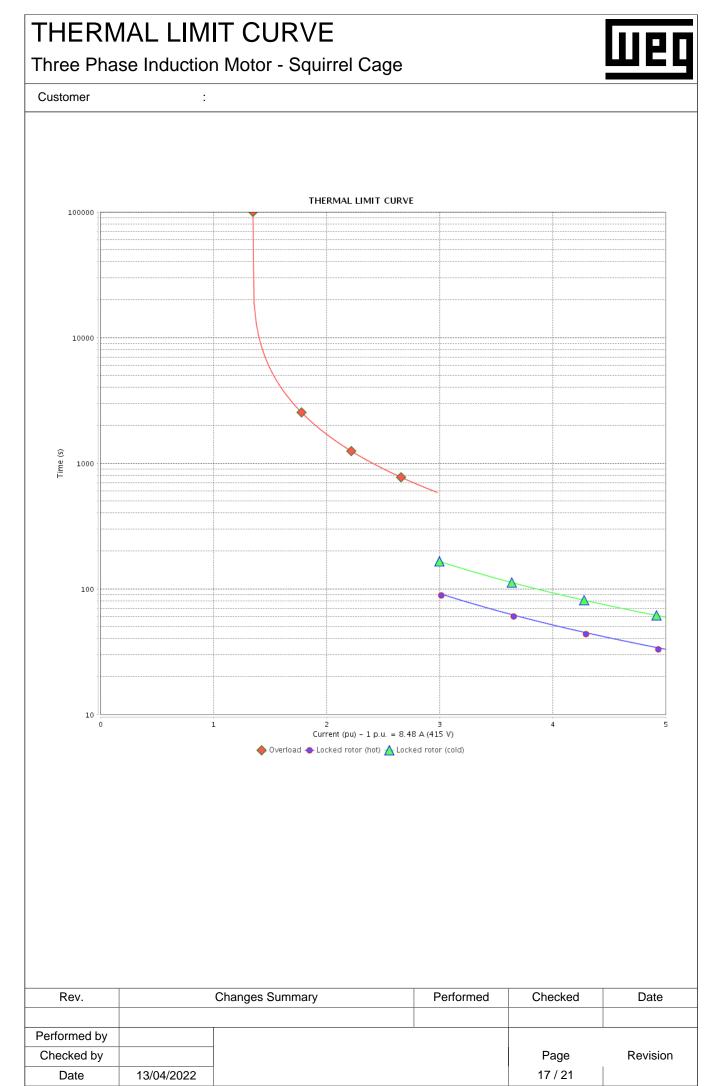
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Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12445774
		Catalog # :	00509ET3E254T-W22

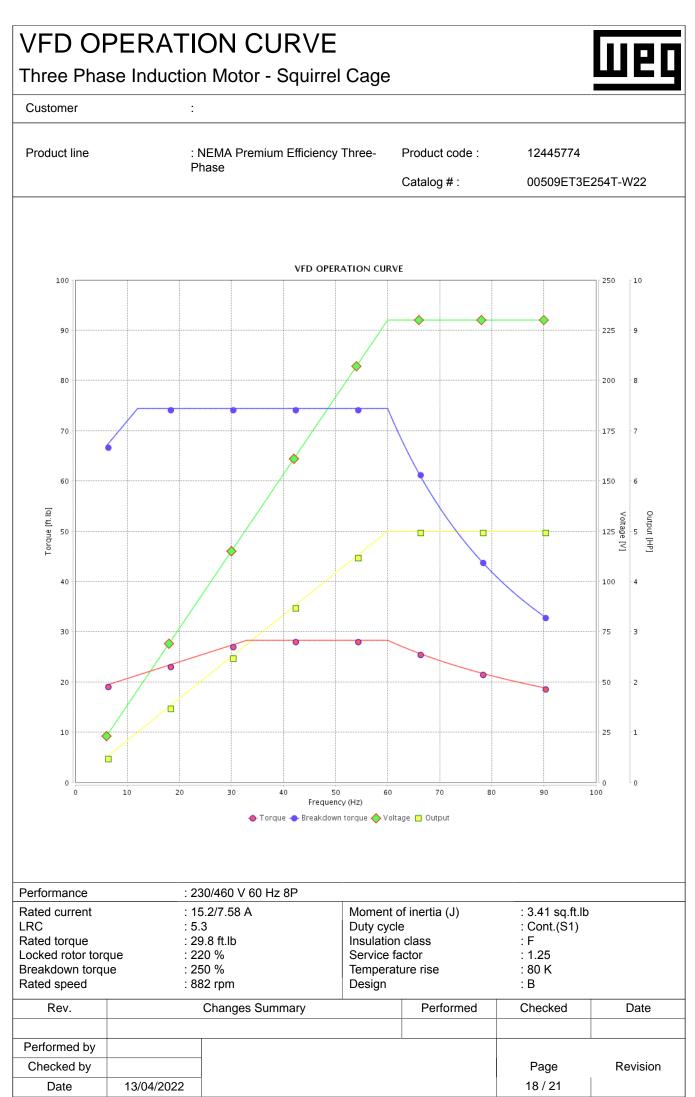
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 8.56 A : 4.7 : 36.2 ft.lb : 170 % : 210 % : 725 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ictor	: 3.41 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
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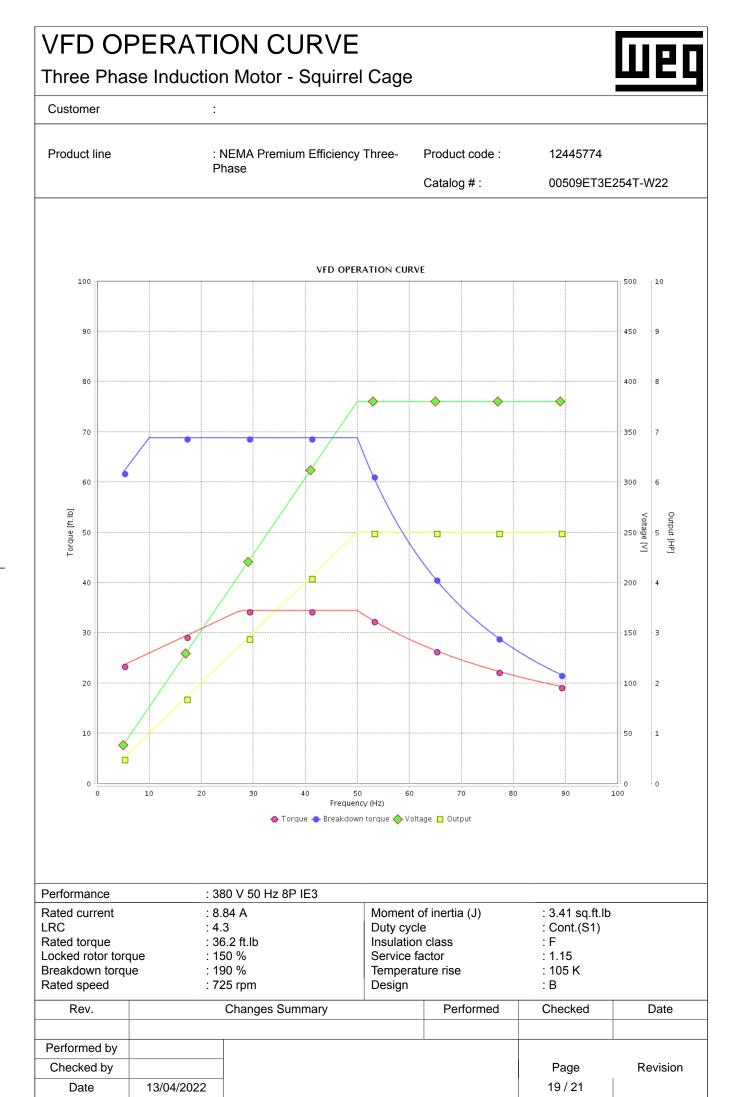


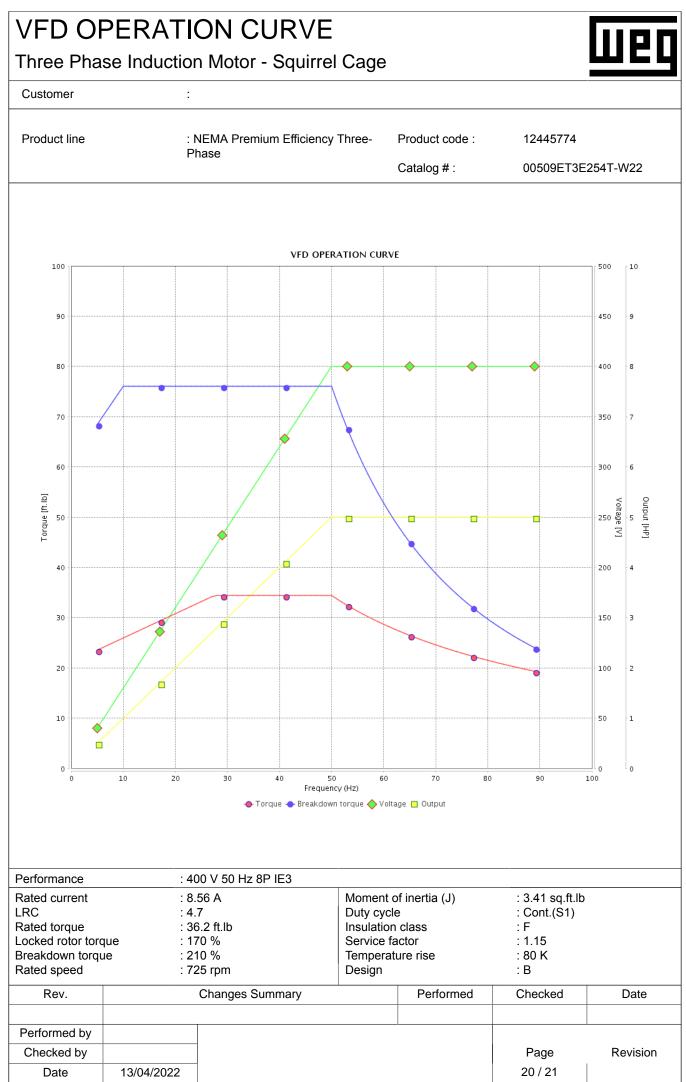
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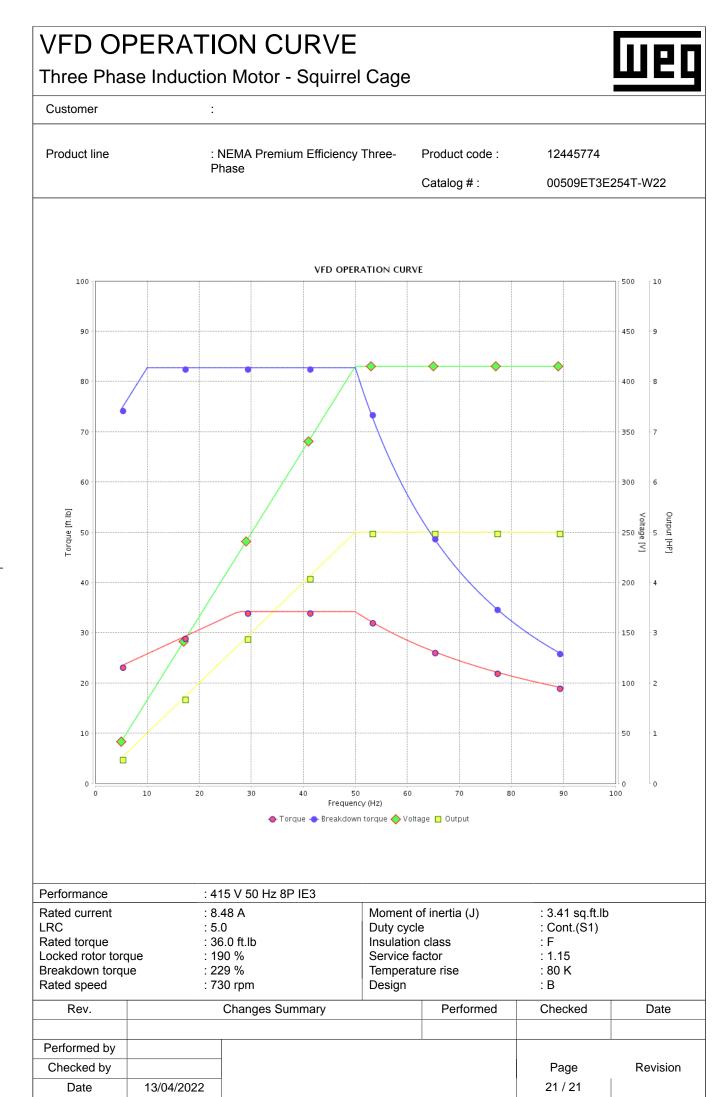
Performance		: 415 V 50 Hz 8P IE3				
Rated current		: 8.48 A	Moment c	f inertia (J)	: 3.41 sq.ft.lb	
LRC		: 5.0	Duty cycle	• •	: Cont.(S1)	
Rated torque		: 36.0 ft.lb	Insulation	class	: F	
Locked rotor torque	е	: 190 %	Service fa	ctor	: 1.15	
Breakdown torque		: 229 %	Temperat	ure rise	: 80 K	
Rated speed		: 730 rpm	Design		: B	
Heating constant						
Cooling constant						
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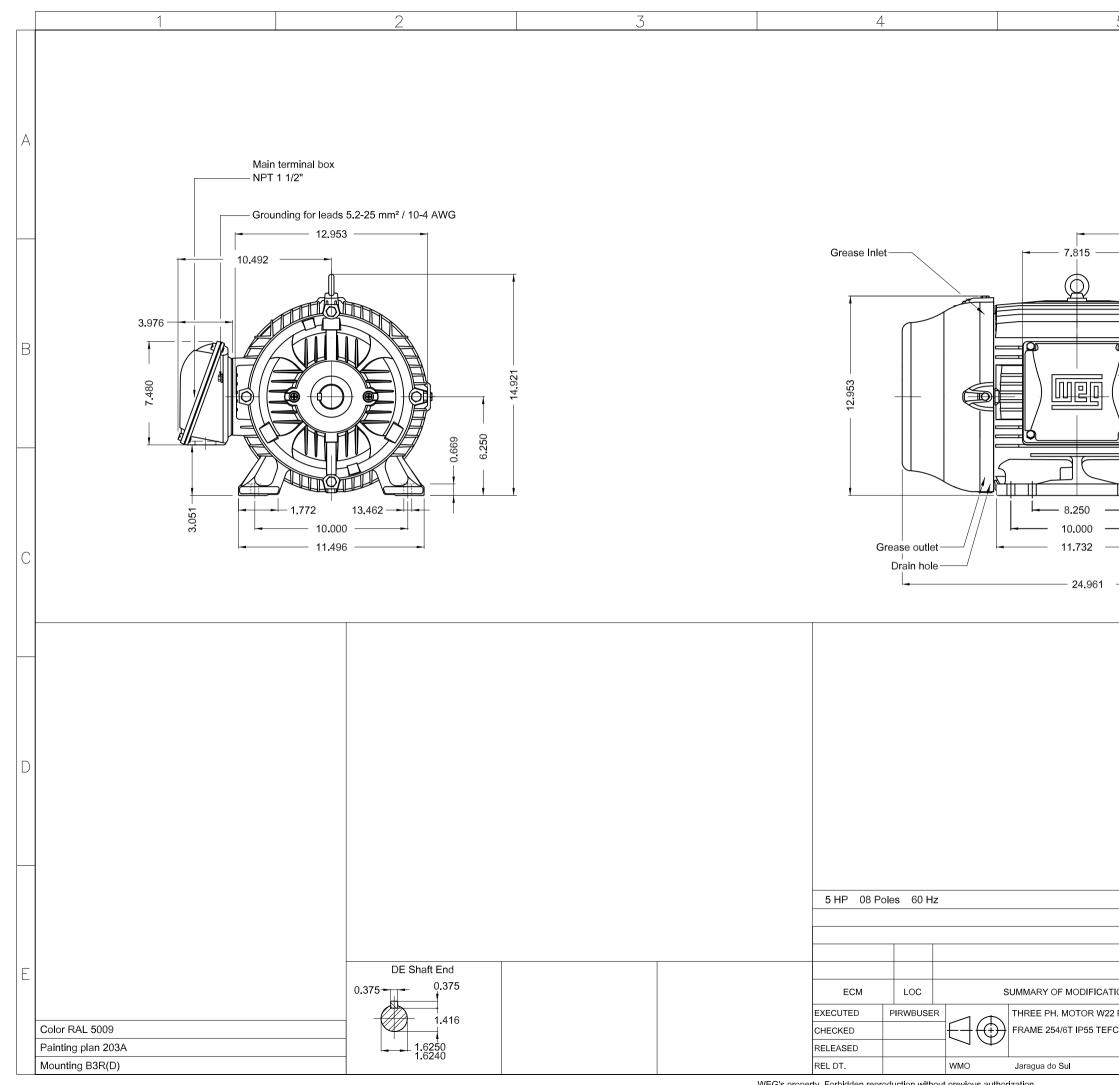












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