DATA SHEET

Three Phase Induction Motor - Squirrel Cage

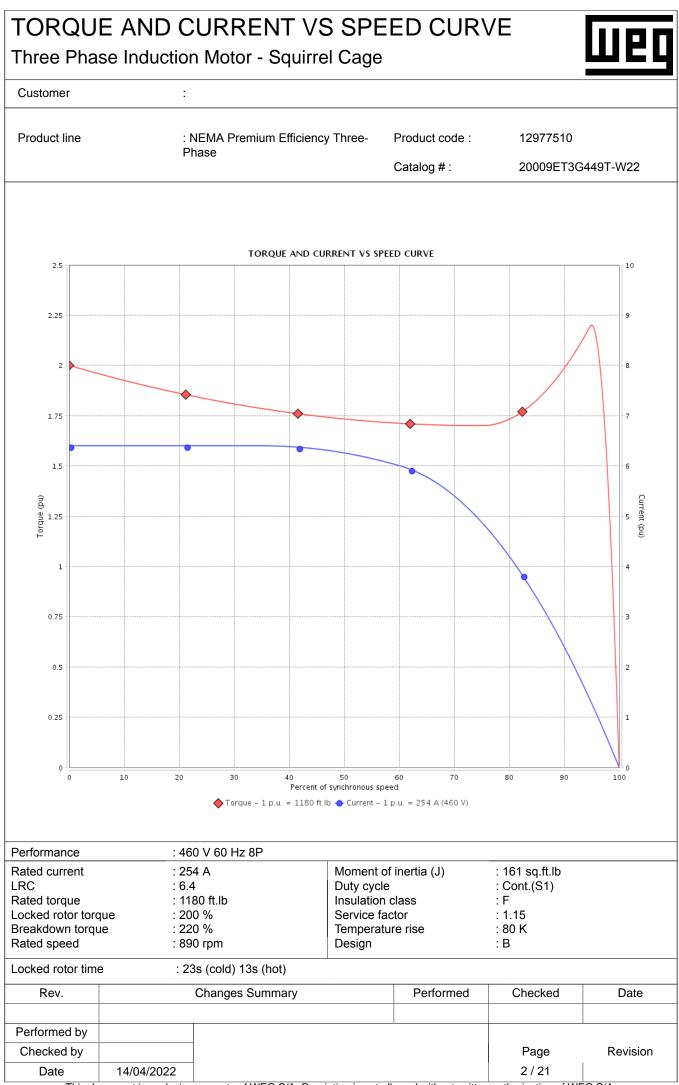
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Customer

		: NEMA Premium Effi Phase	ciency T	hree- Prod	uct code :	12977	510
		Thase		Cata	log # :	20009	ET3G449T-W22
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 447/9T : 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 : 3055 lb : 161 sq.ft.lb	
Output [HP]		200		150	150	n	150
Poles		8		8	8	0	8
Frequency [Hz]		60		50	50)	50
Rated voltage [V]		460		380	400		415
Rated current [A]		254		230	22		228
R. Amperes [A]		1626		1495	161		1687
.RC [A]		6.4x(Code H)	6.5	5x(Code H)	7.1x(Cc		7.4x(Code K)
No load current [A	1	115		113	125		135
Rated speed [RPI		890		740	740		745
Slip [%]	L	1.11		1.33	1.3		0.67
Rated torque [ft.lb	1	1180		1060	106		1060
ocked rotor torqu		200		210	240		270
reakdown torque [%]		220		240	270		300
Service factor		1.15		1.15	1.1		1.15
Temperature rise		80 K		80 K	80 K	80 K	
_ocked rotor time		23s (cold) 13s (hot)			21s (cold)		21s (cold) 12s (hot)
Noise level ²		66.0 dB(A)	,	, , ,		. ,	
	25%	94.4		94.0	93.	4	92.5
Efficiency (0/)	50%	94.5		94.1	93.	6	93.0
Efficiency (%)	75%	95.0		94.5	94.	5	94.1
	100%	95.0		94.5	94.	5	94.5
	25%	0.38		0.35	0.3	1	0.28
Power Factor	50%	0.62		0.59	0.5	4	0.50
Fower Factor	75%	0.73		0.71	0.6	7	0.63
	100%	0.78		0.77	0.74		0.71
Drive end Bearing typeDrive end 6322 C3Non drive end 6319 CSealing:WSealWSealLubrication interval:14000 h17000 hLubricant amount:60 g45 g			19 C3 /Seal 000 h	Max. traction : 6928 lb			
Notes							
This revision real	aces and car	icel the previous one w	hich	These are av	erane values k		sts with sinusoidal
must be eliminate (1) Looking the m (2) Measured at 7	ed. notor from the 1m and with t weight subjec ocess.	ncel the previous one, w e shaft end. olerance of +3dB(A). et to changes after	hich				sts with sinusoidal s stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. notor from the 1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A).		power supply MG-1.			stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at ((3) Approximate w manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after		power supply MG-1.	, subject to the	e tolerances	stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate w manufacturing pr (4) At 100% of fu Rev.	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after Changes Summary		power supply MG-1.	, subject to the	e tolerances	stipulated in NEMA

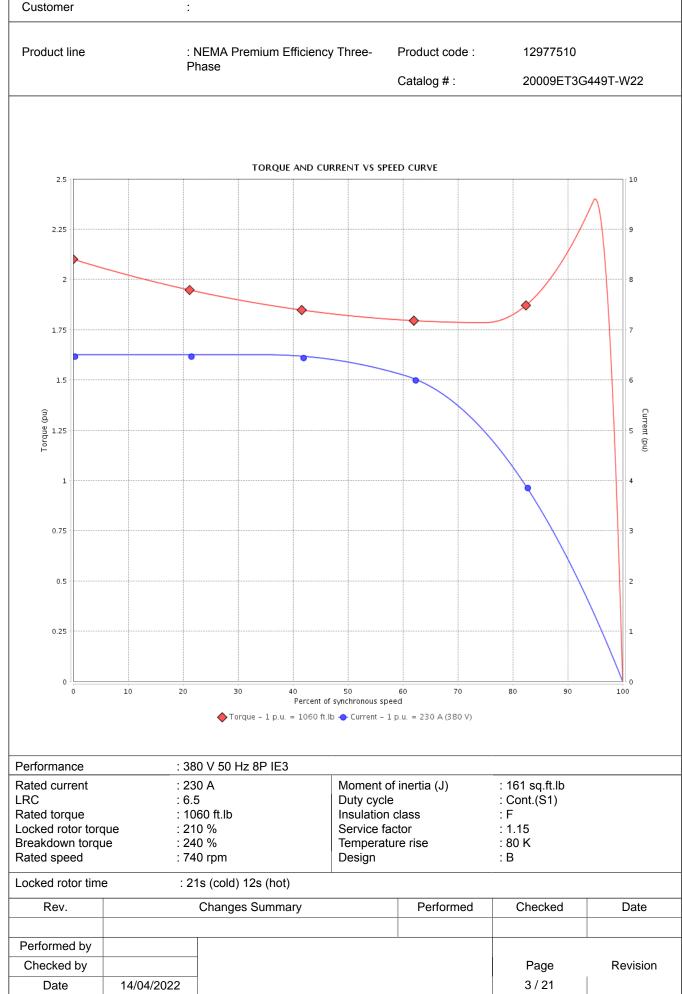
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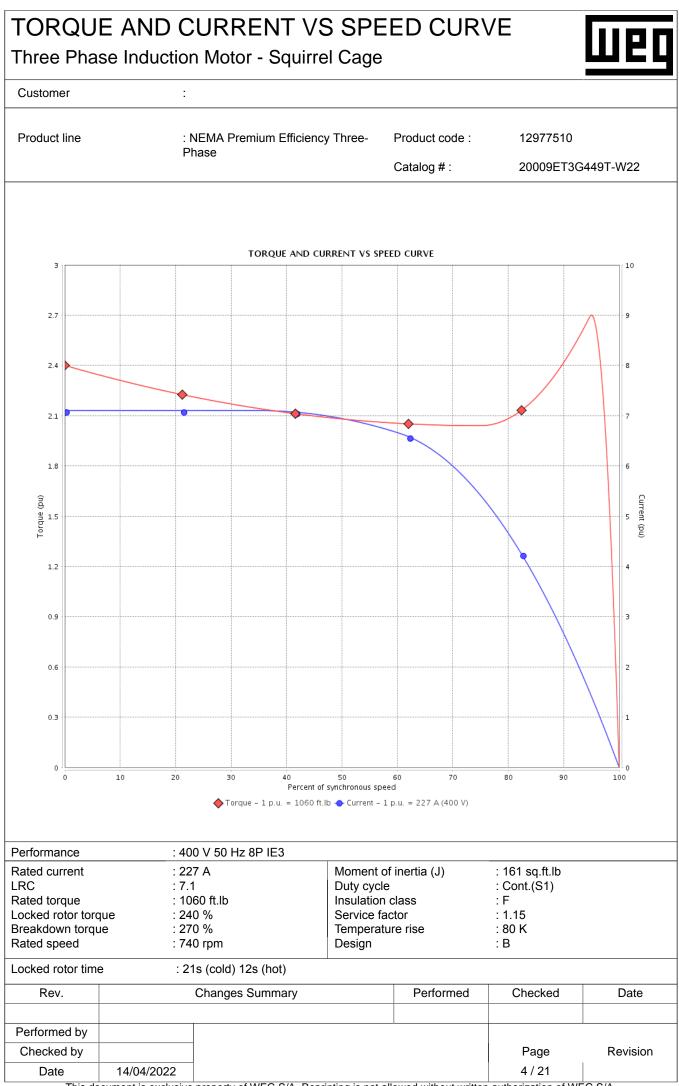
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





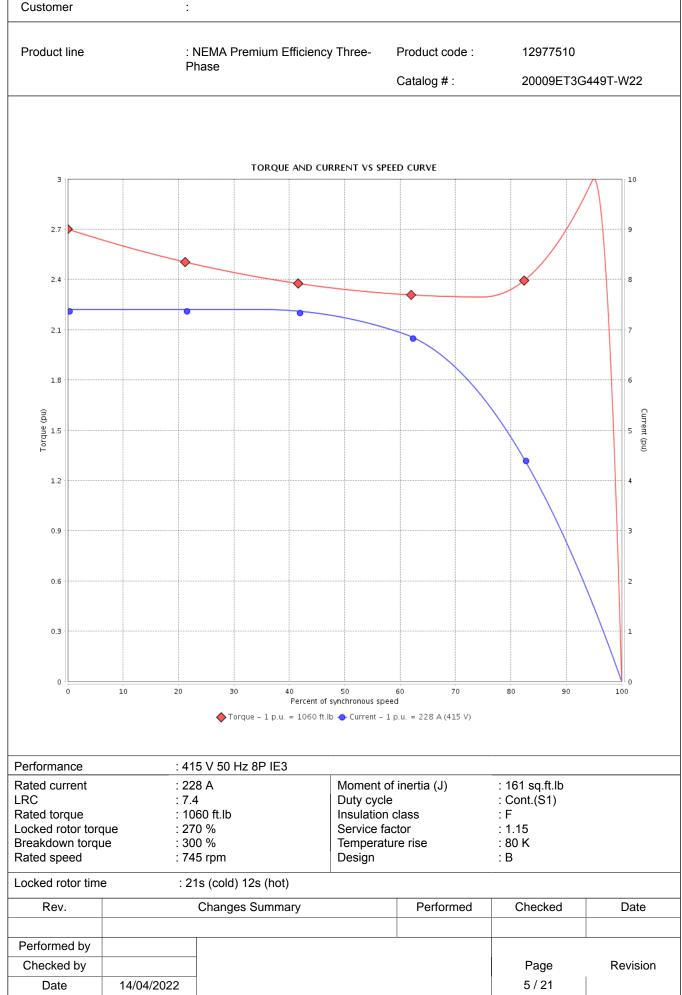
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TORQUE AND CURRENT VS SPEED CURVE

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Customer



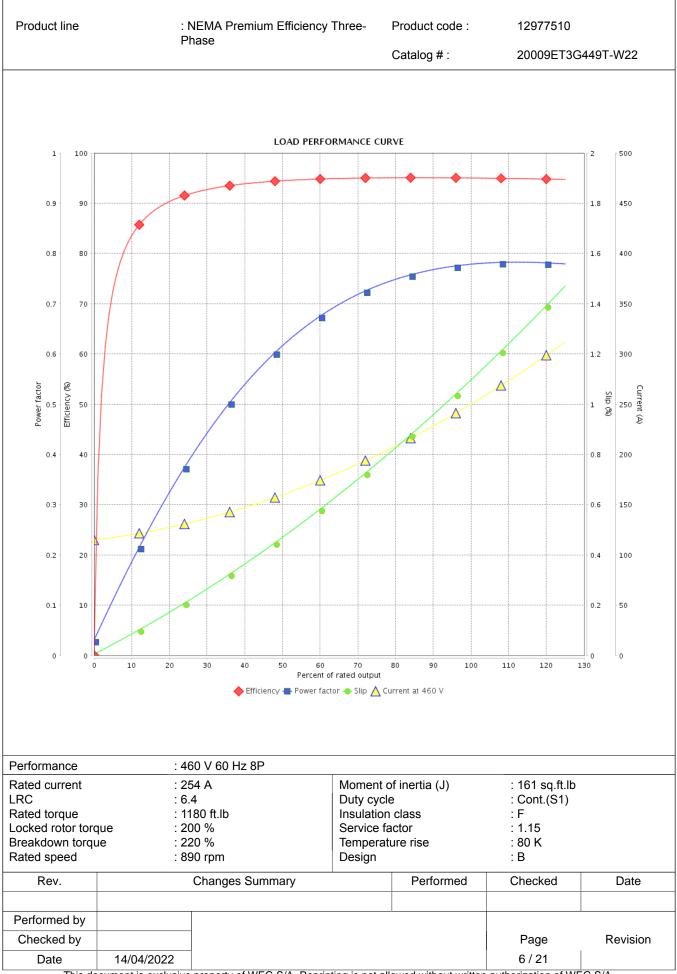
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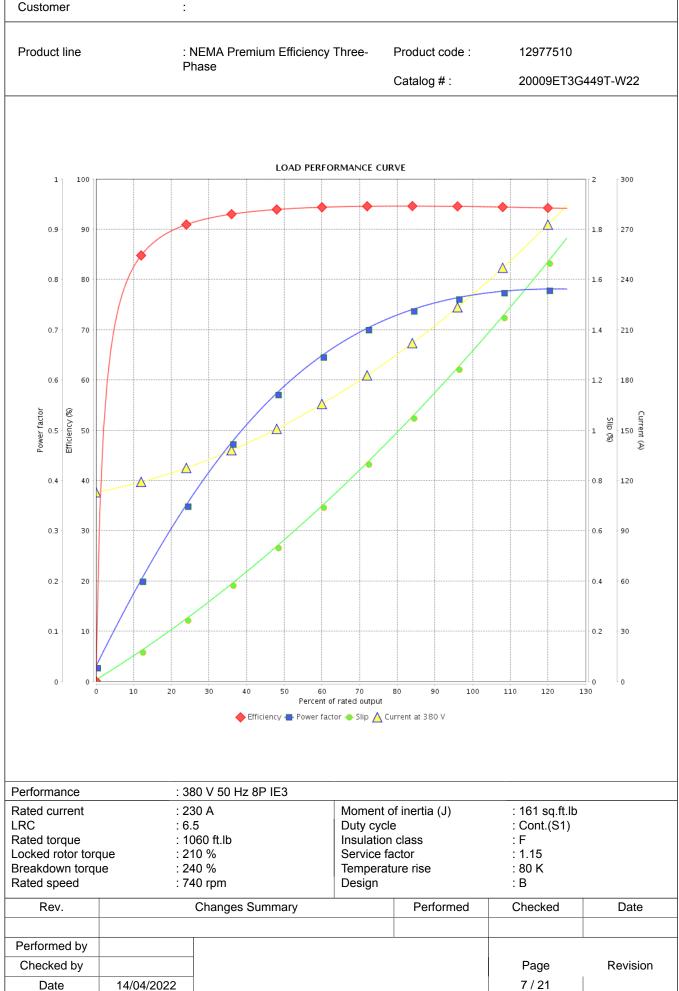


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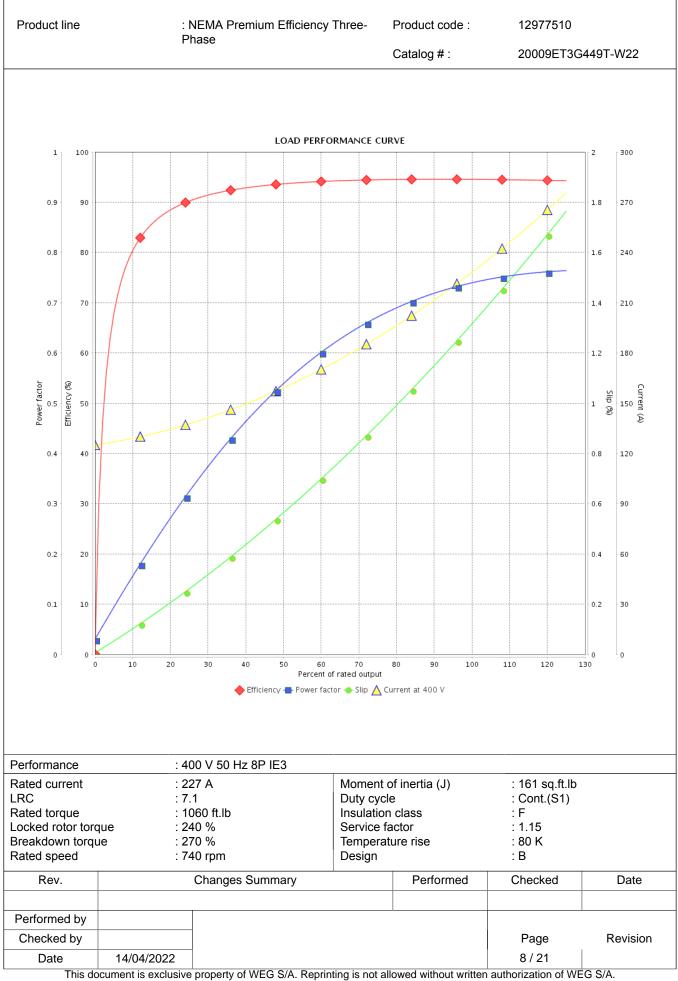
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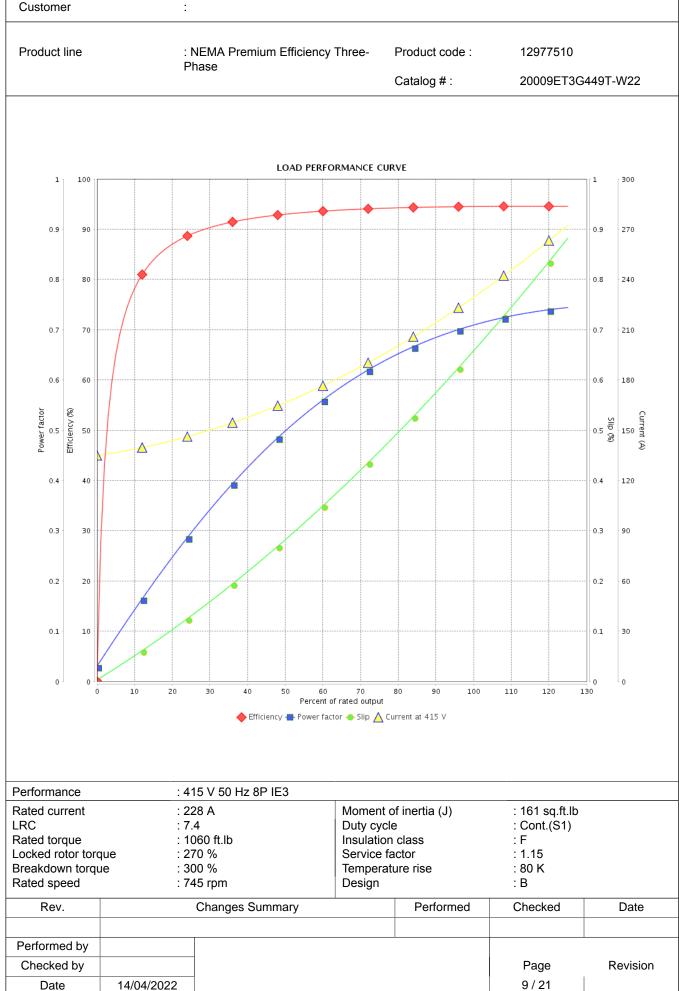


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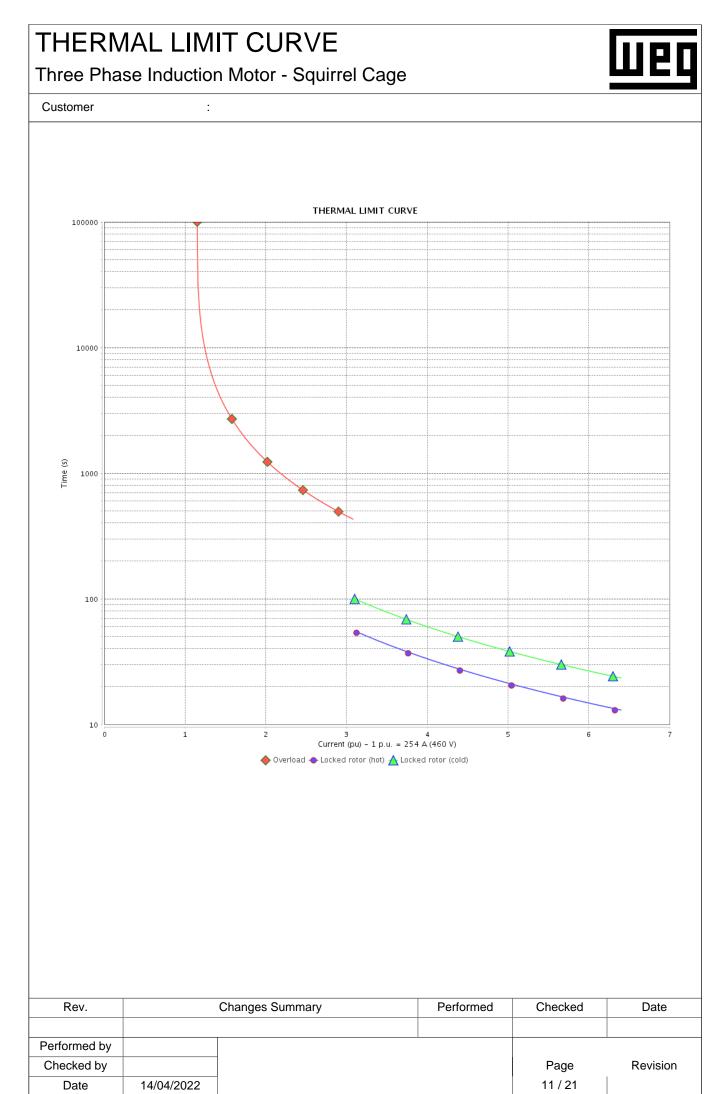
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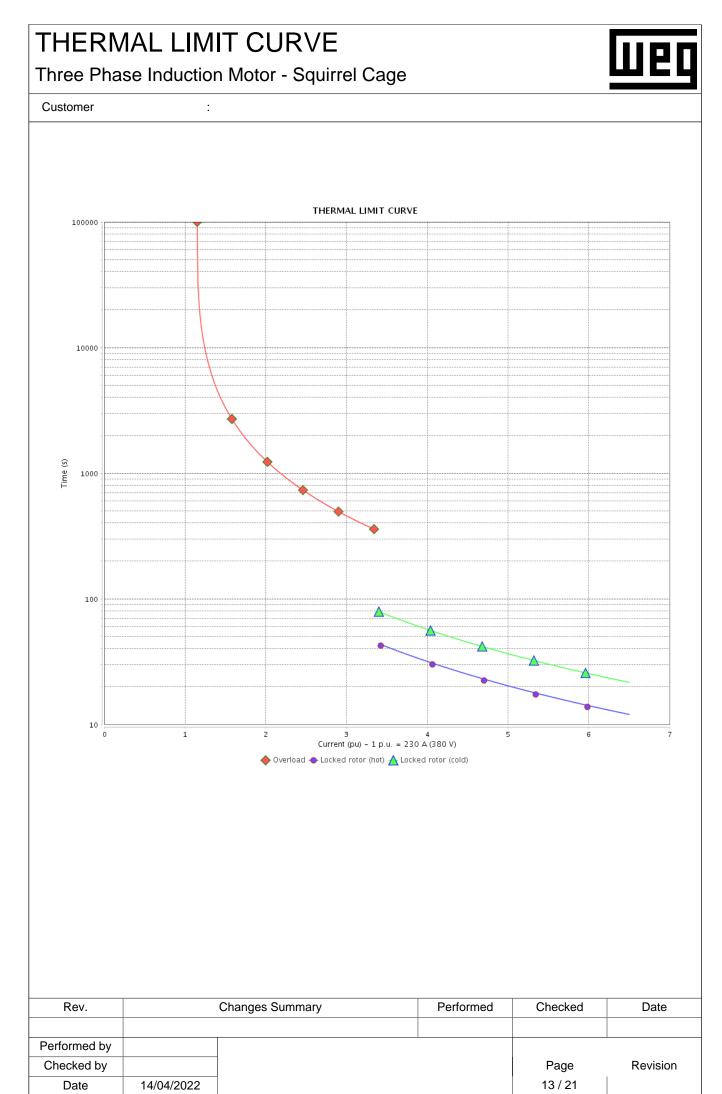
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Three Phase Induct	tion Motor - Squirrel Cage		шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12977510
		Catalog # :	20009ET3G449T-W22

Performance	: 4	60 V 60 Hz 8P				
Rated current: 254 ALRC: 6.4Rated torque: 1180 ft.lbLocked rotor torque: 200 %Breakdown torque: 220 %Rated speed: 890 rpmHeating constant		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 161 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
-						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Date	14/04/2022				10 / 21	



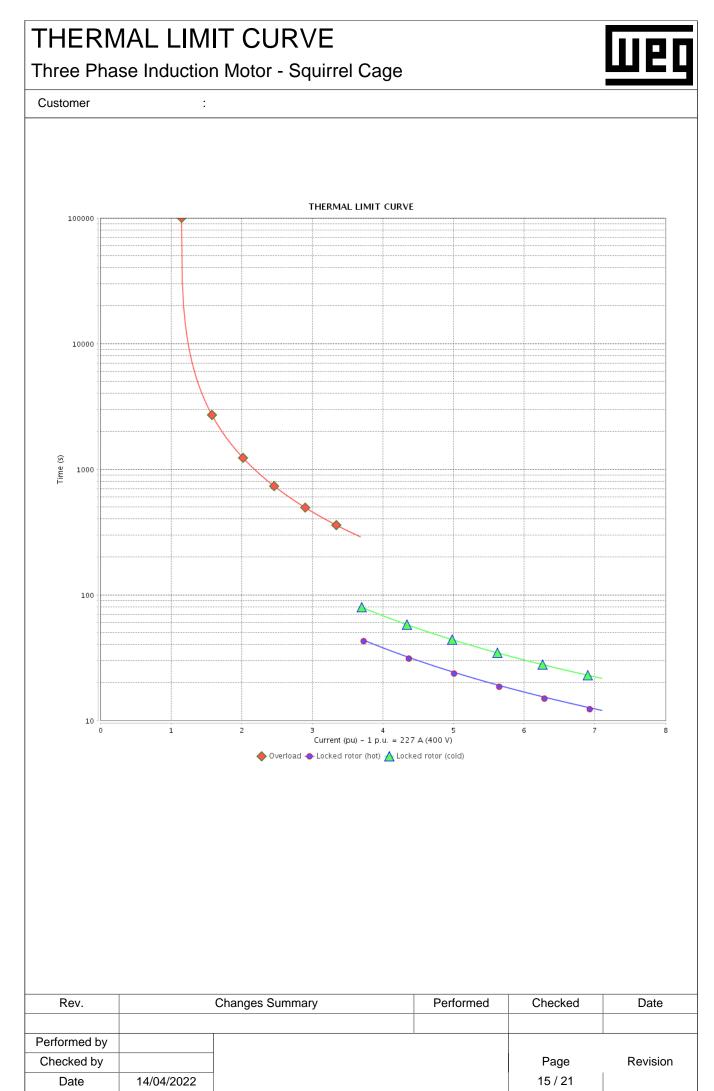
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Three Phase Indu	ction Motor - Squirrel Cage	;	<u> </u>
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12977510
Product line		Catalog # :	20009ET3G449T-W22

Duty c Insulat Service	ion class e factor rature rise	: 161 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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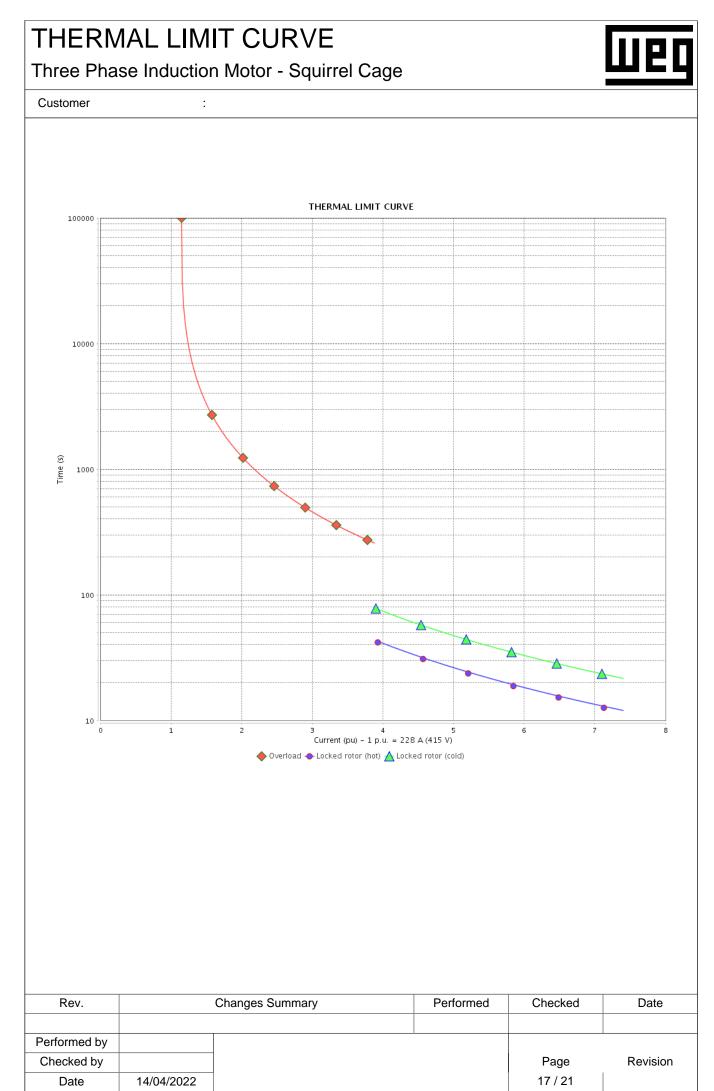
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Three Phase Indu	uction Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12977510
		Catalog # :	20009ET3G449T-W22

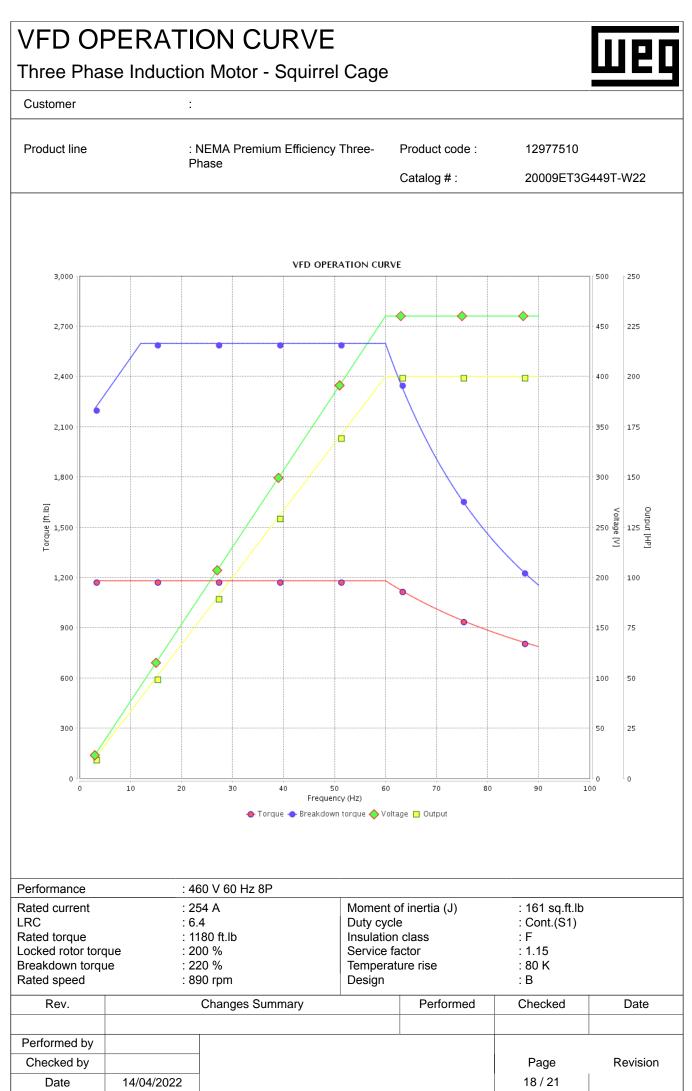
Performance	nce : 400 V 50 Hz 8P IE3					
Rated current: 227 ALRC: 7.1Rated torque: 1060 ft.lbLocked rotor torque: 240 %Breakdown torque: 270 %Rated speed: 740 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 161 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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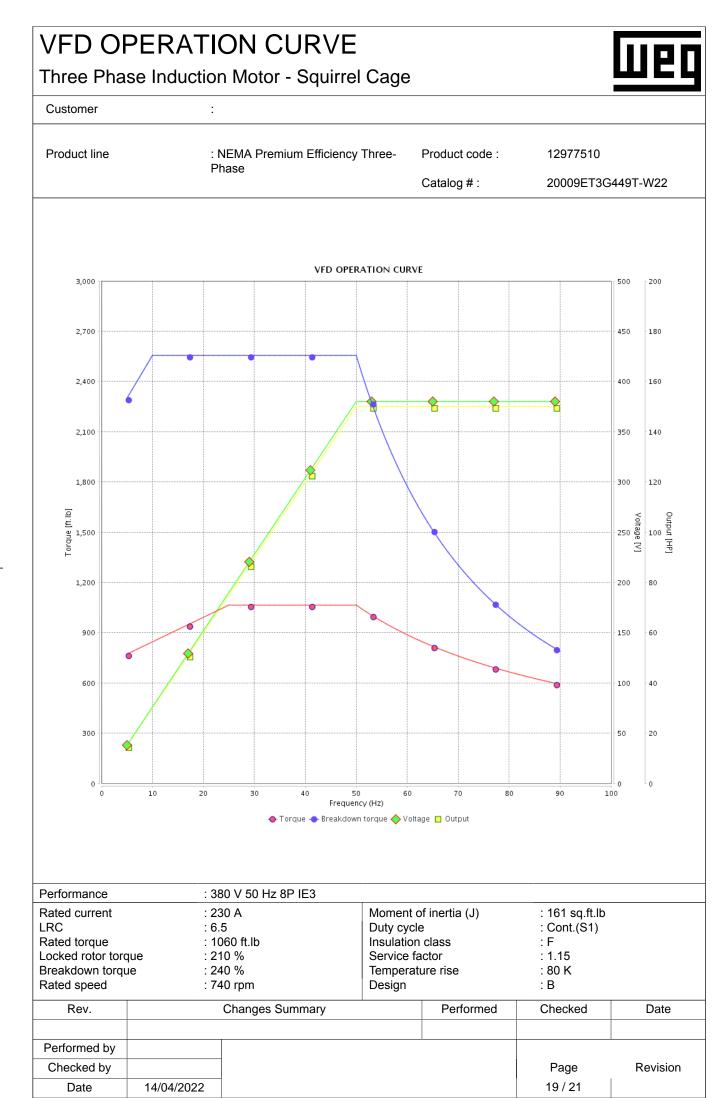


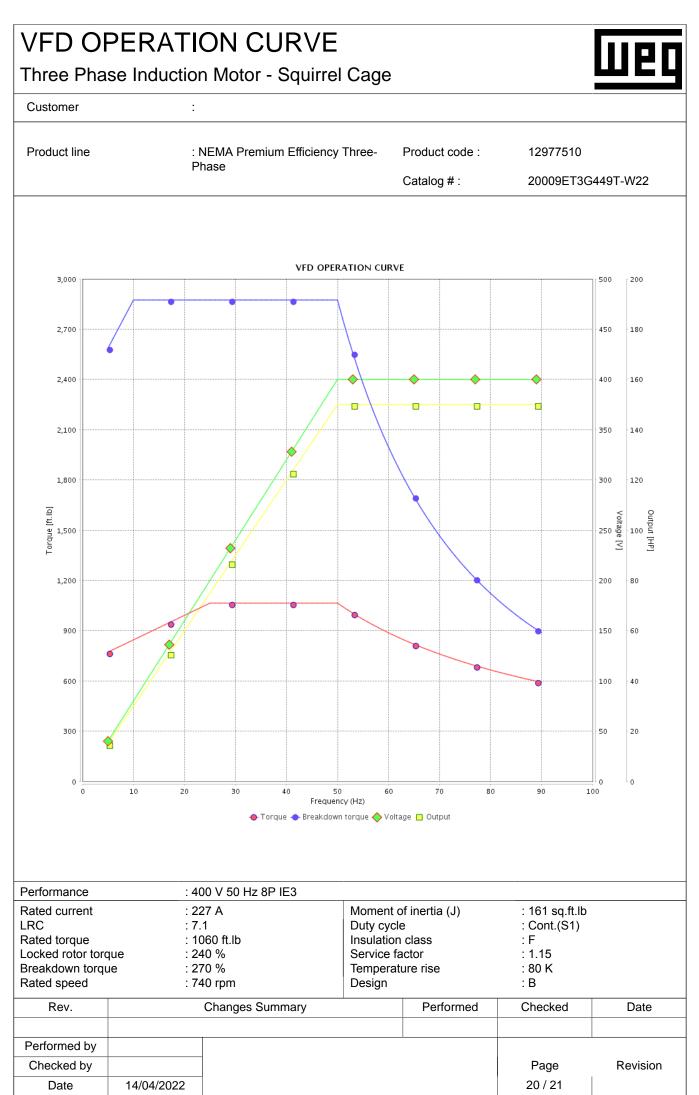
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12977510
		Catalog # :	20009ET3G449T-W22

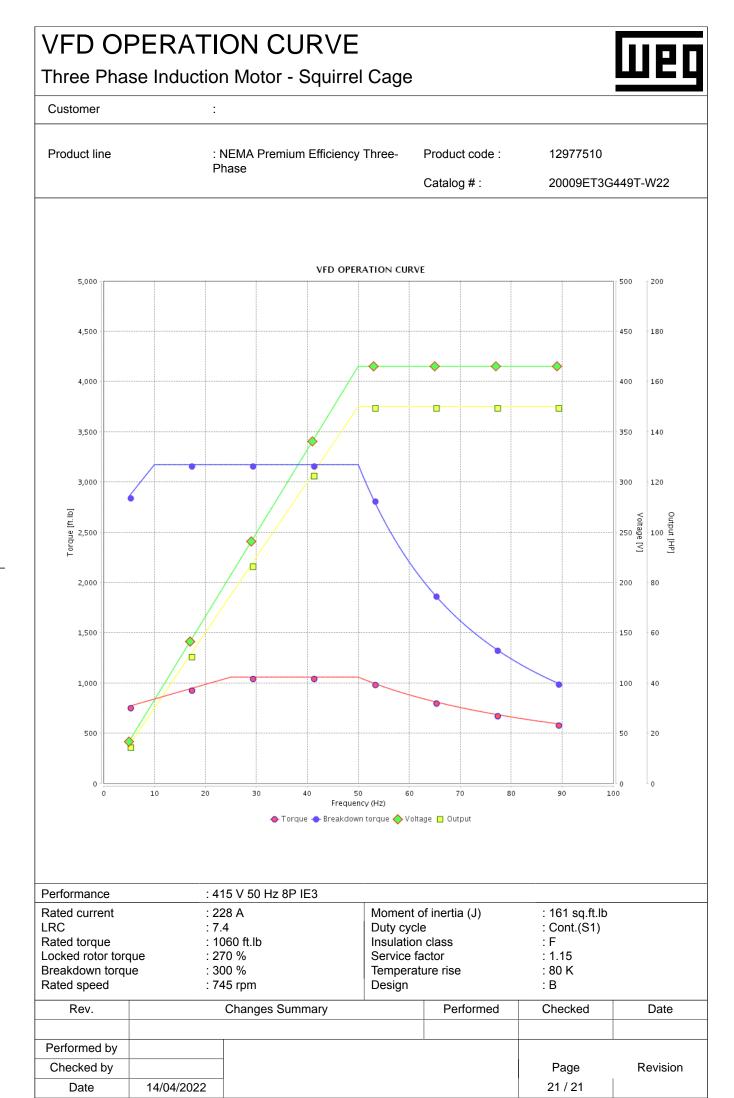
Performance	: 4	15 V 50 Hz 8P IE3				
Rated current: 228 ALRC: 7.4Rated torque: 1060 ft.lbLocked rotor torque: 270 %Breakdown torque: 300 %Rated speed: 745 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 161 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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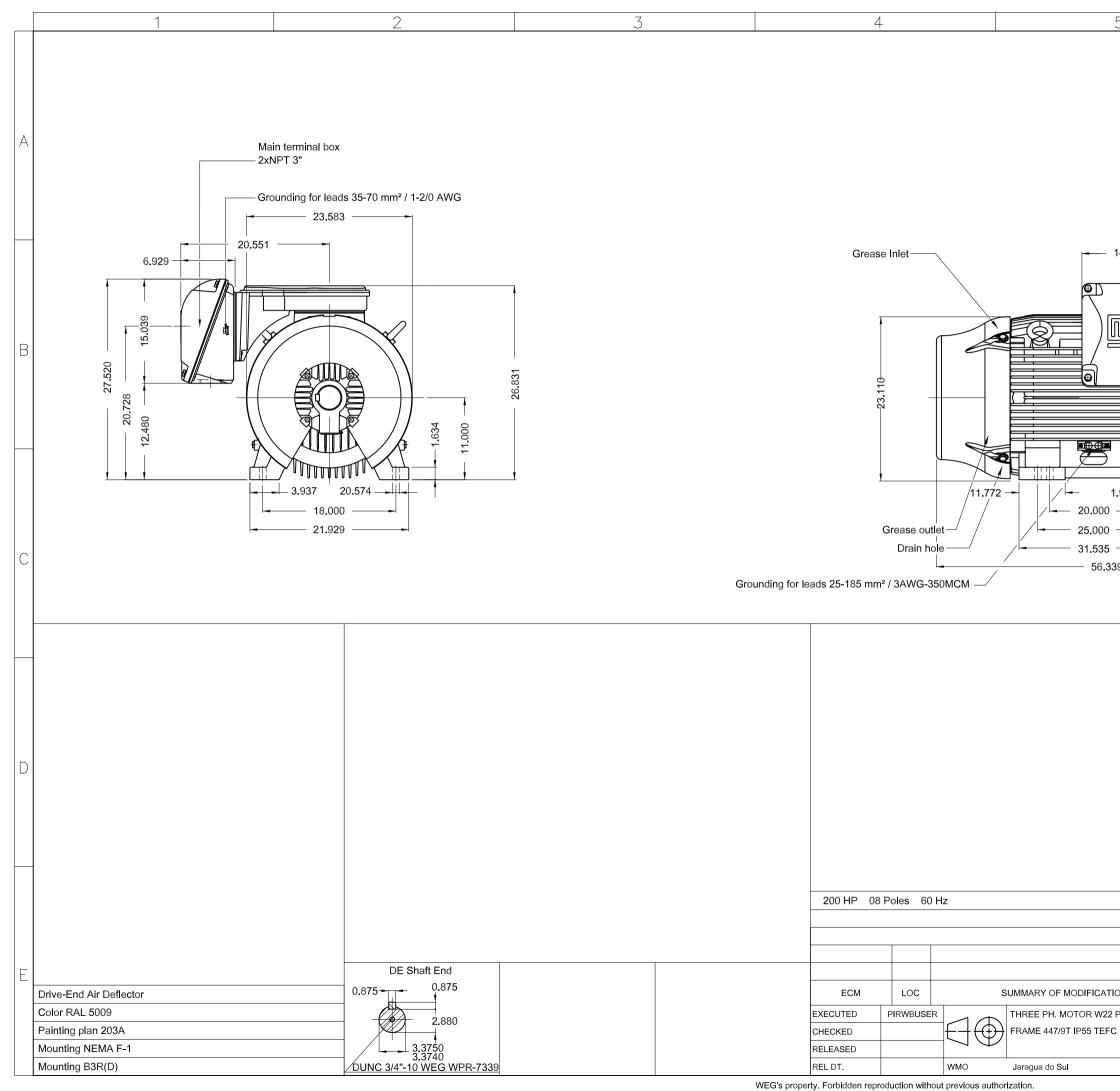












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