# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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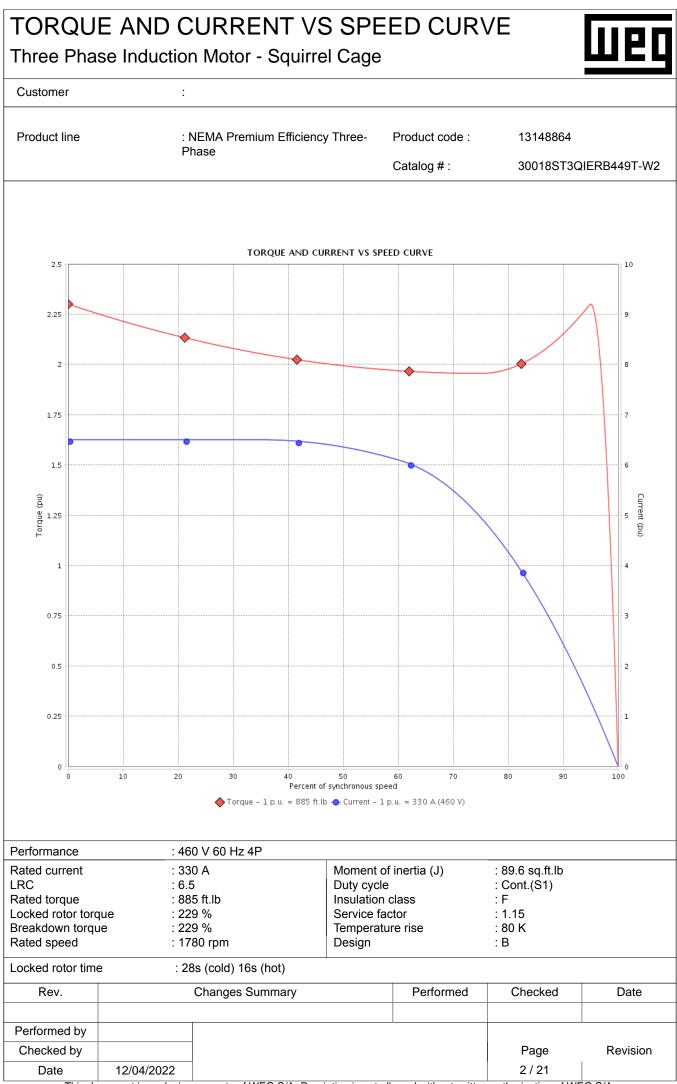


Product line		: NEMA Premium Effic	ciency Tł	nree- Produ	uct code :	13148	864
		Phase		Catal	og # :	30018	ST3QIERB449T-W2
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 447/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling meth Mounting Rotation <sup>1</sup> Starting meth Approx. weig Moment of in	iod ht³	: F-1 : Both : Direc : 2998	1 - TEFC (CW and CCW) of On Line b lb sq.ft.lb
Output [HP]		300		250	25	50	250
Poles		4		4	20		4
Frequency [Hz]		60		50	5		50
Rated voltage [V]		460		380	4(		415
Rated current [A]		330		337	32	20	311
. R. Amperes [A]		2145		2056	21		2239
_RC [A]		6.5x(Code G)	6.1	x(Code F)	6.7x(C	,	7.2x(Code H)
No load current [A		95.0		94.0	10		106
Rated speed [RPN	Л]	1780		1480	14		1485
Slip [%]		1.11		1.33	1.3		1.00
Rated torque [ft.lb		885		887	88		884
_ocked rotor torqu		229		210	24		260
Breakdown torque	e [%]	229		220	25		270
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K	40- (-	105 K		5 K	105 K
Locked rotor time Noise level <sup>2</sup>		28s (cold) 16s (hot) 75.0 dB(A)		old) 10s (hot) 1.0 dB(A)	18s (cold) 71.0 c		18s (cold) 10s (hot) 71.0 dB(A)
	25%	95.7	1	95.5	95		94.9
	50%	95.8		95.8	95		95.4
Efficiency (%)	75%	96.2	95.8		96		95.8
	100%	96.2		96.0	96		96.2
	25%	0.53		0.54	0.50		0.48
	50%	0.77			0.		0.73
Power Factor	75%	0.84		0.84	0.8		0.82
	100%	0.87				87	0.86
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type		: NU-322 C3 63 : Inpro/Seal Inpr : 4000 h 80	<u>ive end</u> 19 C3 o/Seal 000 h 5 g	Foundation loa Max. traction Max. compres		: 4864 : 7862	
Notes							
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, wh e shaft end. olerance of +3dB(A). ct to changes after	nich				ests with sinusoidal s stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pro-	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A).		power supply, MG-1.			s stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). ct to changes after		power supply, MG-1.	subject to th	e tolerances Checke	s stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). ct to changes after		power supply, MG-1.	subject to th	e tolerances	s stipulated in NEMA

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 1 / 21

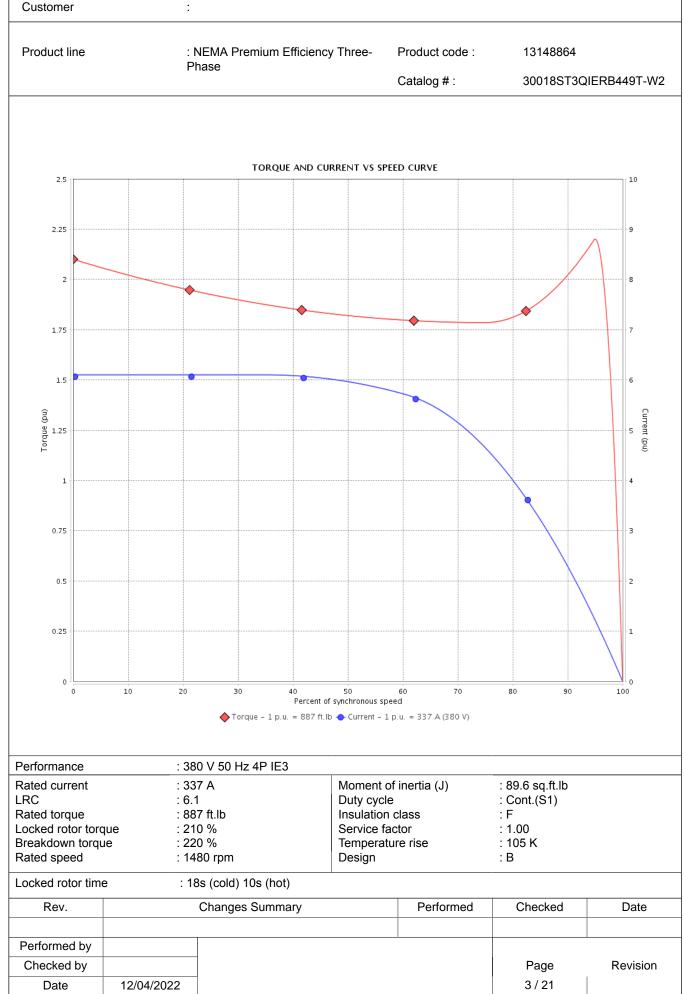
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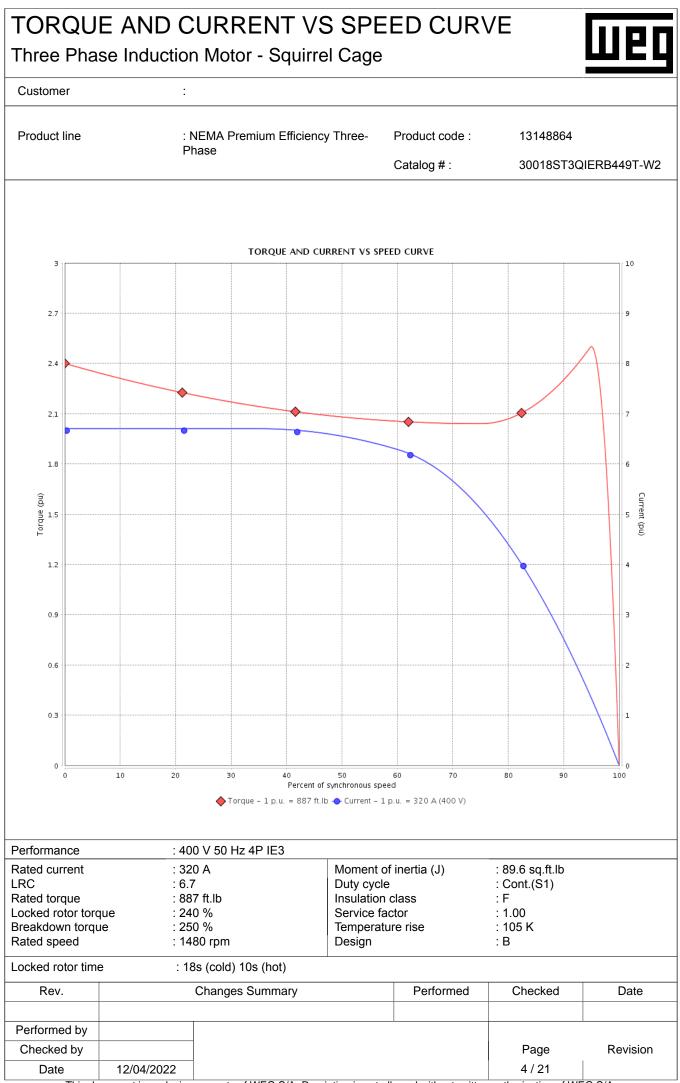
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



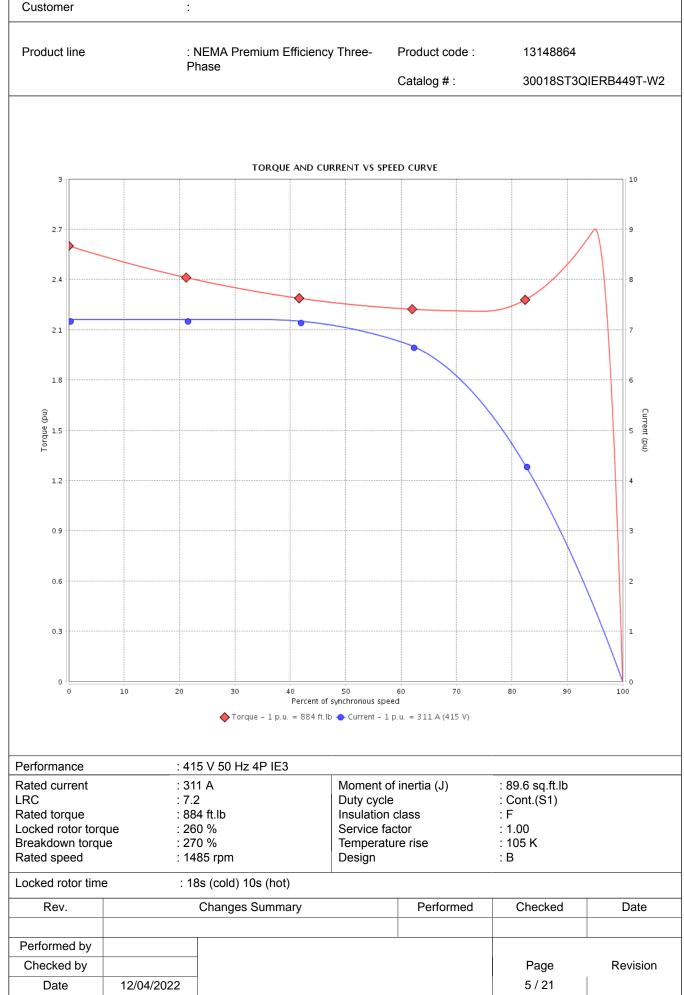
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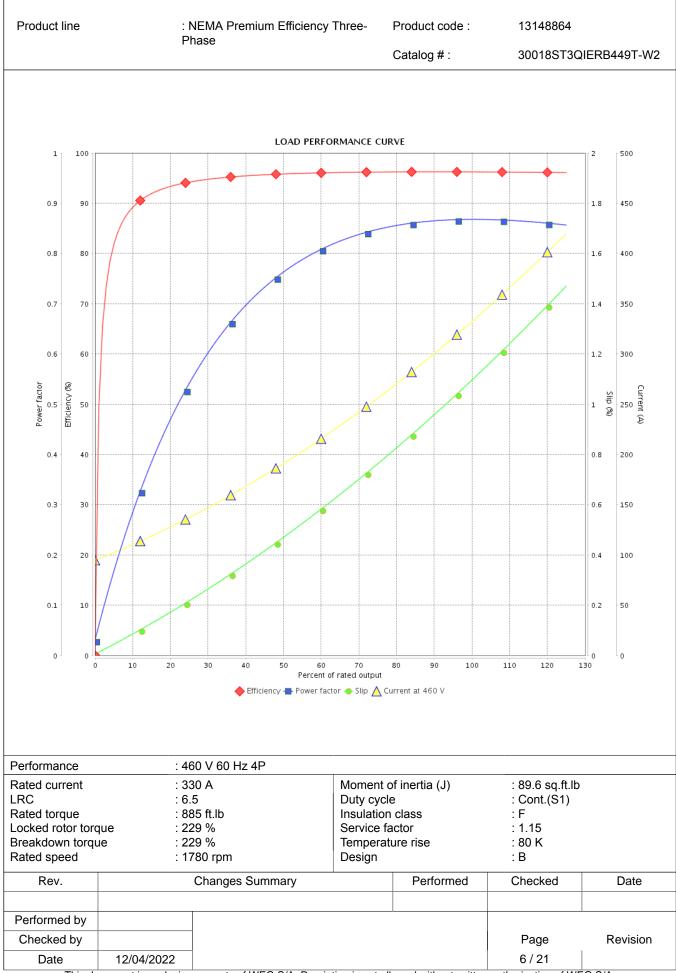
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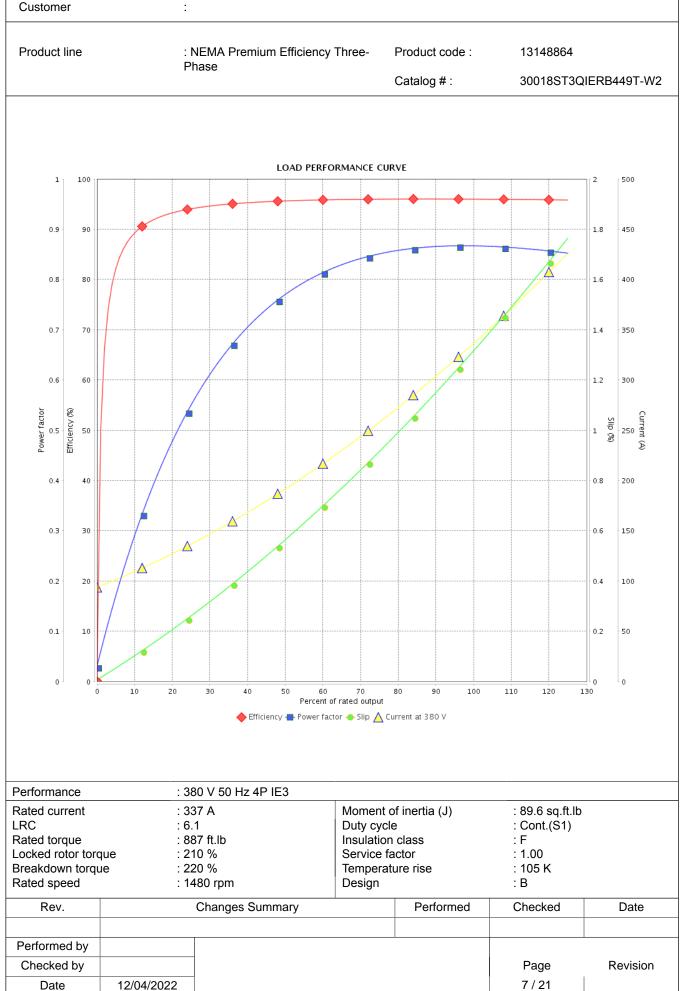
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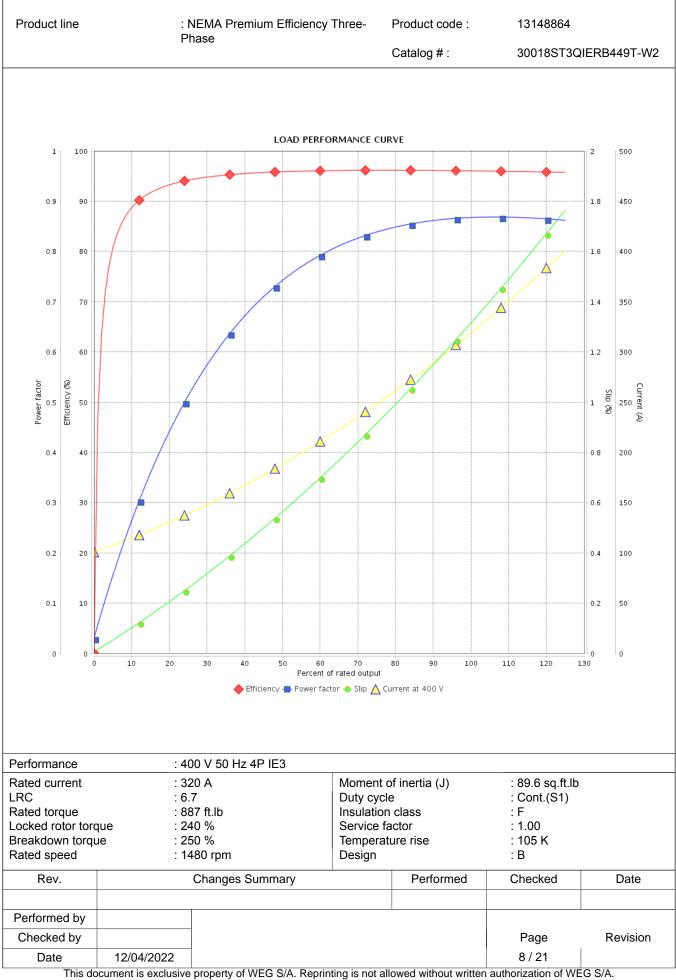
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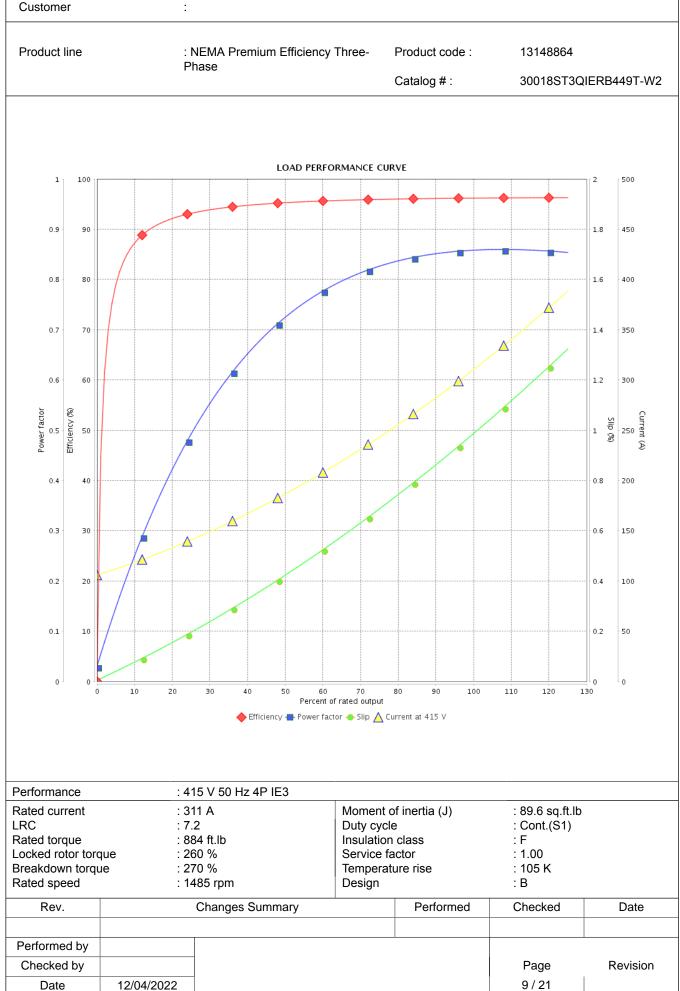


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THERMAL LIMIT CURVE						
Three Pha	se Induct	ion Motor - Squirrel	Cage			шсч
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13148864 30018ST3Q	IERB449T-W2
Performance Rated current		: 460 V 60 Hz 4P : 330 A	Moment o	of inertia (J)	: 89.6 sq.ft.lb	
LRC: 6Rated torque: 8Locked rotor torque: 2Breakdown torque: 2		: 6.5 : 885 ft.lb : 229 % : 229 % : 1780 rpm	Duty cycle Insulation Service fa Temperate Design	e class ictor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
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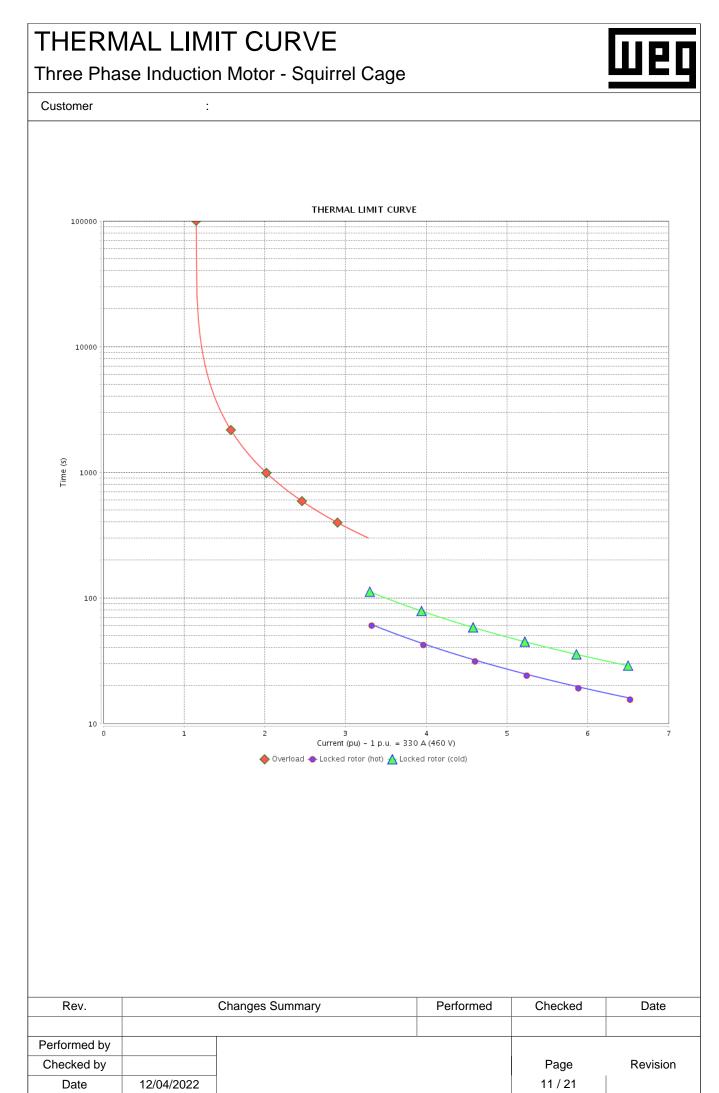
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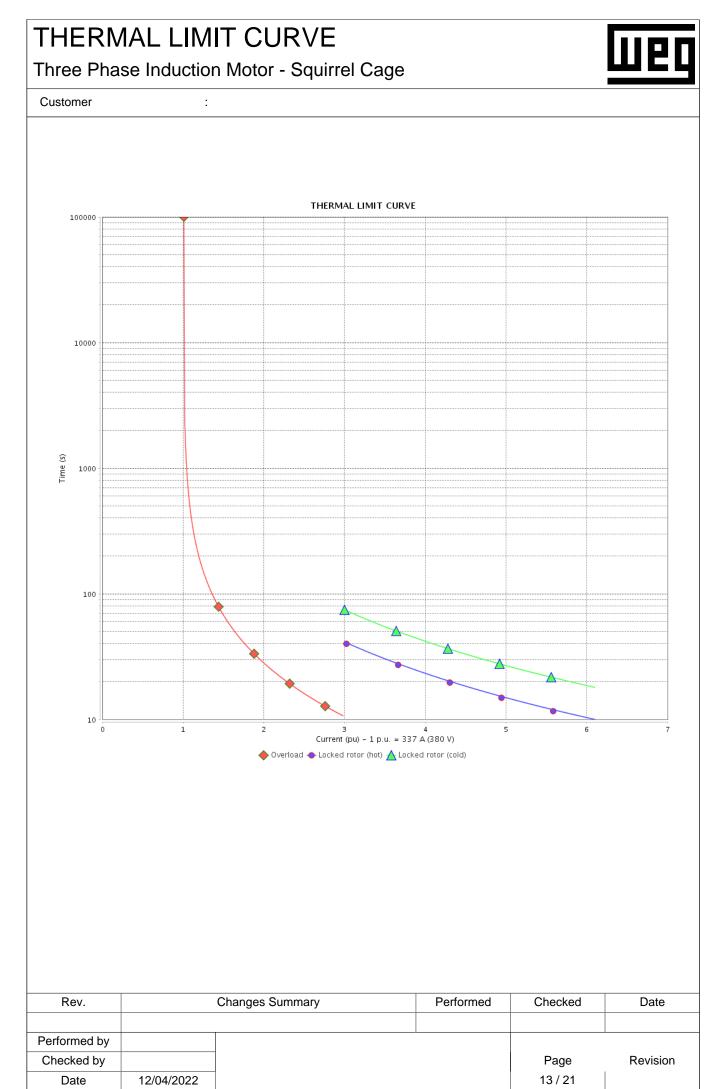


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Three Pha	se Inductio	on Motor - Squirrel	Cage			шсч
Customer		:				
Product line		: NEMA Premium Efficiency Thre	Three-	Product code :	13148864	
		Phase		Catalog # :	30018ST3QII	ERB449T-W2
Performance		380 V 50 Hz 4P IE3				
Rated current: 337 ALRC: 6.1Rated torque: 887 ft.lbLocked rotor torque: 210 %Breakdown torque: 220 %Rated speed: 1480 rpm		6.1 887 ft.lb 210 % 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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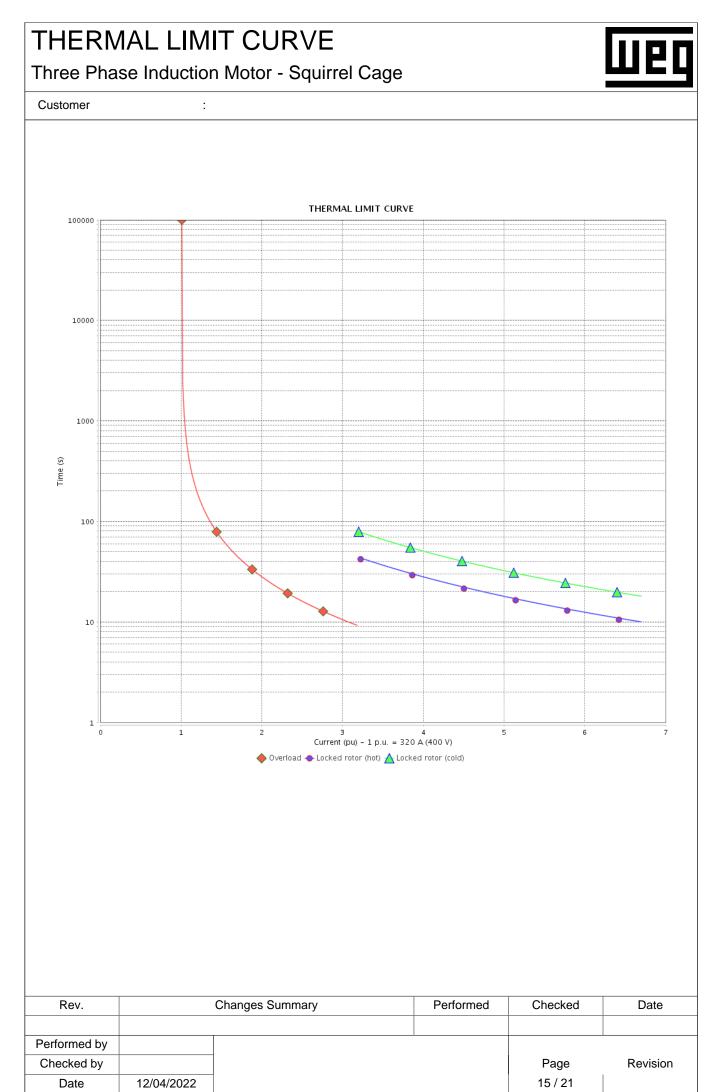


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Three Pha	se Inducti	on Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency Three-		Product code :	13148864	
		Phase		Catalog # :	30018ST3QII	ERB449T-W2
Performance Rated current		: 400 V 50 Hz 4P IE3	Moment c	of inertia (1)	: 89.6 sq.ft.lb	
Rated current: 320 ALRC: 6.7Rated torque: 887 ft.lbLocked rotor torque: 240 %Breakdown torque: 250 %Rated speed: 1480 rpm		: 6.7 : 887 ft.lb : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 69:6 \$q.11.10 : Cont.(S1) : F : 1.00 : 105 K : B	
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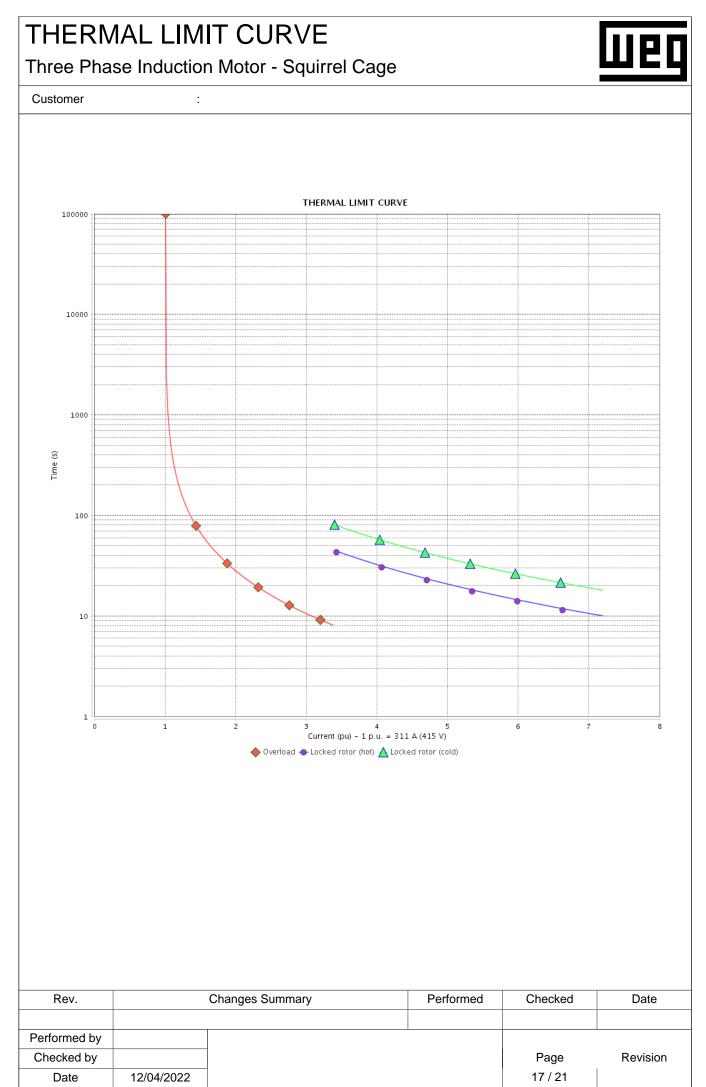
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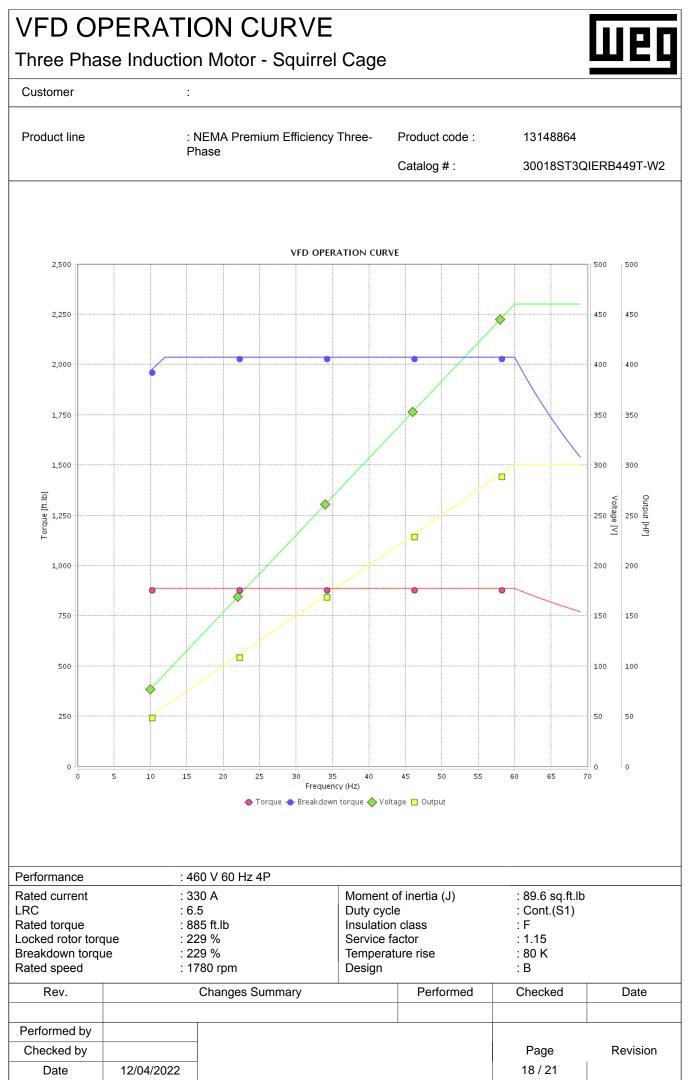


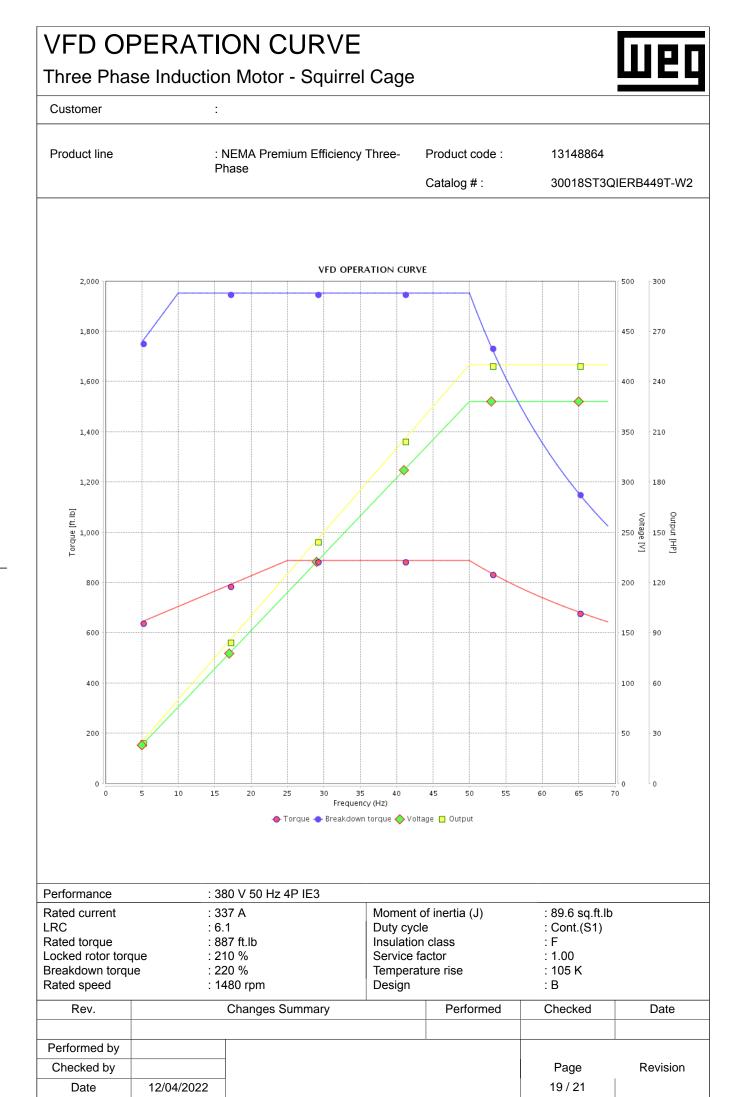
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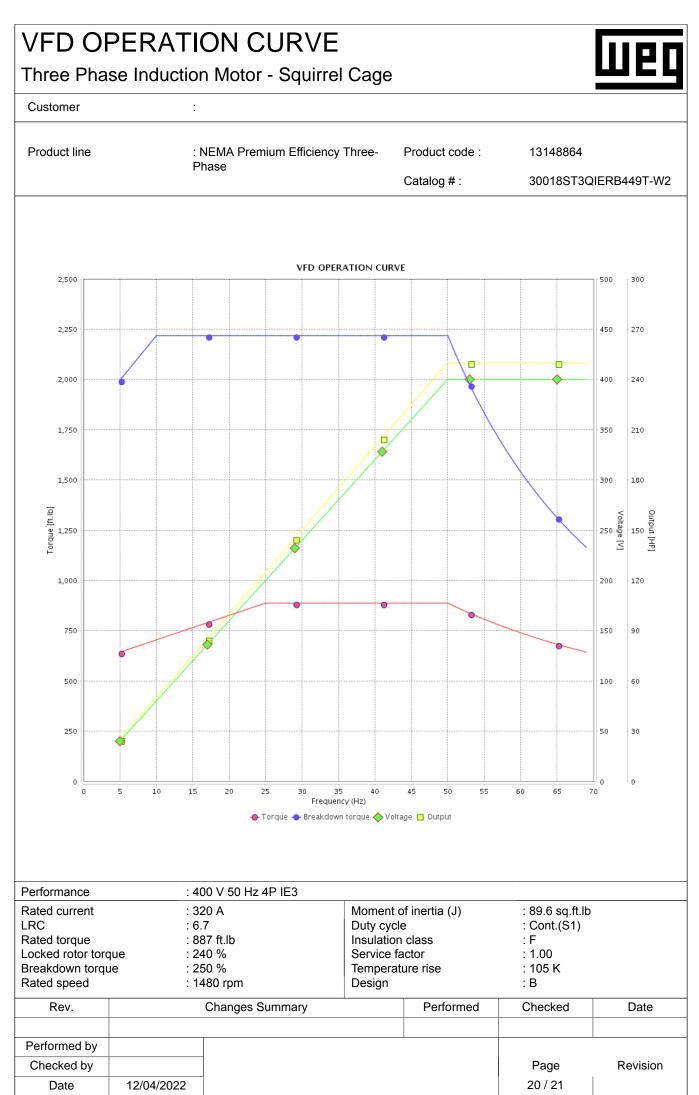
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Three Pha	se Inductio	on Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13148864 30018ST3QIE	
				Catalog # :	30010313QIE	
Performance Rated current		415 V 50 Hz 4P IE3 311 A	Momont	of inertia (J)	· 90 6 og ft lb	
LRC	:	7.2	Duty cycle	9	: 89.6 sq.ft.lb : Cont.(S1) : F	
Rated torque Locked rotor toro	que :	884 ft.lb 260 %	Insulation class Service factor		: 1.00	
Breakdown torqu Rated speed		270 % 1485 rpm	Temperati Design	ure rise	: 105 K : B	
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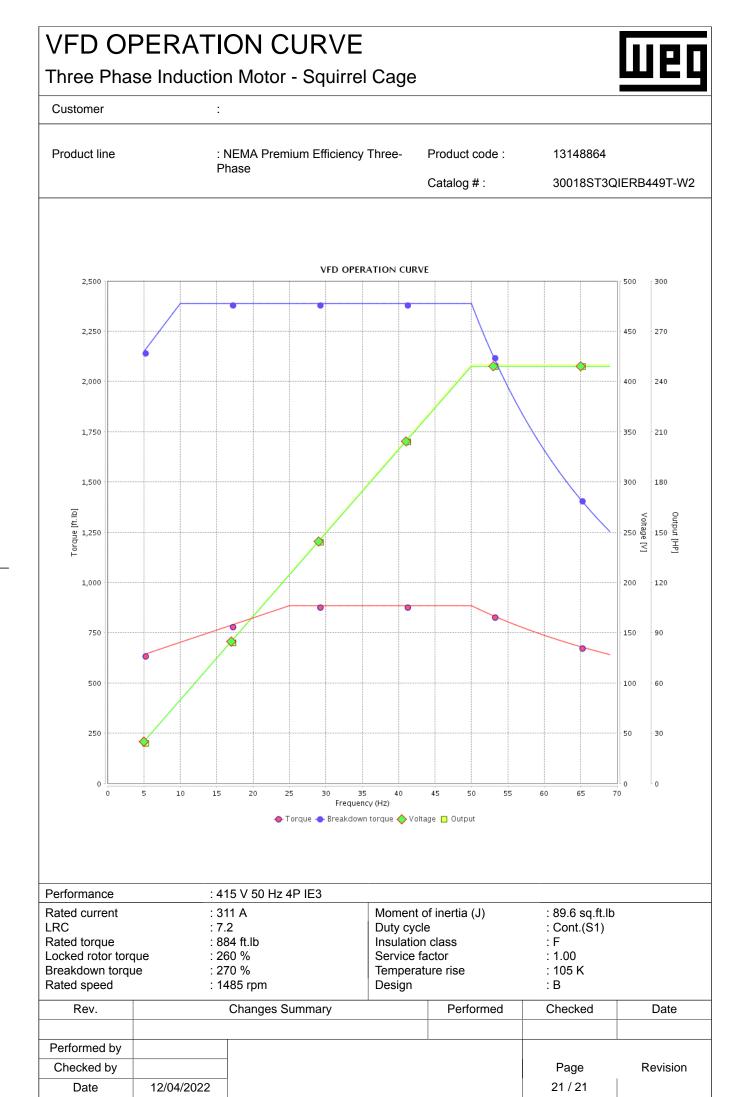
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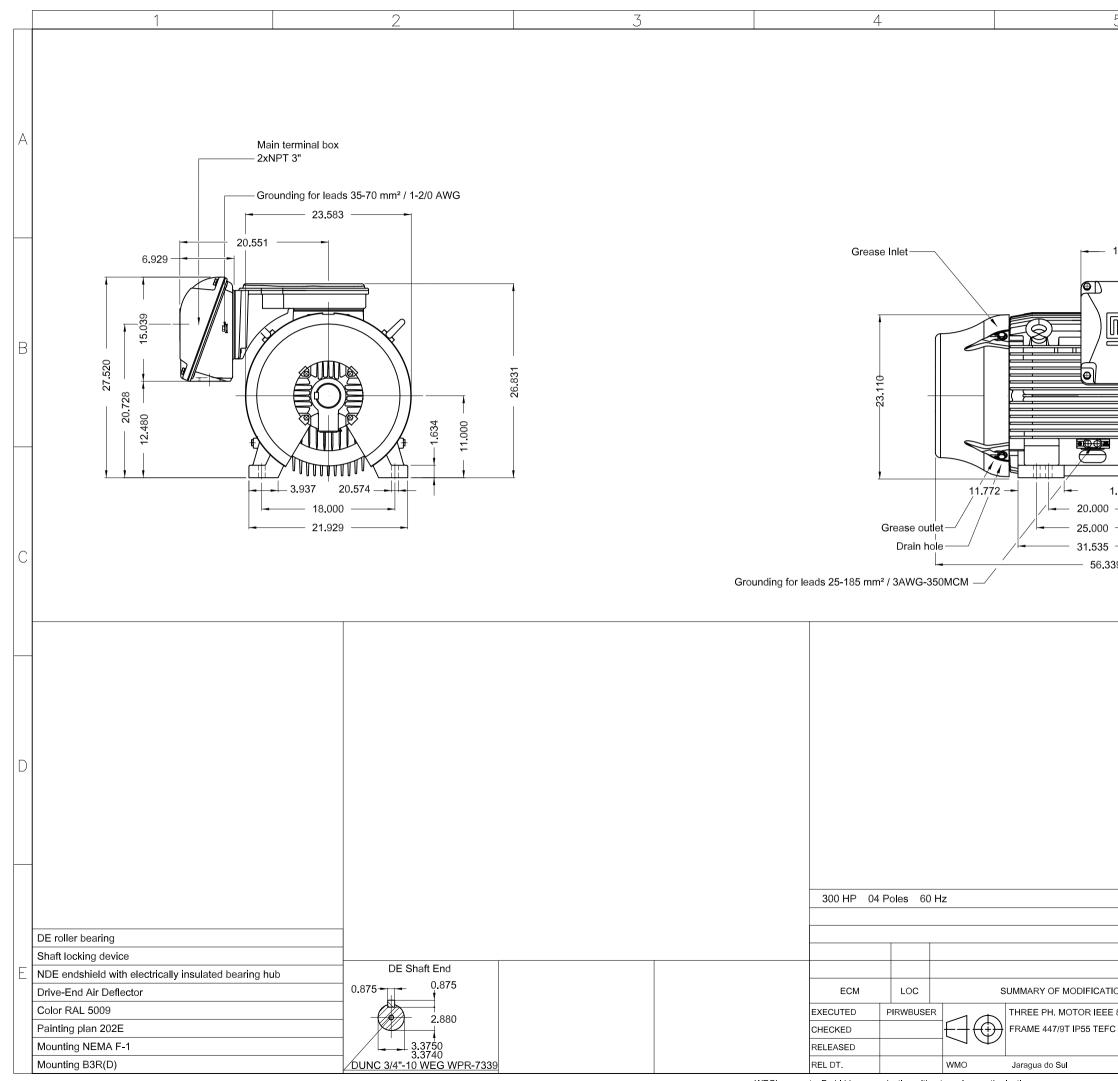












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