# DATA SHEET

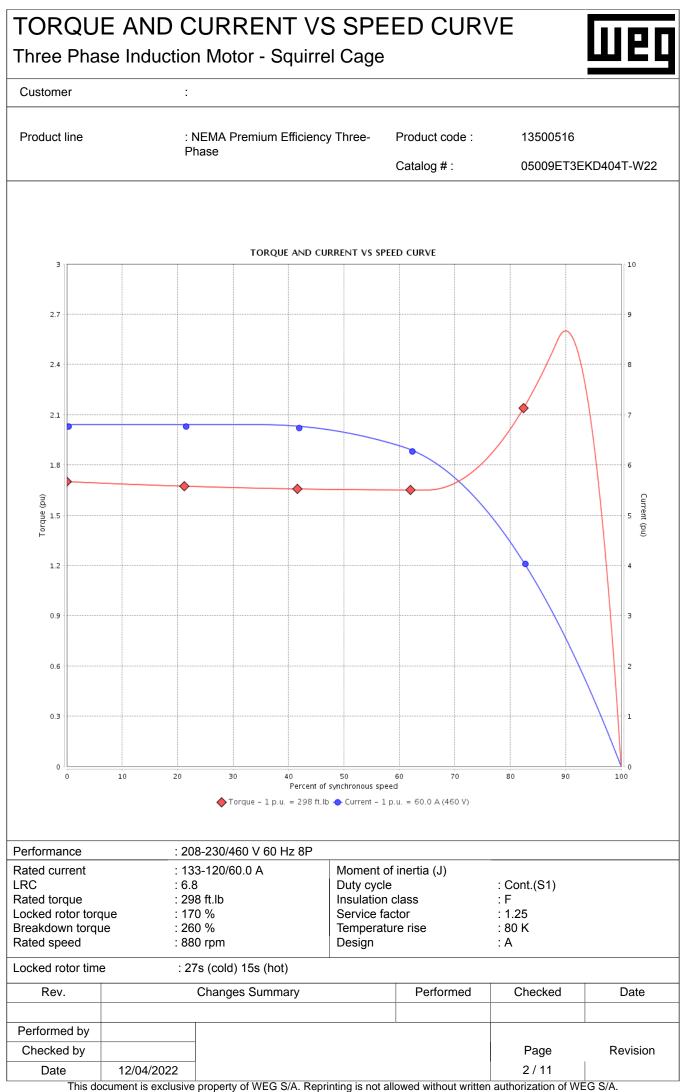
### Three Phase Induction Motor - Squirrel Cage

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#### Customer

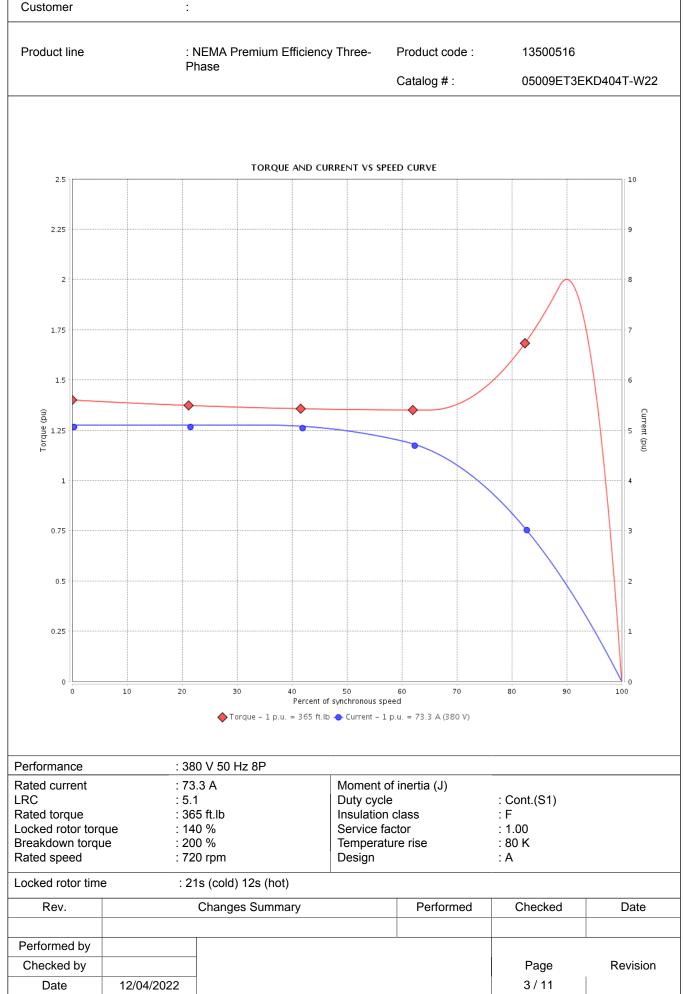
Product line		: NEMA Premium Efficiency Three- Proc Phase		ct code :	13500516	
		T Hase	Catalo	g # :	05009ET3Ek	CD404T-W22
Frame		: 404/5T	Cooling metho	d	: IC411 - TEF	C
Insulation class		: F	Mounting		: F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>		: Both (CW a	nd CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting metho	d	: Direct On L	
Altitude		: 1000 m.a.s.l. Approx. weight <sup>3</sup>			: 1012 lb	
Protection degre	e	: IP55	Moment of inertia (J)			
Design	-	: A				
Output [HP]		50			50	
Poles		8		8		
Frequency [Hz]		60		50		
Rated voltage [V]		208-230/460		380		
Rated current [A]		133-120/60.0			73.3	
. R. Amperes [A]		904-816/408			374	
LRC [A]		6.8x(Code H)			5.1x(Code E)	
No load current [A	1	43.1-50.0/25.0			24.7	
Rated speed [RPI	vij	880			720	
Slip [%]	-	2.22			4.00	
Rated torque [ft.lb		298			365	
Locked rotor torqu		170			140	
Breakdown torque	e [%]	260			200	
Service factor	-	1.25			1.00	
Temperature rise		80 K			80 K	
Locked rotor time		27s (cold) 15s (hot)			21s (cold) 12s (hot)	
Noise level <sup>2</sup>			, , , , , , , , , , , , , , , , , , ,		56.0 dB(A)	
	<b>DE</b> 0/	60.0 dB(A)				
	25%	0.000			0.000	
Efficiency (%)	50%	93.0			92.4	
	75%	93.0			91.7	
	100%	93.0			90.2	
	25%	0.00			0.00	
	50%	0.68			0.74	
Power Factor	75%	0.78			0.82	
	100%	0.83	0.85			
		Drive end Non drive end	Foundation load	ds		
Bearing type		: NU-316 C3 6314 C3				
		: WSeal WSeal				
Sealing	<b>1</b> 21	: 17000 h 20000 h	max. compress		. 2090 10	
Lubrication inter						
Lubricant amour	IL	: 34 g 27 g				
Lubricant type		: Mobil Polyrex EM				
Notes						
must be eliminate (1) Looking the m (2) Measured at (3) Approximate	ed. lotor from the Im and with t weight subjec	ncel the previous one, which e shaft end. olerance of +3dB(A). ct to changes after			ased on tests wit tolerances stipul	
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). ct to changes after	power supply, s MG-1.	ubject to the	tolerances stipul	ated in NEMA
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A).	power supply, s MG-1.			
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must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate w manufacturing pr (4) At 100% of fu Rev. Performed by	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). ct to changes after	power supply, s MG-1.	ubject to the	tolerances stipula	ated 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. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). ct to changes after Changes Summary	power supply, s MG-1.	ubject to the	tolerances stipul	ated in NEMA



## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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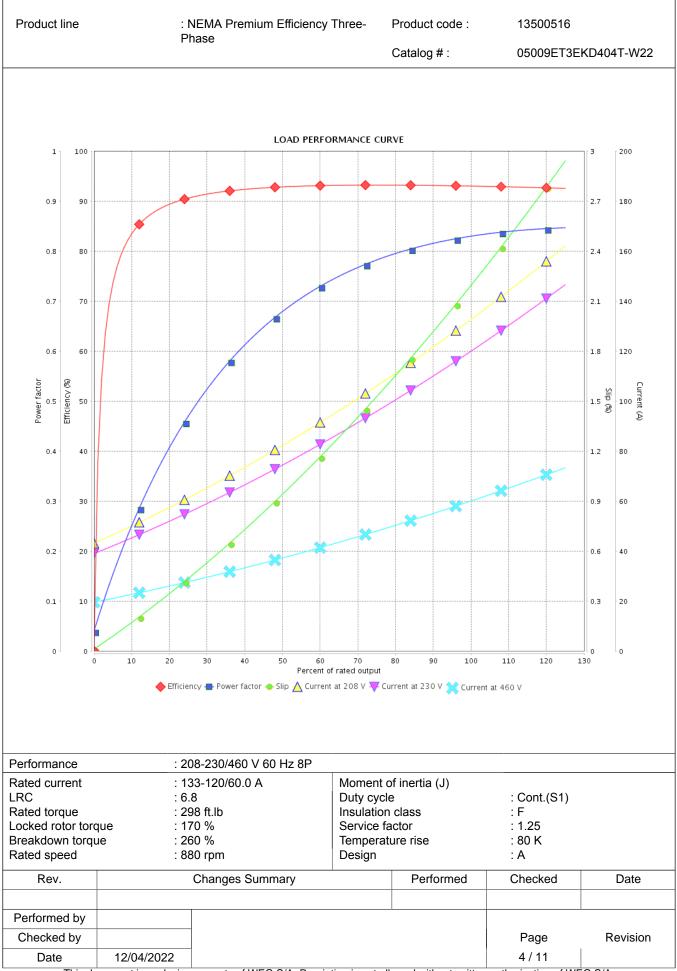
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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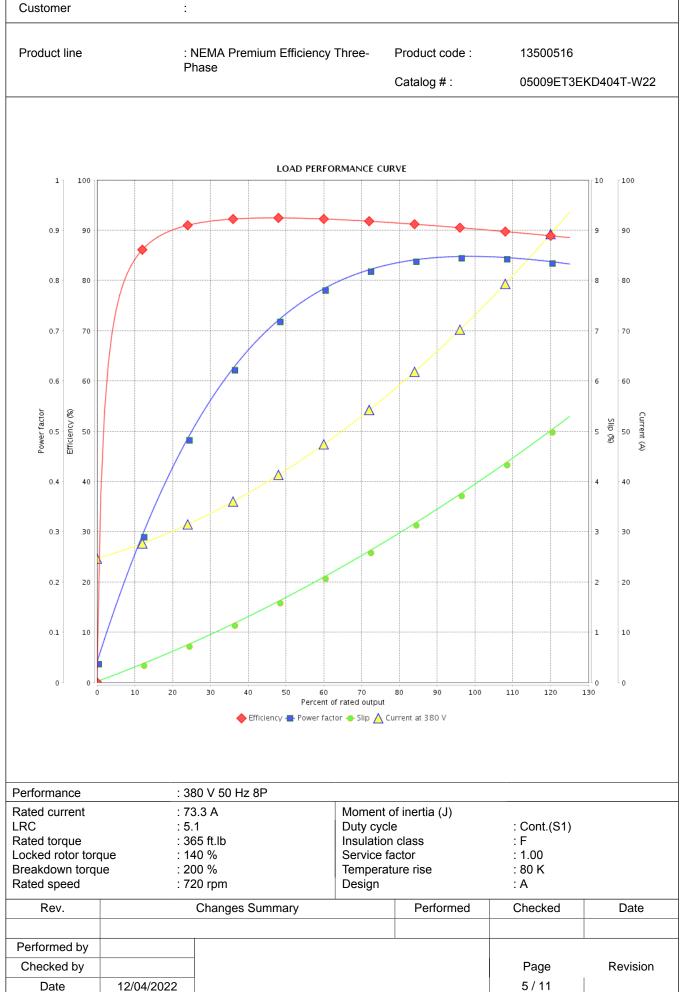
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

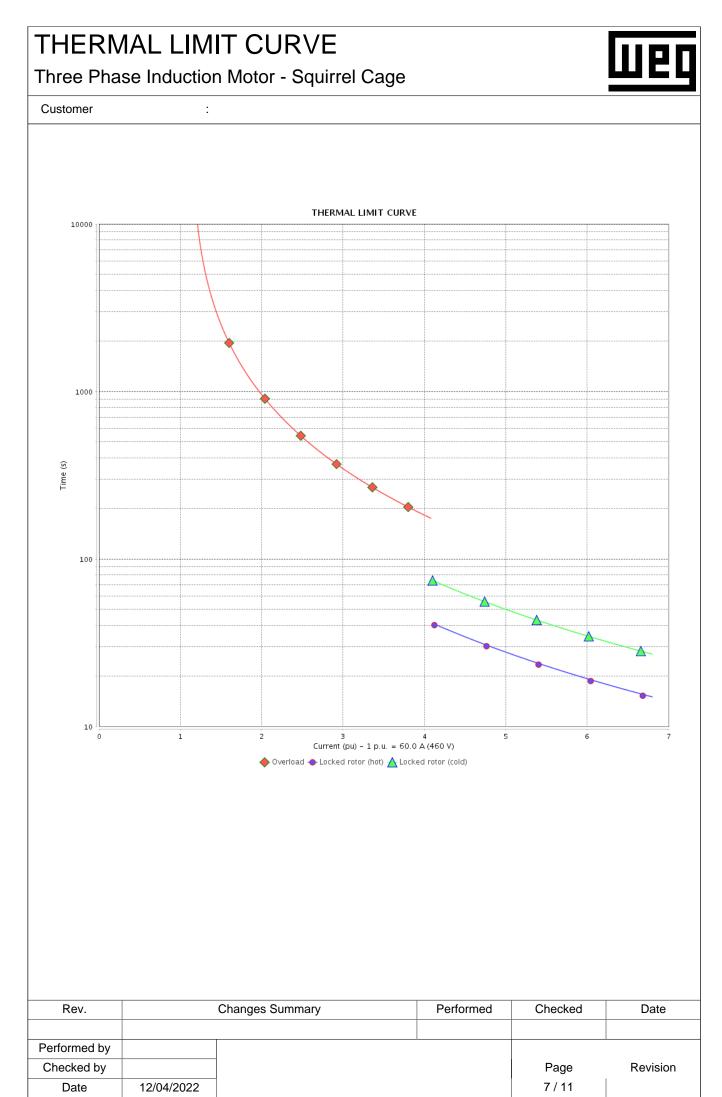
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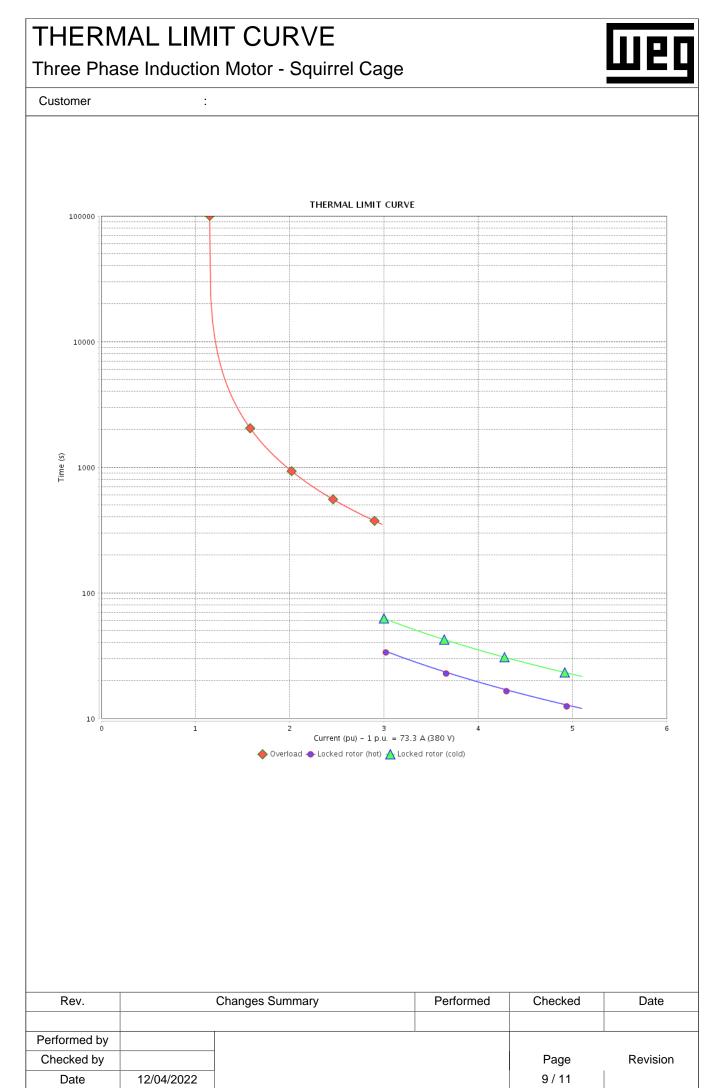
THERMAL	LIMIT CURVE				Шед
Three Phase Ind	uction Motor - Squirrel (	Cage			шсц
Customer	:				
Product line	: NEMA Premium Efficiency Th Phase		Product code : Catalog # :	13500516 05009ET3E	KD404T-W22
Performance	: 208-230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.8 [ : 298 ft.lb ] : 170 % : 260 % ]	Moment of Duty cycle nsulation Service fac Temperatu Design	class ctor	: Cont.(S1) : F : 1.25 : 80 K : A	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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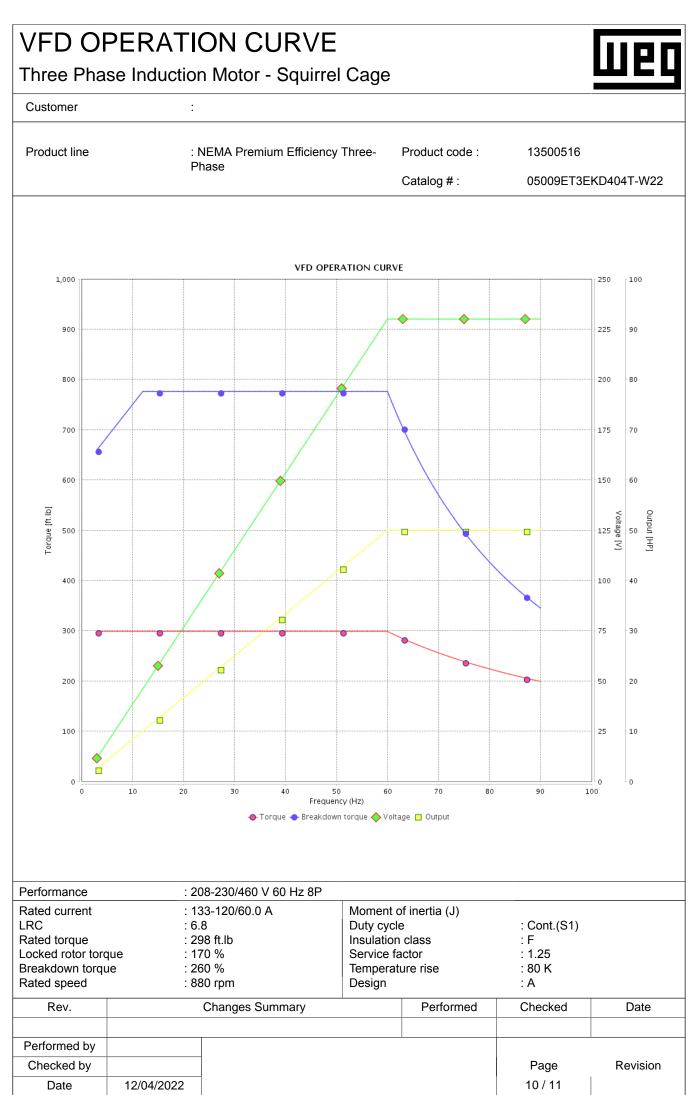
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Date	12/04/2022		6 / 11	
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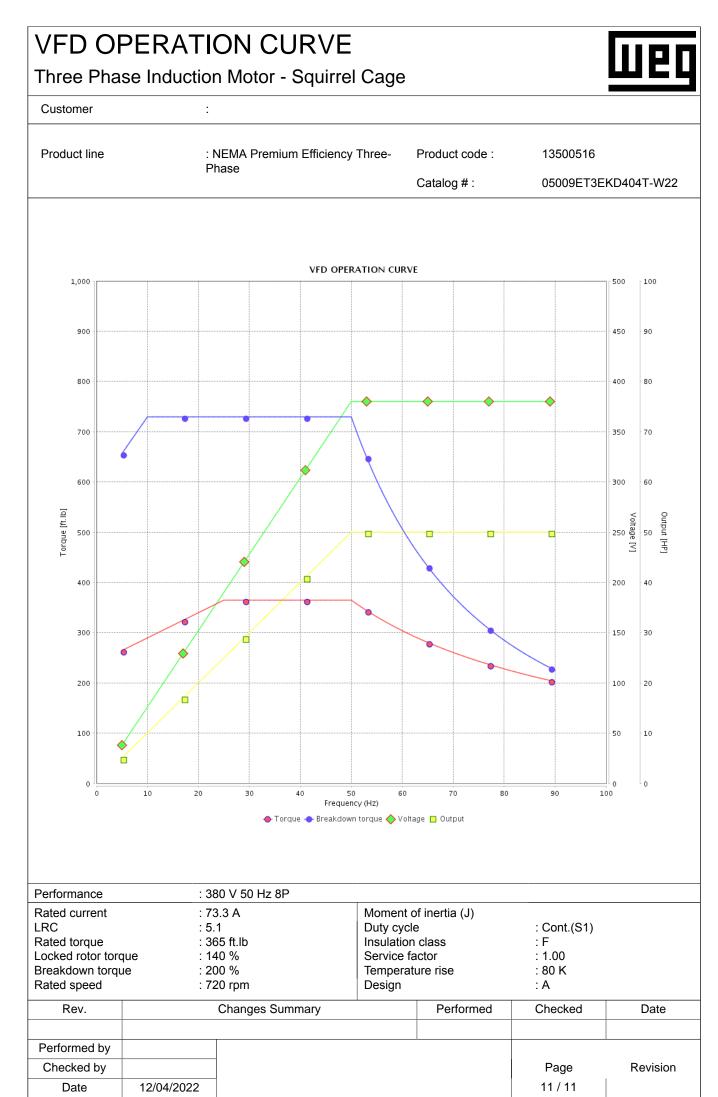
THERMAL LIMIT CURVE						
Three Pha	se Induct	ion Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13500516 05009ET3E	KD404T-W22
Performance Rated current		: 380 V 50 Hz 8P : 73.3 A	Moment	of inertia (J)		
LRC Rated torque Locked rotor torque Breakdown torque		: 5.1 : 365 ft.lb : 140 % : 200 % : 720 rpm	Duty cycle Insulation Service fa Temperat Design	e class actor	: Cont.(S1) : F : 1.00 : 80 K : A	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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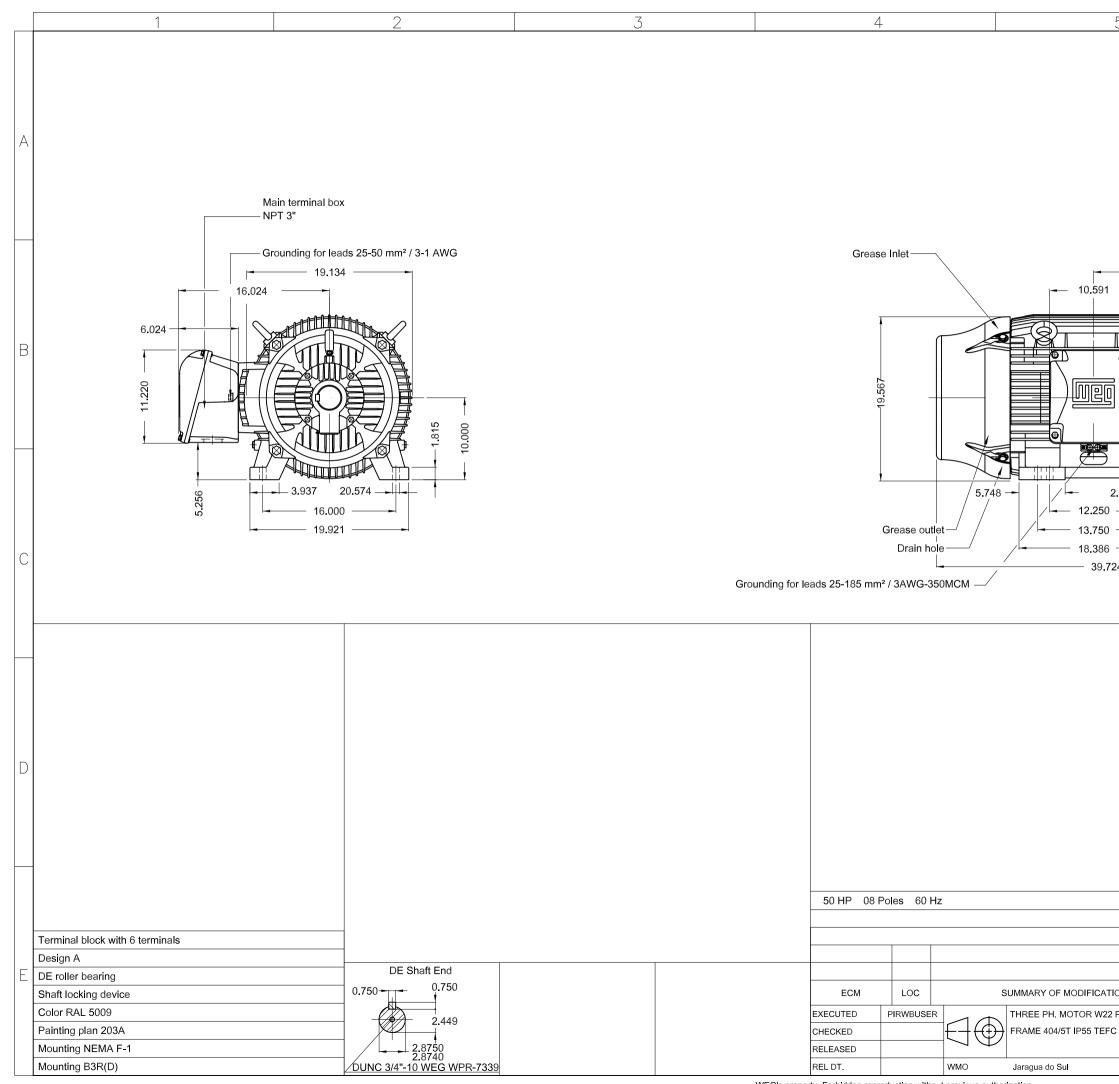




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