DATA SHEET

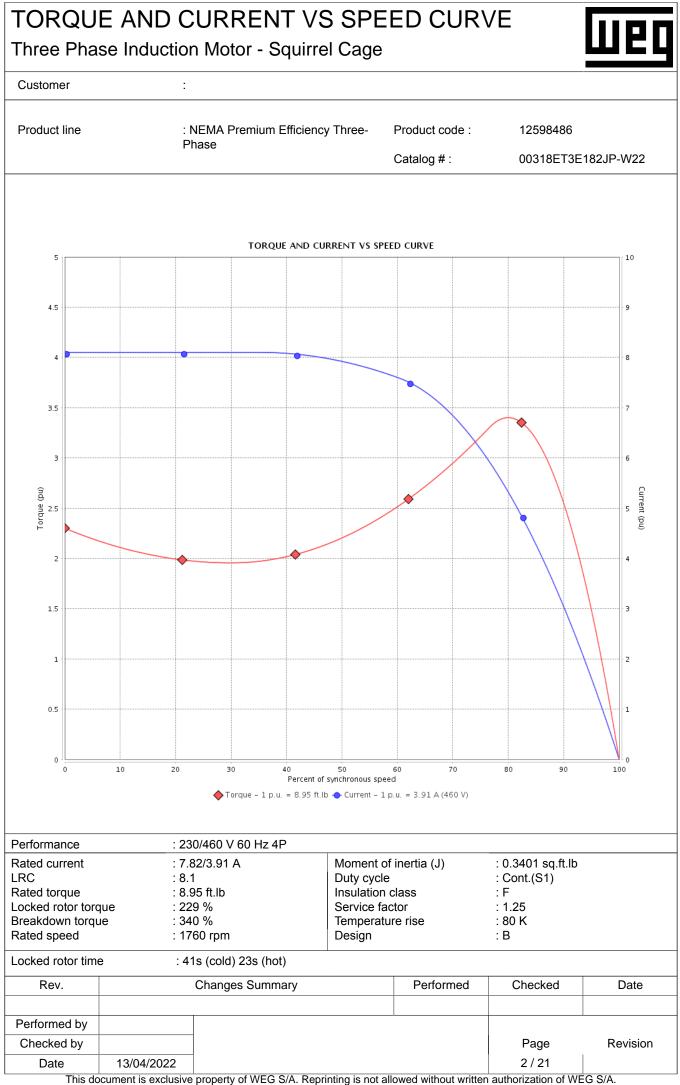
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Premium Effice Phase	hree- Pro	Product code :		12598486		
		Thase		Cat	alog # :	00318E	T3E182JP-W22	
Frame		: 182/4JP		Cooling me	thod	: IC411	- TEFC	
Insulation class		: F		Mounting		: F-1		
Duty cycle		: Cont.(S1)		Rotation ¹		: Both (CW and CCW)		
Ambient tempera	ature	: -20°C to +40°C		Starting method		: Direct On Line		
Altitude		: 1000 m.a.s.l.			Approx. weight ³		: 94.3 lb	
Protection degree		: IP55		Moment of inertia (J)		: 0.3401 sq.ft.lb		
Design		: B					•	
Dutput [HP]		3		3		3	3	
Poles		4		4		4	4	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40	00	415	
Rated current [A]		7.82/3.91		4.60	4.4		4.43	
R. Amperes [A]		63.3/31.7		29.0		.4	33.2	
.RC [A]		8.1x(Code K)	6.3	Bx(Code H)	7.0x(C	ode J)	7.5x(Code J)	
No load current [A]	4.00/2.00	İ	2.00		15	2.25	
Rated speed [RPN		1760		1445		50	1455	
Slip [%]	-	2.22		3.67		33	3.00	
Rated torque [ft.lb]	8.95		10.9).9	10.8	
ocked rotor torqu		229		180		10	240	
Breakdown torque		340		260		90	320	
Service factor		1.25		1.25		25	1.25	
emperature rise		80 K		80 K		K	80 K	
ocked rotor time		41s (cold) 23s (hot)	32s (c	cold) 18s (hot)) 18s (hot)	32s (cold) 18s (hot)	
loise level ²		56.0 dB(A)		6.0 dB(A)		dB(A)	56.0 dB(A)	
	25%	86.4		87.2		7.3	87.3	
	50%	87.5		87.5		7.5	87.5	
Efficiency (%)	75%	88.5		87.5			87.5	
	100%	89.5		87.5		.5 7.5	87.5	
	25%	0.36		0.42	0.		0.36	
	50%	0.61		0.68		64	0.61	
Power Factor	75%	0.73		0.79		76	0.73	
	100%	0.79		0.73	0.		0.79	
	10070	Drive end Non dr	ive end	Foundation	loads	-	0.10	
Bearing type			206 ZZ Max. traction		-	: 174 lb		
Sealing		: V'Ring V'	Ring	Max. compre	ession	: 268 lb		
Lubrication interv		: -	-					
Lubricant amour	it	: -	-					
Lubricant type		: Mobil Polyrex E	EM					
Notes USABLE @208V	8.65A SF 1.	15 SFA 9.95A						
This revision repl	ed.	cel the previous one, wi	hich				ts with sinusoidal stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1	Im and with to weight subjec ocess.	olerance of +3dB(A). t to changes after						
nust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v nanufacturing pro	Im and with to weight subjec ocess.	olerance of +3dB(A).			Performed	Checked	Date	
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate w manufacturing pro- (4) At 100% of ful Rev.	Im and with to weight subjec ocess.	olerance of +3dB(A). t to changes after			Performed	Checked	Date	
nust be eliminate 1) Looking the m 2) Measured at 7 3) Approximate v nanufacturing pro- 4) At 100% of ful Rev. Performed by	Im and with to weight subjec ocess.	olerance of +3dB(A). t to changes after			Performed			
nust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v nanufacturing pro (4) At 100% of ful	Im and with to weight subjec ocess.	olerance of +3dB(A). t to changes after			Performed	Checked	Date	



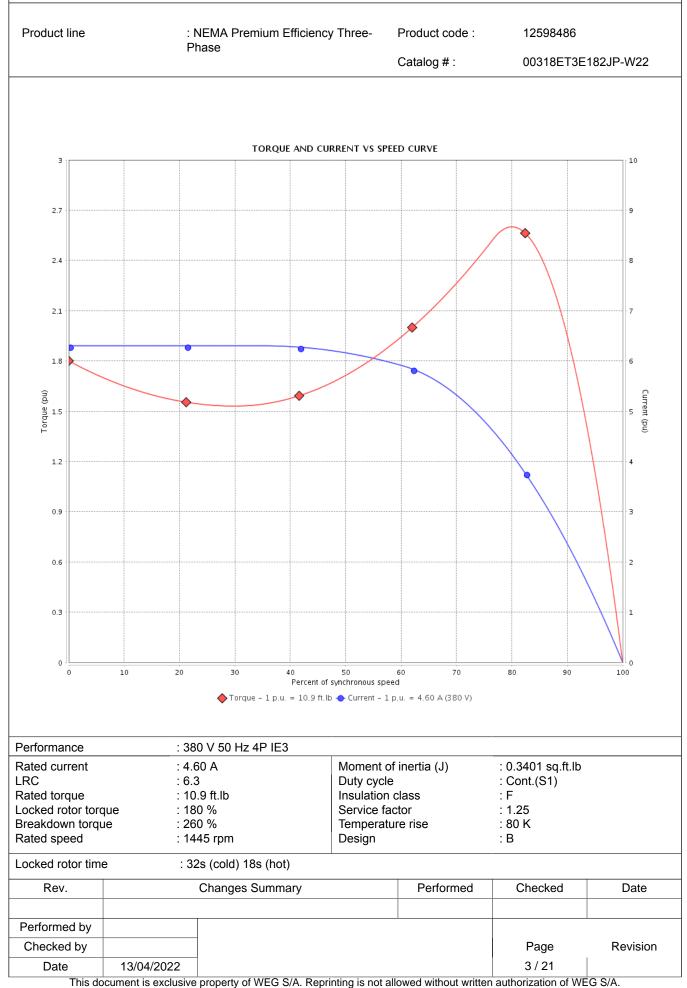
TORQUE AND CURRENT VS SPEED CURVE

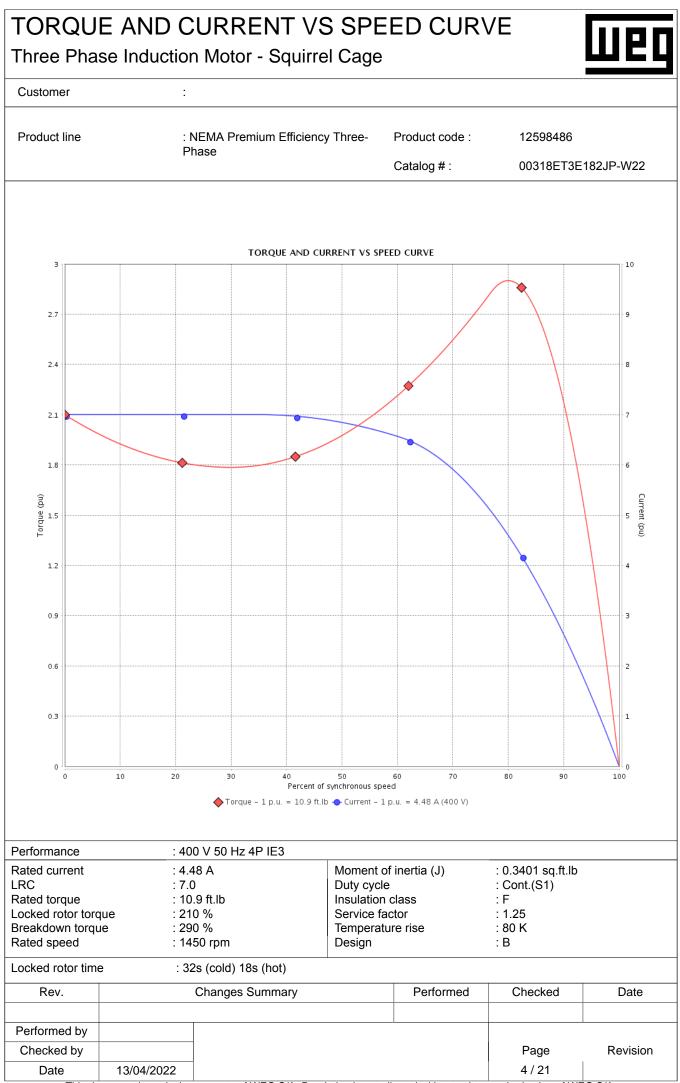
Three Phase Induction Motor - Squirrel Cage

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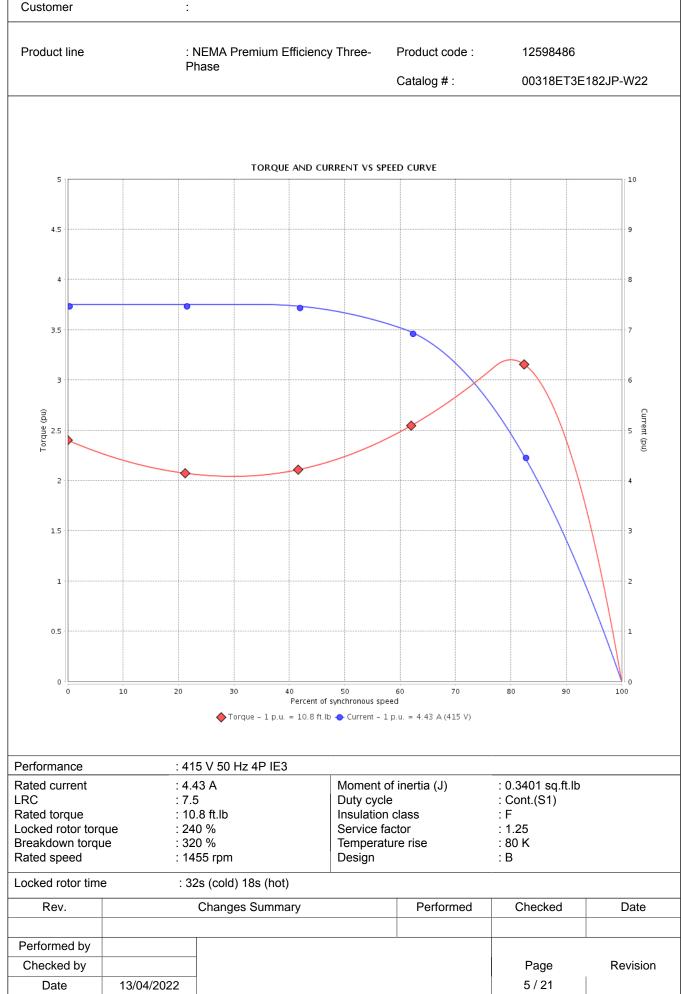




TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





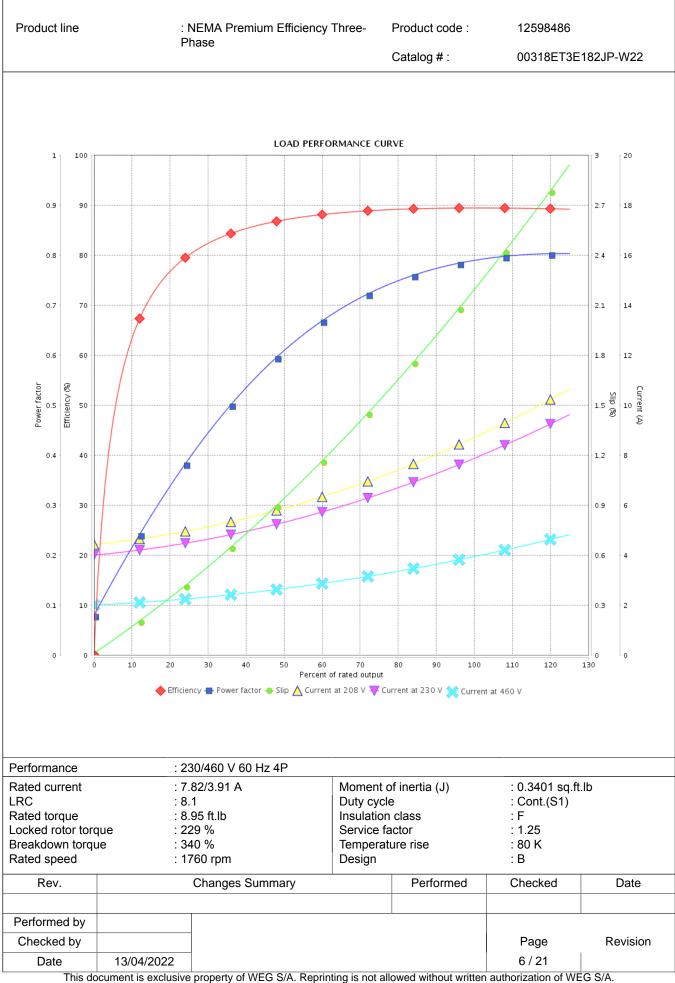
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Three Phase Induction Motor - Squirrel Cage

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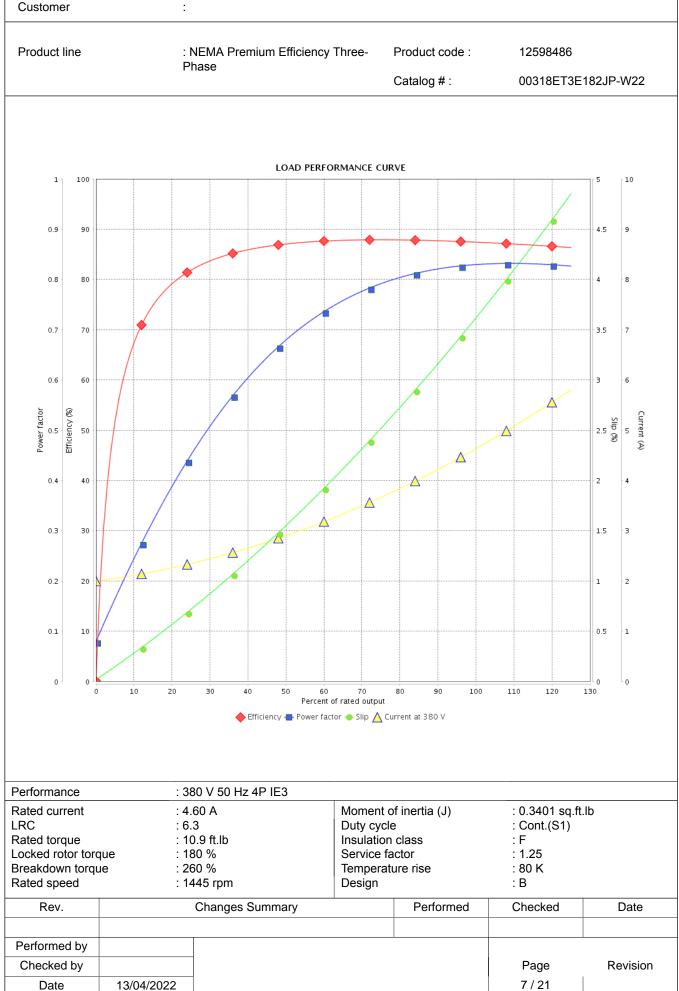


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



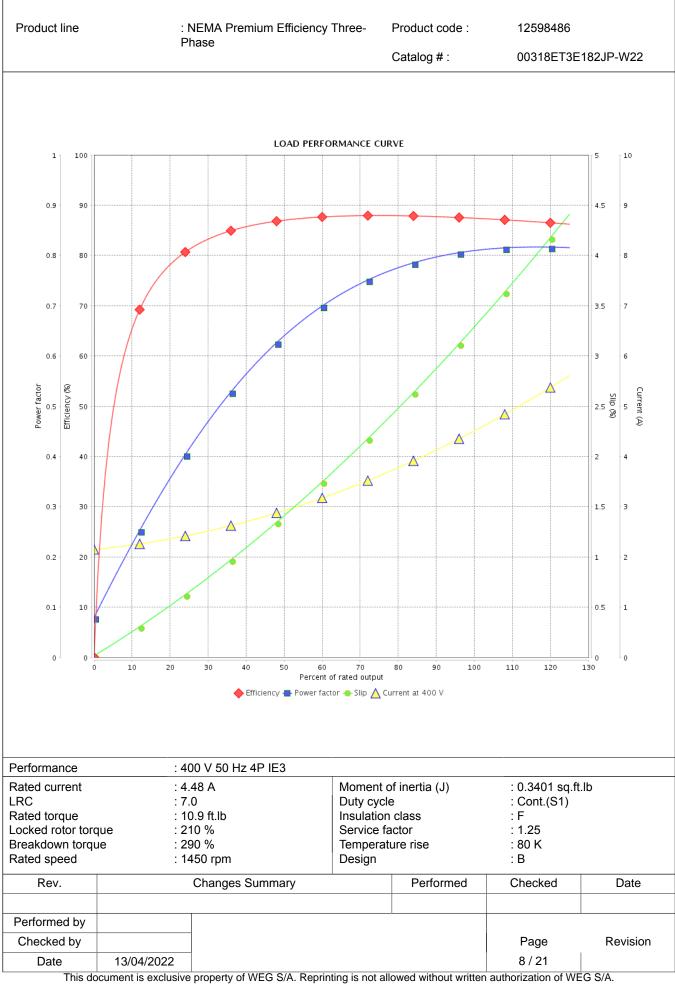
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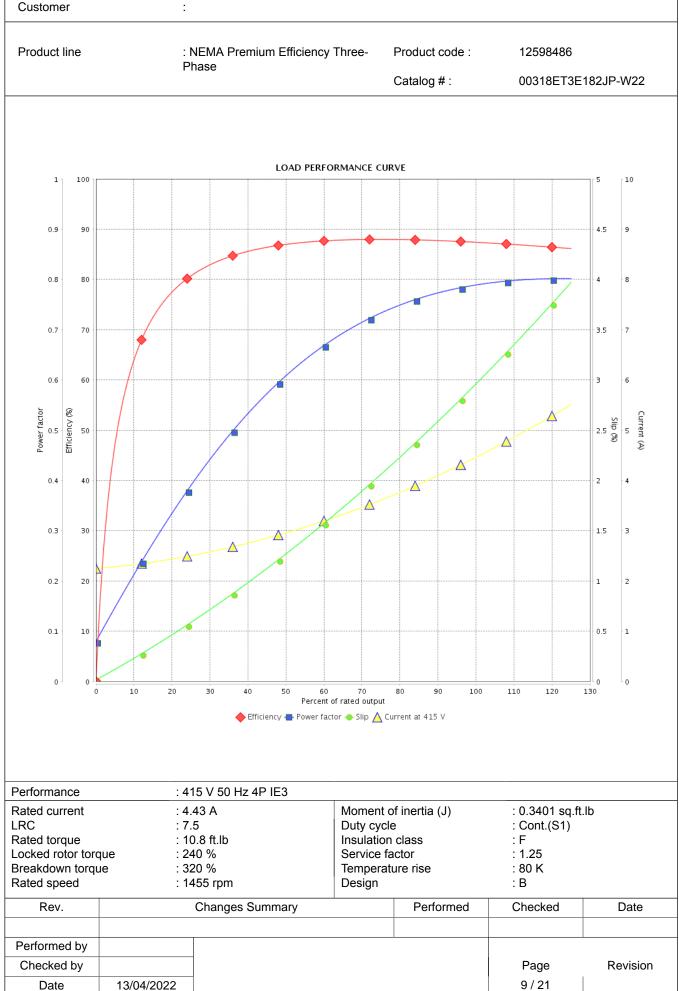


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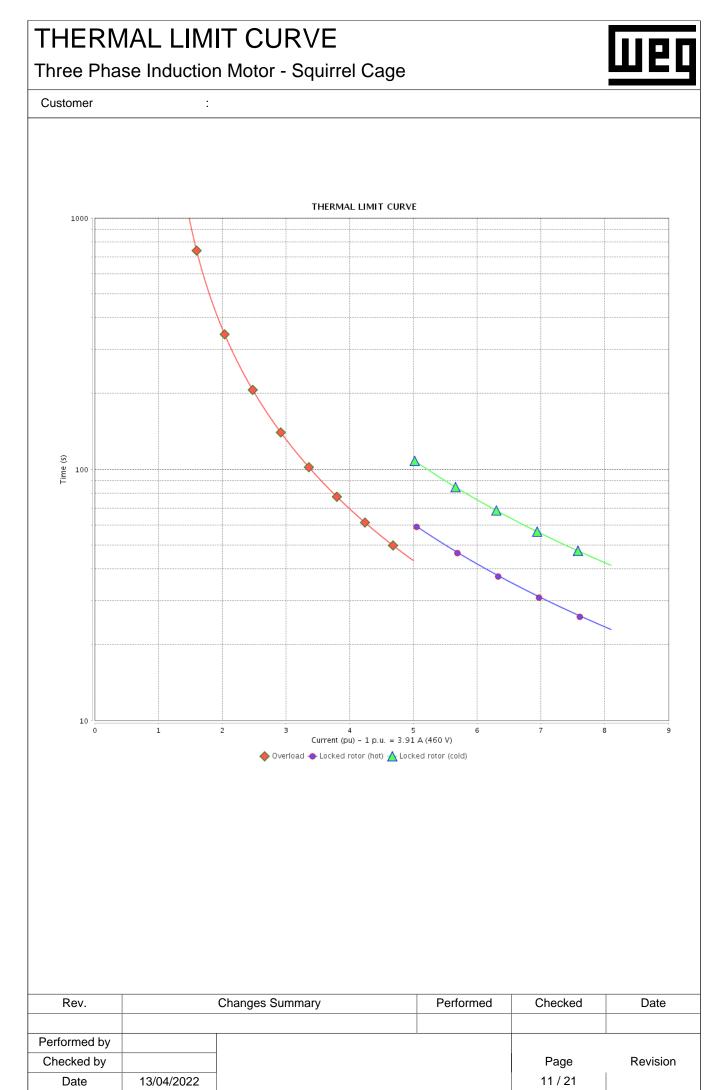
Three Phase Induction Motor - Squirrel Cage

Customer



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THERMAL LIMIT CURVE						
Three Pha	se Induction	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		: NEMA Premium Efficiency T Phase		Product code :	12598486	
				Catalog # :	00318ET3E	182JP-W22
Performance Rated current		30/460 V 60 Hz 4P 82/3.91 A	Momonto	fiportia (1)	: 0.3401 cg ft	lb
LRC	: 8.	.1	Moment of inertia (J) Duty cycle Insulation class		: 0.3401 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor toro	jue : 22	95 ft.lb 29 %	Service fa	ctor	: F : 1.25	
Breakdown torqu Rated speed		40 % 760 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant		-	-			
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Date	13/04/2022				10 / 21	

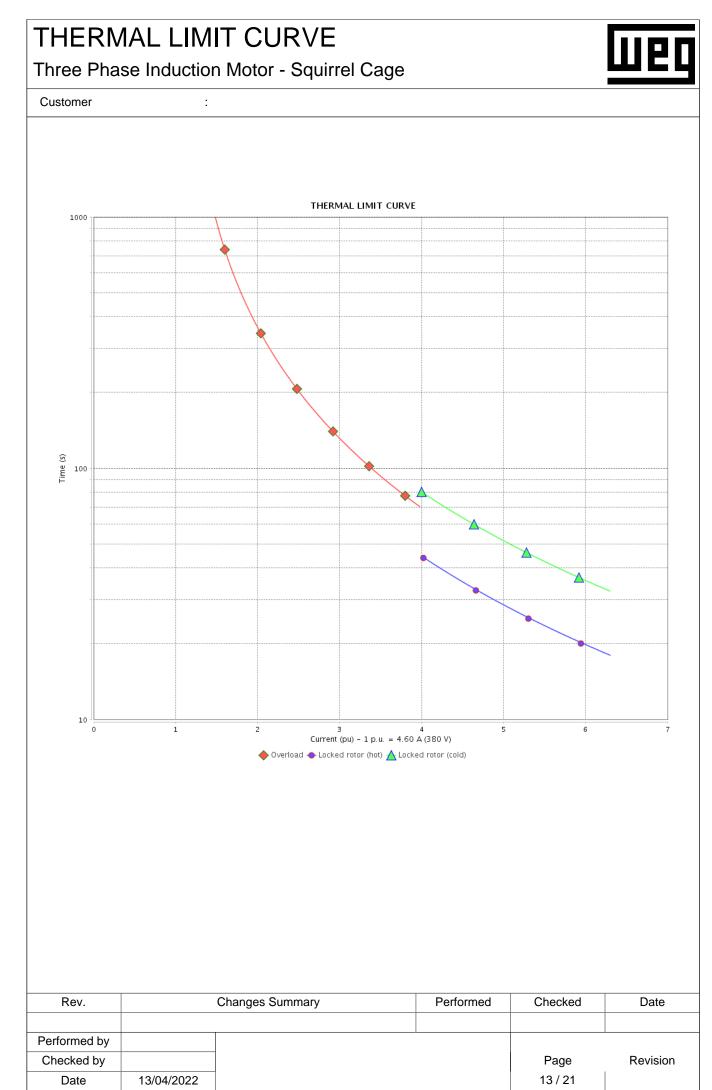


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсч
Customer	:					
Product line	:	: NEMA Premium Efficiency	Three-	Product code :	12598486	
		hase		Catalog # :	00318ET3E	182.IP-W22
Performance	: 3	80 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque		4.60 A 6.3 0.9 ft.lb 80 % 260 % 445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3401 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Cooling constant				· ·		
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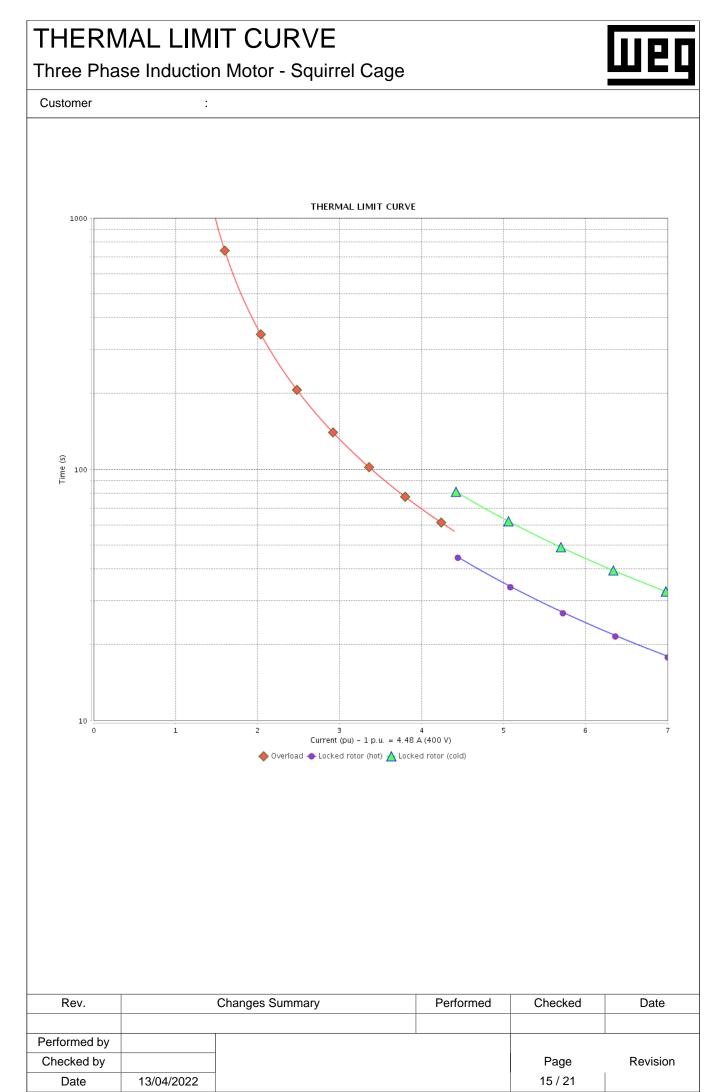


THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		: NEMA Premium Efficiency T Phase	Three- Product code :		12598486	
				Catalog # :	00318ET3E	182JP-W22
Performance		00 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque		.48 A .0 0.9 ft.lb 10 % 90 % 450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3401 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant Cooling constant						
Rev.	·	Changes Summary		Performed	Checked	Date
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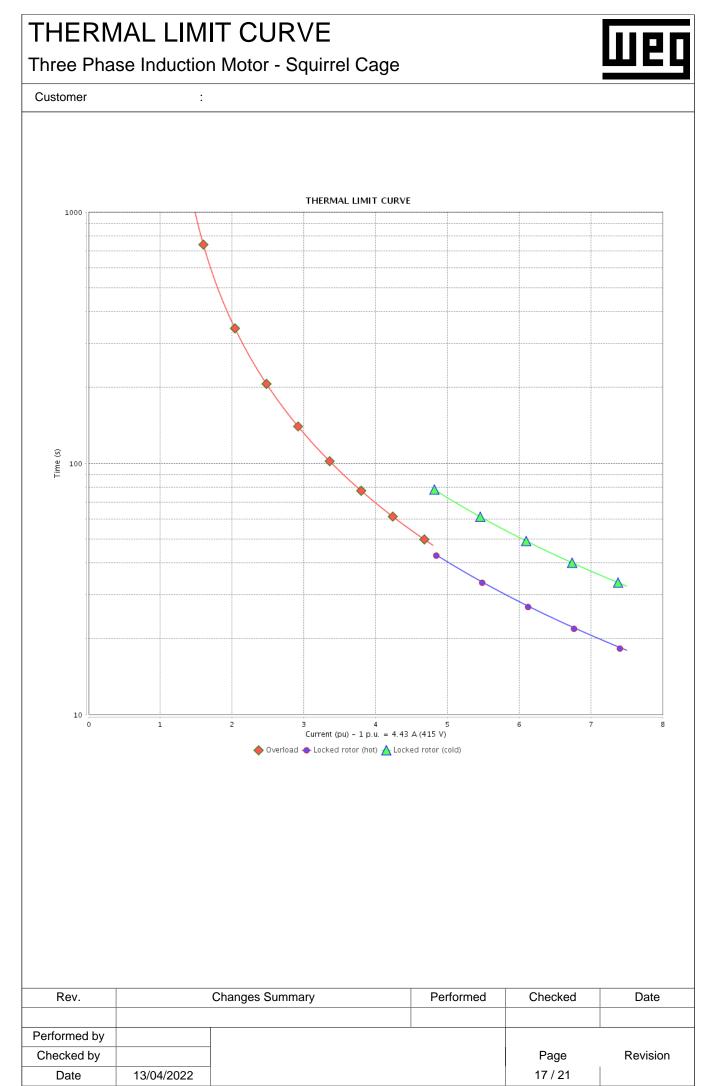


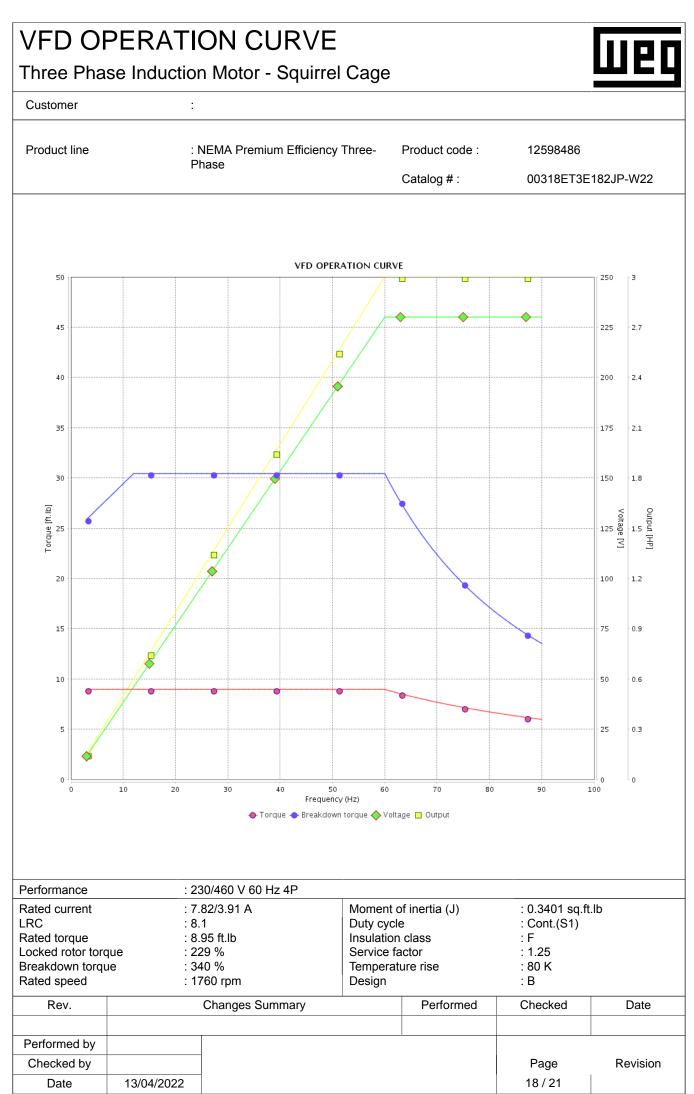
THERMAL LIMIT CURVE						
Three Pha	se Inductio	on Motor - Squirrel	Cage			шсц
Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase	Three- Product code :		12598486	
				Catalog # :	00318ET3E	182JP-W22
Performance		415 V 50 Hz 4P IE3	[
LRC Rated torque Locked rotor torque Breakdown torque		4.43 A 7.5 10.8 ft.lb 240 % 320 % 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3401 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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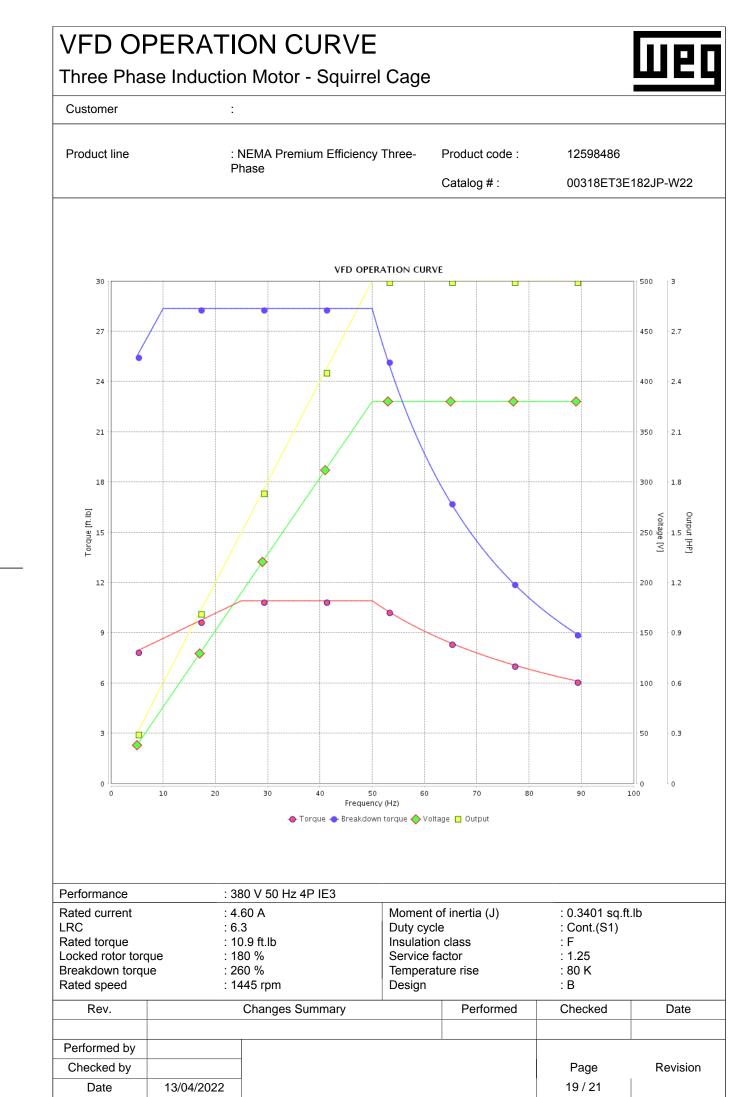
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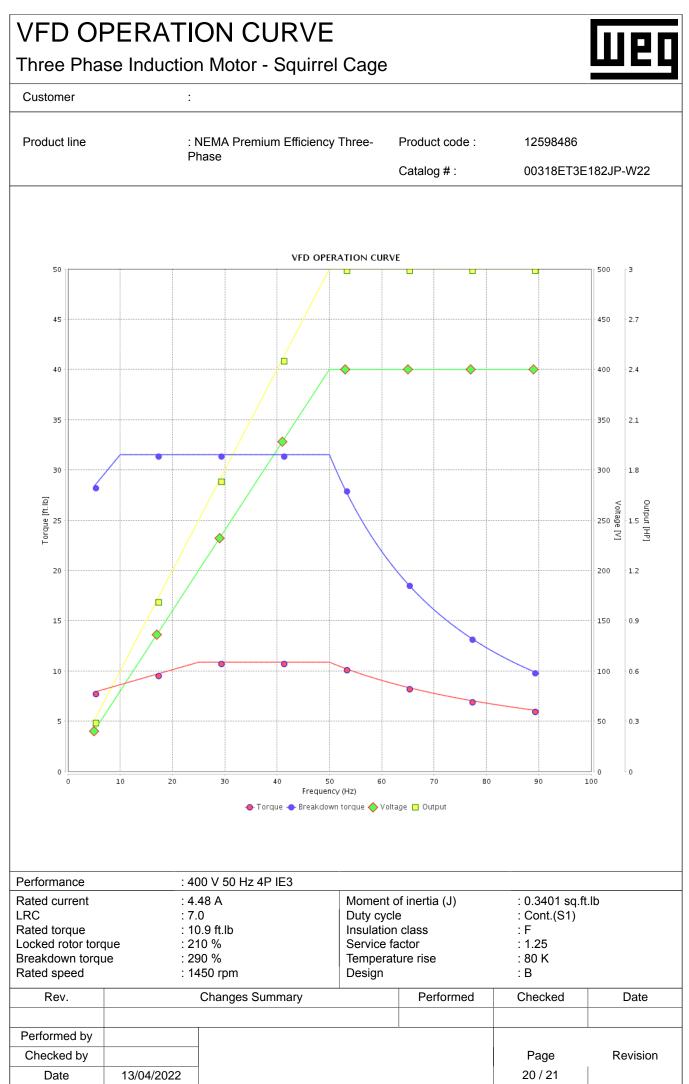
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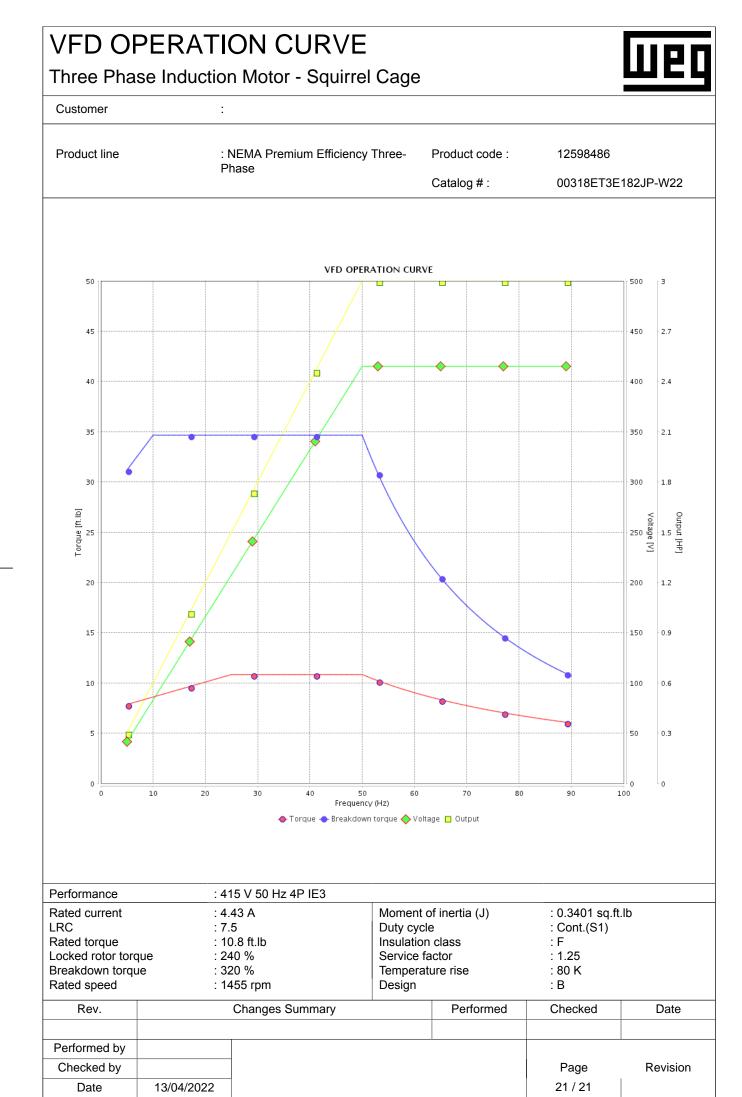
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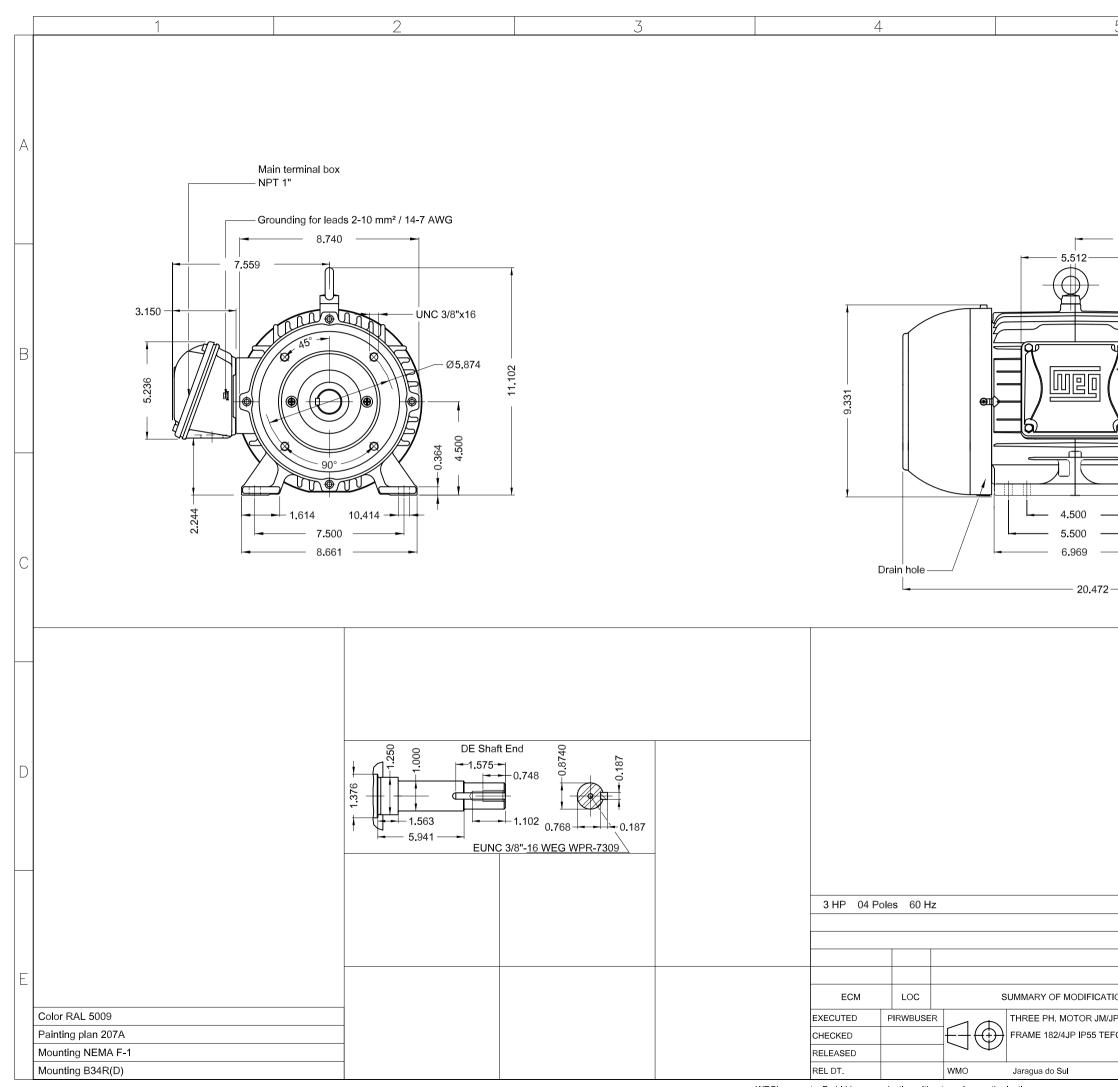












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