DATA SHEET

Three Phase Induction Motor - Squirrel Cage

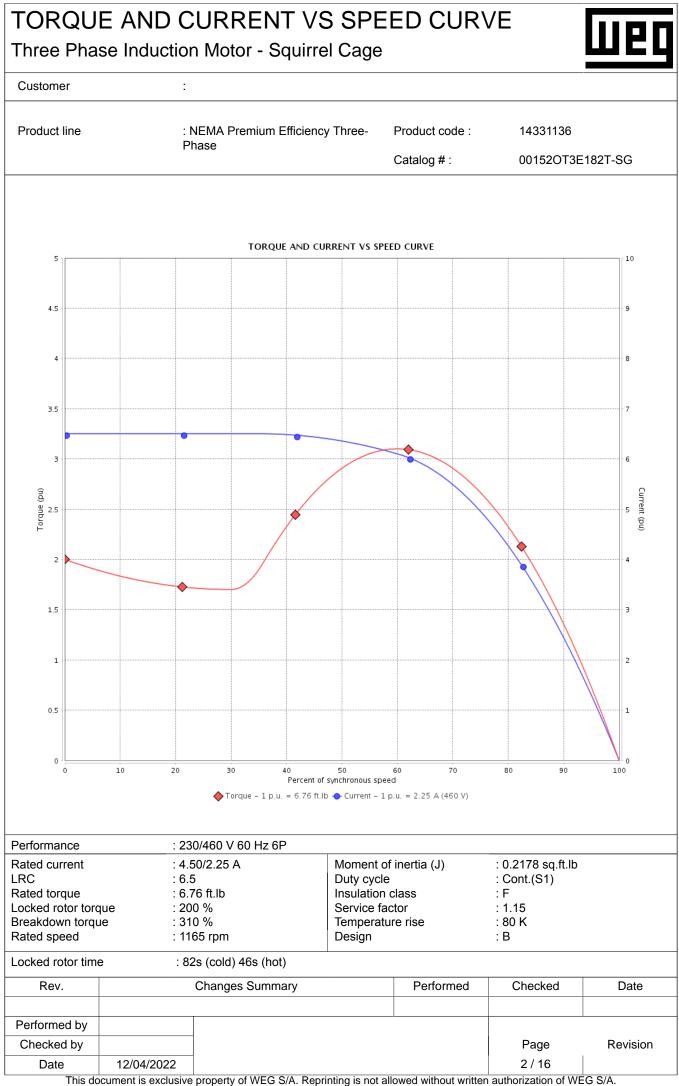
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Customer

Product line		: NEMA Premium Efficiency Phase	Three- Product code :	14331136	
		T Hase	Catalog # :	00152OT3E182T-SG	
Insulation class: FDuty cycle: ConAmbient temperature: -20°Altitude: 100		: 182/4T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : B	Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 57.4 lb : 0.2178 sq.ft.lb	
Design				·	
Dutput [HP] Poles		1.5	1.5	1.5	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		4.50/2.25	5.24/2.62	4.79/2.54	
. R. Amperes [A]		29.3/14.6	27.2/13.6	27.3/14.5	
RC [A]		6.5x(Code J)	5.2x(Code G)	5.7x(Code H)	
lo load current [A	1	2.74/1.37	2.69/1.35	2.80/1.49	
Rated speed [RPN		1165	950	955	
Slip [%]	-	2.92	5.00	4.50	
Rated torque [ft.lb]]	6.76	8.29	8.25	
ocked rotor torqu		200	160	190	
Breakdown torque		310	220	260	
Service factor		1.15	1.15	1.15	
emperature rise		80 K	80 K	80 K	
ocked rotor time		82s (cold) 46s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)	
loise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)	
	25%	82.8	84.0	82.3	
	50%	84.0	83.3	82.3	
Efficiency (%)	75%	85.5	84.1	84.0	
	100%	86.5	82.8	83.5	
	25%	0.29	0.35	0.31	
Deurse Deutse	50%	0.51	0.59	0.54	
Power Factor	75%	0.63	0.71	0.67	
	100%	0.71	0.71 0.77		
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end Non drive en 6206 ZZ 6205 ZZ Without Without Bearing Seal Bearing Se Mobil Polyrex EM	Max. traction Max. compression	: 108 lb : 165 lb	
Notes USABLE @208V	′ 4.98A SF 1.(00 SFA 4.98A			
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with to weight subject ocess.	cel the previous one, which shaft end. olerance of +3dB(A). t to changes after		s based on tests with sinusoidal ne tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A).	power supply, subject to the		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipulated in NEMA	

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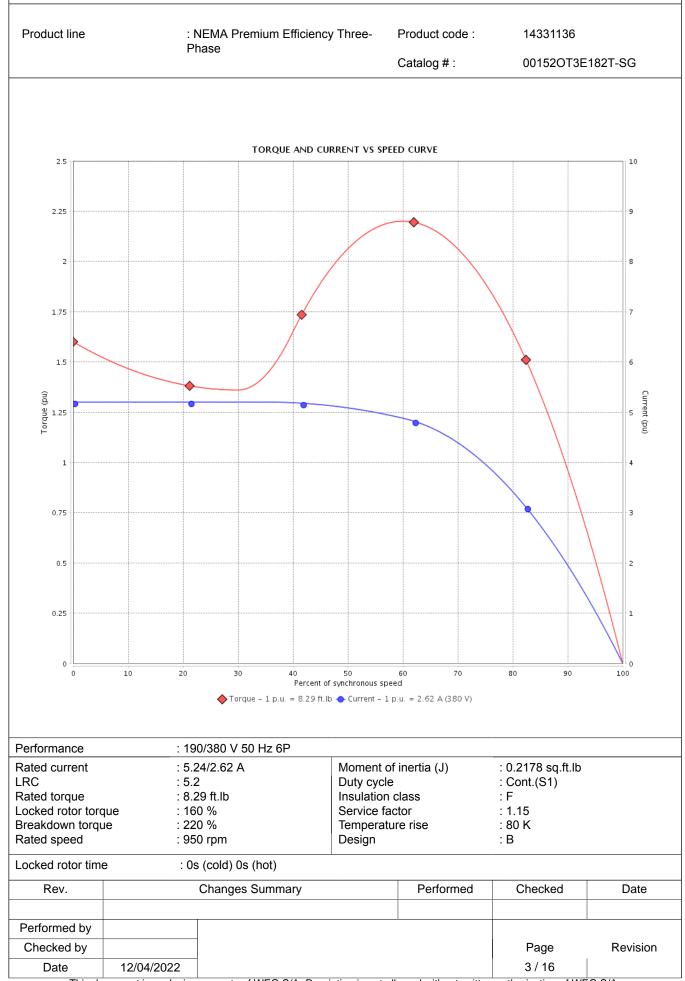
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

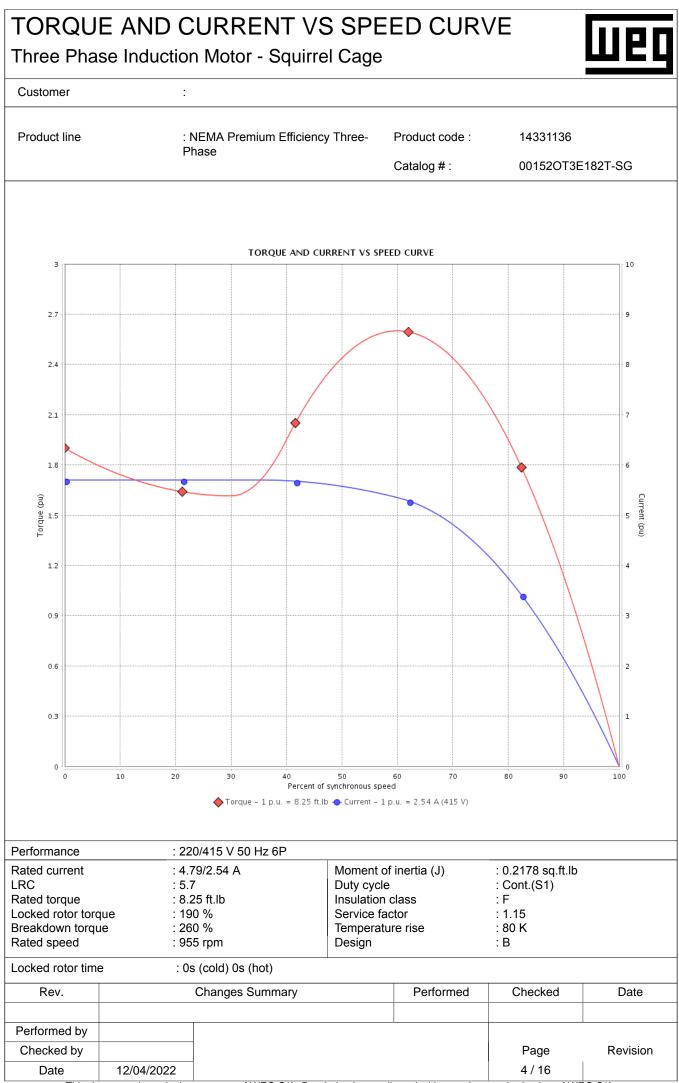
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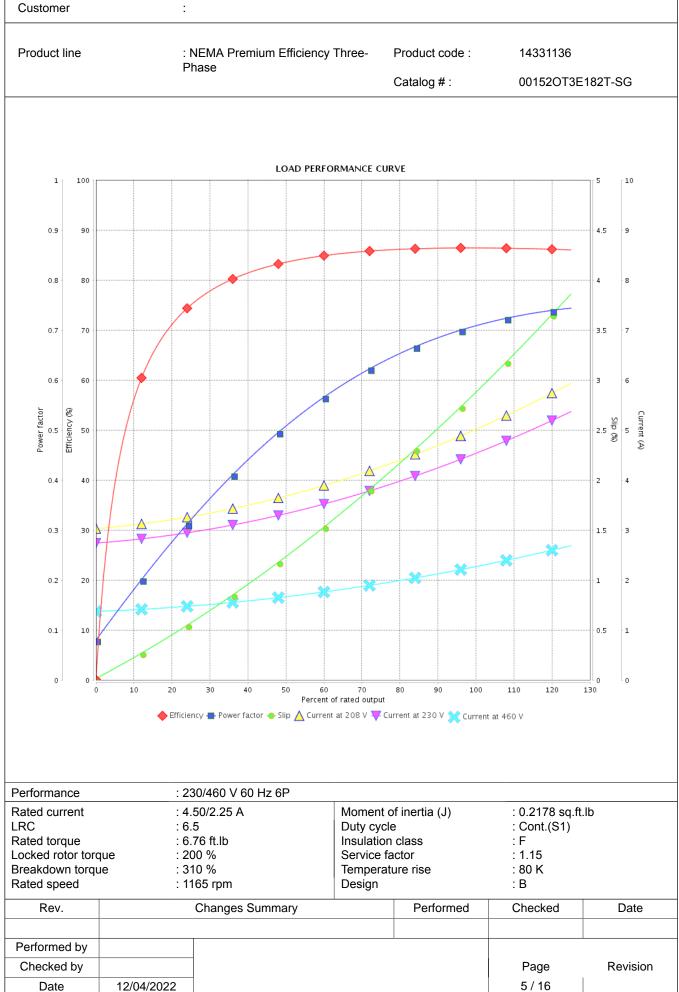
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LOAD PERFORMANCE CURVE

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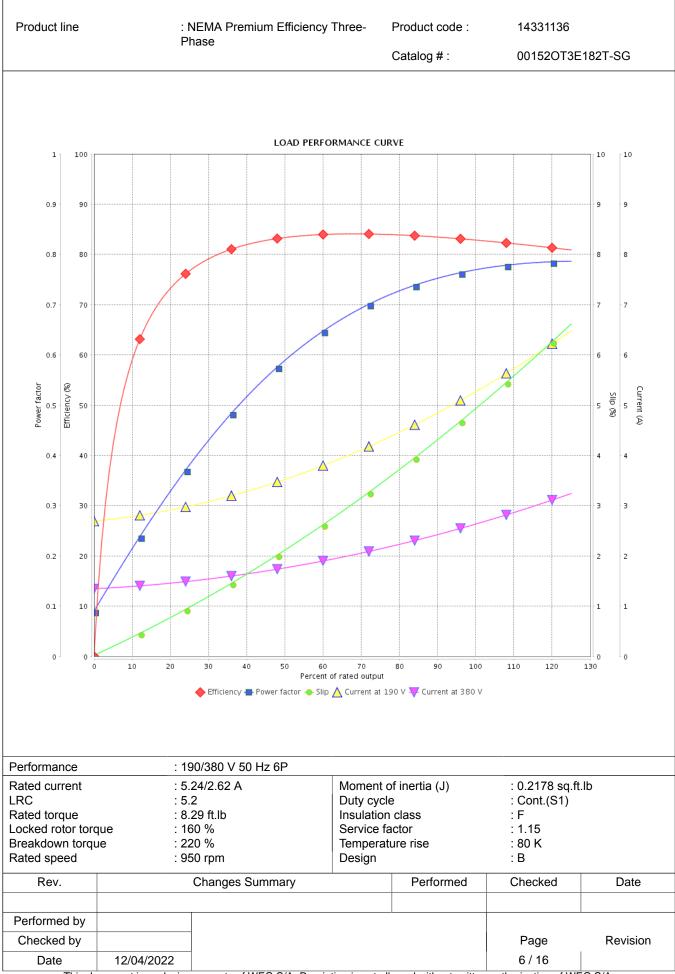
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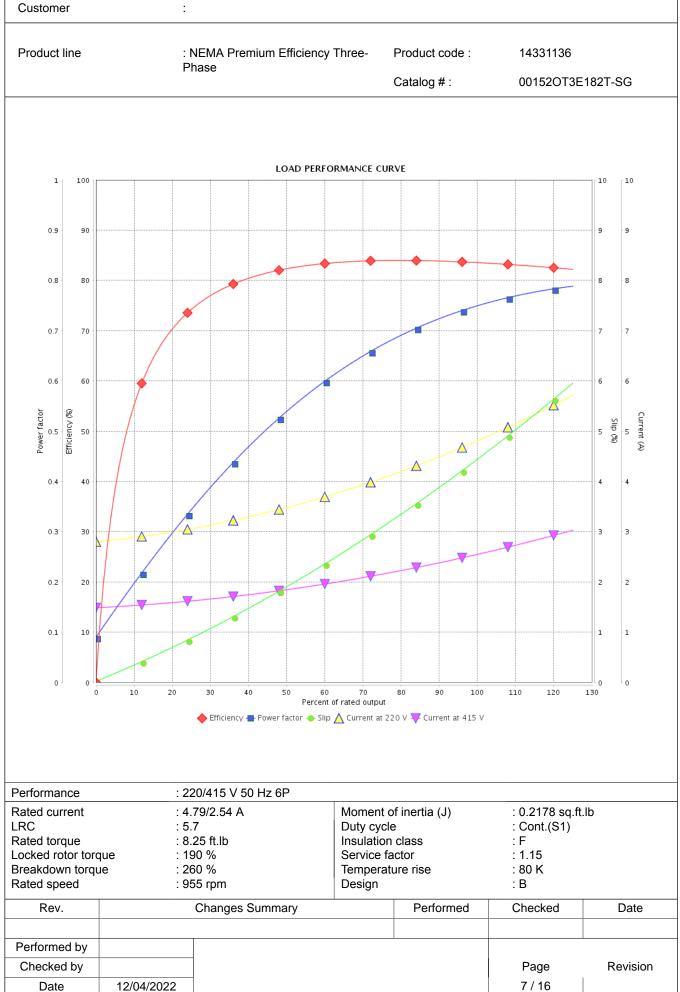
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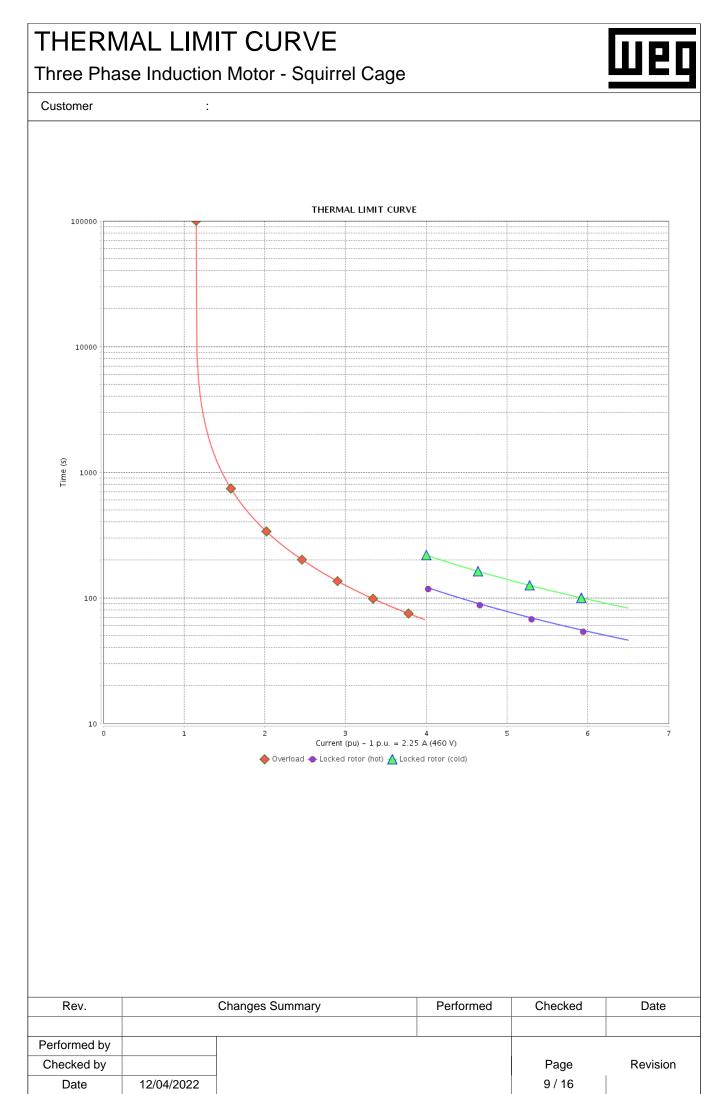
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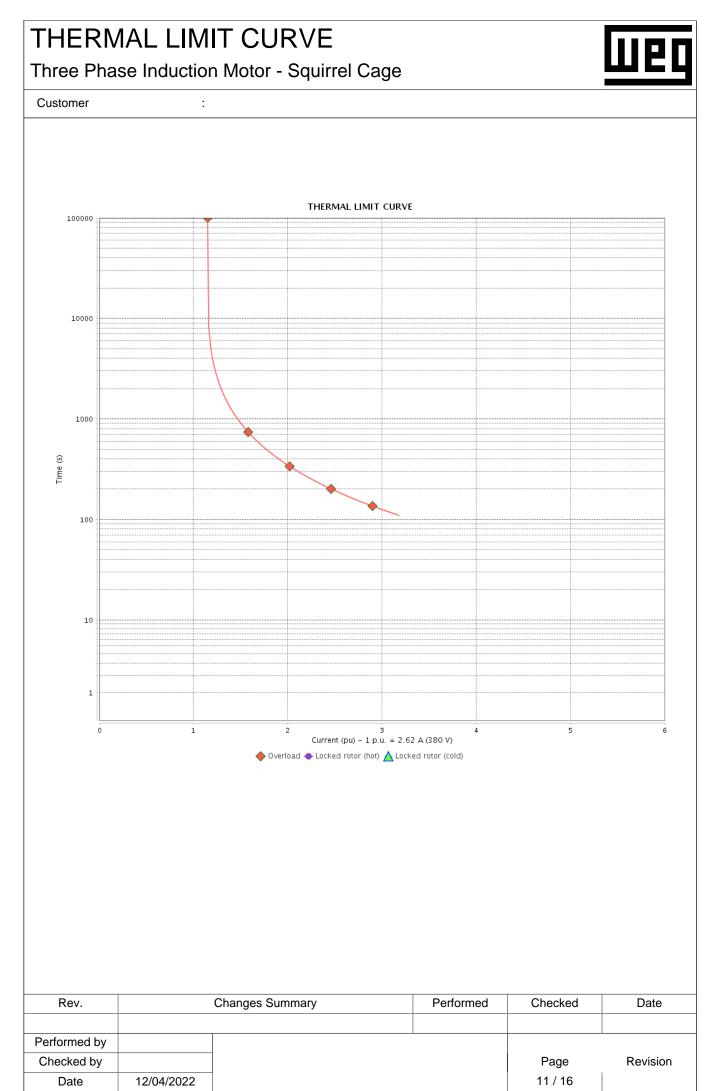
THERMAL LIMIT CURVE						
Three Phase Induc	tion Motor - Squirrel Cage		шсч			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14331136			
	T Hase	Catalog # :	00152OT3E182T-SG			

Performance	:2	230/460 V 60 Hz 6P				
		6.76 ft.lb 200 % 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2178 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Cooling constant						
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				8 / 16	
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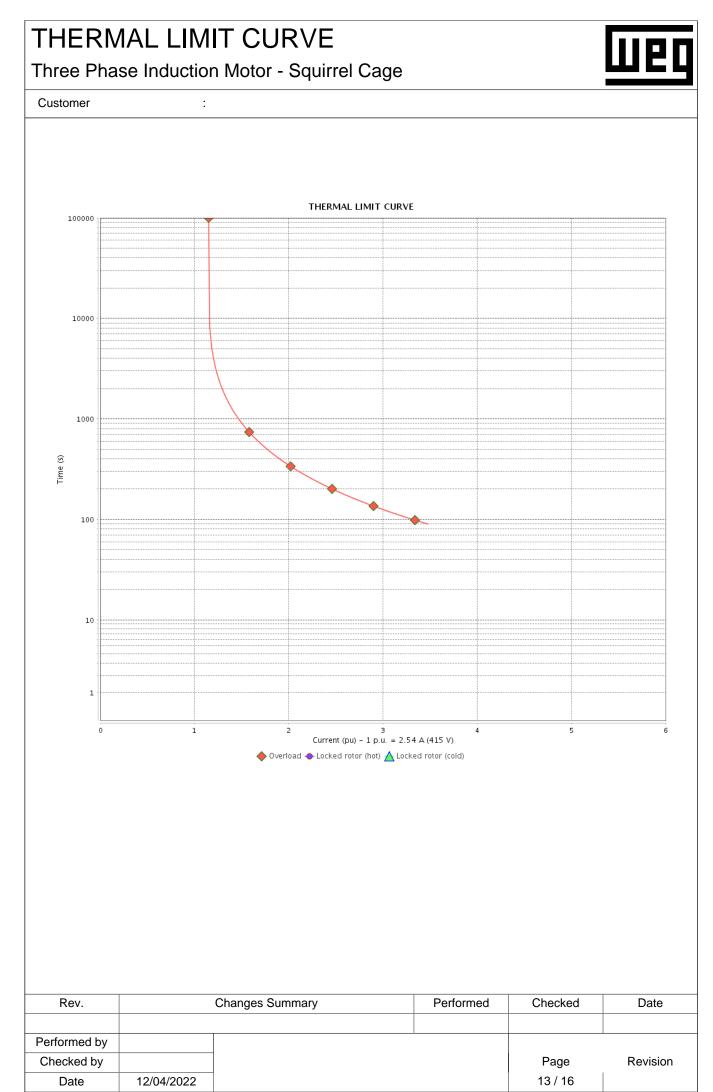
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14331136			
	1 11030	Catalog # :	00152OT3E182T-SG			

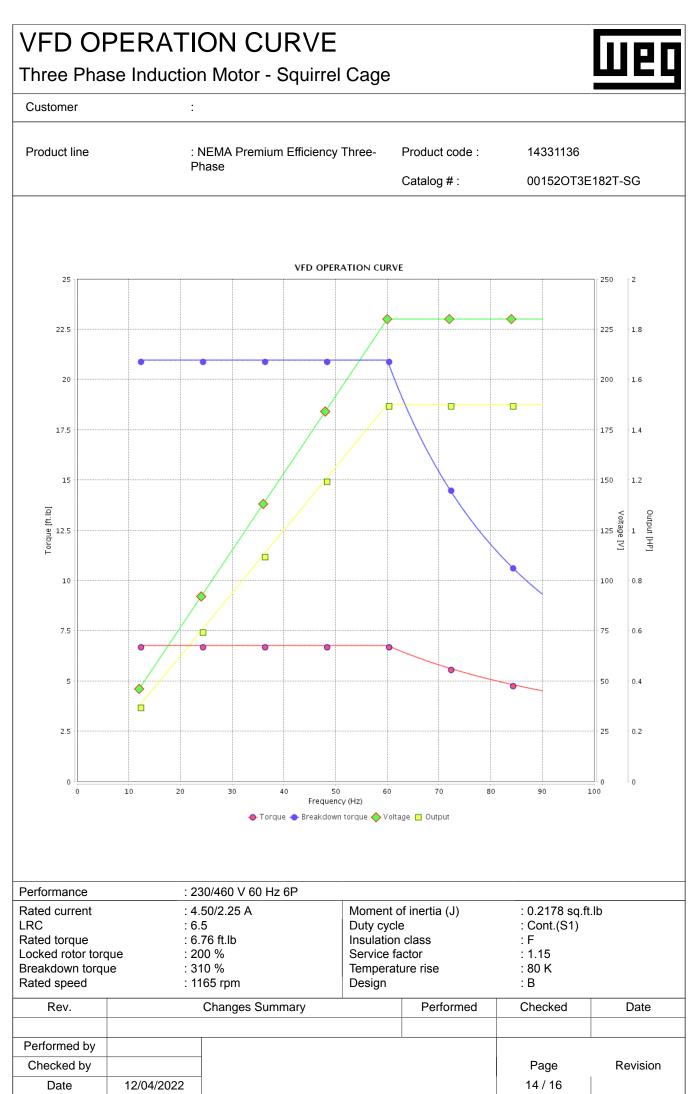
Performance	:	190/380 V 50 Hz 6P				
Rated current: 5.24/2.62 ALRC: 5.2Rated torque: 8.29 ft.lbLocked rotor torque: 160 %Breakdown torque: 220 %Rated speed: 950 rpm		Duty cycle Insulation class Service factor Temperature rise		: 0.2178 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant	ting constant					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	12/04/2022				10 / 16	
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THERMAL LIMIT CURVE							
Three Phase Indu	ction Motor - Squirrel Cage)	шеч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14331136				
		Catalog # :	00152OT3E182T-SG				

Performance		: 220/415 V 50 Hz 6P				
LRC: 5.7DutRated torque: 8.25 ft.lbInstLocked rotor torque: 190 %SerBreakdown torque: 260 %Ten		Duty cycle: CInsulation class: FService factor: 1Temperature rise: 8		: 0.2178 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	: F : 1.15 : 80 K	
Heating constant						
Cooling constant						
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022	2			12/16	
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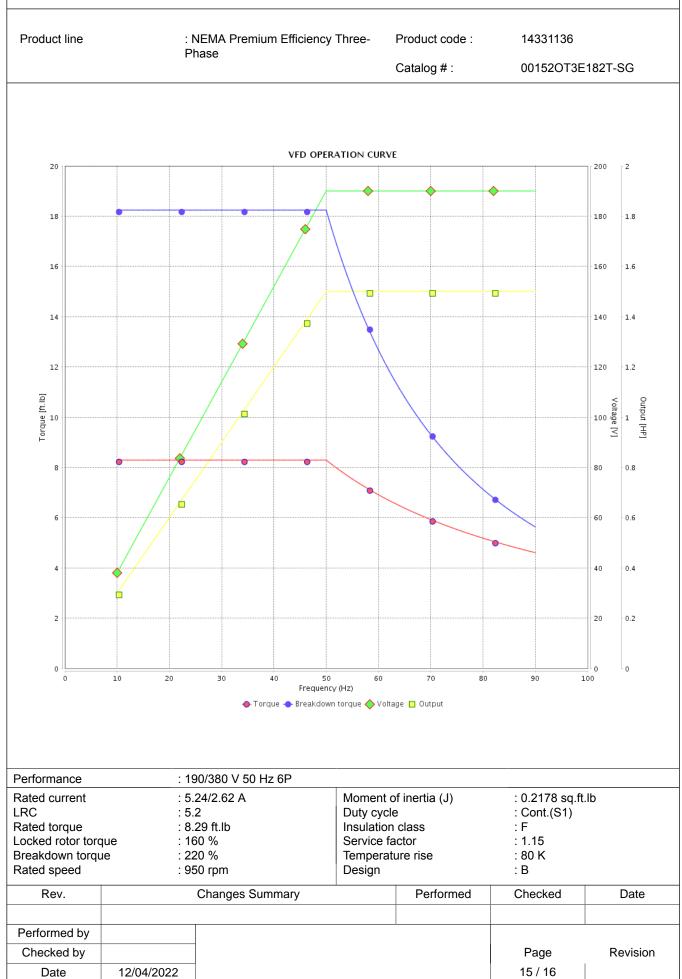
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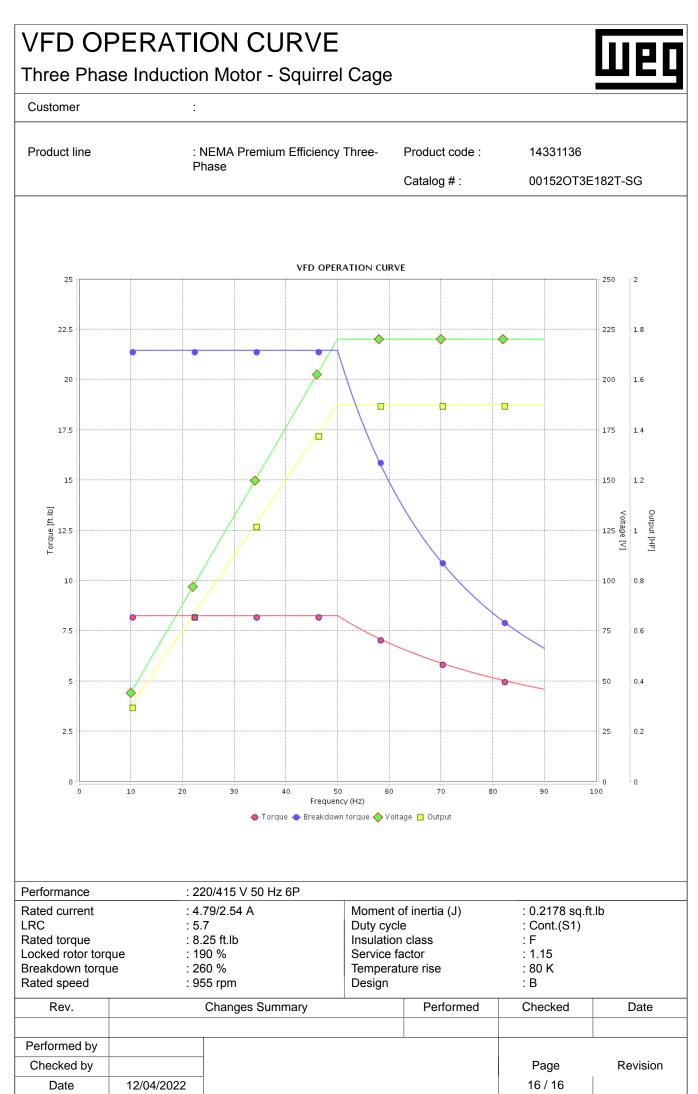
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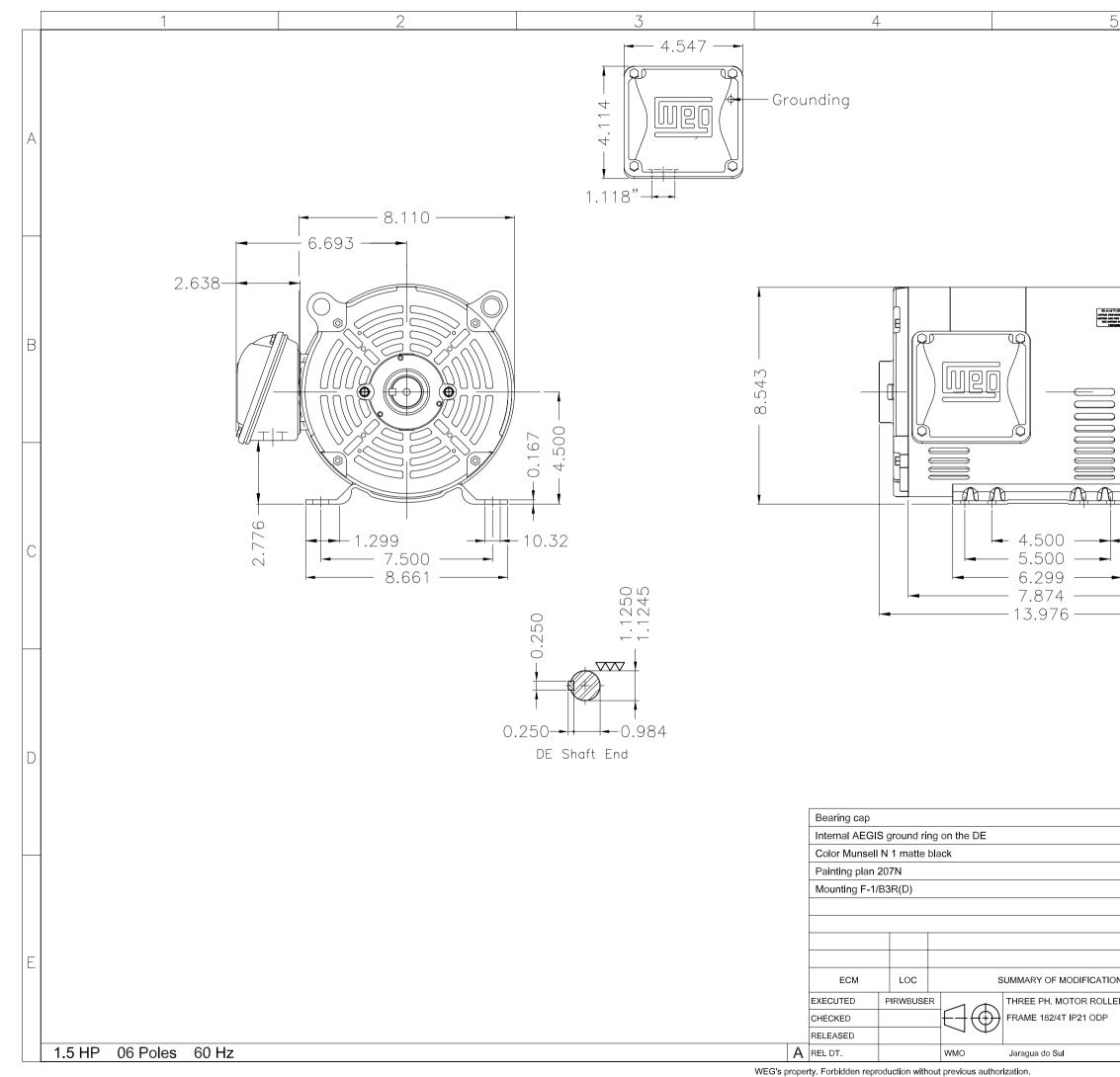
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5			6		
		- 2.750			Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
LED STEEL PREM. E	FF.	PREVI	EW		
9		WDD		ШР	A3
Produc	t Engineering	SHEET	1 / 1		XME