# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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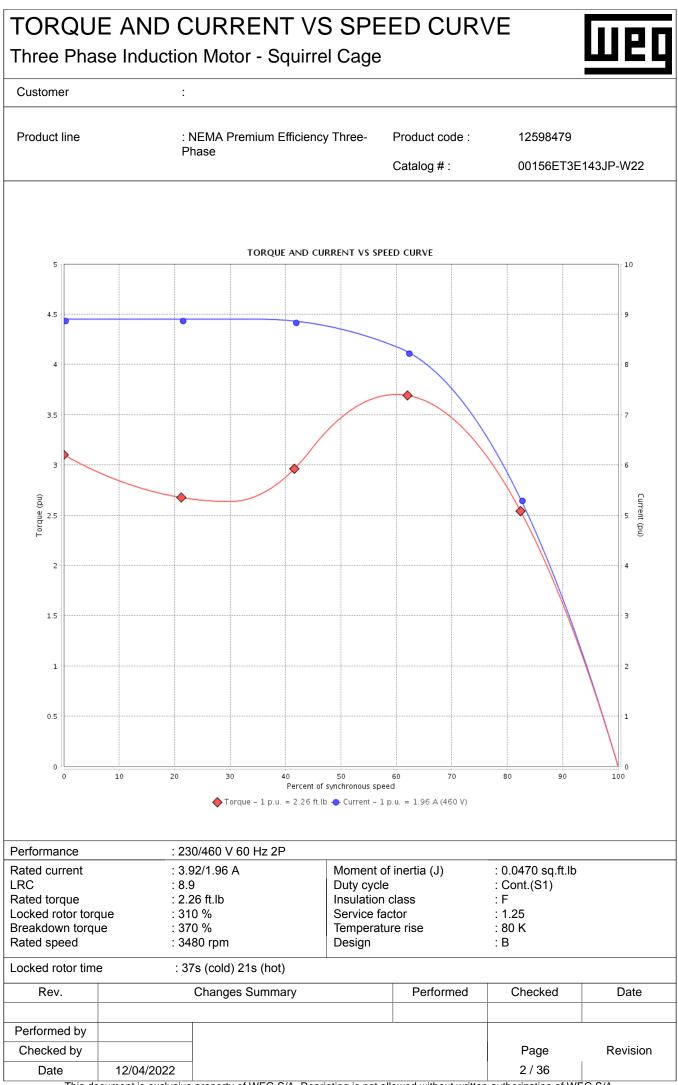


Product line			mium Efficien	icy Three-	Product code : 12598479			
		Phase			Catalog # :	00	156ET3E143	JP-W22
Frame		: 143/5JP		Coolir	ig method	: 10	C411 - TEFC	
Insulation class		: F		Mount		: F	-1	
Duty cycle		: Cont.(S1)		Rotati			Both (CW and	,
Ambient tempera	ature	: -20°C to +			ng method		Direct On Line	1
Altitude		: 1000 m.a.s	s.l.		x. weight <sup>3</sup>		8.8 lb	
Protection degre	е	: IP55		Mome	nt of inertia (J)	: C	0.0470 sq.ft.lb	
Design		: B						
Dutput [HP]		1.5	1	1	1	1.5	1.5	1.5
Poles		2	2	2	2	2	2	2
requency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		3.92/1.96	1.69	1.66	1.65	2.36	2.24	2.21
L. R. Amperes [A]		34.9/17.4	15.5	16.1	16.8	15.8	16.6	17.5
_RC [A]		8.9x(Code L)	9.2x(Code	9.7x(Code		b./x(Code H)	7.4x(Code J)	7.9x(Code l
No lood at the	1	1 66/0 000	M)	M)	N)	0.700	0.840	0.000
No load current [A		1.66/0.830	0.780	0.840	0.900 2920	0.780 2835	0.840 2860	0.900
Rated speed [RPN	/I]	3480	2905	2915				2870
Slip [%] Patod torquo [ft lb]	1	3.33 2.26	3.17	2.83	2.67	5.50 2.78	4.67 2.75	4.33 2.74
Rated torque [ft.lb] _ocked rotor torqu		310	1.81 340	1.80 380	1.80 420	2.78	2.75	2.74
Breakdown torque		310	340	440	420	220	260	310
Service factor	: [ 70]	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
_ocked rotor time		37s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		21s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	100 (1101)			100 (1101)		
	25%	81.1	79.9	78.4	77.9	80.6	81.6	81.7
Efficiency (%)	50%	81.5	80.5	79.3	78.9	81.0	82.0	82.0
	75%	84.0	83.2	82.8	82.7	81.5	82.5	82.5
	100%	84.0	83.4	83.4	83.4	81.5	82.5	82.5
	25%	0.43	0.39	0.35	0.33	0.51	0.46	0.43
Power Factor	50%	0.68	0.63	0.58	0.55	0.75	0.70	0.67
Power Factor	75%	0.78	0.74	0.71	0.68	0.84	0.80	0.78
	100%	0.84	0.81	0.78	0.76	0.87	0.86	0.84
		Drive end	Non drive	end Founda	ation loads			
Bearing type		: 6206 ZZ	6204 2	ZZ   Max. tr	action	: 49	9 lb	
Sealing		: V'Ring	V'Rin	g Max.c	ompression	: 98	3 lb	
Lubrication interv	/al	: -	-	-				
Lubricant amoun	ıt	: -	-					
Lubricant type		: Mobi	I Polyrex EM					
Notes USABLE @208V	4.20A SF 1	.15 SFA 4.83A						
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the lm and with weight subje- ocess.	e shaft end. tolerance of +3	dB(A).		are average va supply, subject			
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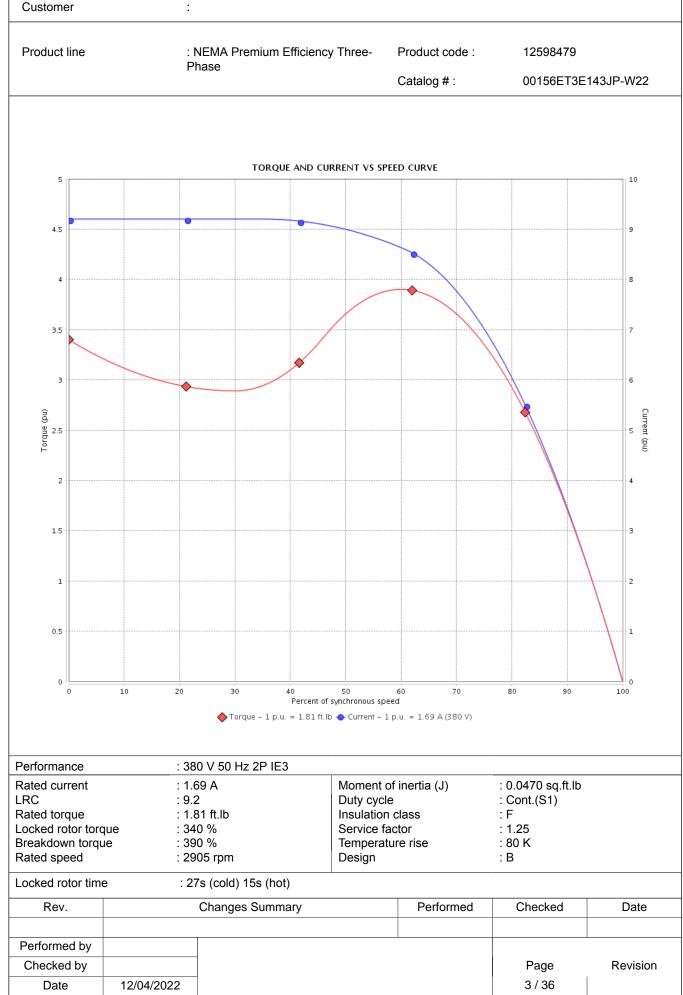
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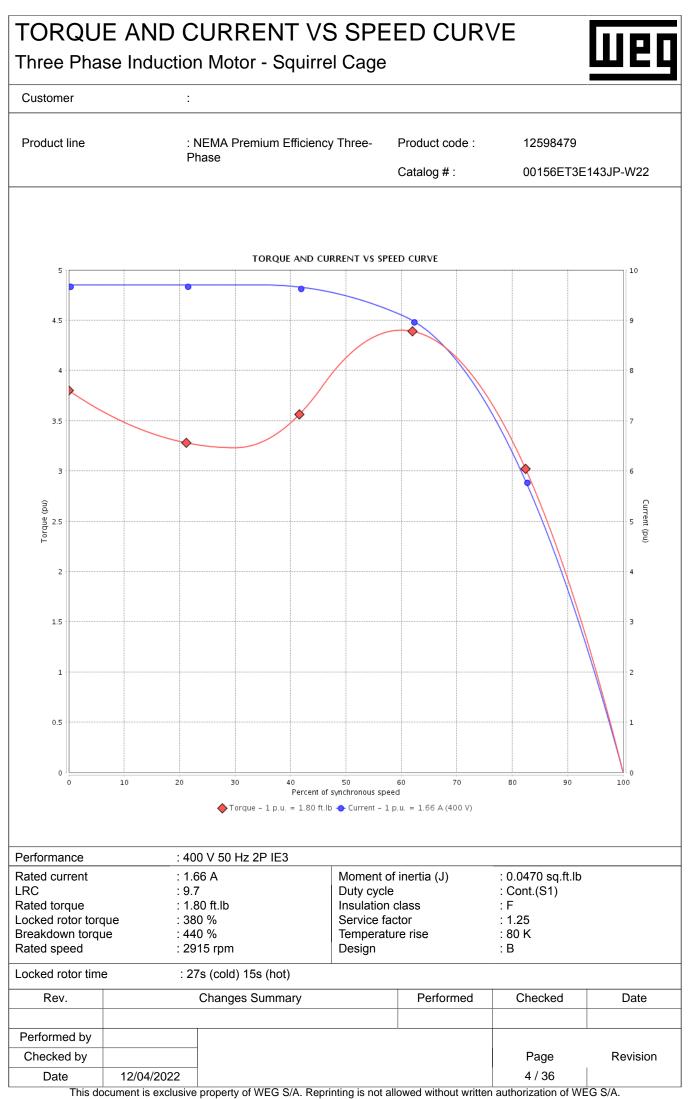
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





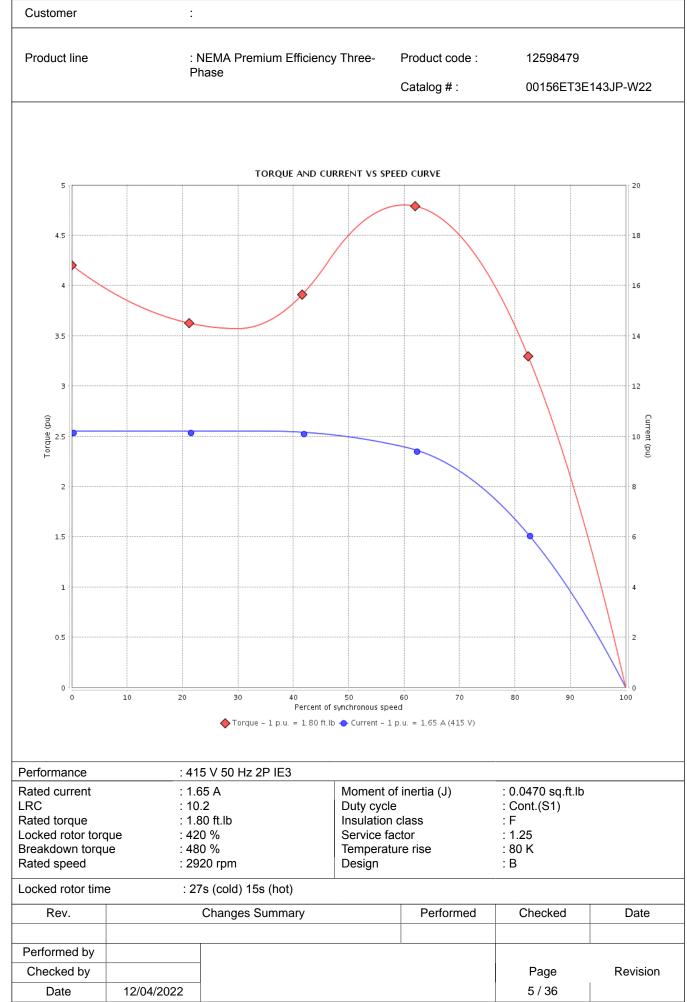
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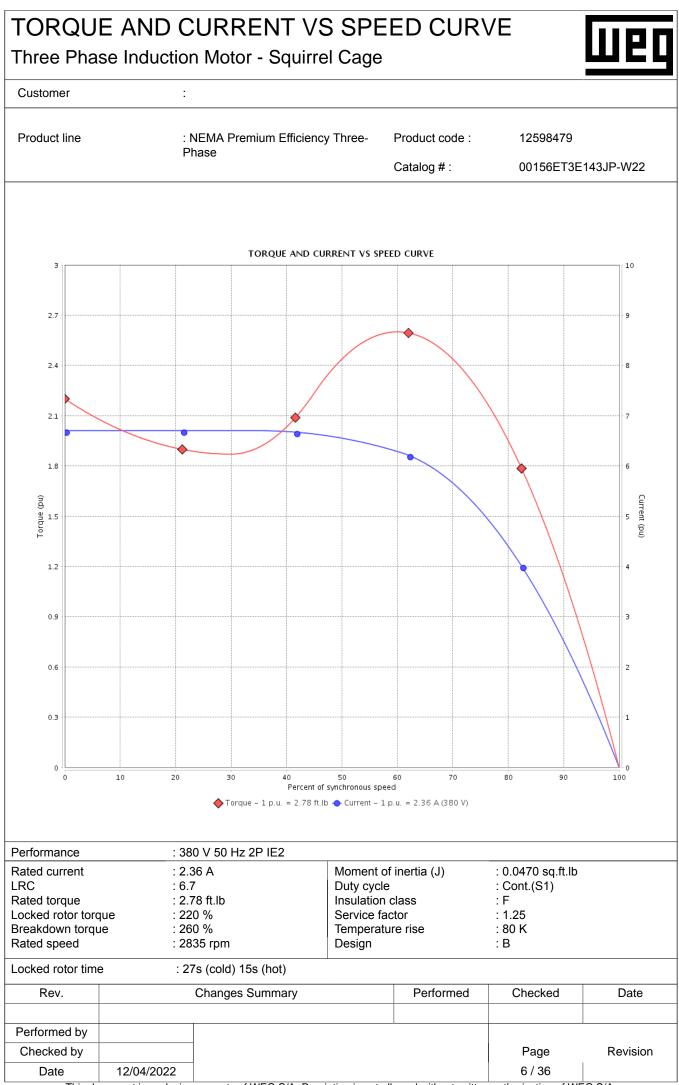
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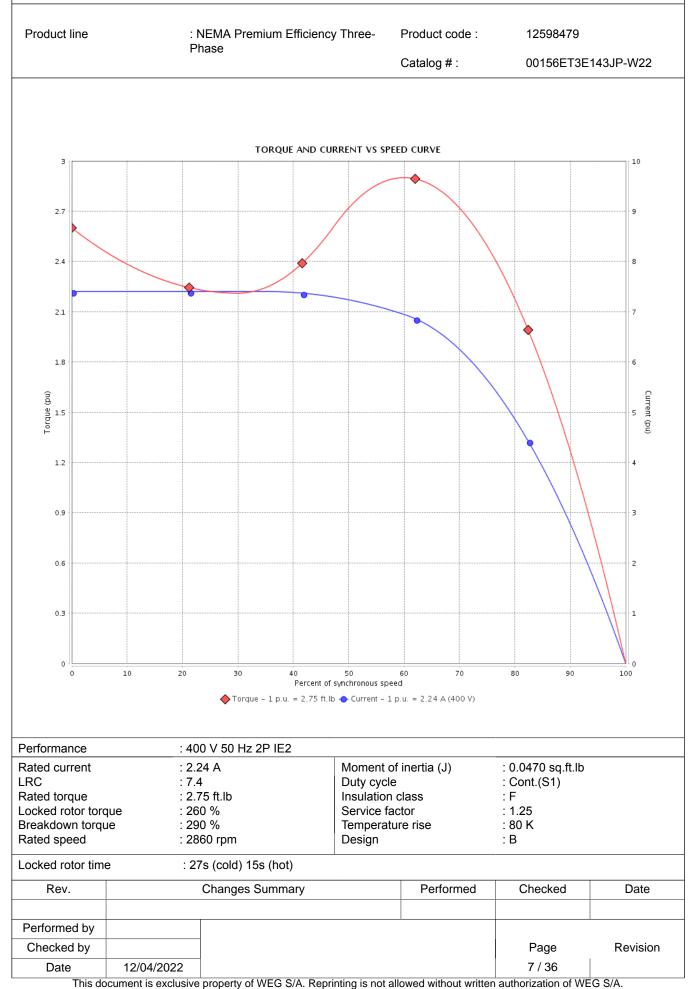
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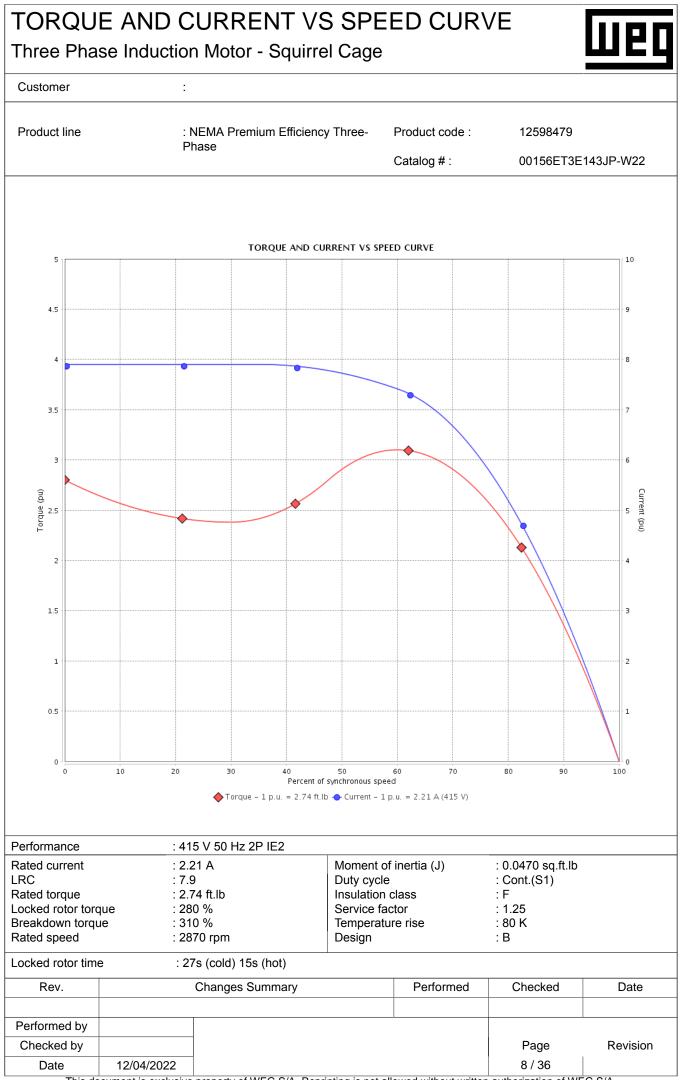
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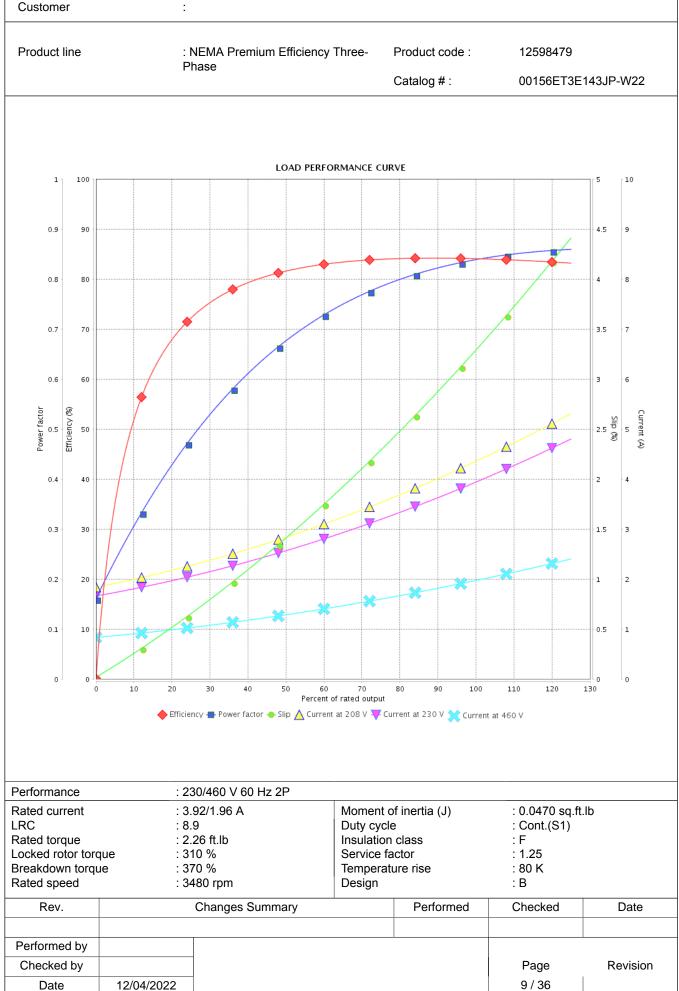
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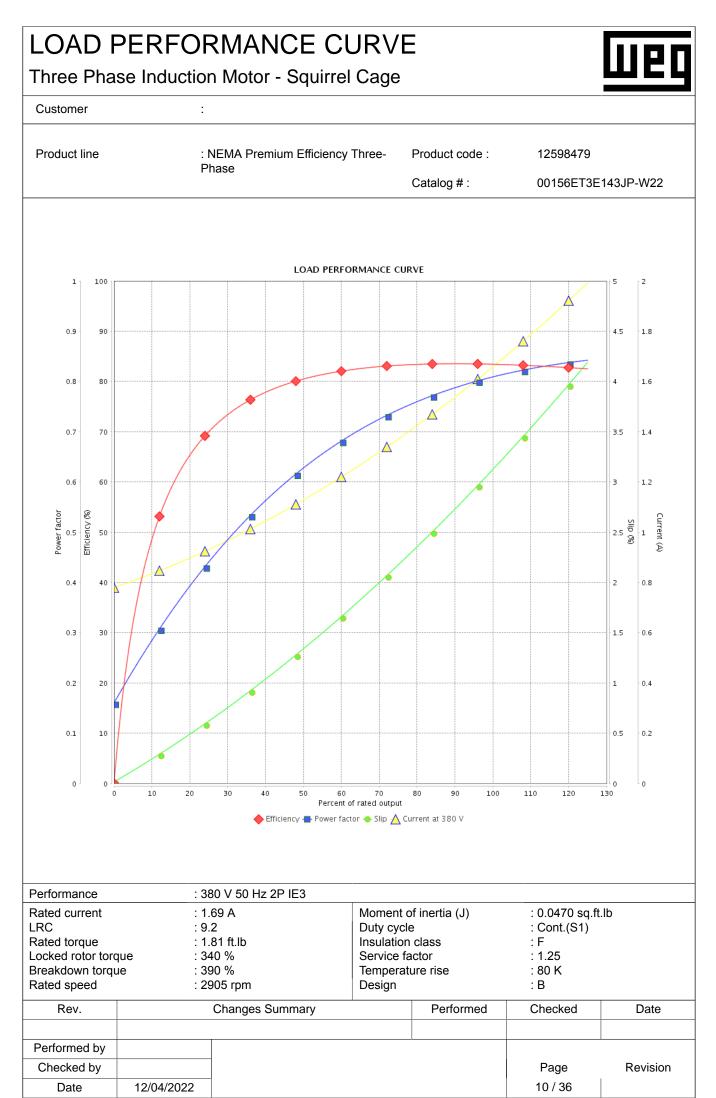


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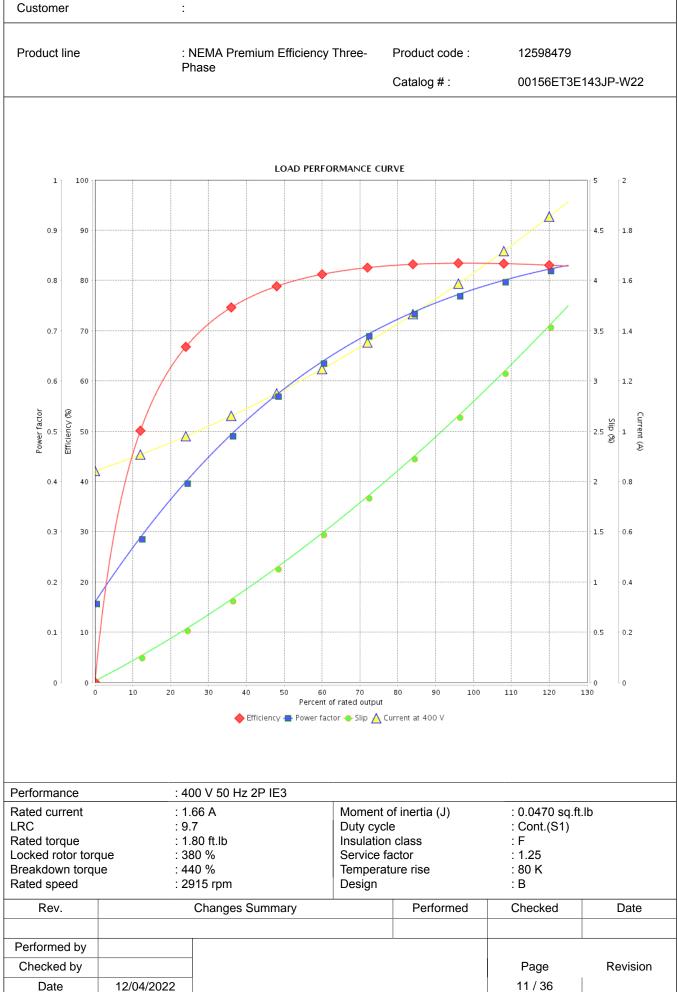


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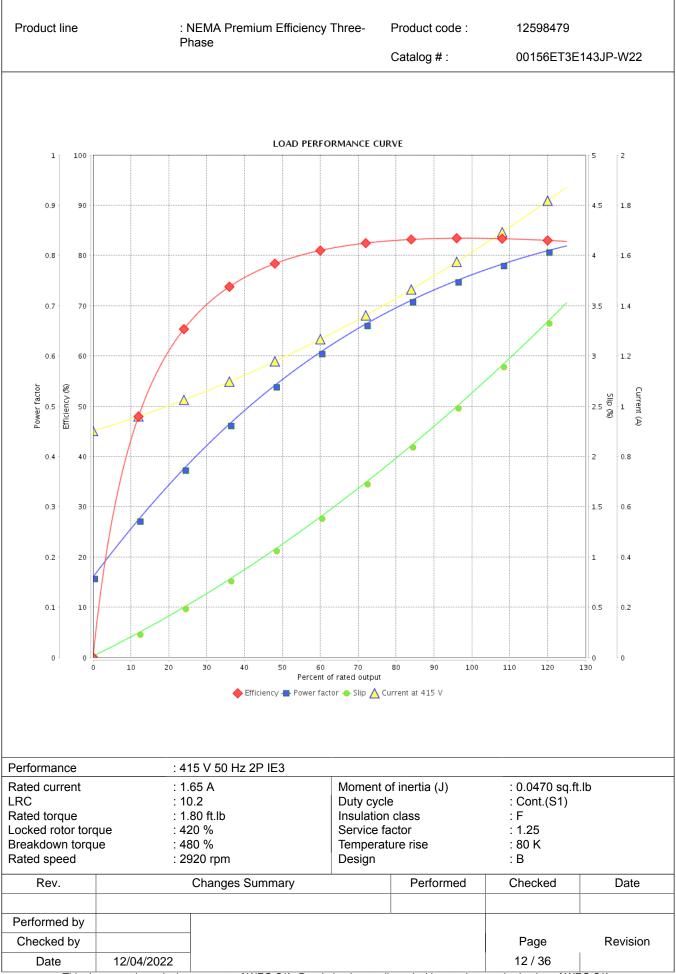
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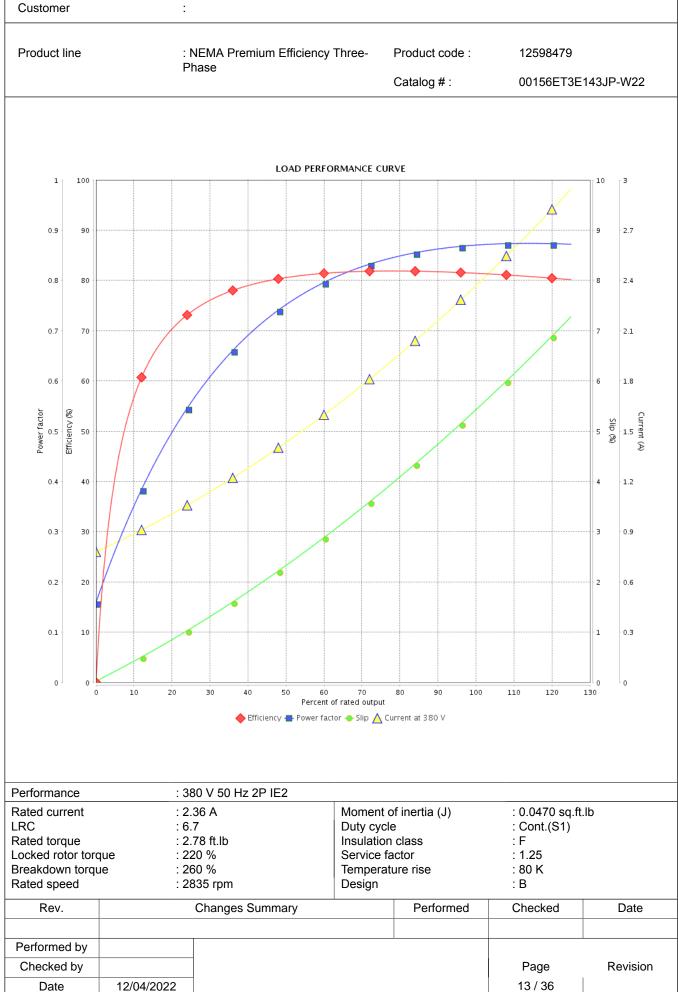


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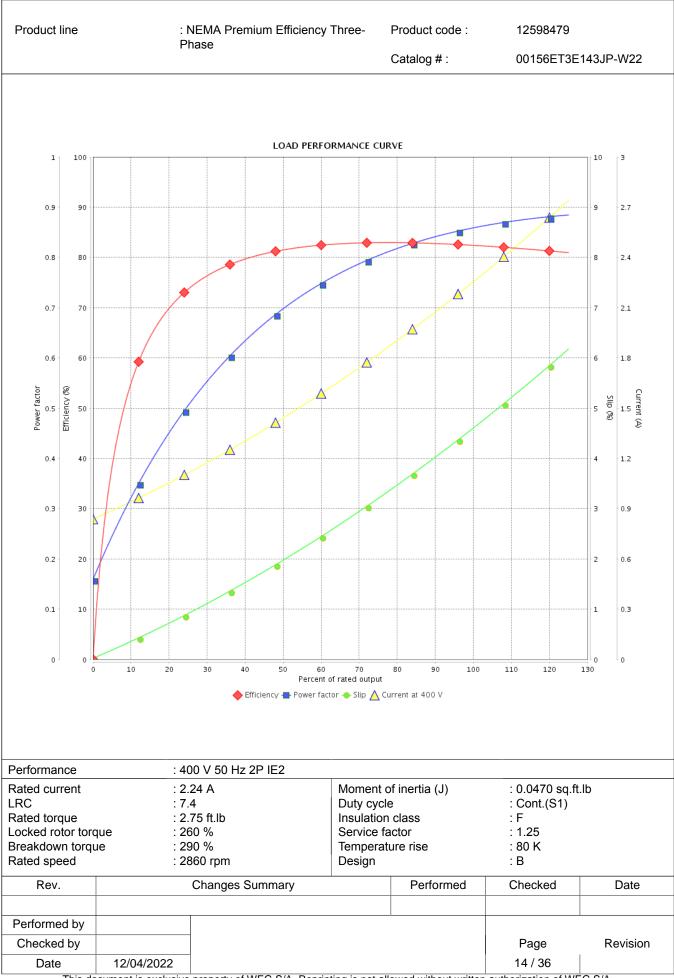
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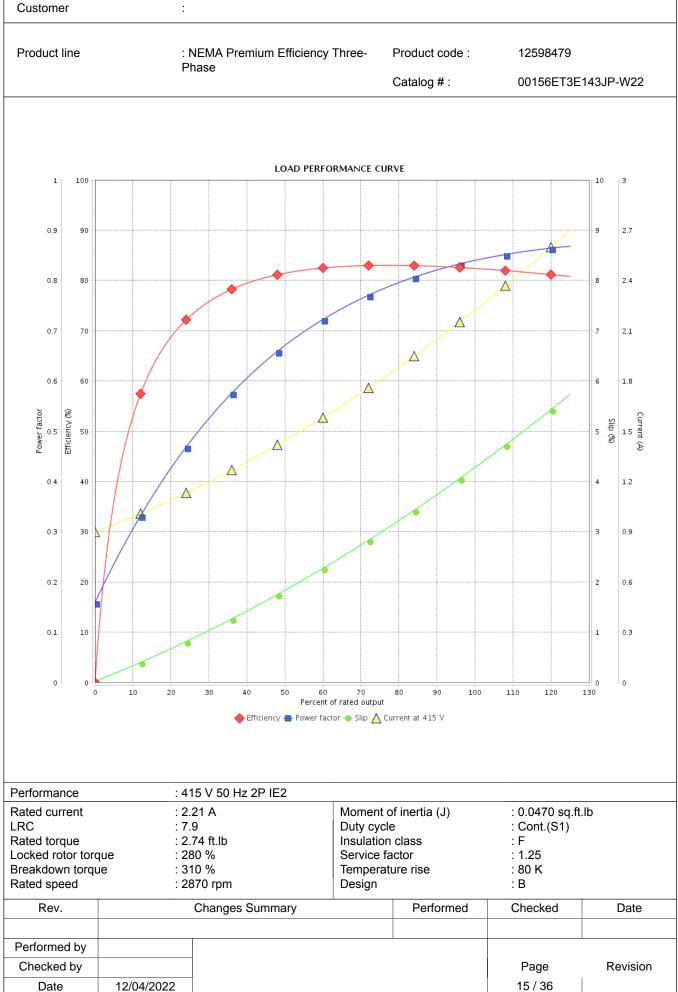


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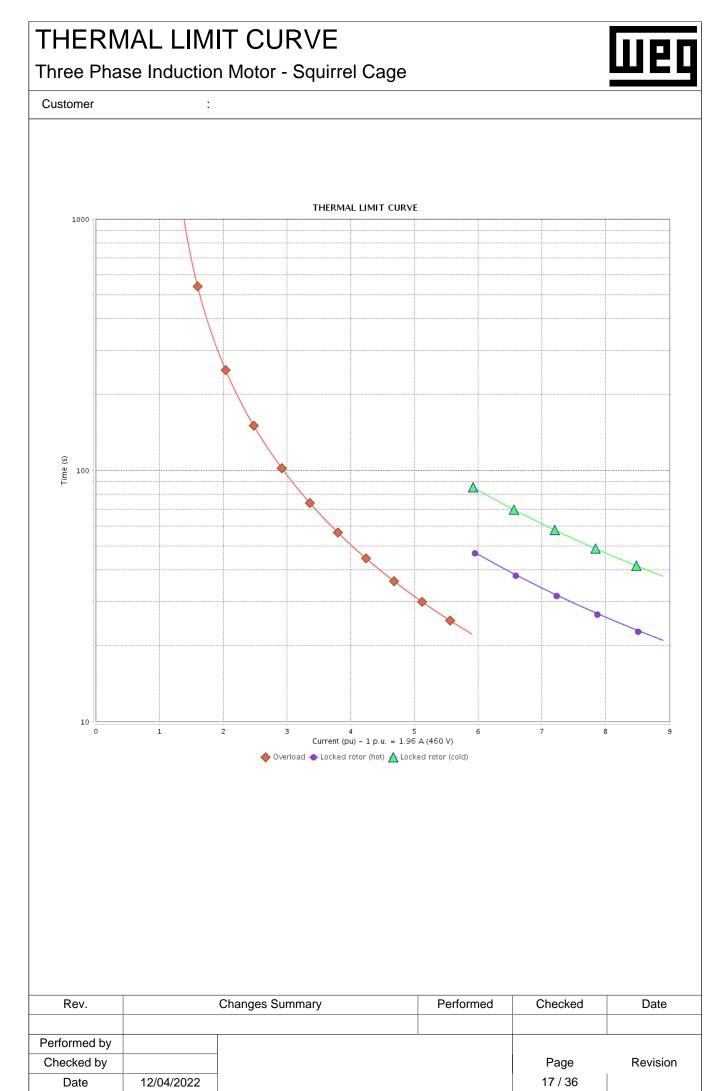
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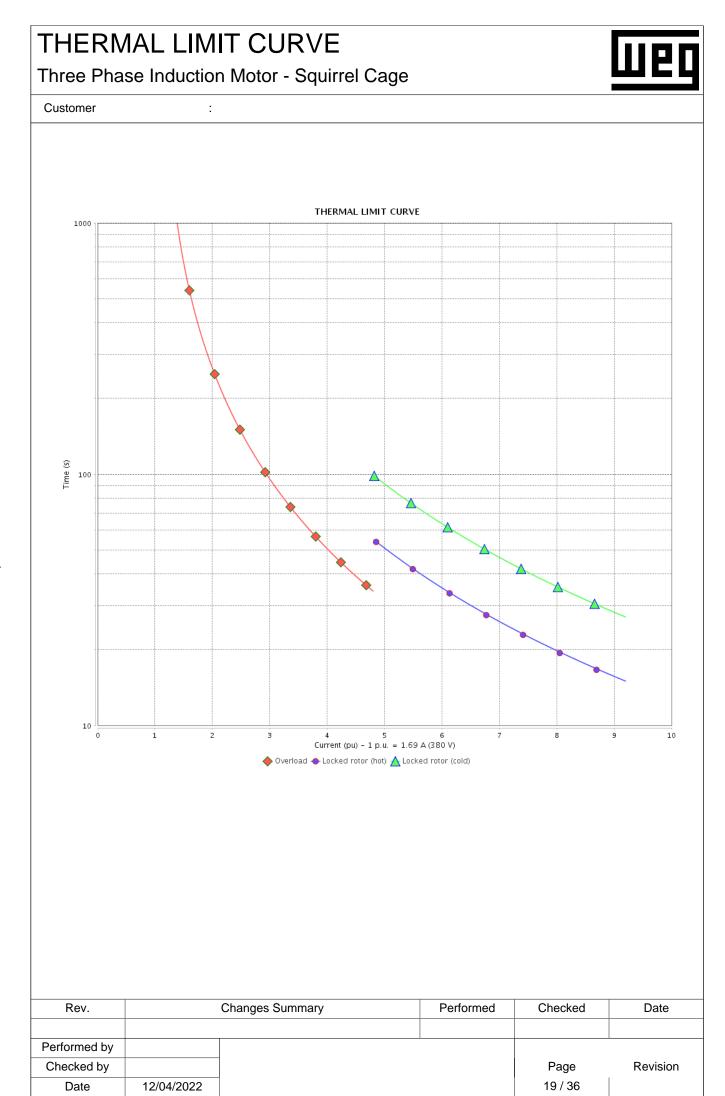
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:						
Product line	: NEI Phas	MA Premium Efficiency Se		Product code : Catalog # :	12598479 00156ET3E	143JP-W22	
Performance	: 230/4	460 V 60 Hz 2P					
Rated current LRC	: 3.92/ : 8.9	/1.96 A	Moment of Duty cycle	of inertia (J) e	: 0.0470 sq.ft : Cont.(S1)	.lb	
Rated torque Locked rotor torq	: 2.26		Insulation Service fa	class	: F : 1.25		
Breakdown torqu Rated speed		%	Temperat Design		: 80 K : B		
Heating constant							
Cooling constant Rev.		nanges Summary		Performed	Checked	Date	

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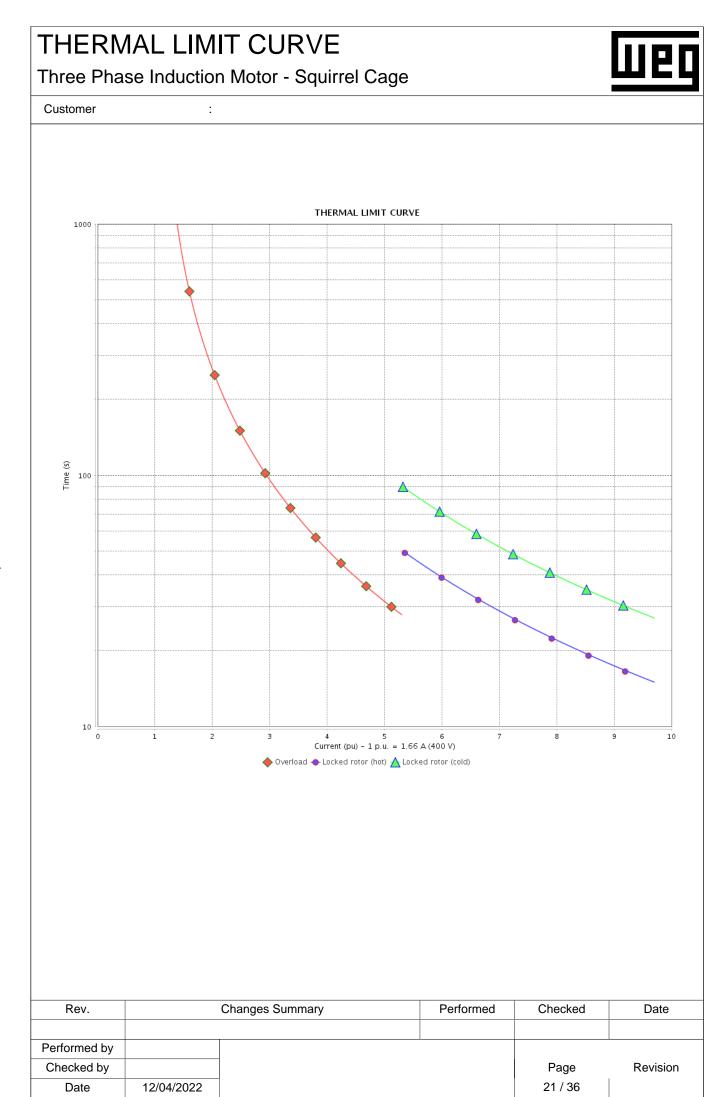
Customer       :         Product line       : NEMA Premium Efficiency Three-Product code ::       12598479         Phase       Catalog # :       00156ET3E143JP-W22         Catalog # :       00156ET3E143JP-W22         Performance       :380 V 50 Hz 2P IE3         Rated current       1.99 A         URC       :92         Device       : 1.001 yr cycle         Rated current       :1.93 A         URC       :92         Brakdown torque       :380 %         Brakdown torque       :380 %         Brakdown torque       :380 %         Breakdown torque       :380 %		THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Performance       : 380 V 50 Hz 2P JE3         Rated current       : 169 A         LRC       : 92         Rated forque       :: 181 HLb         Insulation class       : F         Derektown torque       :: 390 %         Breakdown torque       :: 290 %         Temperature rise       :: 80 K         Design       :: B				Three-	Product code :	12598479		
Rated current: 1.69 AMoment of inertia (J): 0.0470 sq.ft.lbLRC: 9.2Duty cycle: Cont.(S1)Rated torque: 1.81 ft.lbInsulation class: FLocked rotor torque: 340 %Service factor: 1.25Breakdown torque: 390 %Temperature rise: 80 KRated speed: 2905 rpmDesign: B					Catalog # :	00156ET3E	143JP-W22	
Rated current: 1.69 AMoment of inertia (J): 0.0470 sq.ft.lbLRC: 9.2Duty cycle: Cont.(S1)Rated torque: 1.81 ft.lbInsulation class: FLocked rotor torque: 340 %Service factor: 1.25Breakdown torque: 390 %Temperature rise: 80 KRated speed: 2905 rpmDesign: B								
Rated current: 1.69 AMoment of inertia (J): 0.0470 sq.ft.lbLRC: 9.2Duty cycle: Cont.(S1)Rated torque: 1.81 ft.lbInsulation class: FLocked rotor torque: 340 %Service factor: 1.25Breakdown torque: 390 %Temperature rise: 80 KRated speed: 2905 rpmDesign: B								
LRC       : 9.2       Duty cycle       : Cont.(S1)         Rated torque       : 1.81 ft.lb       Insulation class       : F         Locked rotor torque       : 340 %       Service factor       : 1.25         Breakdown torque       : 390 %       Temperature rise       : 80 K         Rated speed       : 2905 rpm       Design       : B         Heating constant       Cooling constant				Moment o	f inertia (I)	• 0 0470 ea ff	Ih	
Locked rotor torque       : 340 %       Service factor       : 1.25         Breakdown torque       : 390 %       Temperature rise       : 80 K         Rated speed       : 2905 rpm       Design       : B         Heating constant       Cooling constant	LRC	: !	9.2	Duty cycle	;	: Cont.(S1)		
Breakdown torque       : 390 %       Temperature rise       : 80 K         Rated speed       : 2905 rpm       Design       : B         Heating constant       Cooling constant								
Heating constant Cooling constant	Breakdown torqu	e :	390 %	Temperatu		: 80 K		
Cooling constant			2905 rpm	Design		: B		
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	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		:					
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12598479 00156ET3E	143JP-W22	
Performance		: 400 V 50 Hz 2P IE3					
Rated current		: 1.66 A		f inertia (J)	: 0.0470 sq.ft	lb	
LRC Rated torque		: 9.7 : 1.80 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor torg	lue	: 380 %	Service fa	ctor	: 1.25		
Breakdown torqu Rated speed		: 440 % : 2915 rpm	Temperatu Design	ure rise	: 80 K : B		
Heating constant		•	0				
Cooling constant							
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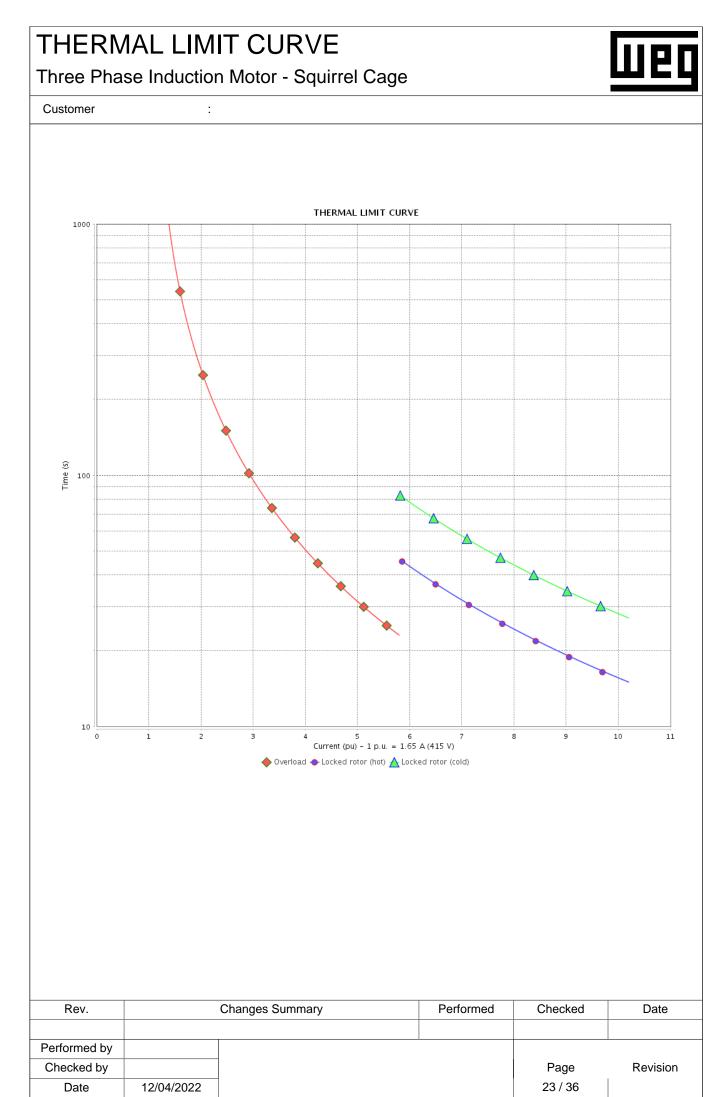
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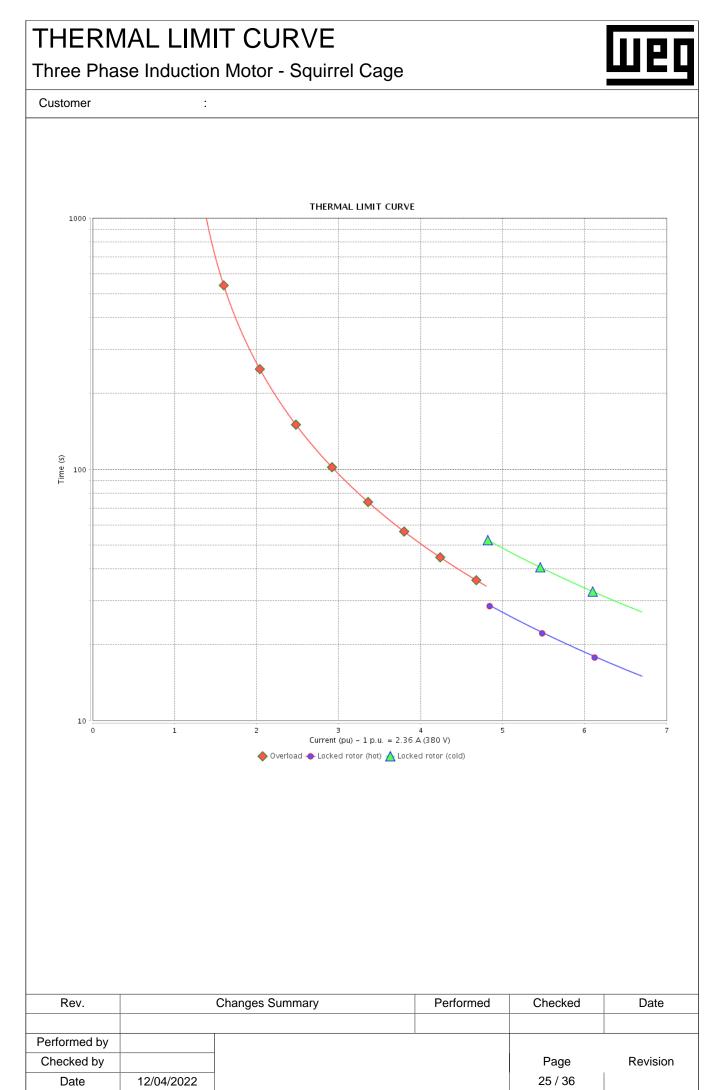
Three Phas	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer Product line		NEMA Premium Efficiency	Three-	Product code :	12598479		
	F	Phase		Catalog # :	00156ET3E	143JP-W22	
Dorformazaa							
Performance Rated current		15 V 50 Hz 2P IE3 1.65 A	Moment o	f inertia (J)	: 0.0470 sq.ft	.lb	
LRC Rated torque	: 1	10.2 1.80 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F		
Locked rotor torq	ue : 4	120 %	Service fa	ctor	: 1.25		
Breakdown torqu Rated speed		480 % 2920 rpm	Temperatu Design	ure rise	: 80 K : B		
Heating constant		· · · · · · · · · · · · · · · · · · ·					
Cooling constant				F		1	
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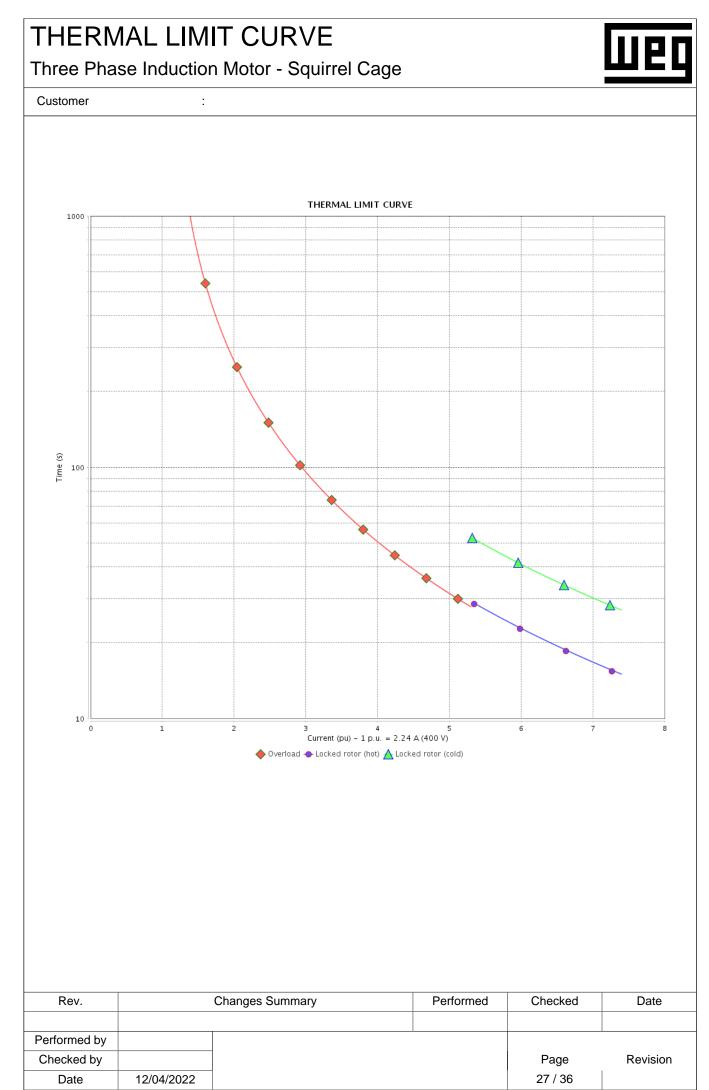
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598479 00156ET3E	143JP-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	lue Ie	: 380 V 50 H2 2P IE2 : 2.36 A : 6.7 : 2.78 ft.lb : 220 % : 260 % : 2835 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0470 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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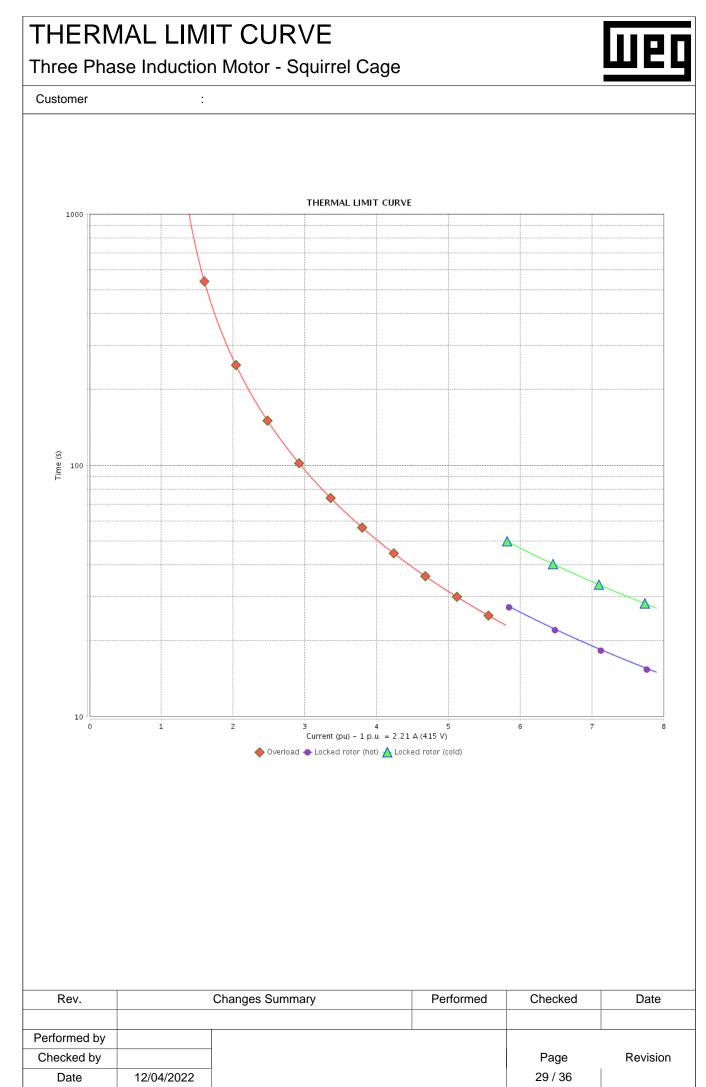
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:						
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598479 00156ET3E	143JP-W22		
Performance	: 400 V 50 Hz 2P IE2						
Rated current	: 2.24 A		of inertia (J)	: 0.0470 sq.ft	lb		
LRC Rated torque	: 7.4 : 2.75 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F			
Locked rotor torq Breakdown torqu		Service fa Temperat		: 1.25 : 80 K			
Rated speed	: 2860 rpm	Design	··- #	: B			
Heating constant							
Cooling constant Rev.	Changes Summary		Performed	Checked	Date		
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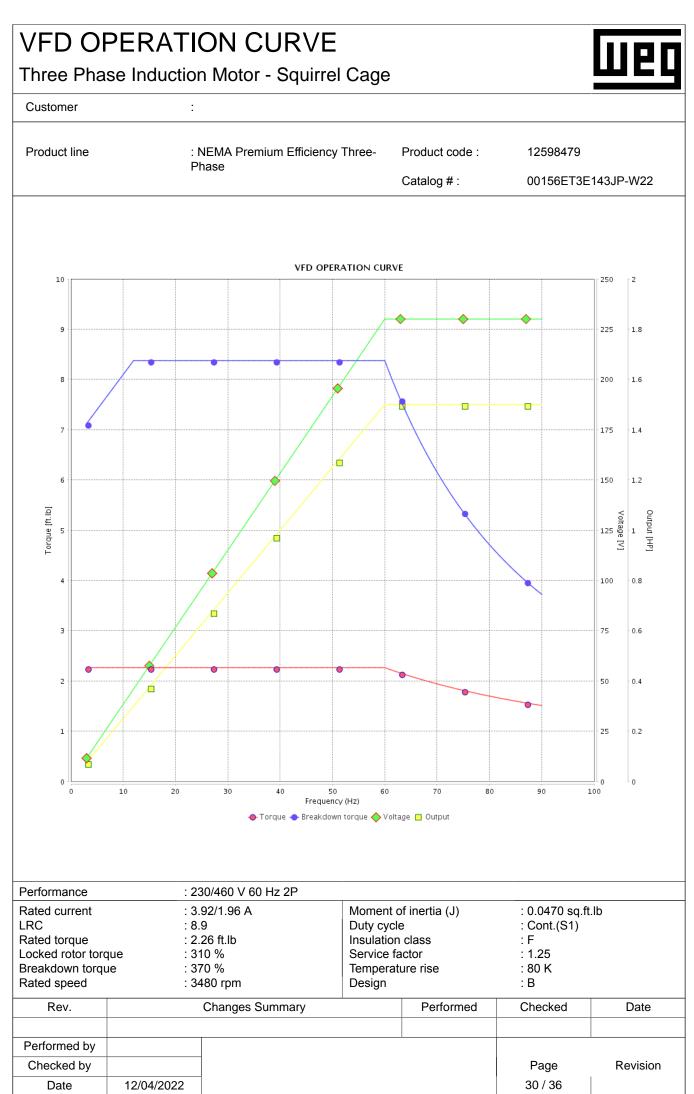
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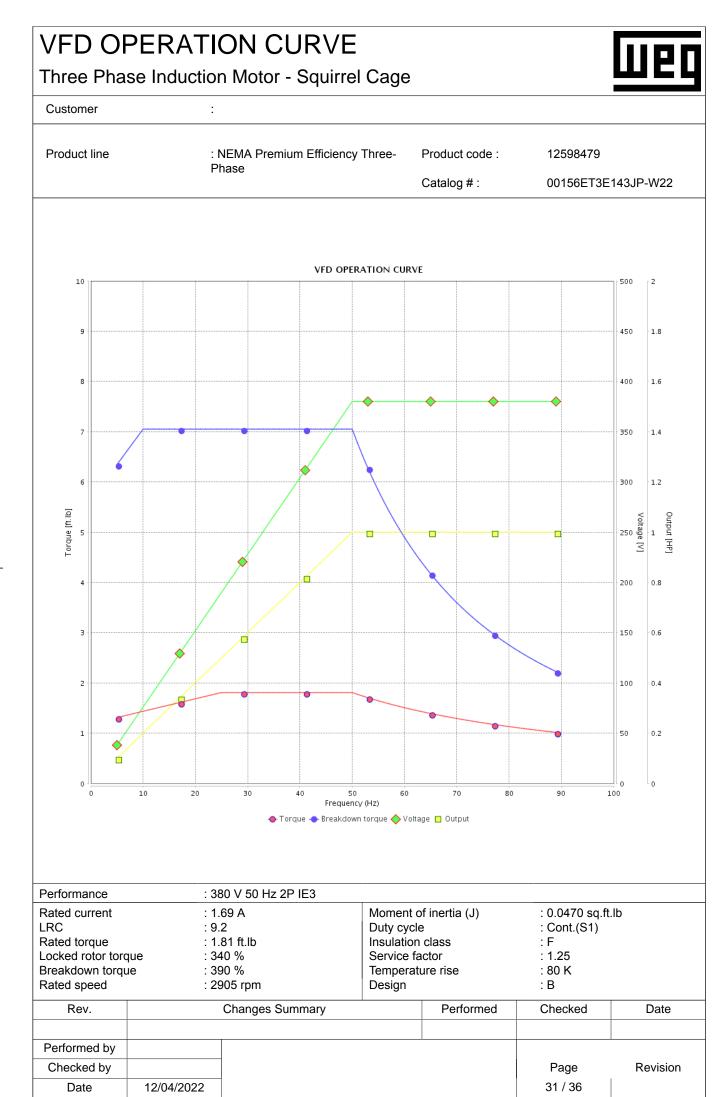


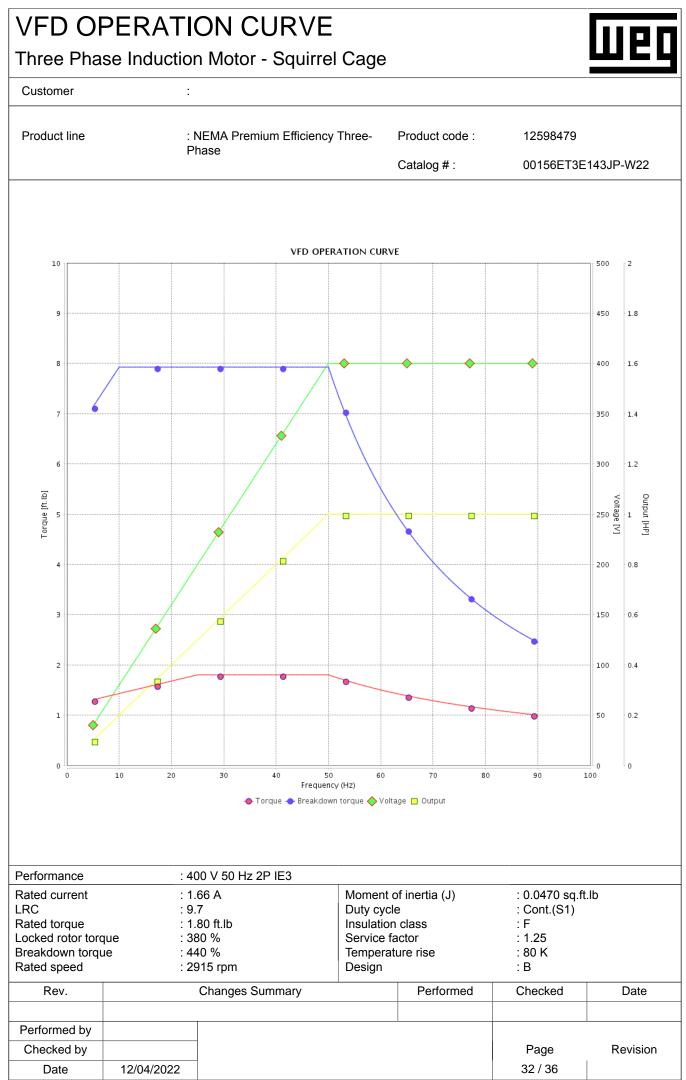
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer		:					
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598479 00156ET3E	143JP-W22	
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 415 V 50 Hz 2P IE2 : 2.21 A : 7.9 : 2.74 ft.lb : 280 % : 310 % : 2870 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0470 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
Heating constant							
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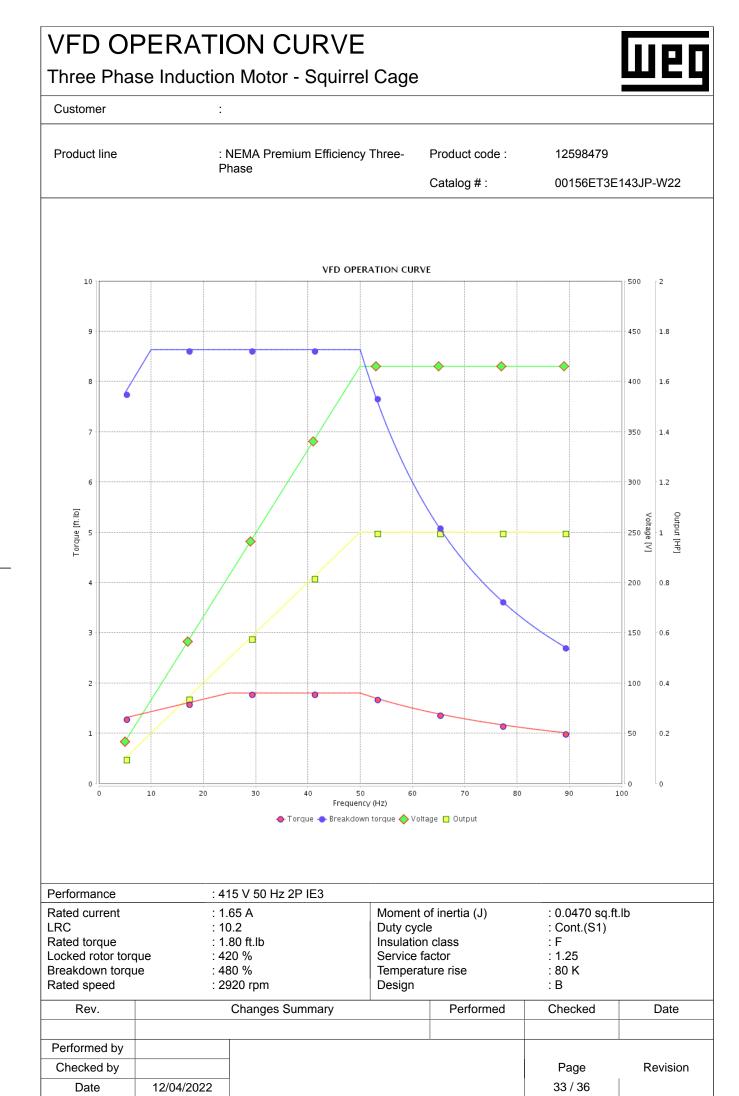
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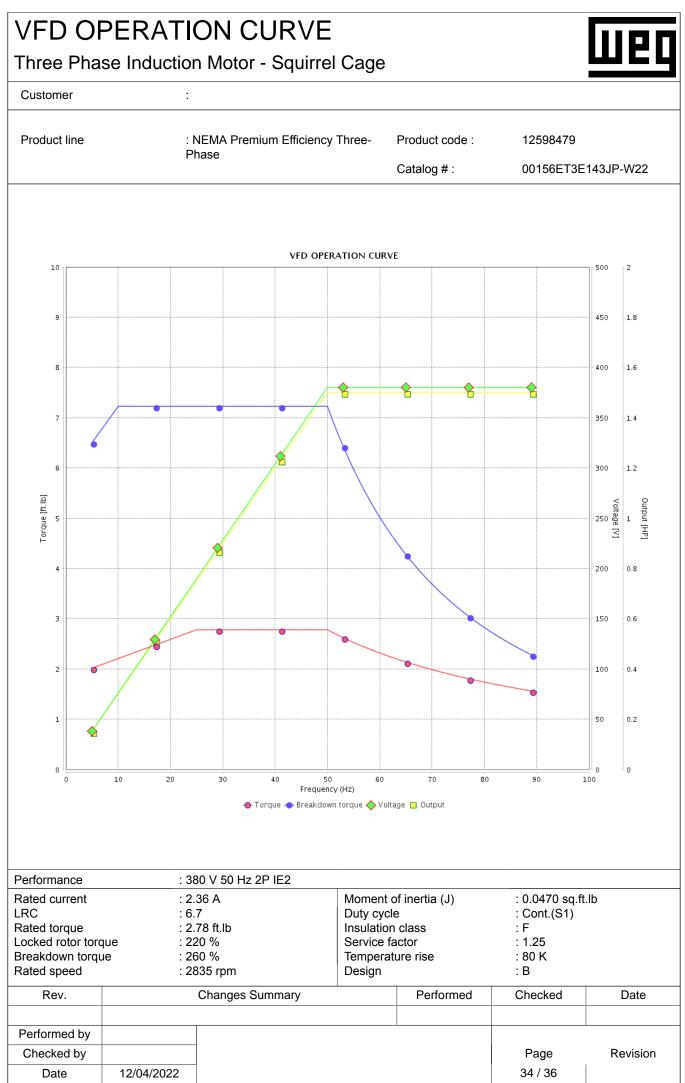


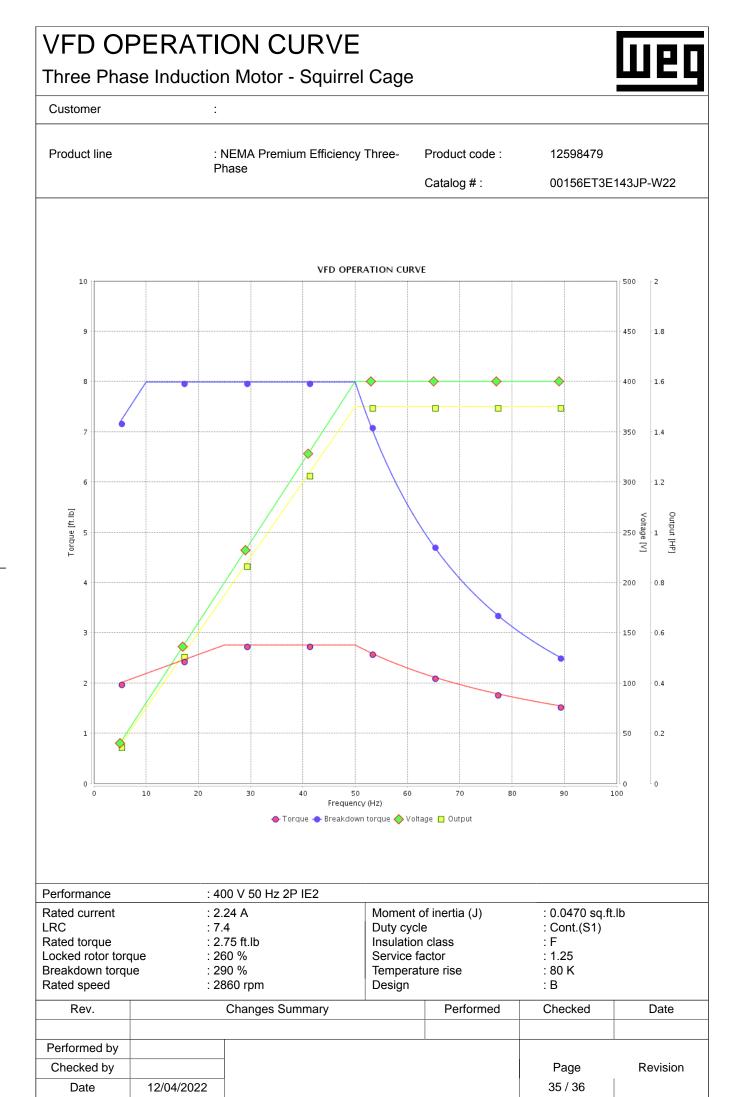


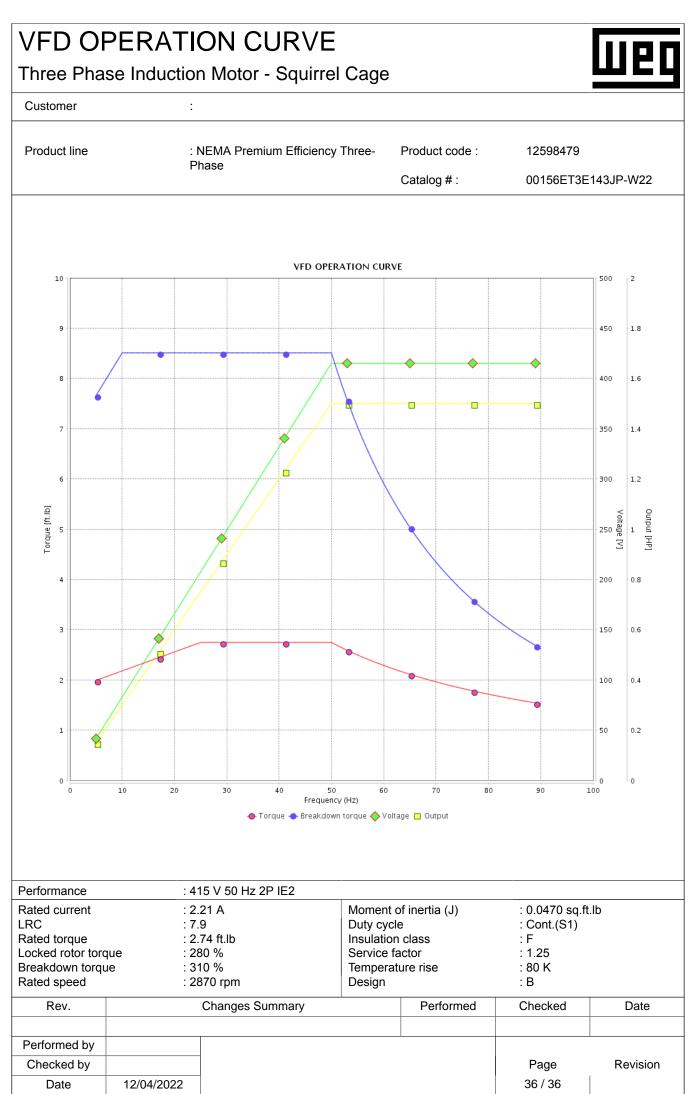




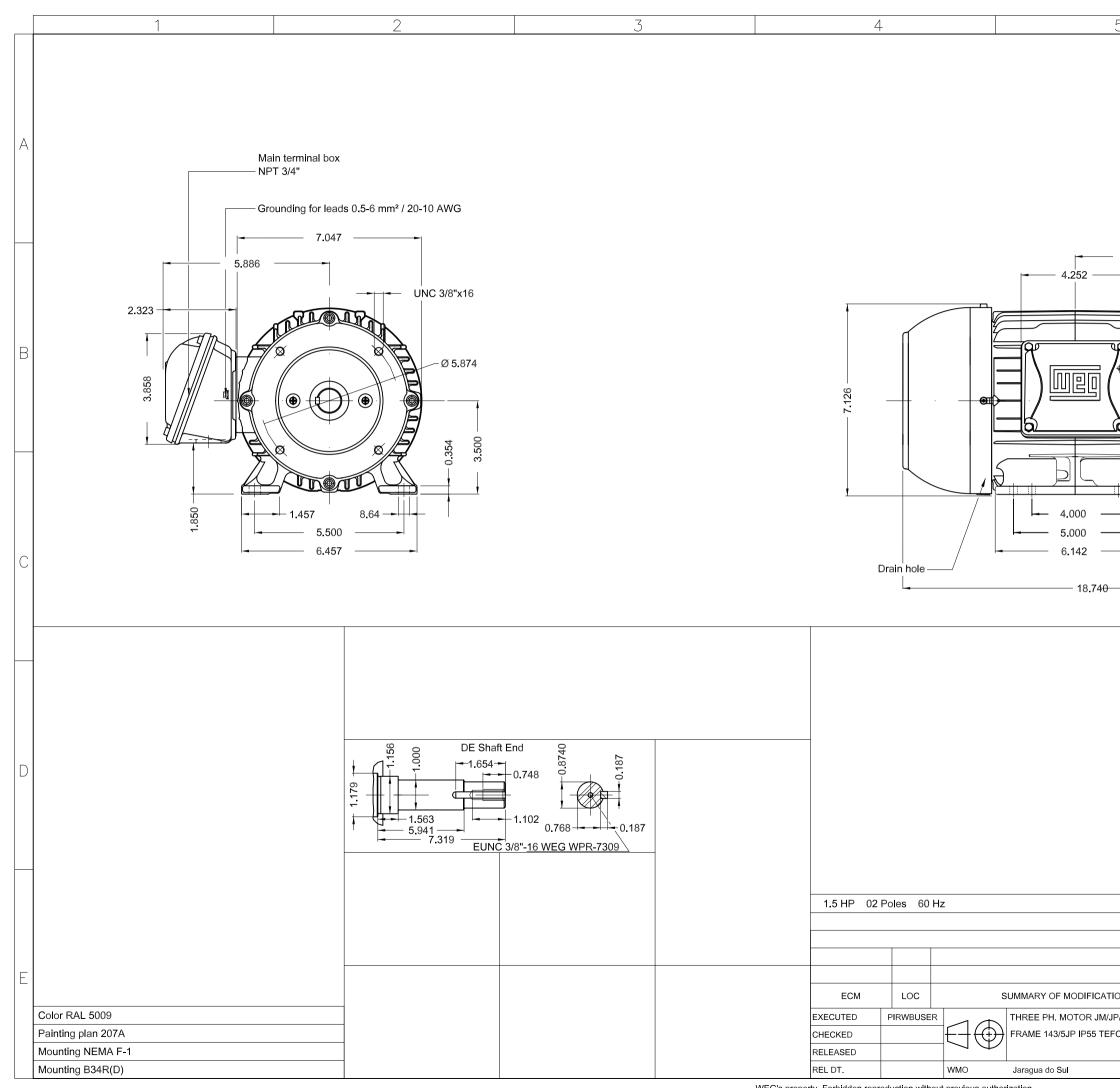








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