DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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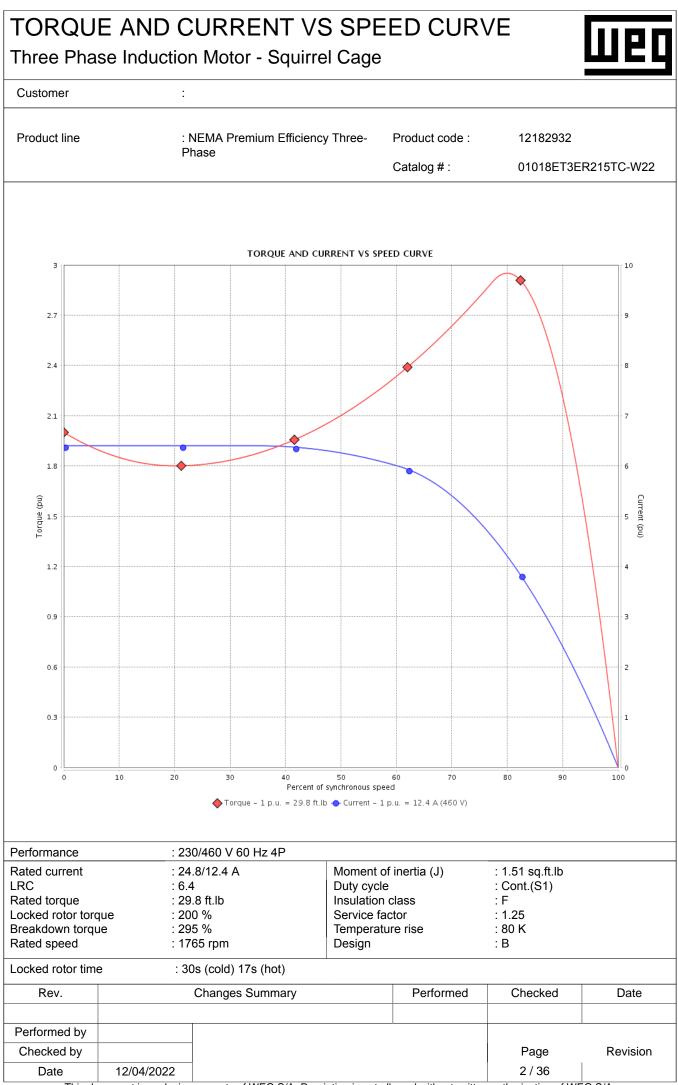
Customer

Product line		: NEMA Pre Phase	mium Efficien	icy Three-	Product code	e: 12	182932	
		Phase			Catalog # :	01	018ET3ER21	5TC-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 215TC : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mounti Rotatio Starting Approx		: V : E : C : 1	C411 - TEFC W-6 Both (CW and Direct On Line I76 lb I.51 sq.ft.lb	,
Output [HP]		10	7.5	7.5	7.5	10	10	10
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		24.8/12.4	11.2	11.0	10.9	15.0	14.2	13.8
R. Amperes [A] .RC [A]		159/79.4 6.4x(Code H)	75.0	78.1	81.7	76.5	79.5	82.8
				7. IX(Code J)	7.5X(Code J)	5. IX(COUE F)		6.0x(Code G)
No load current [A	.]	11.3/5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPN		1765	1465	1470	1470	1450	1455	1460
Slip [%]	-	1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [ft.lb		29.8	26.9	26.8	26.8	36.2	36.1	36.0
ocked rotor torqu		200	200	240	260	150	180	190
Breakdown torque	e [%]	295	300	340	360	220	250	270
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
ocked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A
	25%	90.8	90.0	88.8	88.0	91.6	90.7	90.1
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
-) (-)	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100% 25%	91.7 0.40	89.8 0.37	90.1 0.34	90.3 0.32	88.5 0.46	89.5 0.43	90.2 0.40
Power Factor	50% 75%	0.66	0.62	0.58	0.55 0.70	0.73 0.82	0.69	0.66
	100%	0.77	0.76	0.73	0.70	0.86	0.85	0.78
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type	val	<u>Drive end</u> 6308 ZZ V'Ring		<u>end</u> Founda ZZ Max. tra	tion loads	: 4	60 lb 36 lb	1
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m	aces and car ed. lotor from the	15 SFA 31.5A ncel the previo e shaft end.	us one, which				on tests with sinces stipulate	
(2) Measured at 7 (3) Approximate wanufacturing pr (4) At 100% of fu Rev.	weight subjeo ocess.	ct to changes a			Performe	ed Che	ecked	Date

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 Date
 12/04/2022
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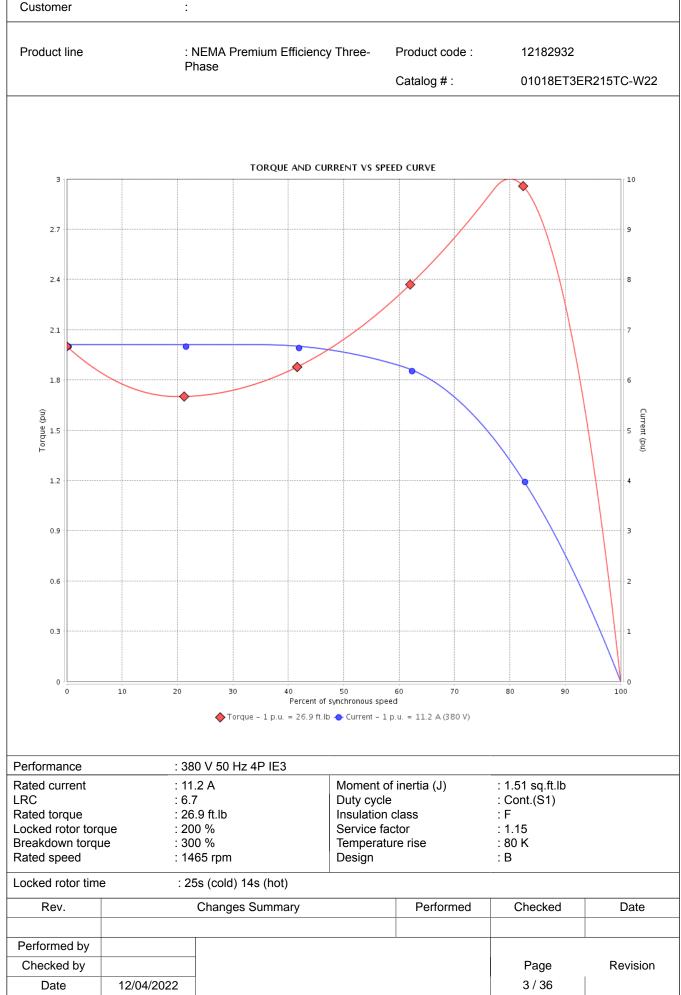
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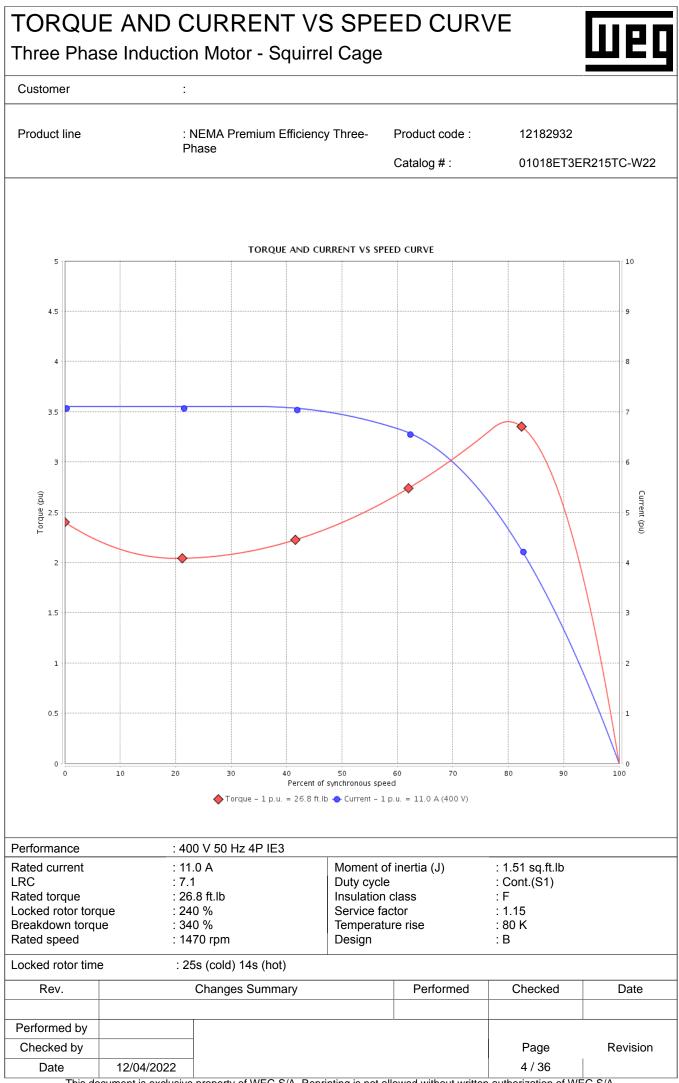
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



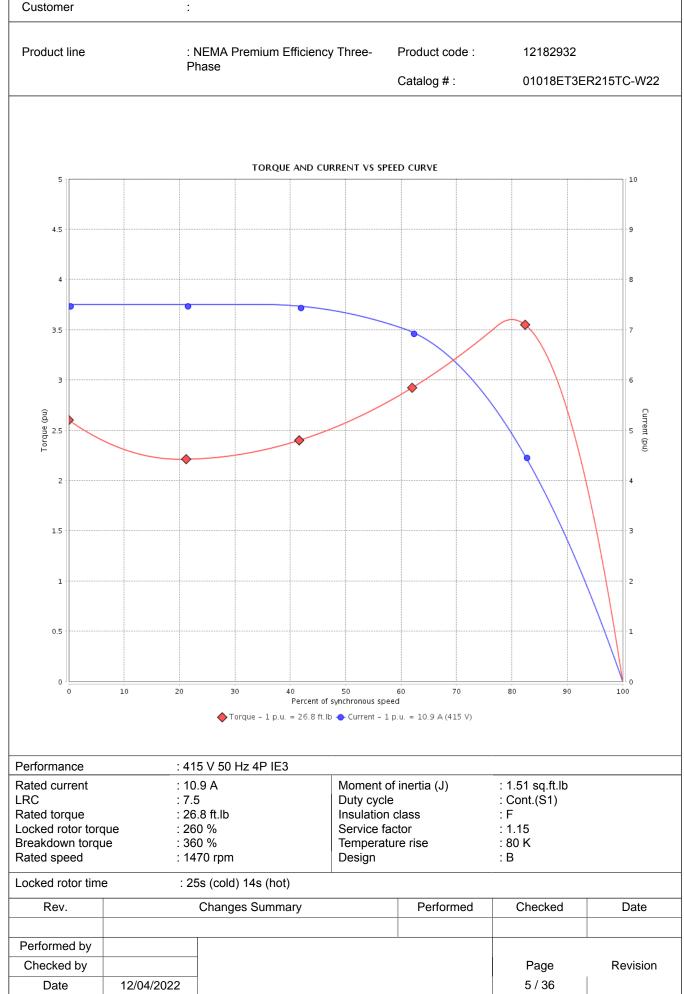
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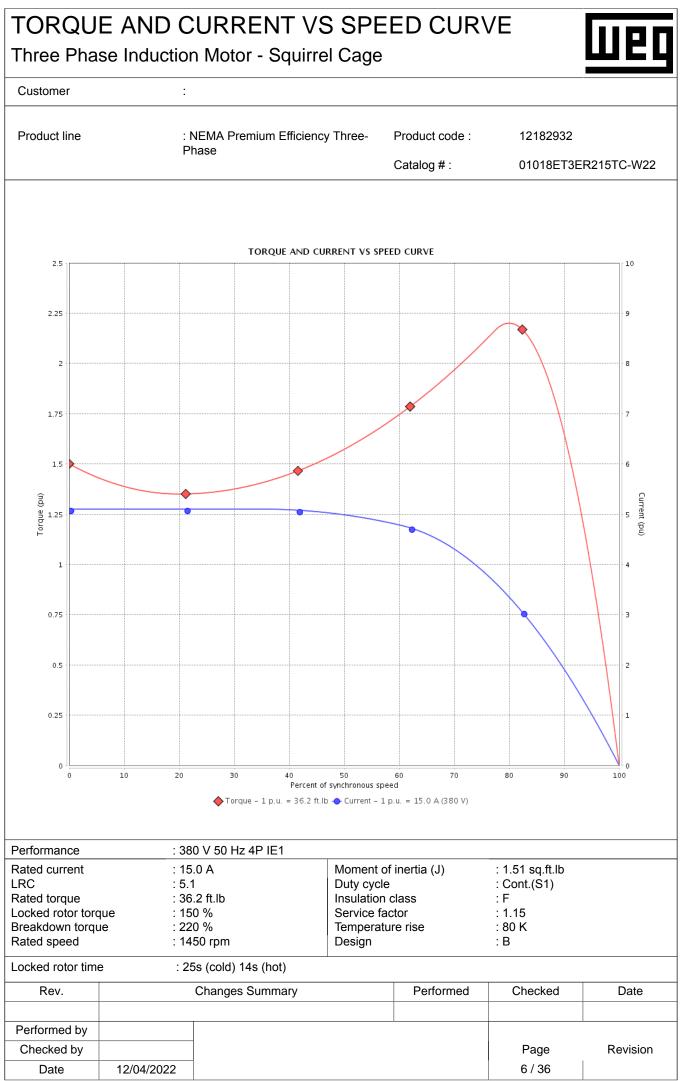
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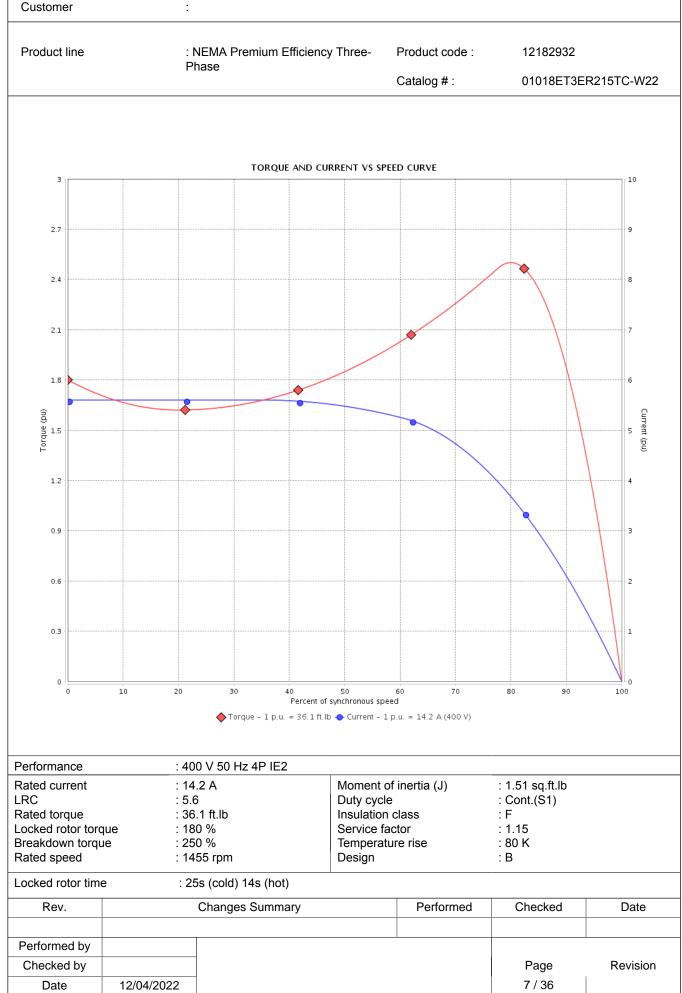
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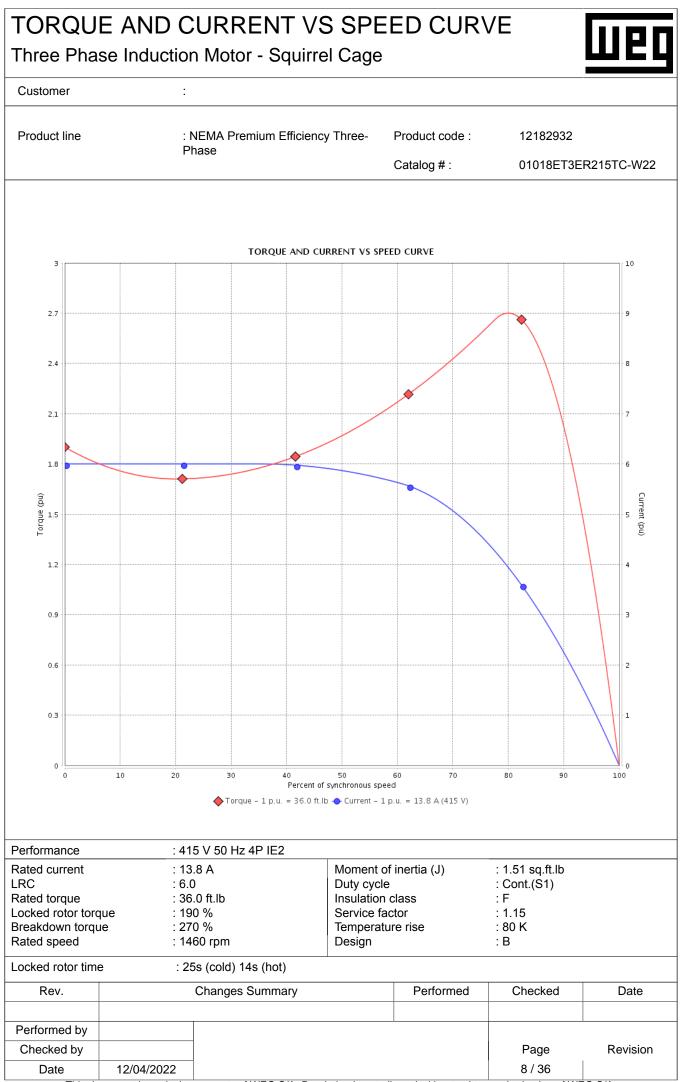
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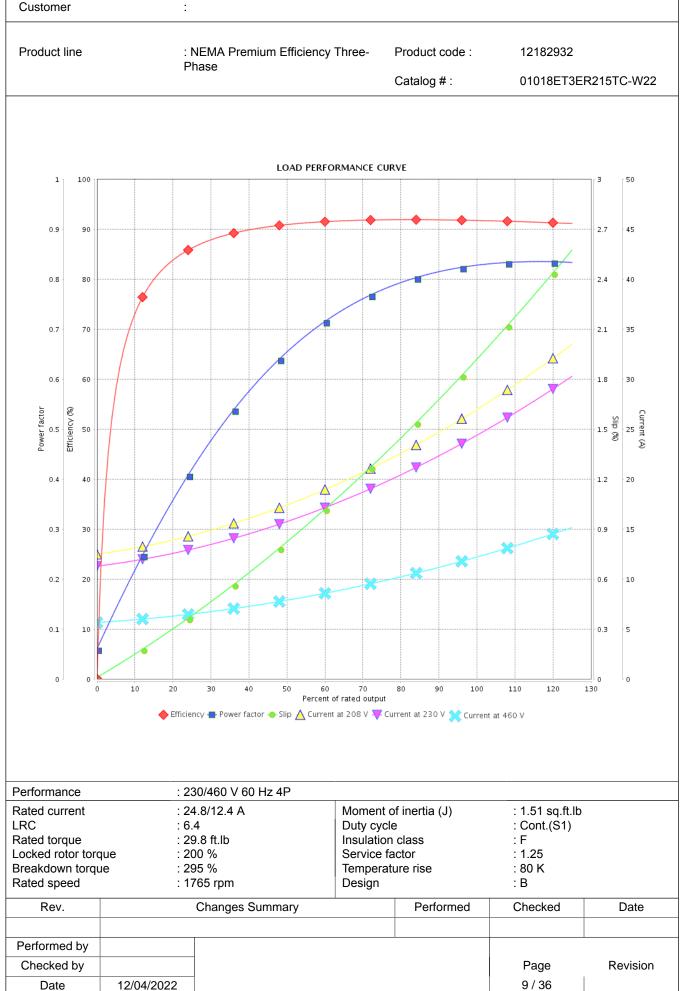


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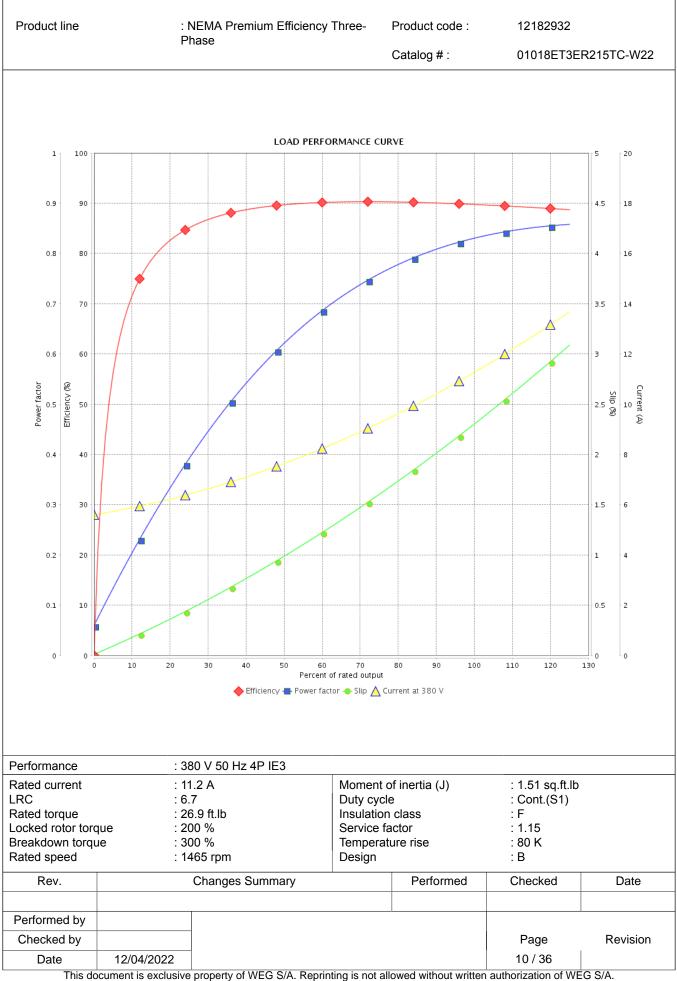
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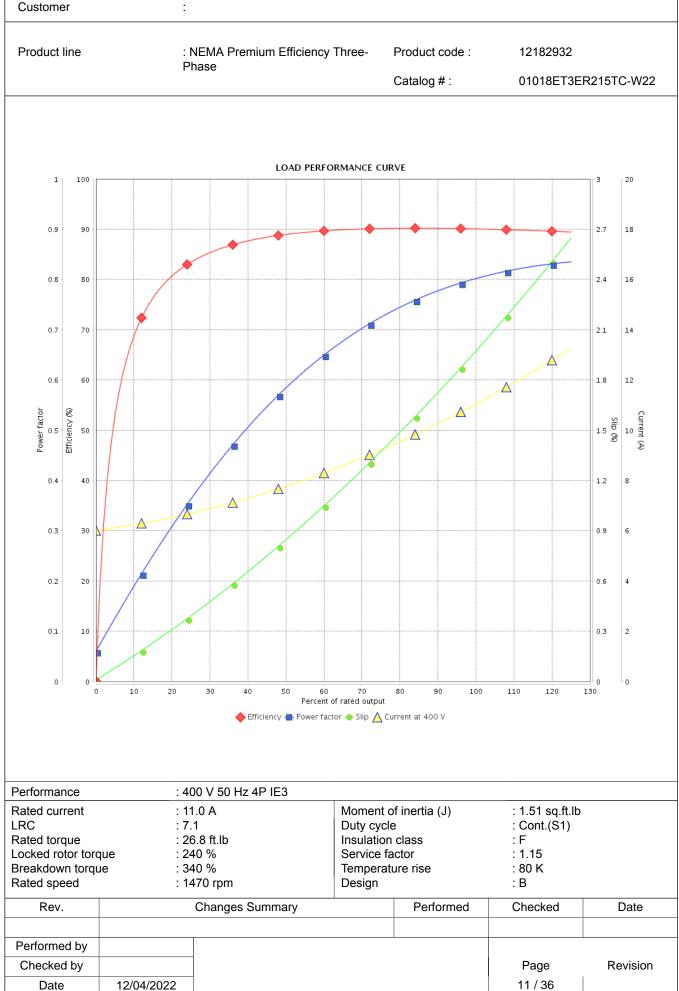


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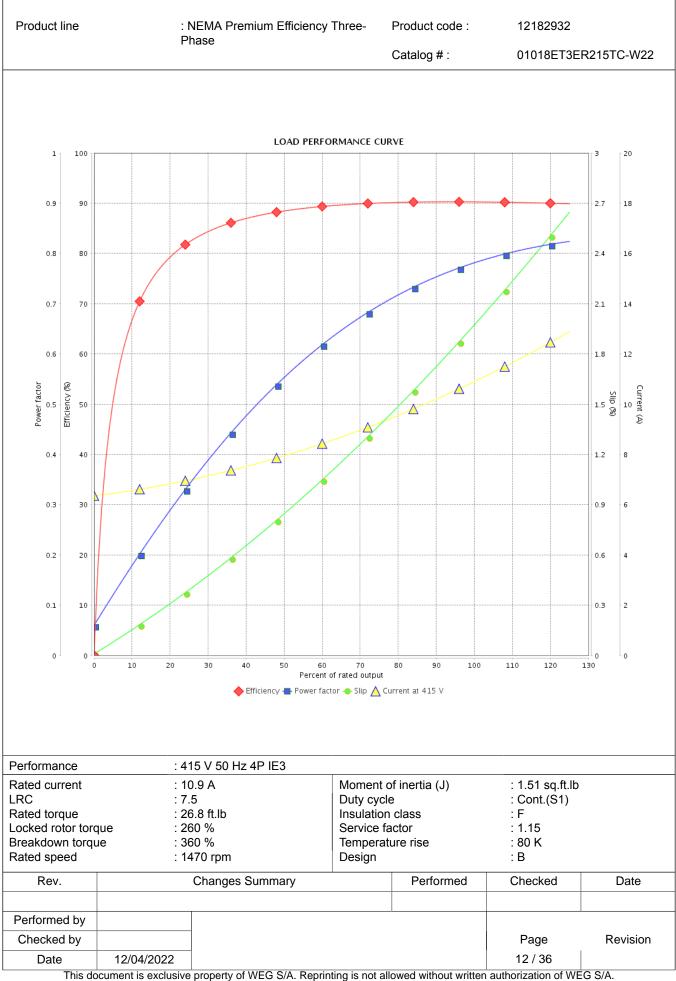
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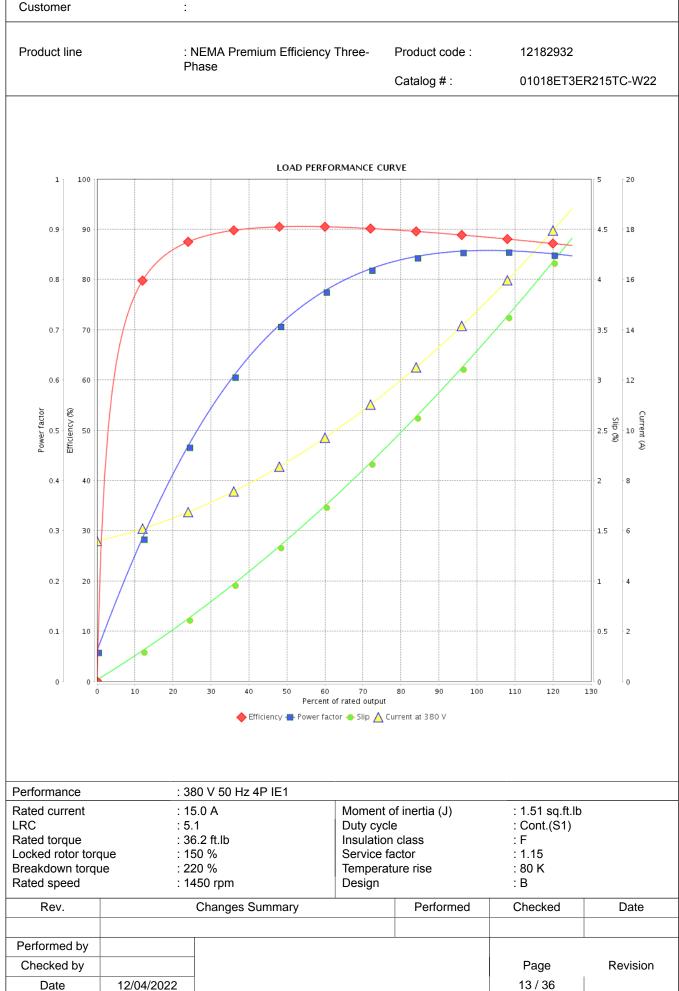


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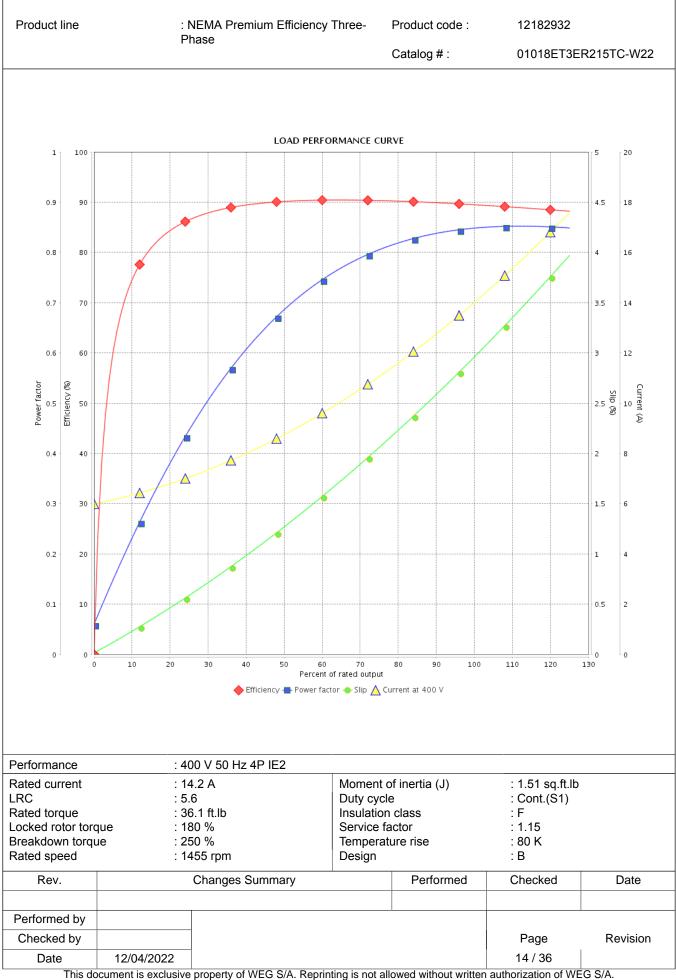
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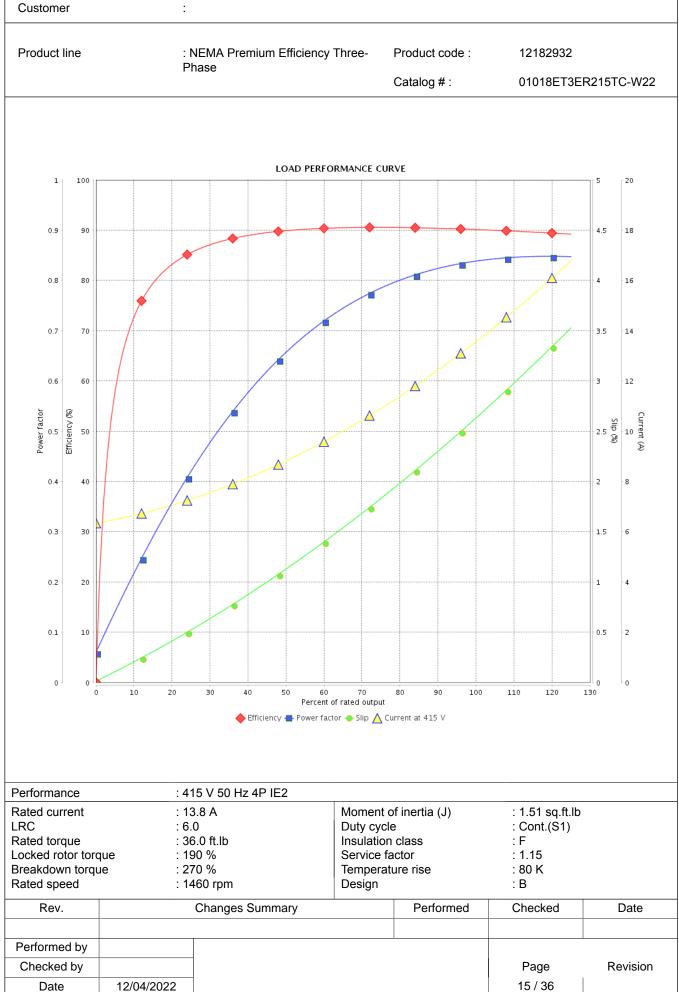


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Three Phase Induction Motor - Squirrel Cage

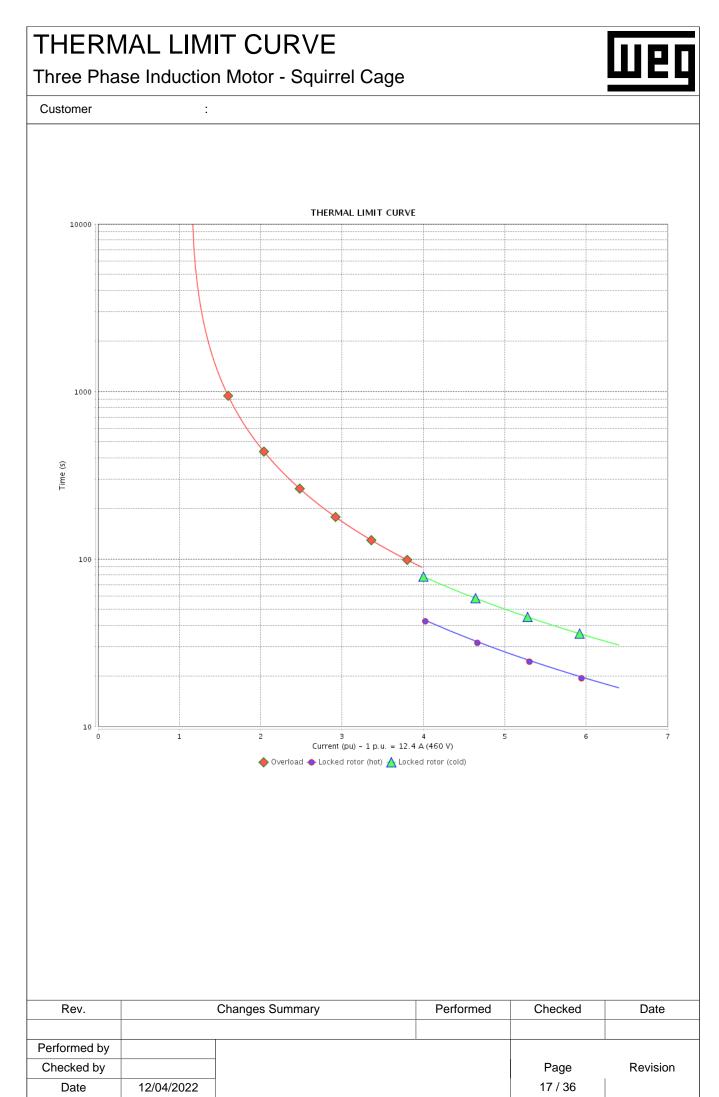
Customer



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THERMAL LIMIT CURVE									
Three Phase Induction Motor - Squirrel Cage									
Customer	:								
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12182932						

			(Catalog # :	01018ET3ER	2151C-W22
		30/460 V 60 Hz 4P				
ated current	: 2	4.8/12.4 A		f inertia (J)	: 1.51 sq.ft.lb	
ated current RC ated torque	: 2 : 6 : 2	4.8/12.4 A 6.4 9.8 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
ated current RC ated torque ocked rotor torc	: 2 : 6 : 2 jue : 2	4.8/12.4 A 6.4 9.8 ft.lb 00 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.25	
ated current RC ated torque ocked rotor torc reakdown torqu	: 2 : 6 : 2 jue : 2 ie : 2	4.8/12.4 A 6.4 9.8 ft.lb	Duty cycle Insulation	class ctor	: Cont.(S1) : F	
ated current RC ated torque ocked rotor toro reakdown torqu ated speed	: 2 : 6 : 2 iue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 %	Duty cycle Insulation Service far Temperatu	class ctor	: Cont.(S1) : F : 1.25 : 80 K	
ated current RC ated torque ocked rotor toro reakdown torqu ated speed eating constant	: 2 : 6 : 2 jue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 %	Duty cycle Insulation Service far Temperatu	class ctor	: Cont.(S1) : F : 1.25 : 80 K	
ated current RC ated torque ocked rotor toro reakdown torqu ated speed eating constant	: 2 : 6 : 2 jue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 %	Duty cycle Insulation Service far Temperatu	class ctor	: Cont.(S1) : F : 1.25 : 80 K	Date
ated current RC ated torque ocked rotor toro reakdown torqu ated speed leating constant cooling constant Rev.	: 2 : 6 : 2 jue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 % 765 rpm	Duty cycle Insulation Service far Temperatu	class ctor ire rise	: Cont.(S1) : F : 1.25 : 80 K : B	Date
Rated current RC Rated torque ocked rotor toro treakdown torque tated speed leating constant Cooling constant Rev.	: 2 : 6 : 2 jue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 % 765 rpm	Duty cycle Insulation Service far Temperatu	class ctor ire rise	: Cont.(S1) : F : 1.25 : 80 K : B Checked	
Performance RC Rated current RC Rated torque ocked rotor toro reakdown torque ated speed leating constant cooling constant Rev. Performed by Checked by Date	: 2 : 6 : 2 jue : 2 ie : 2 : 1	4.8/12.4 A 6.4 9.8 ft.lb 00 % 95 % 765 rpm	Duty cycle Insulation Service far Temperatu	class ctor ire rise	: Cont.(S1) : F : 1.25 : 80 K : B	Date

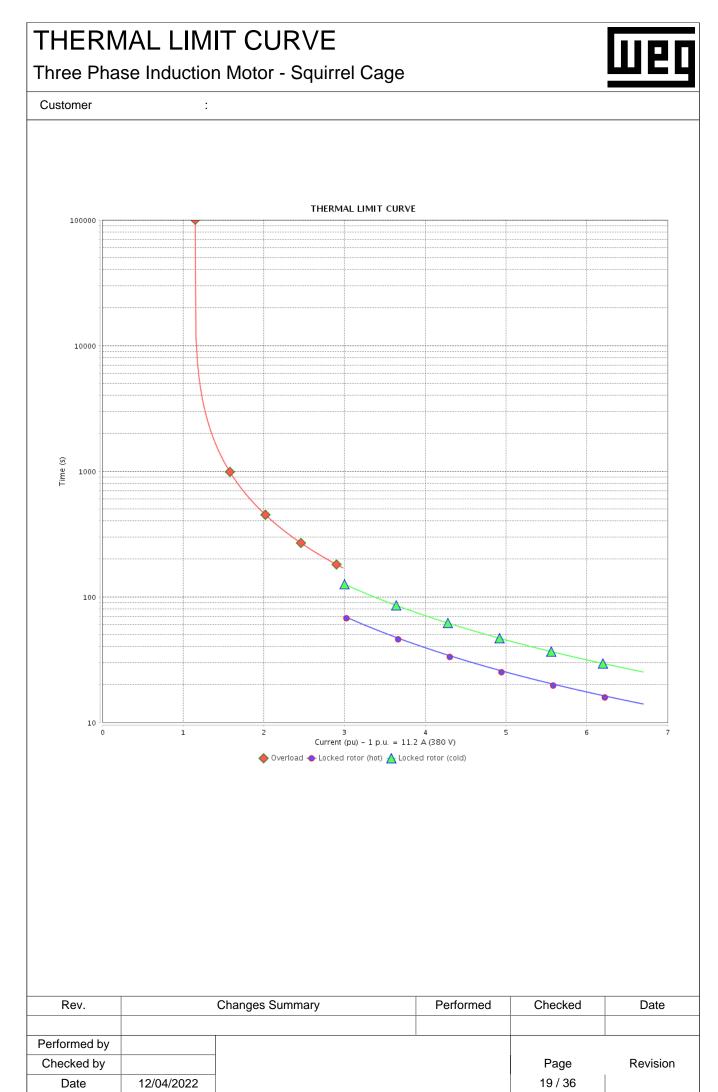


THERMAL LIMIT CURVE									
Three Phase Induction Motor - Squirrel Cage									
Customer	:								
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12182932						

Catalog # :

01018ET3ER215TC-W22

Performance	: 38	80 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	RC: 6.7Duty cycleated torque: 26.9 ft.lbInsulation ofocked rotor torque: 200 %Service faceakdown torque: 300 %Temperatu		class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Heating constan Cooling constan	t						
Rev.		Changes Summary		Performed	Checked	Date	
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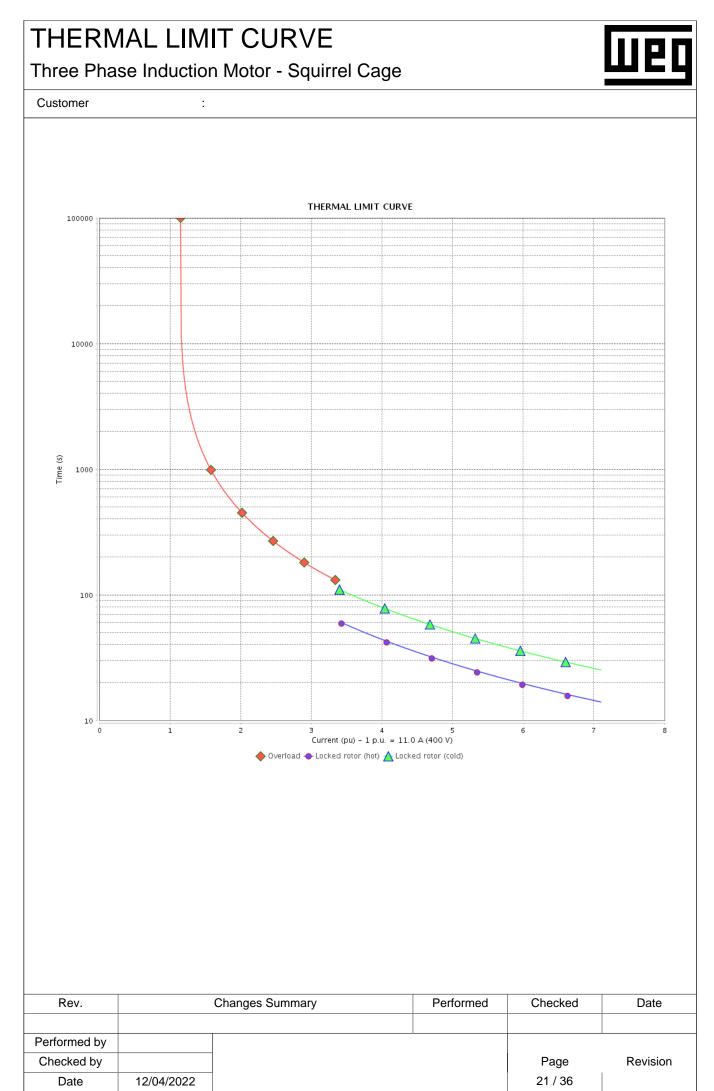
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THERMAL LIMIT CURVE							
Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12182932				

Catalog # :

Е

01018ET3ER215TC-W22

Performance	:	400 V 50 Hz 4P IE3				
Rated current: 11.0 ALRC: 7.1Rated torque: 26.8 ft.lbLocked rotor torque: 240 %Breakdown torque: 340 %Rated speed: 1470 rpm				: 1.15 : 80 K		
Heating constant	t					
Cooling constant	:					
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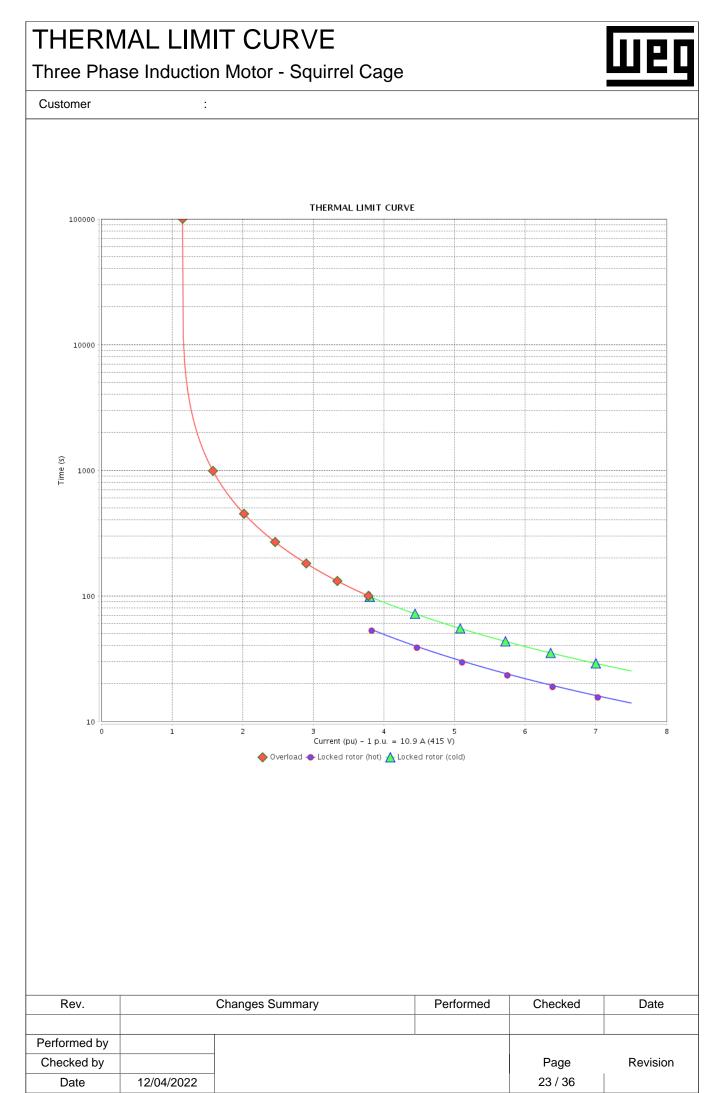
THERMAL LIMIT CURVE									
Three Phase Induc	ction Motor - Squirrel Cage	;							
Customer	:								
Product line	: NEMA Premium Efficiency Three-	Product code :	12182932						

Catalog # :

01018ET3ER215TC-W22

Phase

Performance	: 4	15 V 50 Hz 4P IE3				
LRC: 7.5Duty cyRated torque: 26.8 ft.lbInsulatLocked rotor torque: 260 %ServiceBreakdown torque: 360 %Tempe		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant	:					
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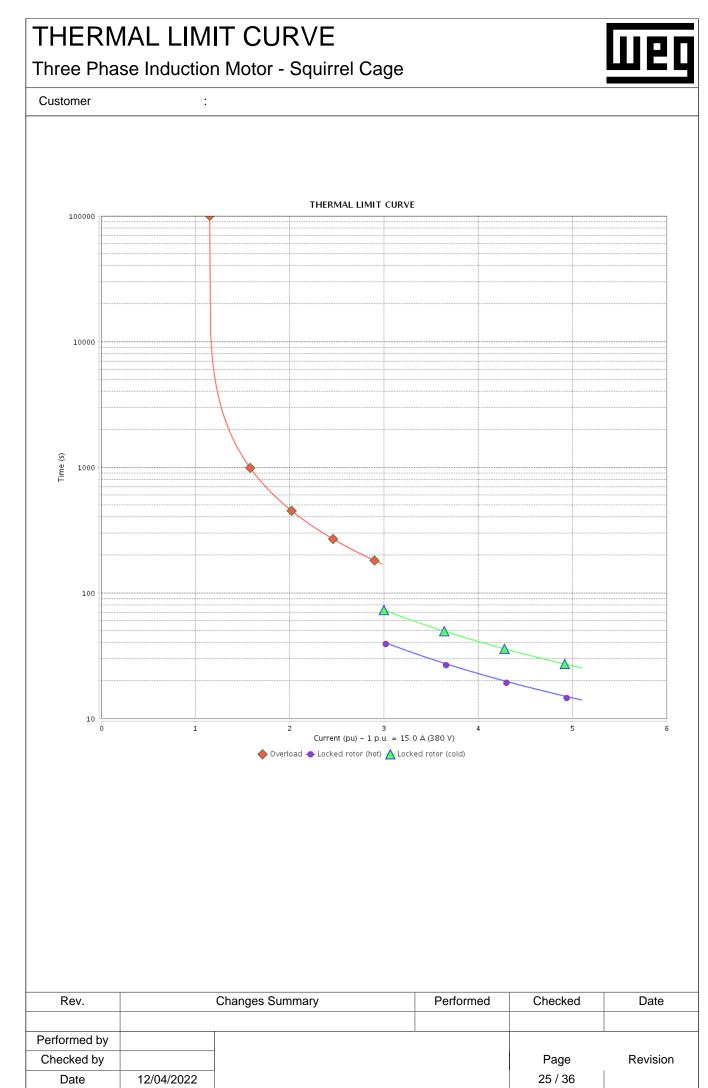
THERMAL LIMIT CURVE							
Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12182932				

Catalog # :

E

01018ET3ER215TC-W22

Performance	:	380 V 50 Hz 4P IE1				
Rated current: 15.0 ALRC: 5.1Rated torque: 36.2 ft.lbLocked rotor torque: 150 %Breakdown torque: 220 %Rated speed: 1450 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant						
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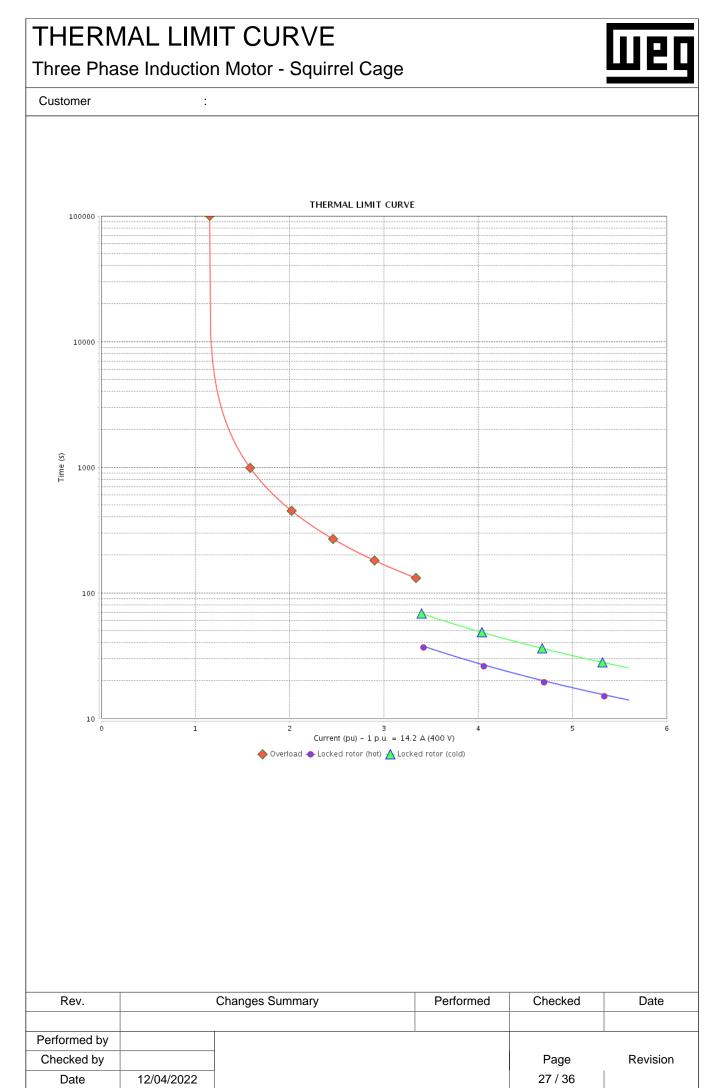


THERMAL LII	MIT CURVE			IIP
Three Phase Induct	ion Motor - Squirrel Cage			
Customer	:			
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12182932	

Catalog # :

01018ET3ER215TC-W22

Performance	:	400 V 50 Hz 4P IE2				
Rated current		14.2 A	Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC		5.6	Duty cycle		: Cont.(S1)	
Rated torque		36.1 ft.lb	Insulation class		:F	
Locked rotor tor	que :	180 %	Service factor		: 1.15	
Breakdown torqu	je :	250 %	Temperature rise		: 80 K	
Rated speed		1455 rpm	Design		: B	
Heating constant						
Cooling constant						
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THERMAL	LIMIT CURVE		Γ			
Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three-	Product code :	12182932			

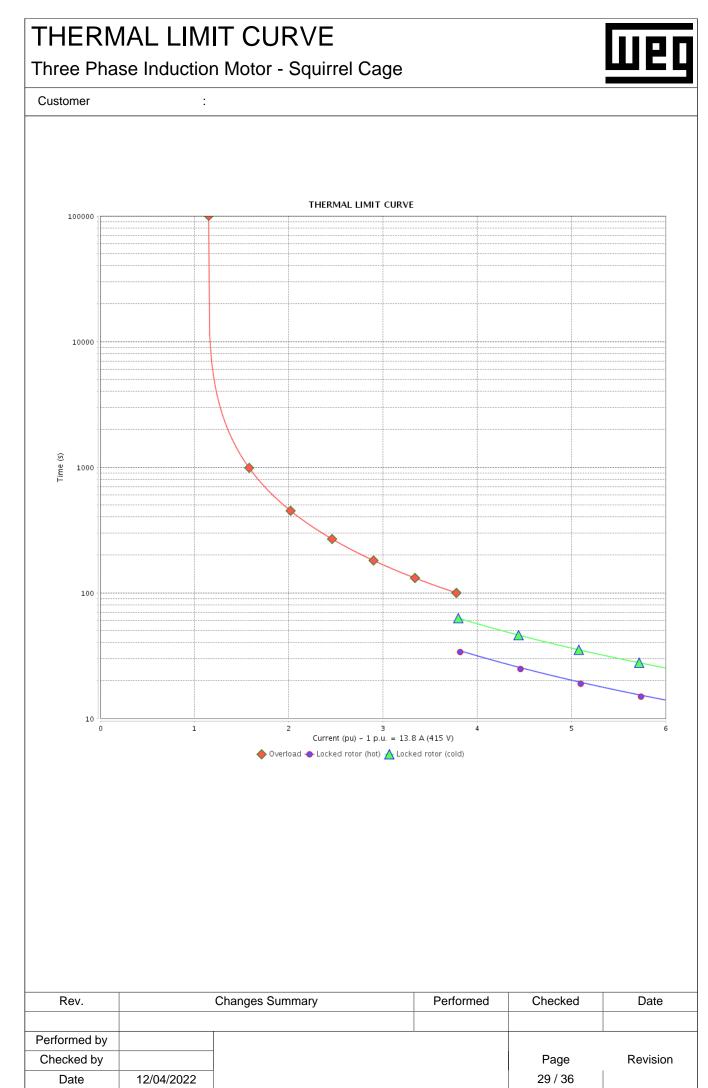
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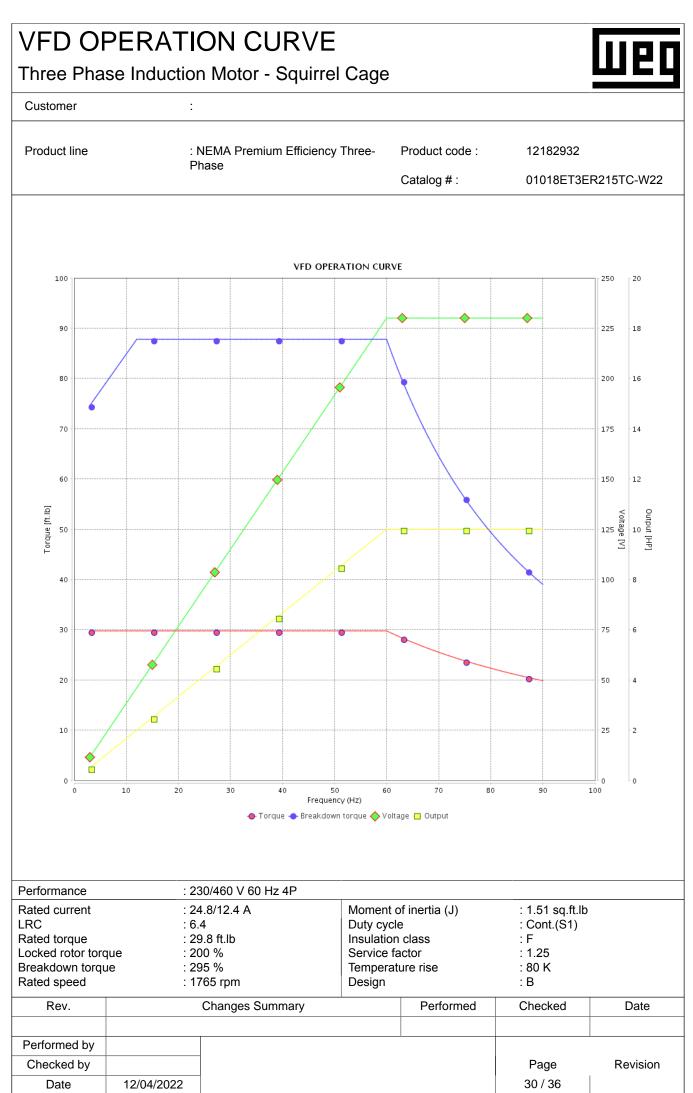
Phase

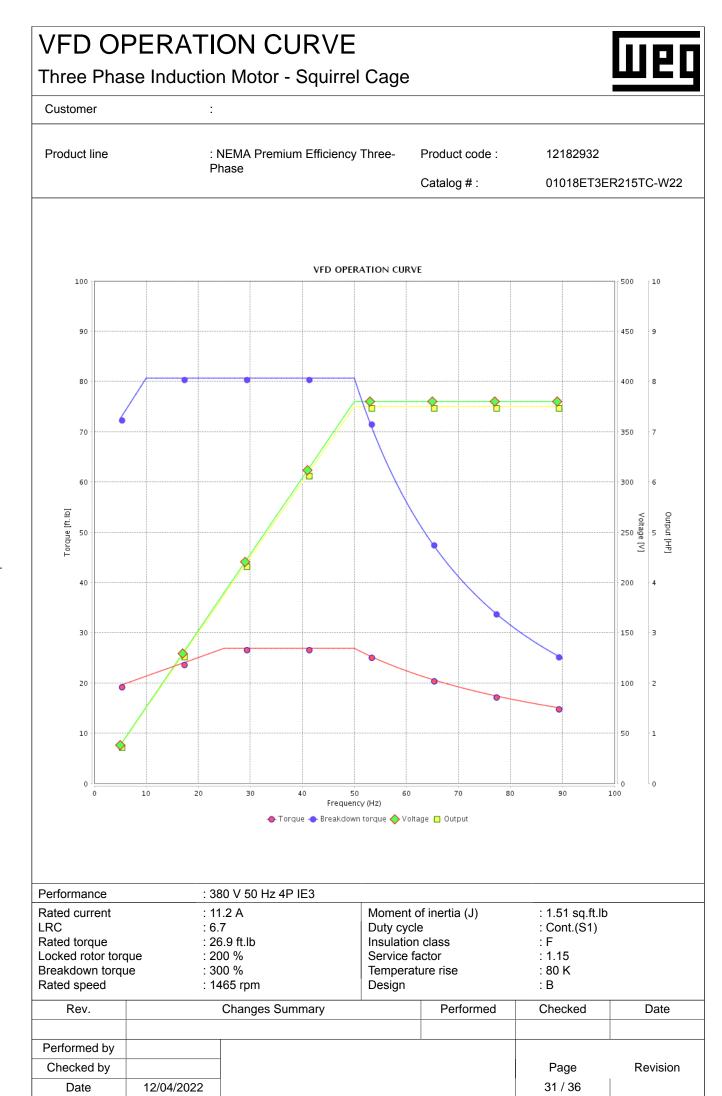
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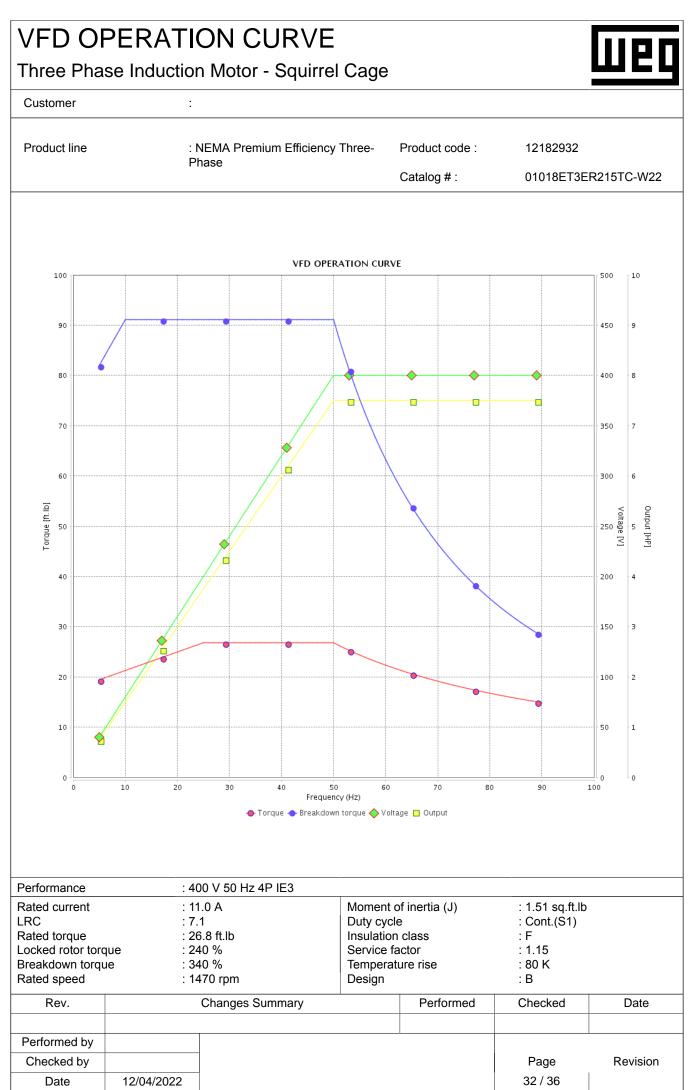
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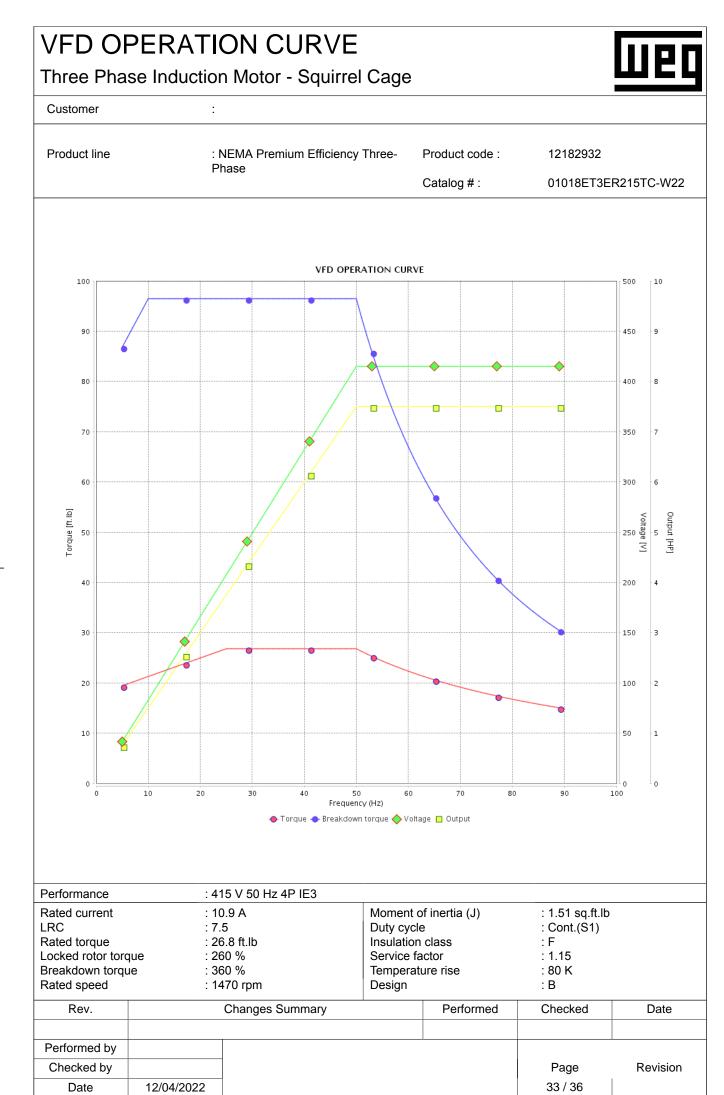
Performance	: 4	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		3.8 A 3.0 36.0 ft.lb 190 % 270 % 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
		400 1011	Design		. D	
Heating constant Cooling constant						
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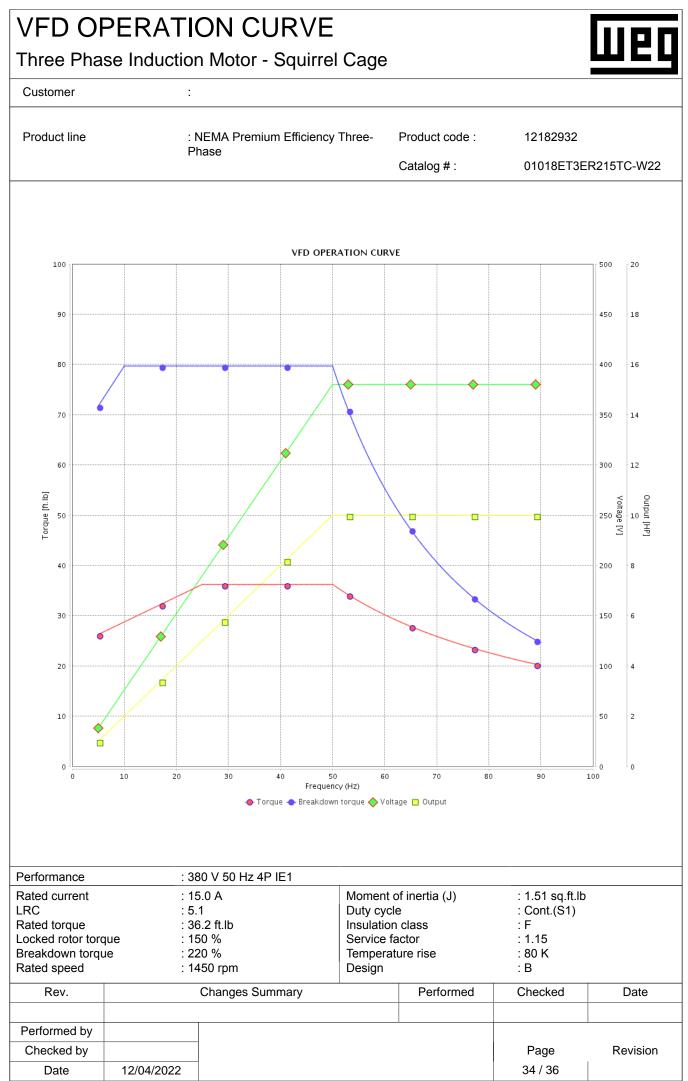


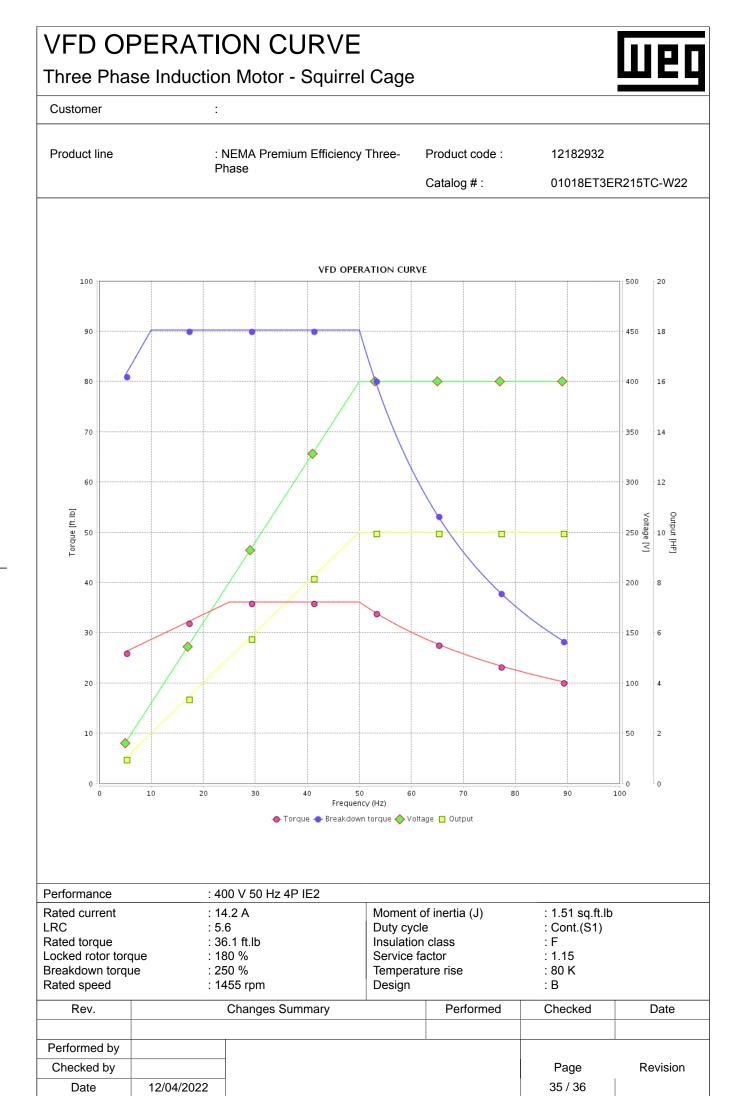


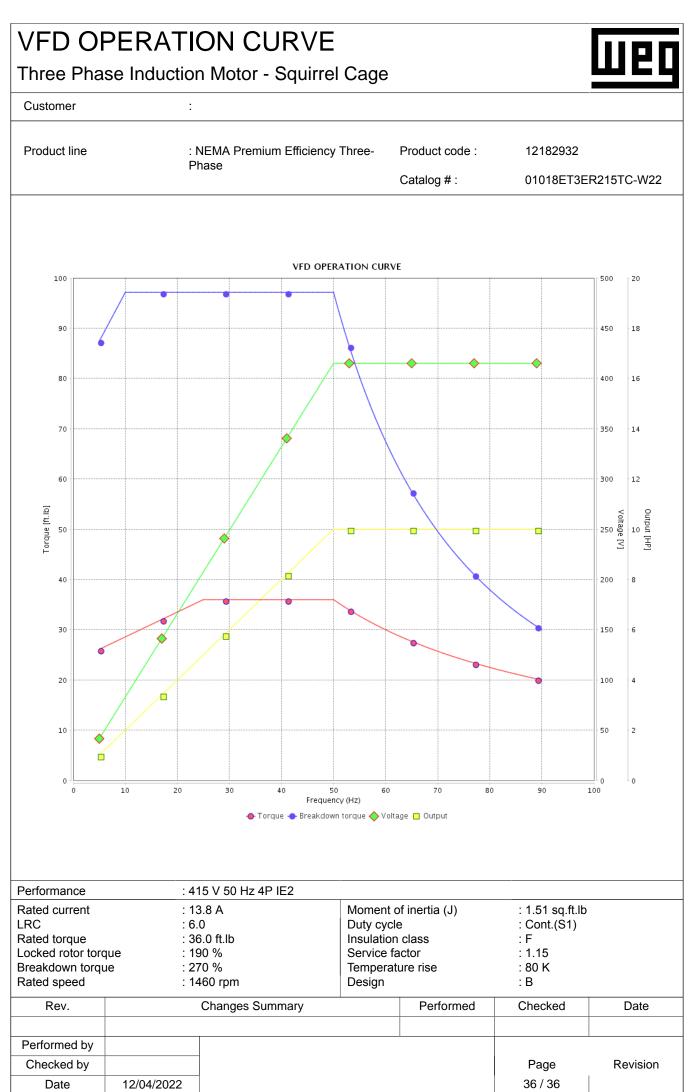


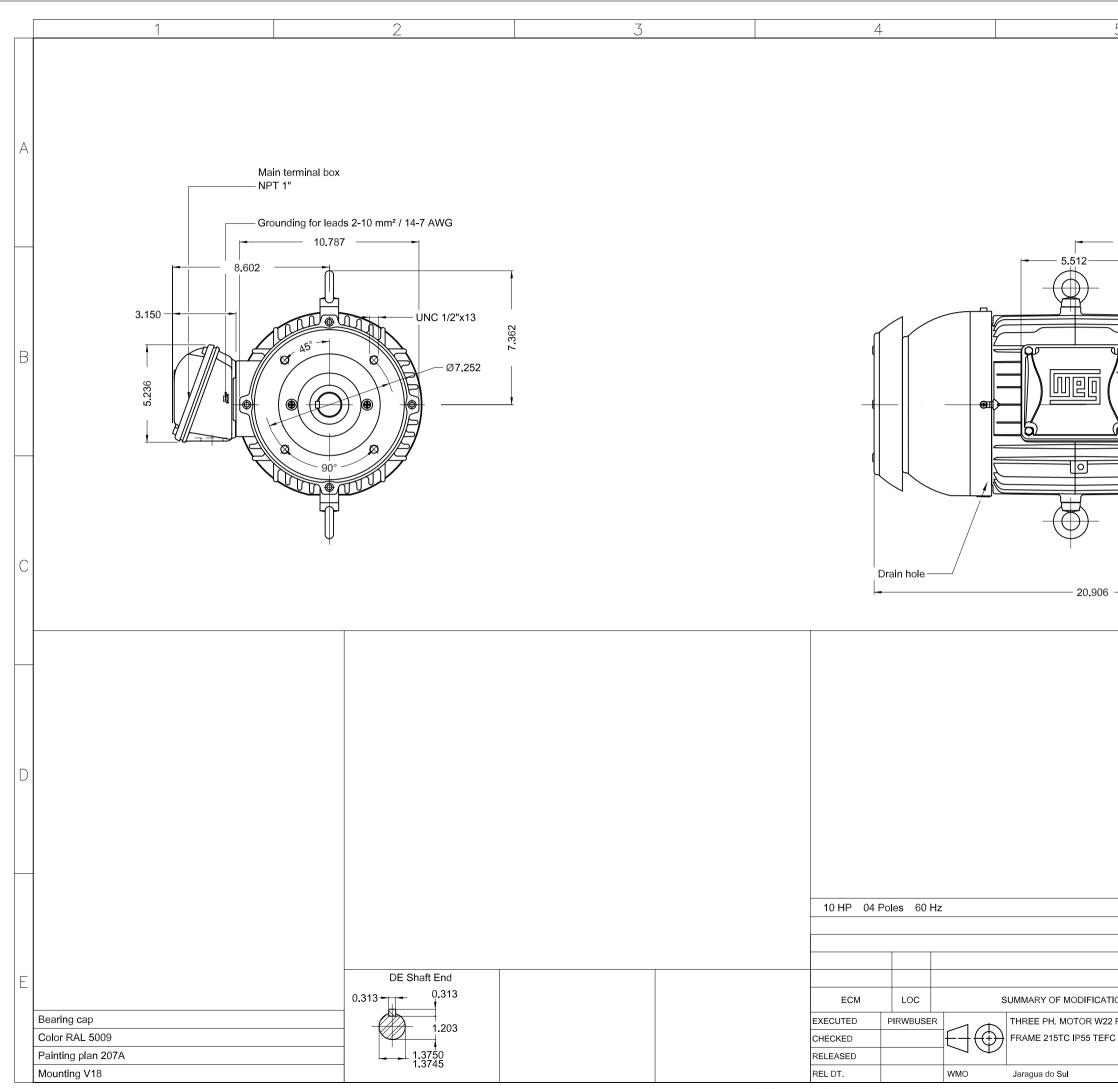












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