DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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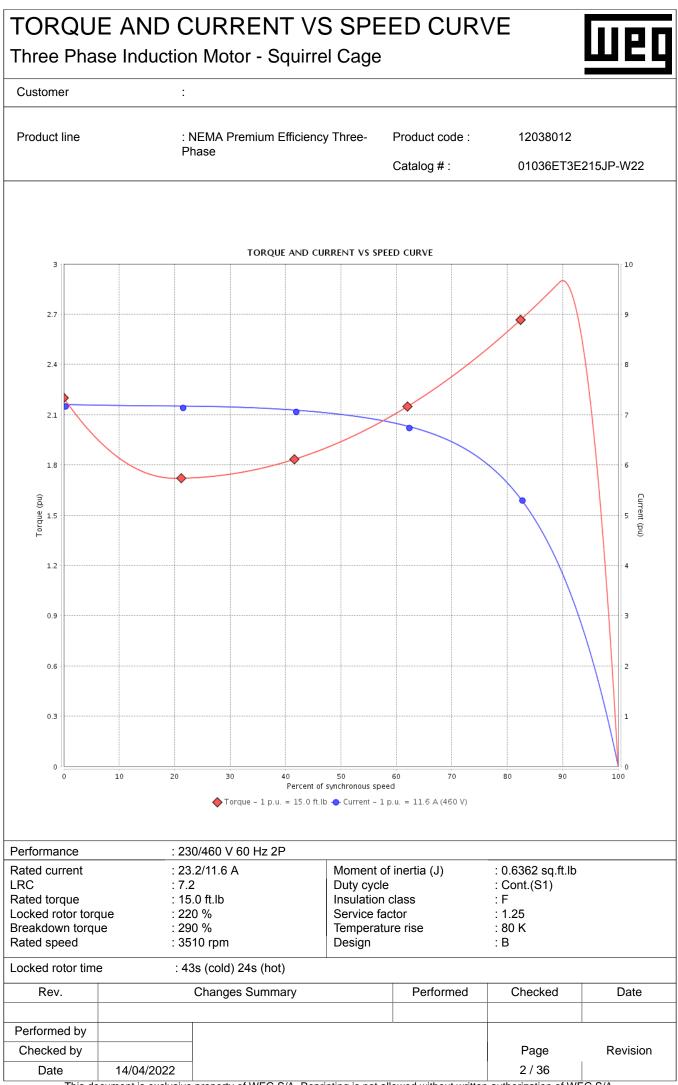


Product line		: NEMA Pre Phase	mium Efficier	icy Three-	Product code	e: 12	038012	
		Phase			Catalog # :	01	036ET3E215	JP-W22
Frame		: 213/5JP			g method	: 10	C411 - TEFC	
Insulation class		: F		Mount		: F	-	
Duty cycle		: Cont.(S1)		Rotatio			oth (CW and	
Ambient tempera	ature	: -20°C to +			g method		irect On Line	:
Altitude		: 1000 m.a.	s.l.		k. weight ³		70 lb	
Protection degre	е	: IP55		Mome	nt of inertia (J)	:0	.6362 sq.ft.lb	
Design		: B						
Dutput [HP]		10	7.5	7.5	7.5	10	10	10
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A] R. Amperes [A]		23.2/11.6 167/83.5	10.4 77.0	10.1 84.8	9.91 90.2	14.1 79.0	13.4 85.8	13.1 90.4
_RC [A]					90.2 9.1x(Code K)			90.4 6.9x(Code
		7.2x(Code 11)	7.4X(COUC II)	0.47(Code J)	9. IX(COUE IX)	5.0x(Code I)	G)	0.37(COUC
No load current [A		6.80/3.40	3.40	3.70	3.90	3.40	3.70	3.90
Rated speed [RPN	И]	3510	2925	2935	2940	2870	2890	2900
Slip [%]		2.50	2.50	2.17	2.00	4.33	3.67	3.33
Rated torque [ft.lb]		15.0	13.5	13.4	13.4	18.3	18.2	18.1
_ocked rotor torqu		220	240	270	290	170	200	220
Breakdown torque	e [%]	290	300	340	360	220	250	270
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
_ocked rotor time		43s (cold) 24s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²		68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A
	25%	89.3	88.4	88.2	87.2	90.1	90.1	90.2
Efficiency (%)	50%	89.5	88.6	88.4	87.7	89.5	89.5	89.5
Elliciency (%)	75%	90.2	89.6	89.6	89.5	89.5	89.5	89.5
	100%	90.2	89.5	89.5	89.8	88.5	88.5	88.5
	25%	0.54	0.51	0.47	0.45	0.60	0.56	0.54
Power Factor	50% 75%	0.79	0.75	0.72	0.70	0.83	0.81	0.79
	100%	0.87	0.86 0.90	0.83 0.88	0.82	0.90 0.91	0.88	0.87
	100%	1		1		0.91	0.91	0.90
Pooring type		<u>Drive end</u> : 6309 Z C		77	ation loads			
Bearing type				INIGA. UT			91 lb	
Sealing Lubrication interv	v al	: V'Ring : 19000 h	V'Rin 40000	• I	ompression	. 30	60 lb	
		: 13 g	0 9 0000 0 g	, II				
L Unricant amoun	n.		I Polyrex EM					
Lubricant amoun Lubricant type								
Lubricant type								
Lubricant type Notes	25 7A SF 1							
Lubricant type Notes	25.7A SF 1.							
	25.7A SF 1.							
Lubricant type Notes USABLE @208V		15 SFA 29.5A		These :	are average v	alues based o	n tests with s	inusoidal
Lubricant type Notes USABLE @208V This revision repla	aces and car	15 SFA 29.5A			are average va			
Lubricant type Notes USABLE @208V This revision repla must be eliminate	aces and car	15 SFA 29.5A			are average va supply, subjec			
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m	aces and car ed. lotor from the	15 SFA 29.5A ncel the previo e shaft end.	us one, which	power s				
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate	aces and car ed. lotor from the Im and with t weight subject	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3	us one, which 8dB(A).	power s				
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and car ed. lotor from the Im and with t weight subject occess.	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3	us one, which 8dB(A).	power s				
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v	aces and car ed. lotor from the Im and with t weight subject occess.	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which 8dB(A).	power s		t to the tolerar		
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and car ed. lotor from the Im and with t weight subject occess.	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which 8dB(A). after	power s	supply, subjec	t to the tolerar	nces stipulate	d in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and car ed. lotor from the Im and with t weight subject occess.	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which 8dB(A). after	power s	supply, subjec	t to the tolerar	nces stipulate	d in NEMA
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. lotor from the Im and with t weight subject occess.	15 SFA 29.5A ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which 8dB(A). after	power s	supply, subjec	t to the tolerar	nces stipulate	d in NEMA

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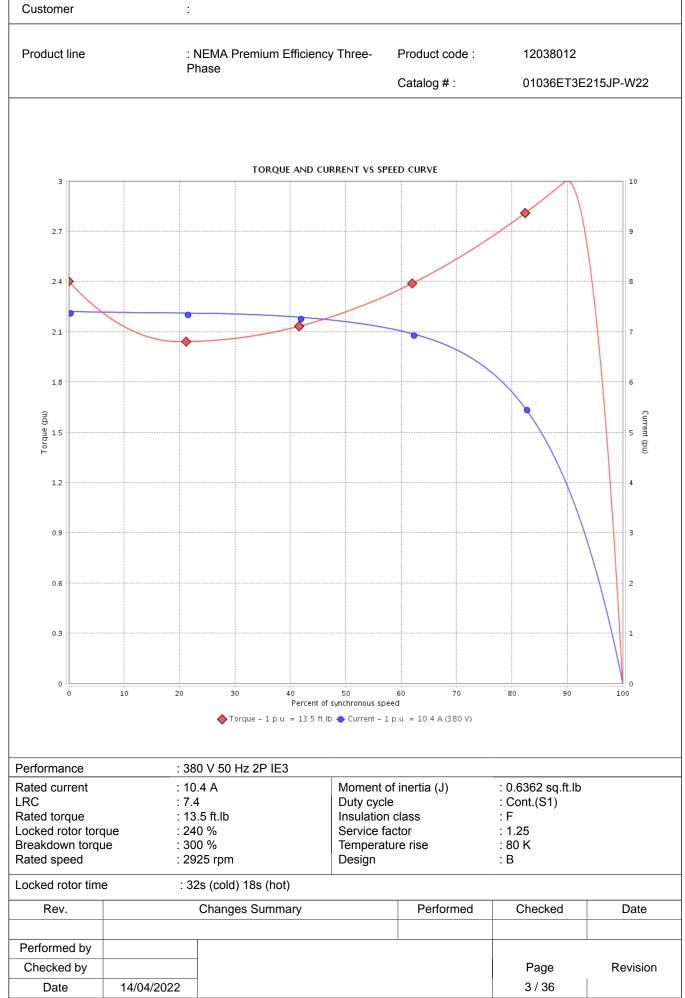
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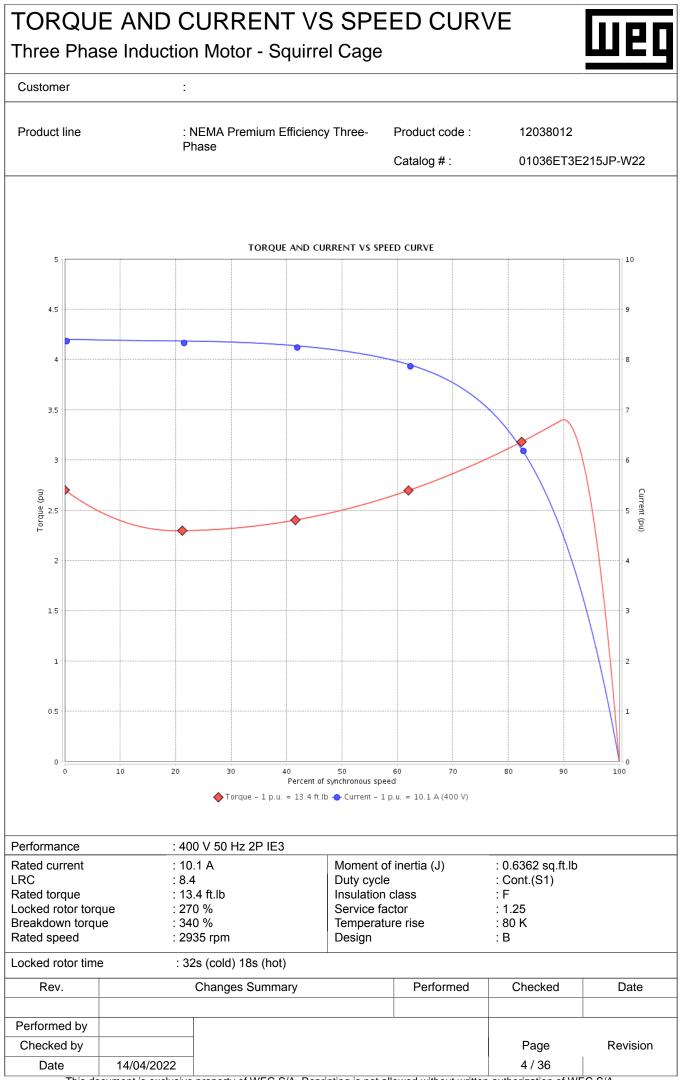


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



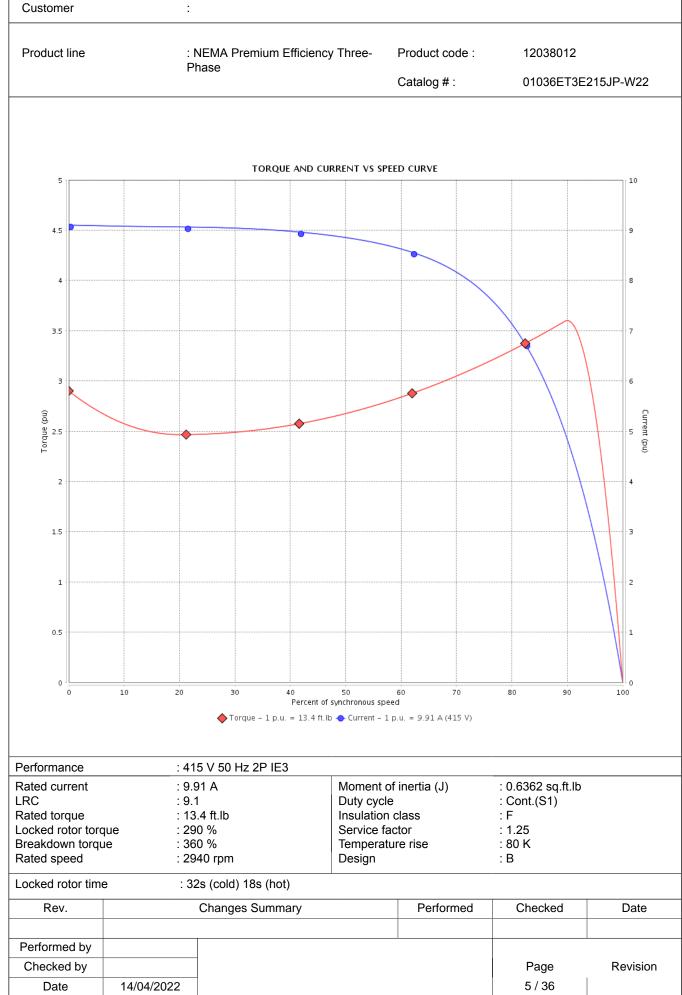
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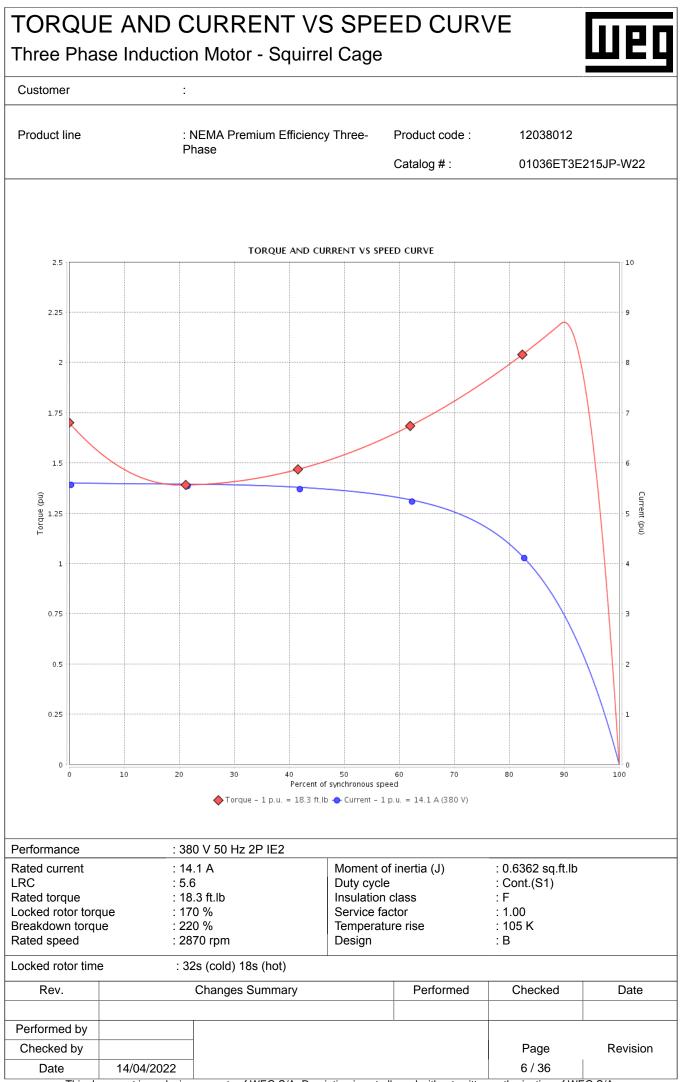
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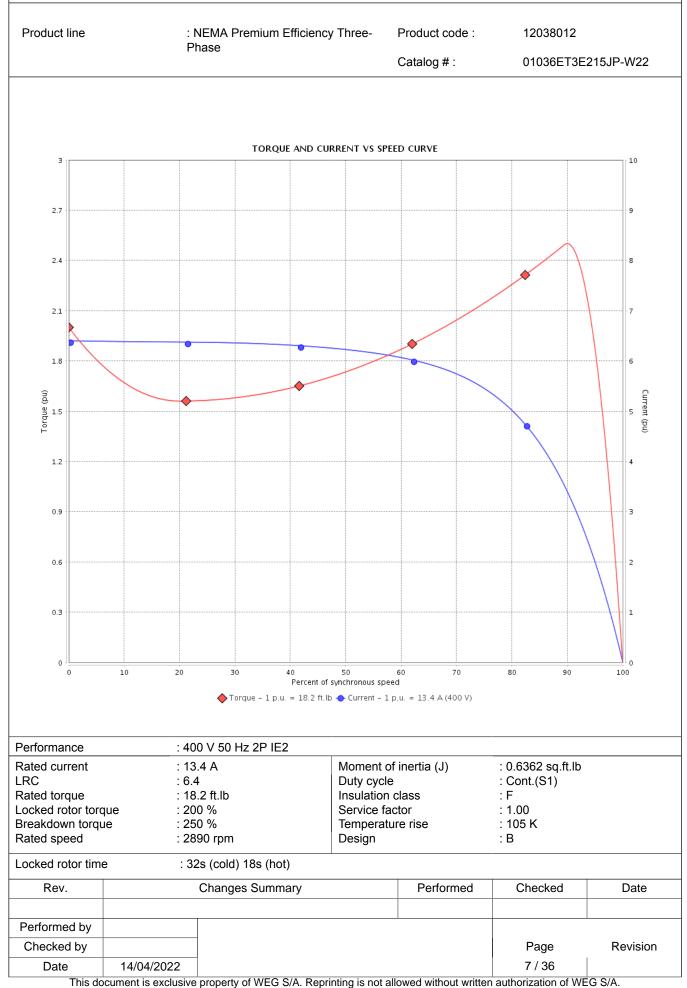
TORQUE AND CURRENT VS SPEED CURVE

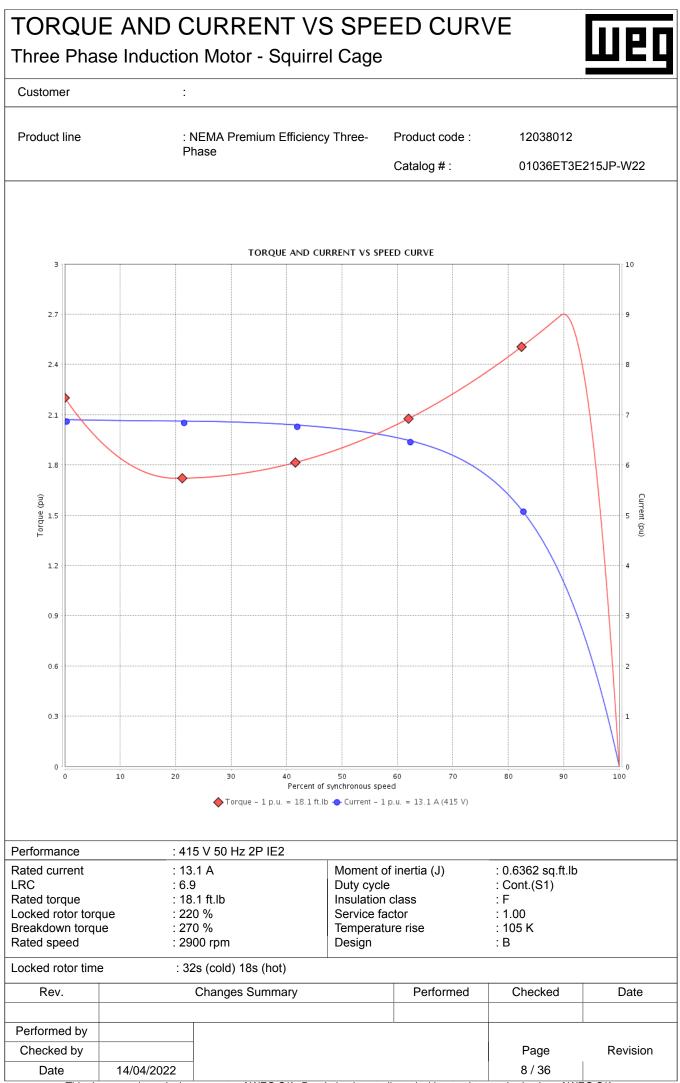
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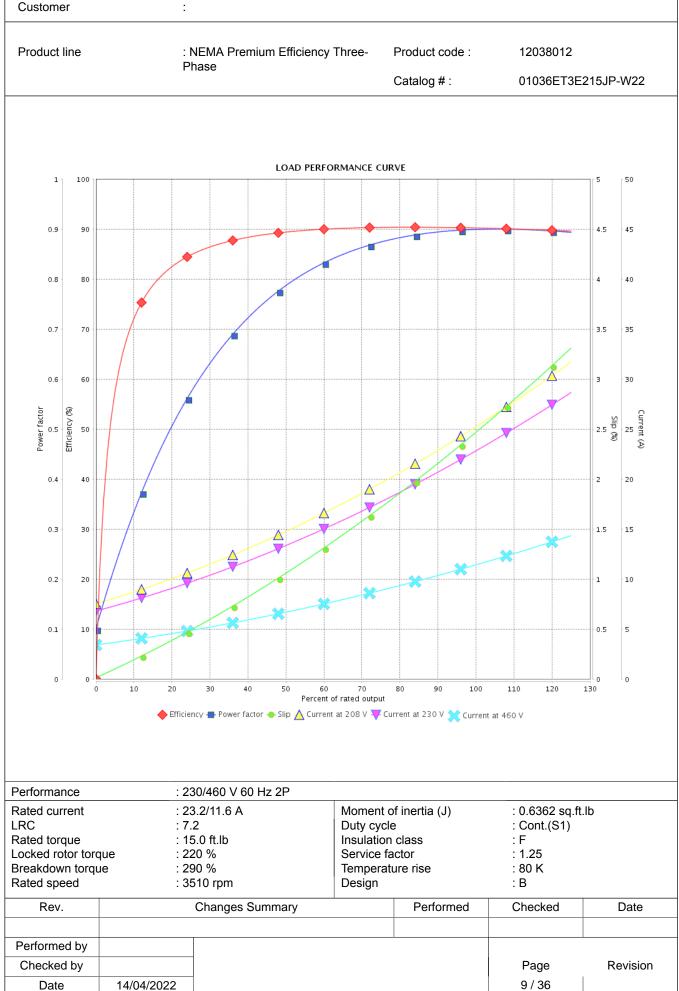






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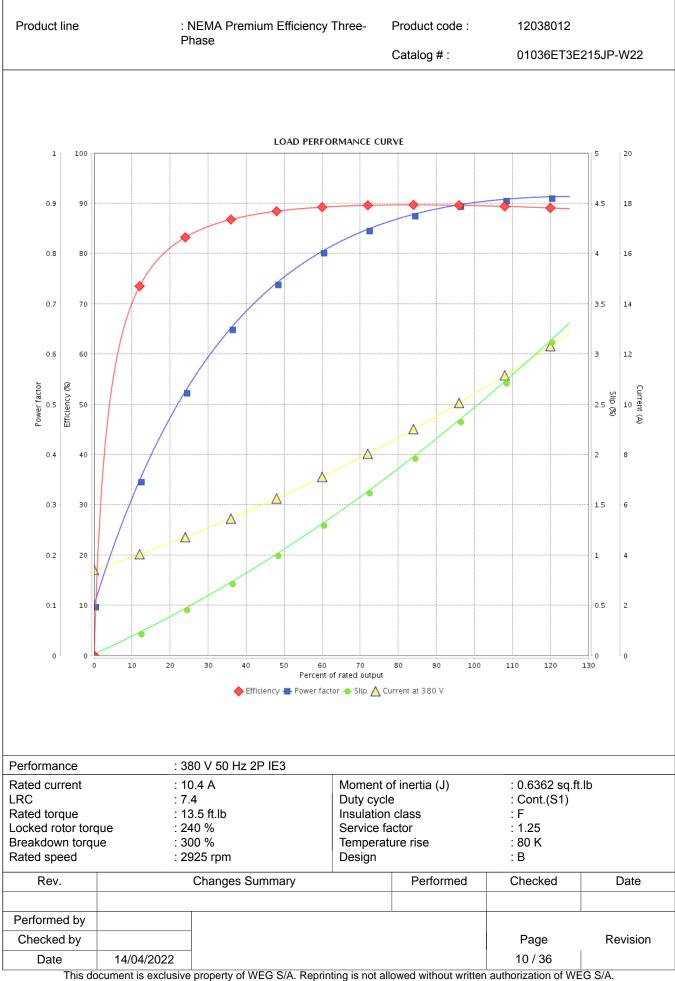
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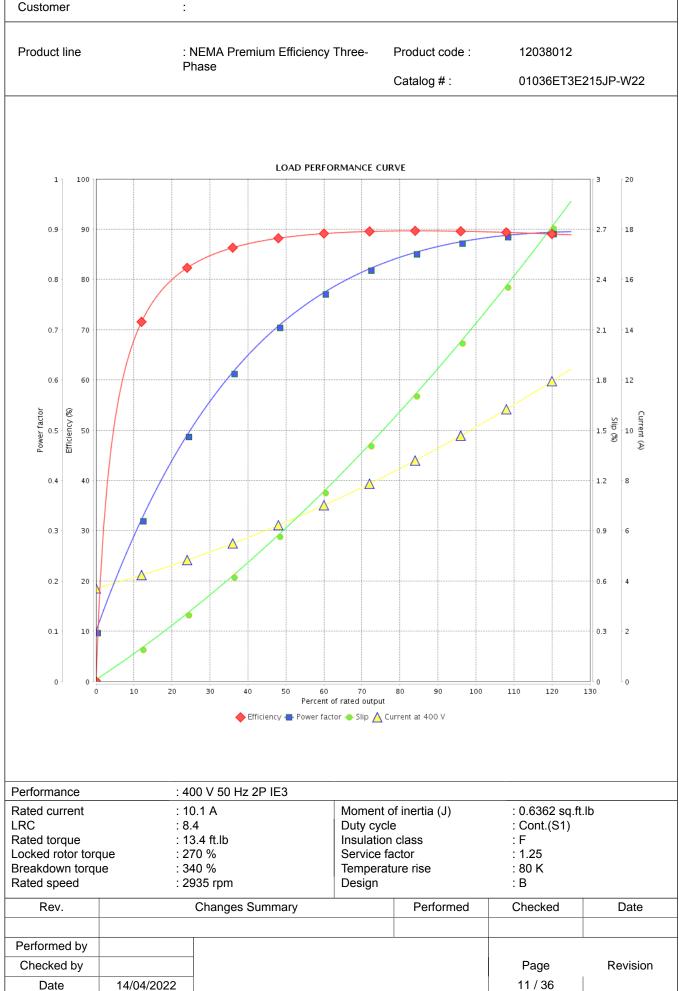


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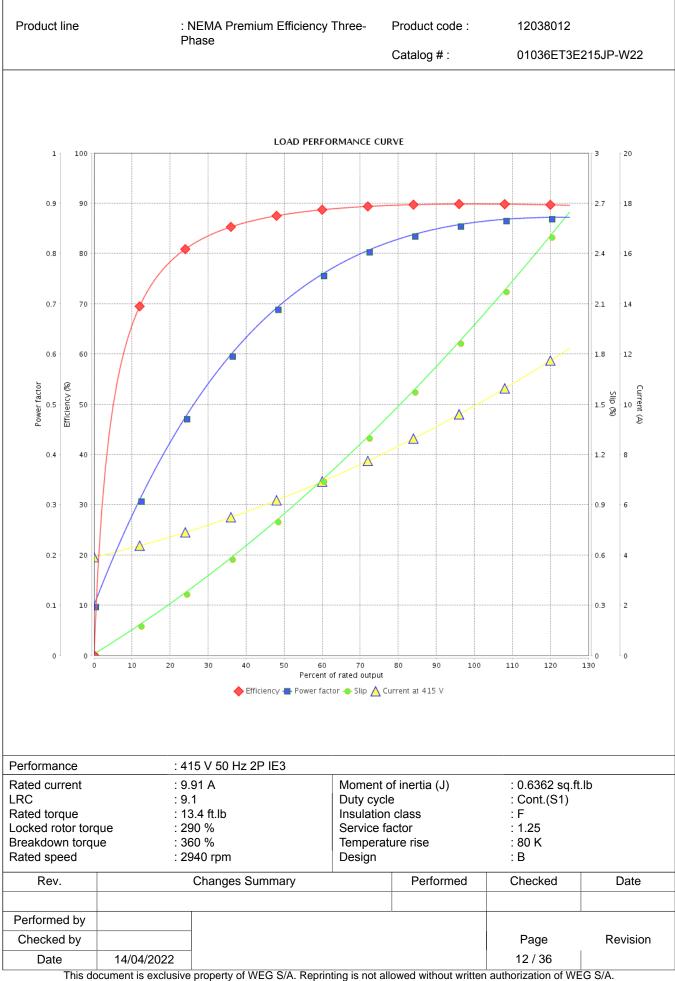
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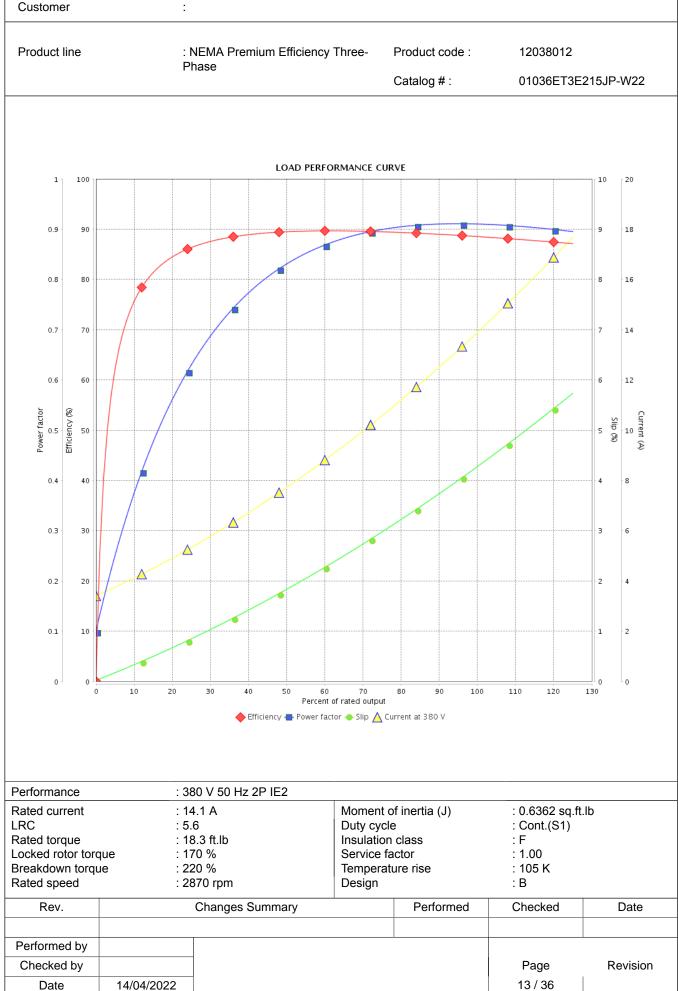


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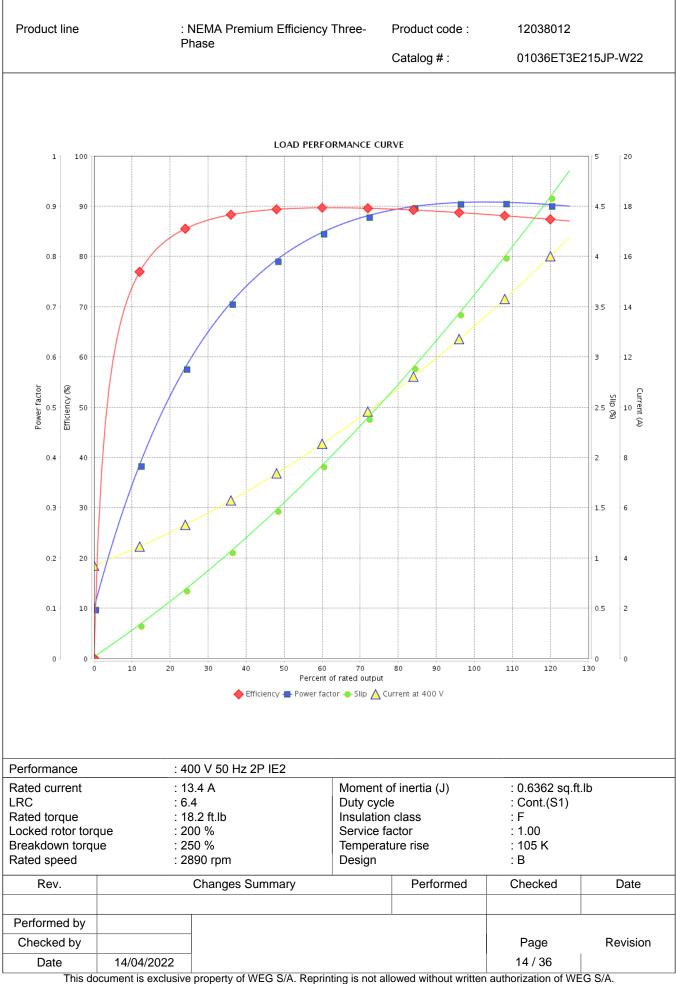
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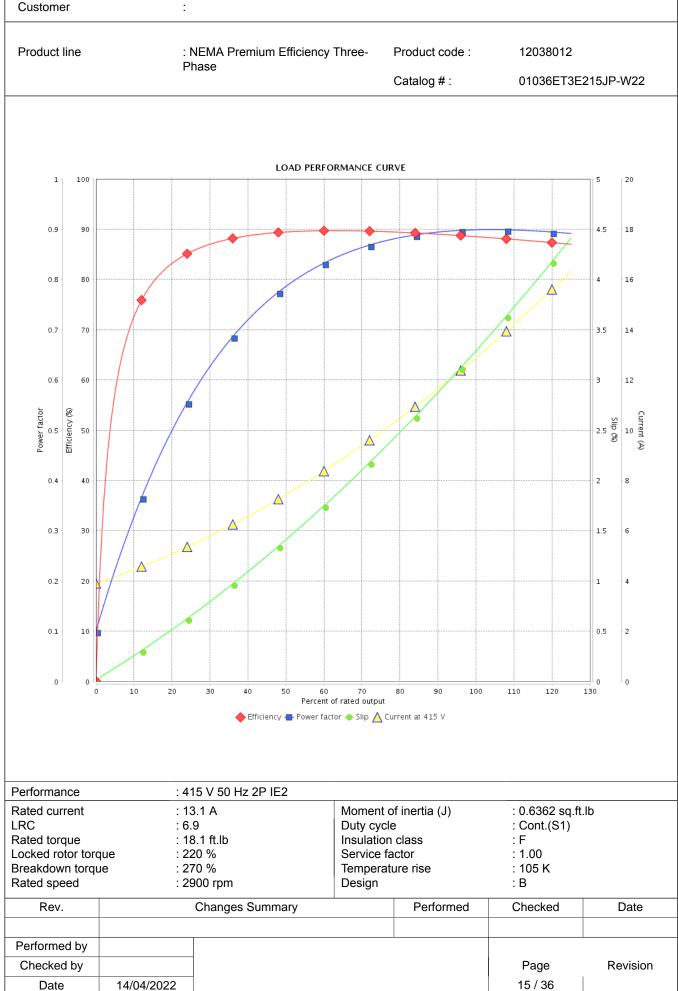


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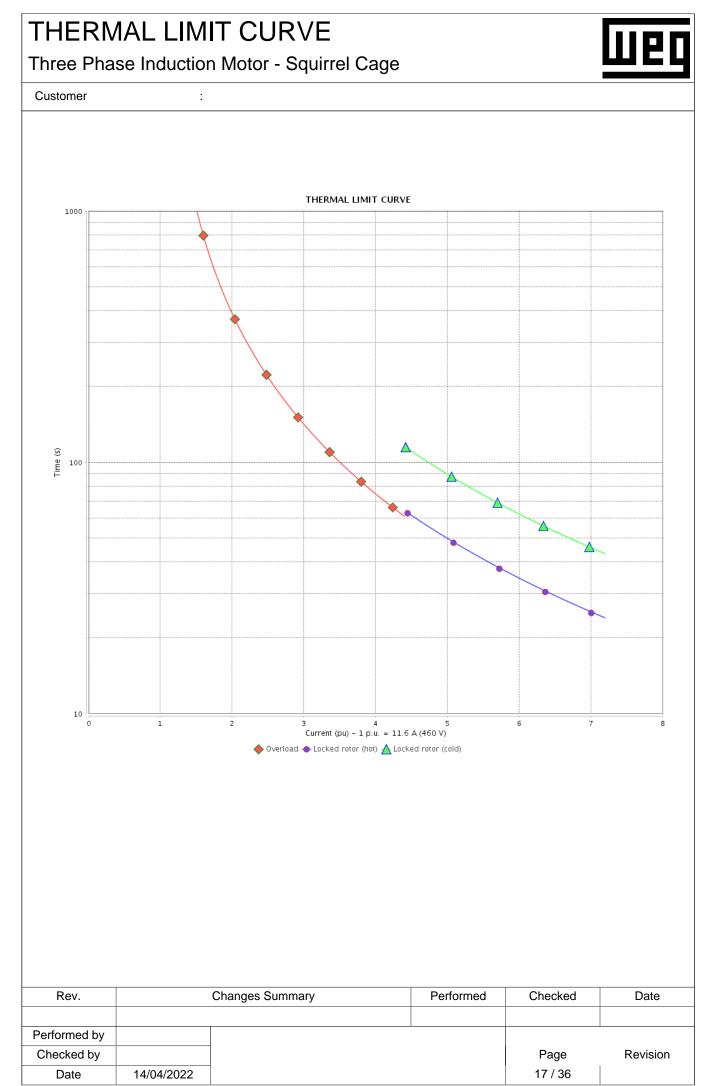
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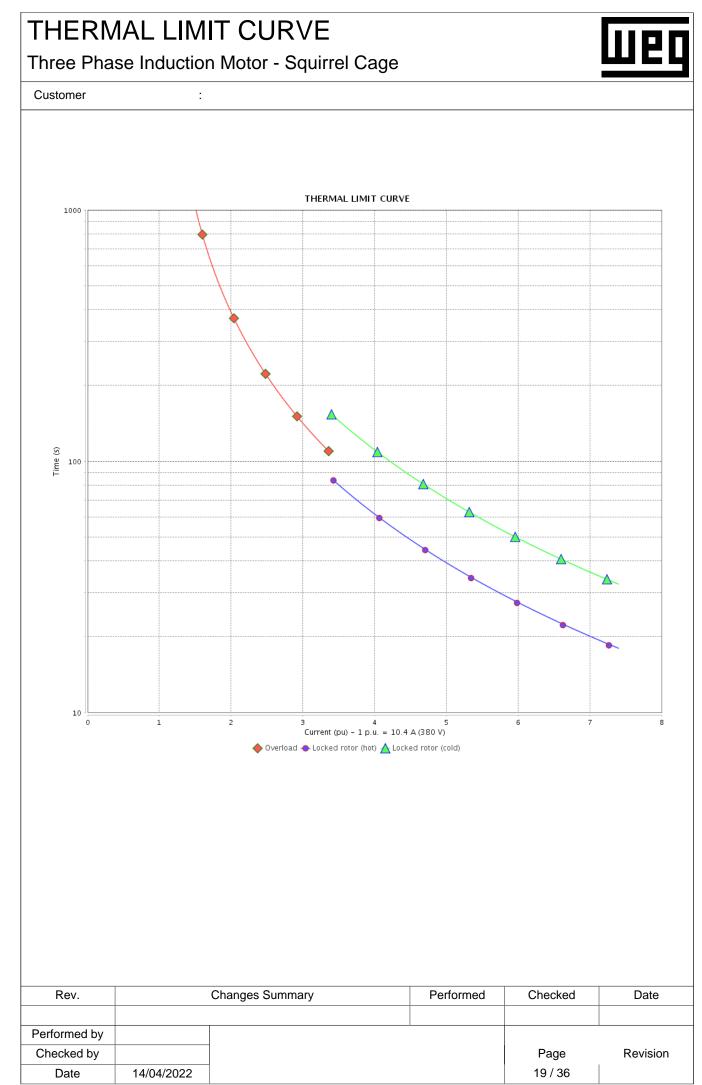
ustomer	:	9	
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12038012 01036ET3E215JP-W22

Performance	: 2	230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7.2Duty cyclee: 15.0 ft.lbInsulation classr torque: 220 %Service factortorque: 290 %Temperature rise		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Heating constant	t			·	
Cooling constant	t				
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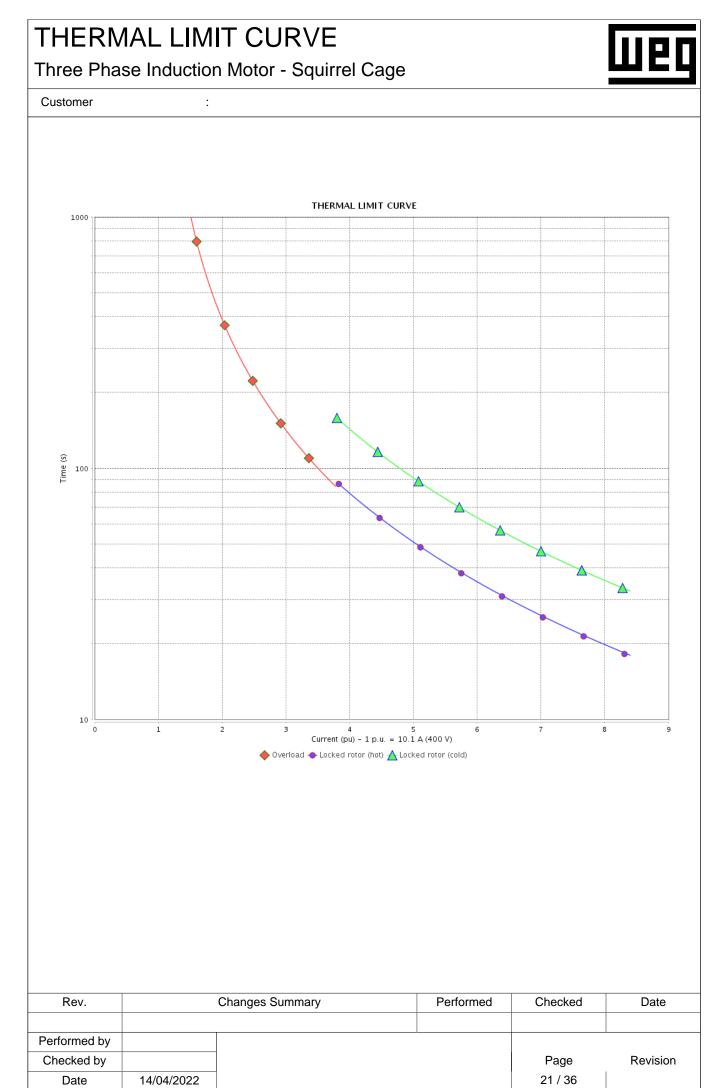
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12038012
		Catalog # :	01036ET3E215JP-W22

Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 3	0.4 A .4 3.5 ft.lb 40 % 00 % 925 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
Heating constant	t					
Cooling constant	t					
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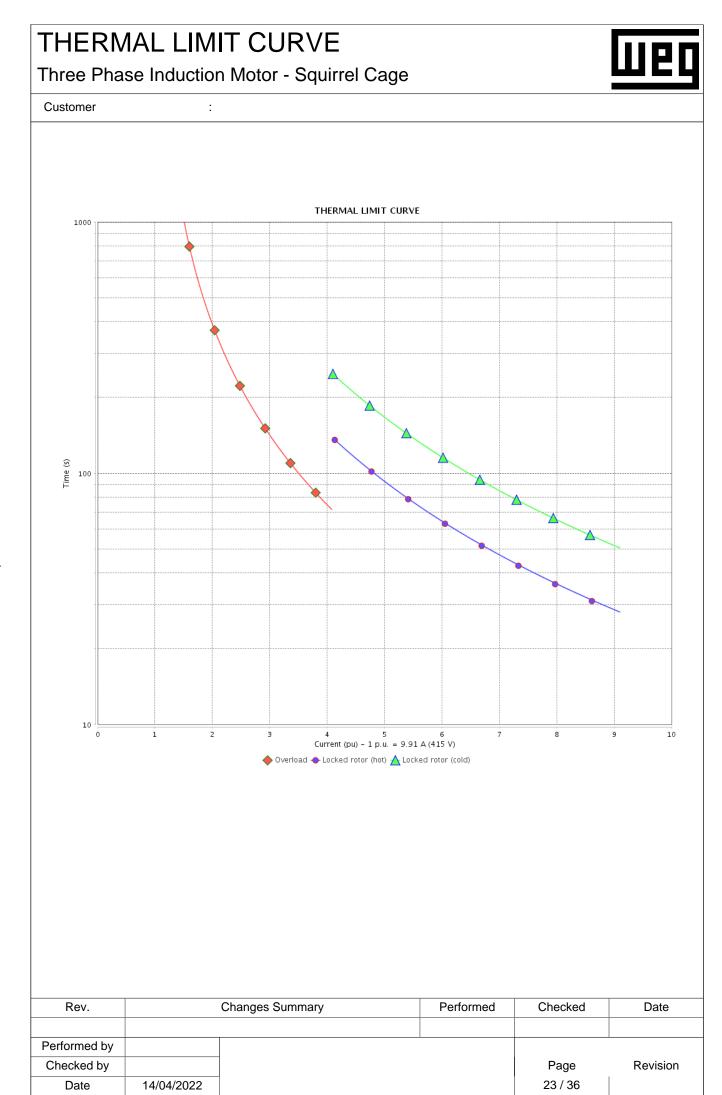
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12038012
	1 11436	Catalog # :	01036ET3E215JP-W22

Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 10	0.1 A	Moment o	f inertia (J)	: 0.6362 sq.ft	.lb
LRC	: 8.	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 13	3.4 ft.lb	Insulation	class	: F	
Locked rotor torc	que : 27	70 %	Service fa	ctor	: 1.25	
Breakdown torqu	ue : 34	40 %	Temperati	ure rise	: 80 K	
Rated speed	: 29	935 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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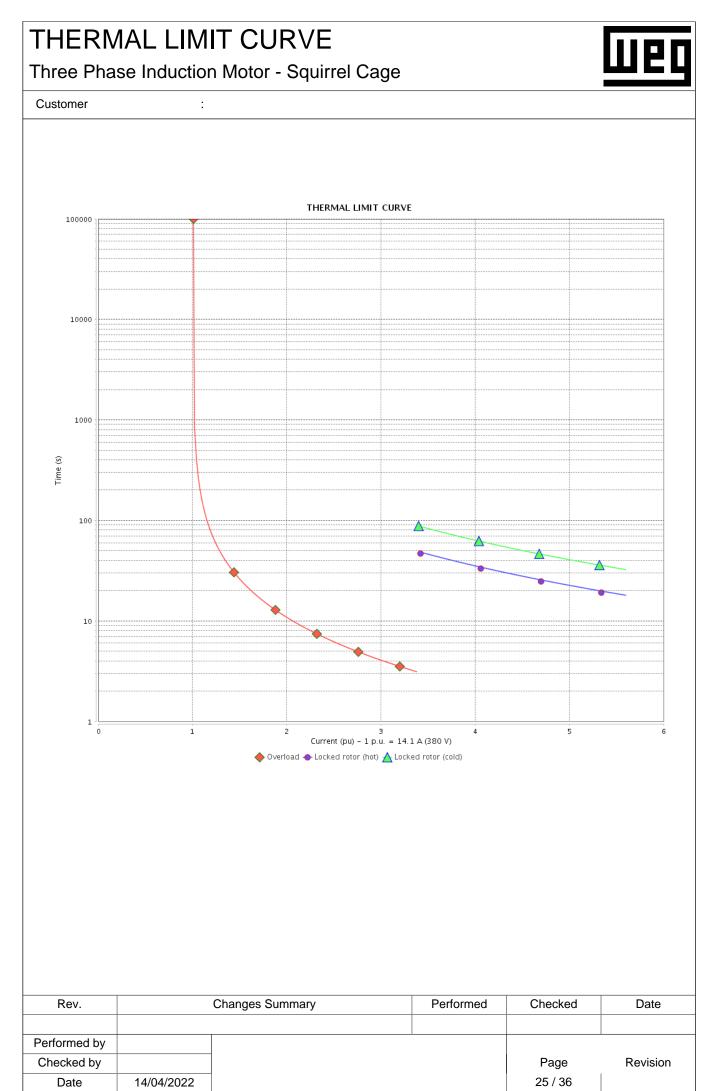
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12038012 01036ET3E215JP-W22

Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 9 : 1 que : 2 ue : 3	.91 A .1 3.4 ft.lb 90 % 60 % 940 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant	t					
Cooling constant	t					
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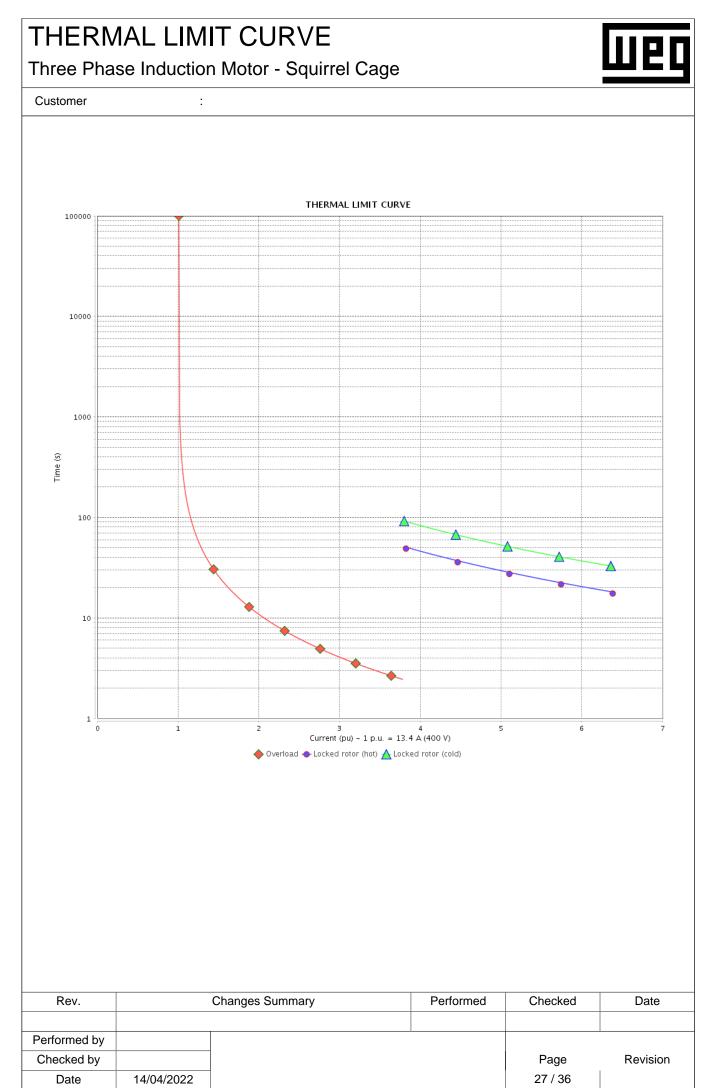
hree Phase In	LIMIT CURVE duction Motor - Squirrel Cage	9	ше
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12038012
	Phase	Catalog # :	01036ET3E215JP-W22

Performance	: 3	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 1 que : 1 Je : 2	4.1 A 6.6 8.3 ft.lb 70 % 220 % 870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan	t					
Cooling constant	t					
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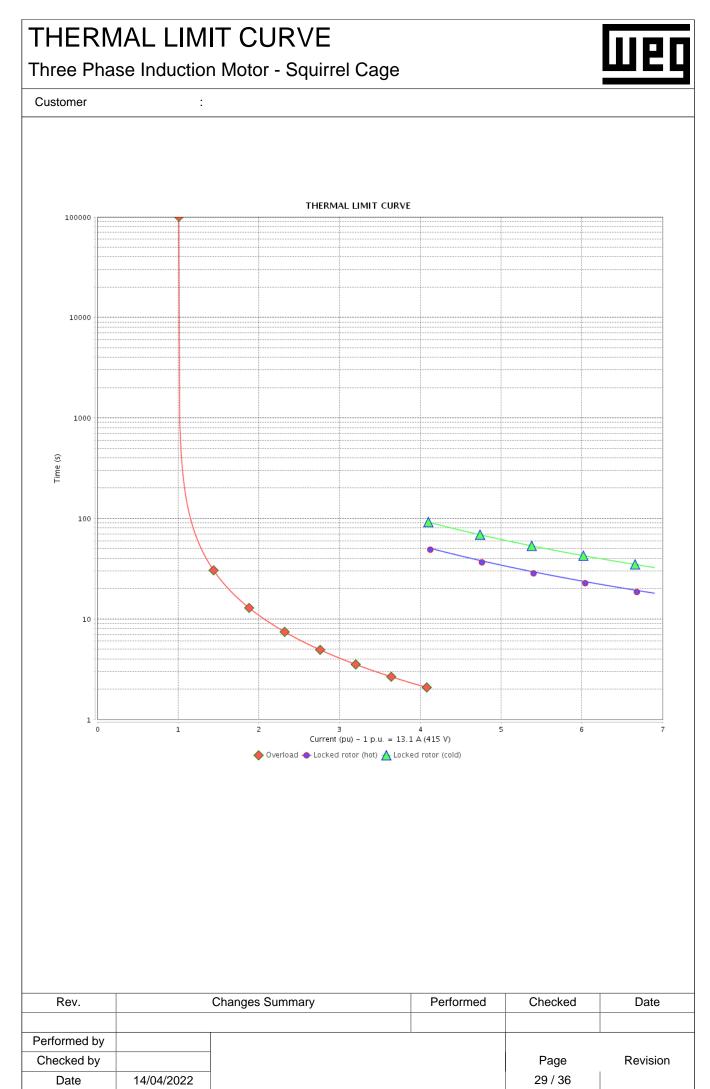
	luction Motor - Squirrel Cage	<u>}</u>	Ше
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12038012
	Phase	Catalog # :	01036ET3E215JP-W22

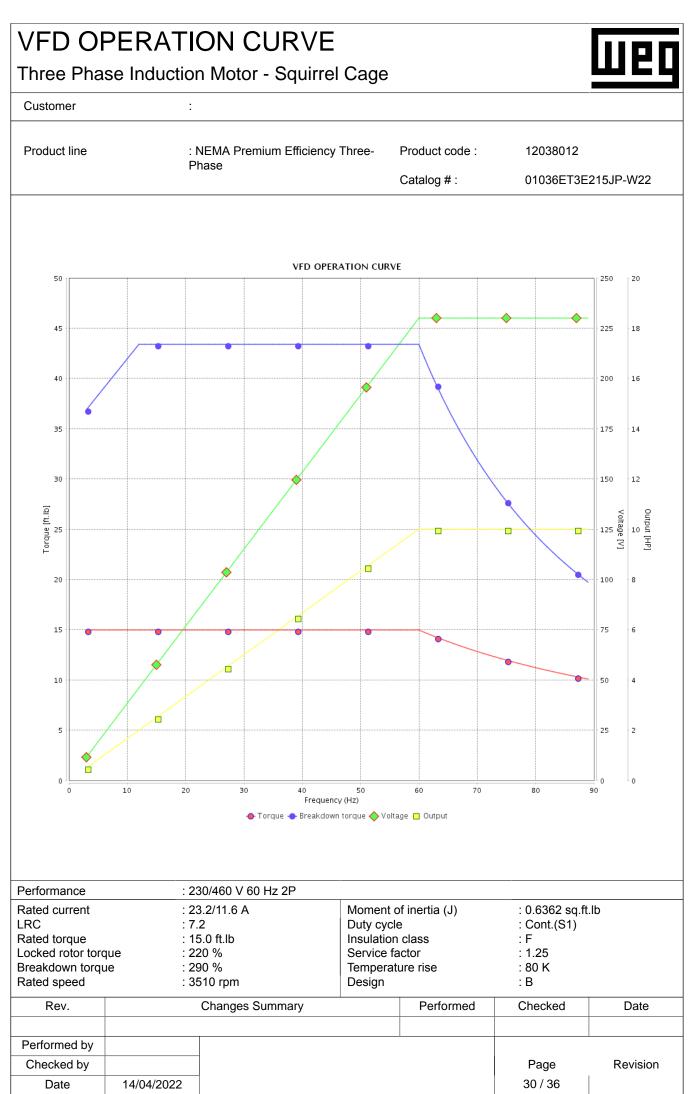
Performance : 400 V 50 Hz 2P IE2		00 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		3.4 A .4 8.2 ft.lb 00 % 50 % 890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant	t						
Cooling constant	t						
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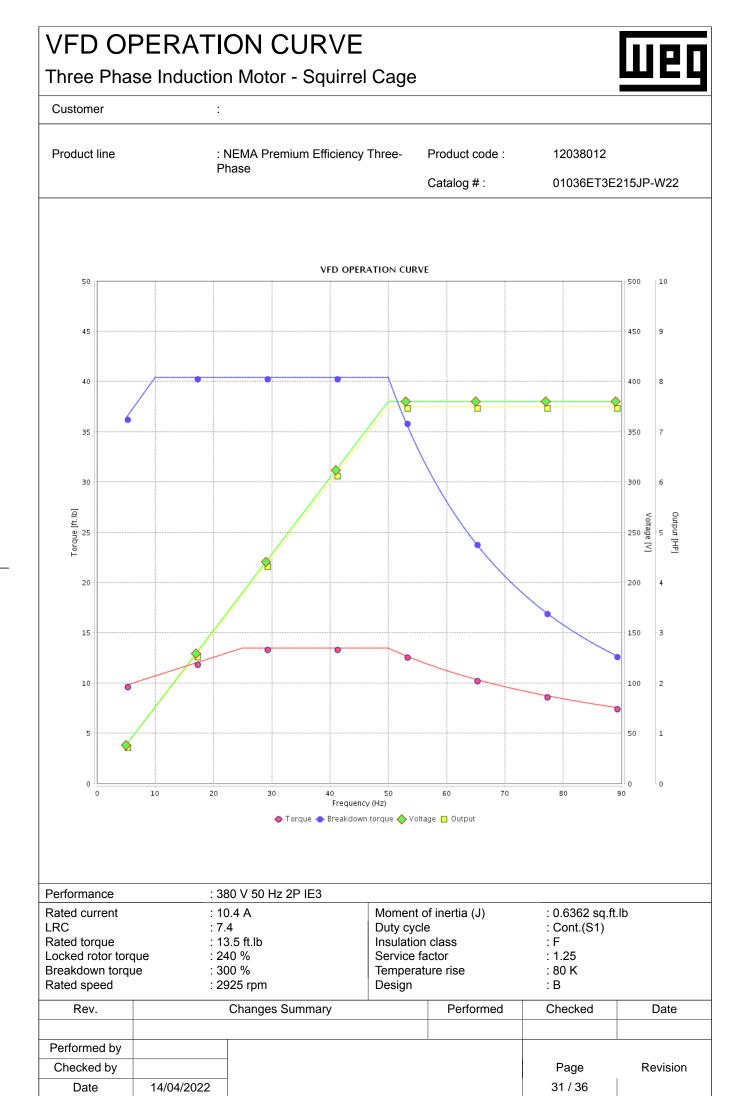
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage					
Customer	· · · · ·				
Product line	: NEMA Premium Efficiency Three-	Product code :	12038012		
	Phase	Catalog # :	01036ET3E215JP-W22		

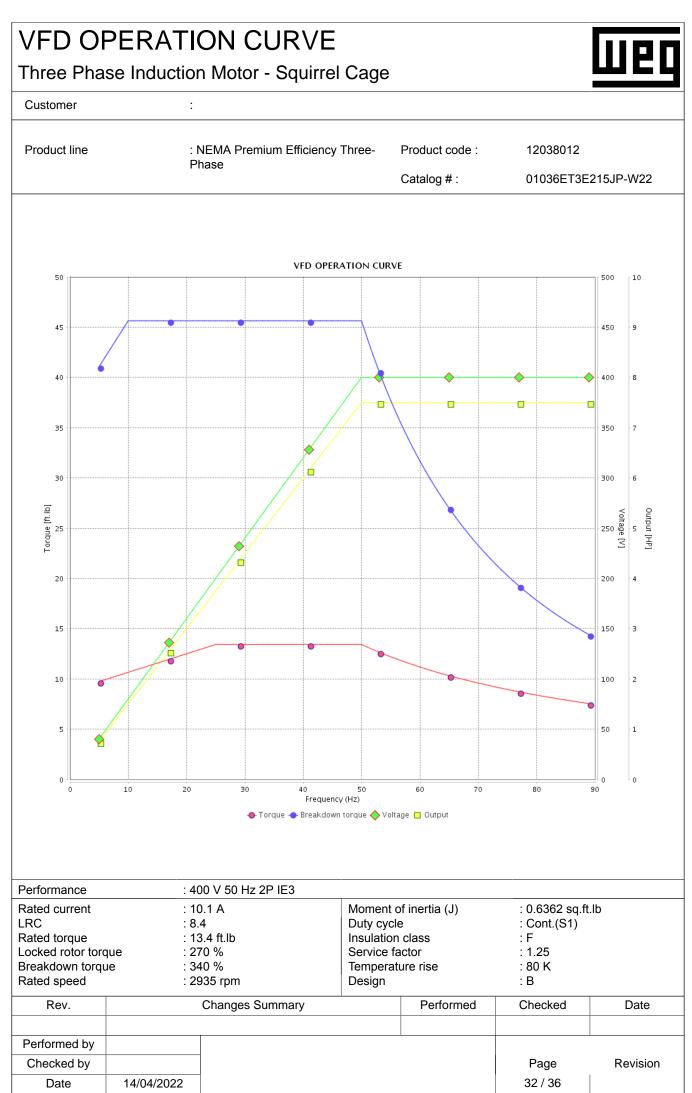
Performance : 415 V 50 Hz 2P IE2		15 V 50 Hz 2P IE2				
LRC : Rated torque : Locked rotor torque : Breakdown torque :		3.1 A 5.9 8.1 ft.lb 220 % 270 % 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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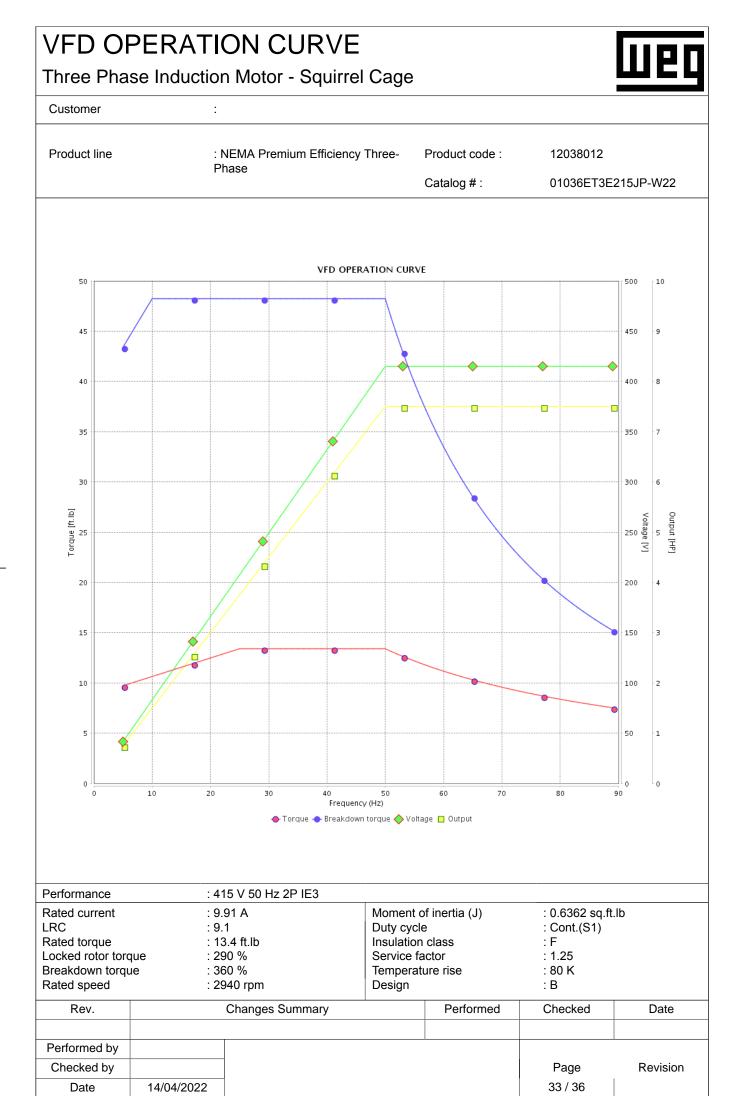


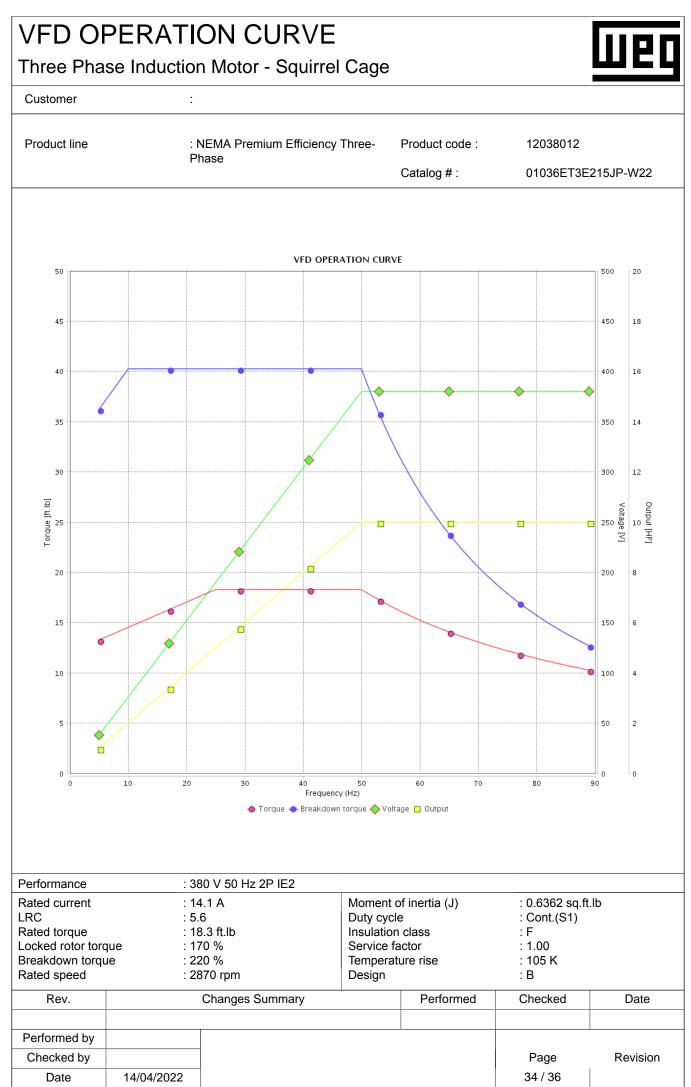


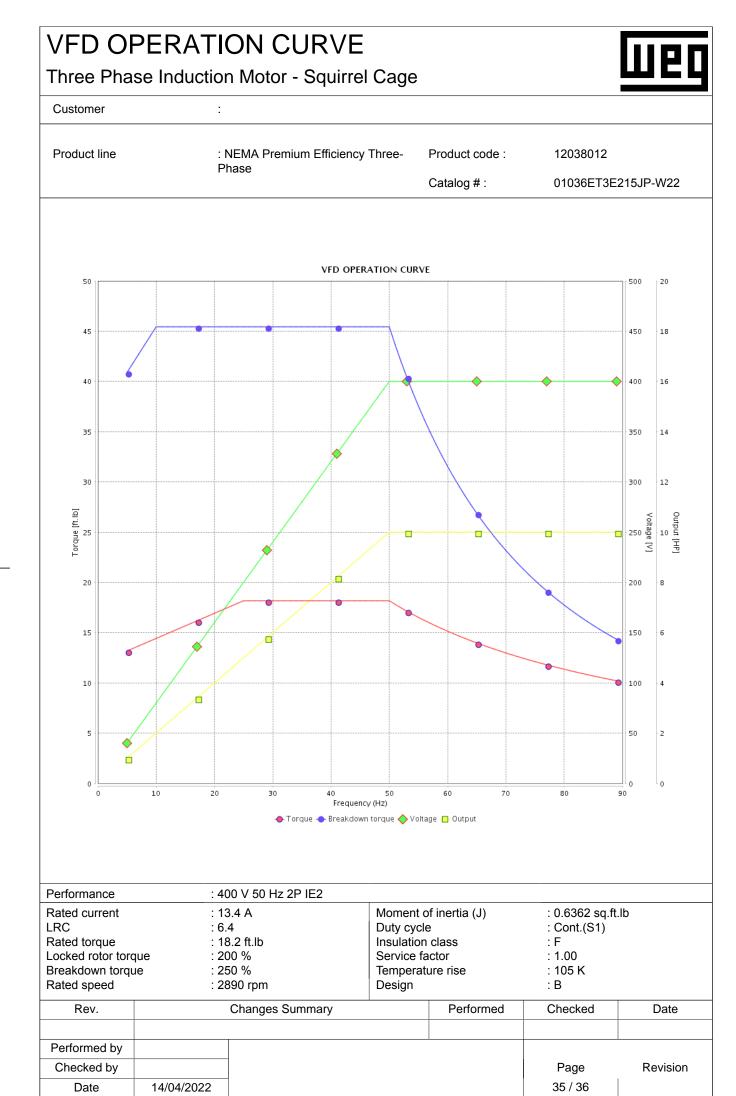
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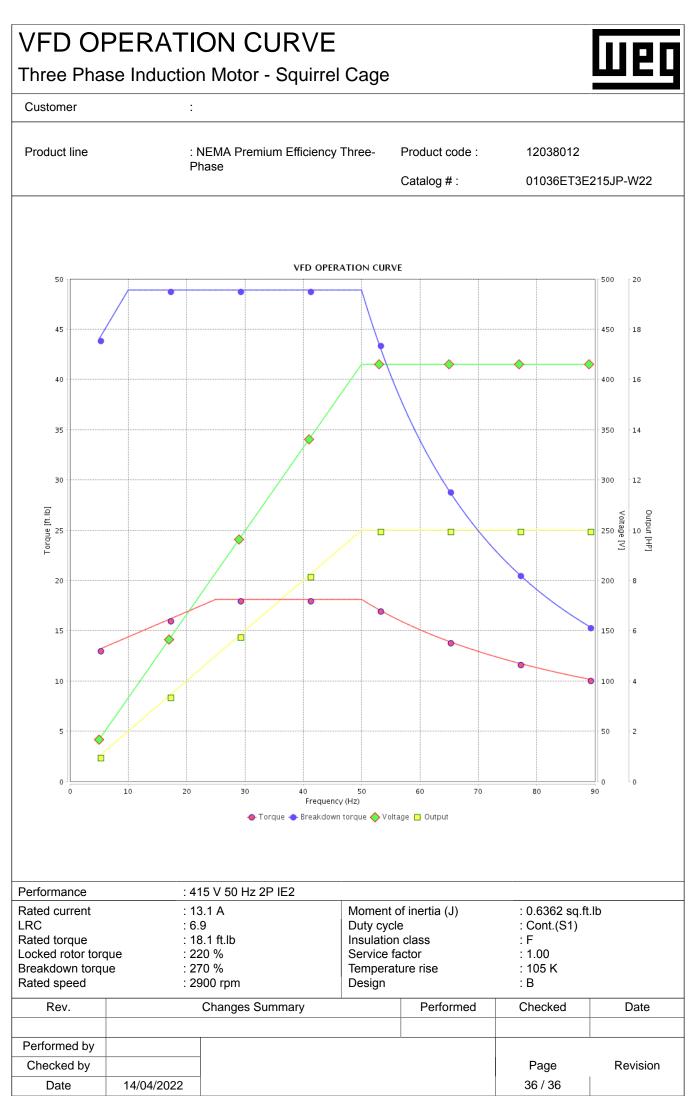


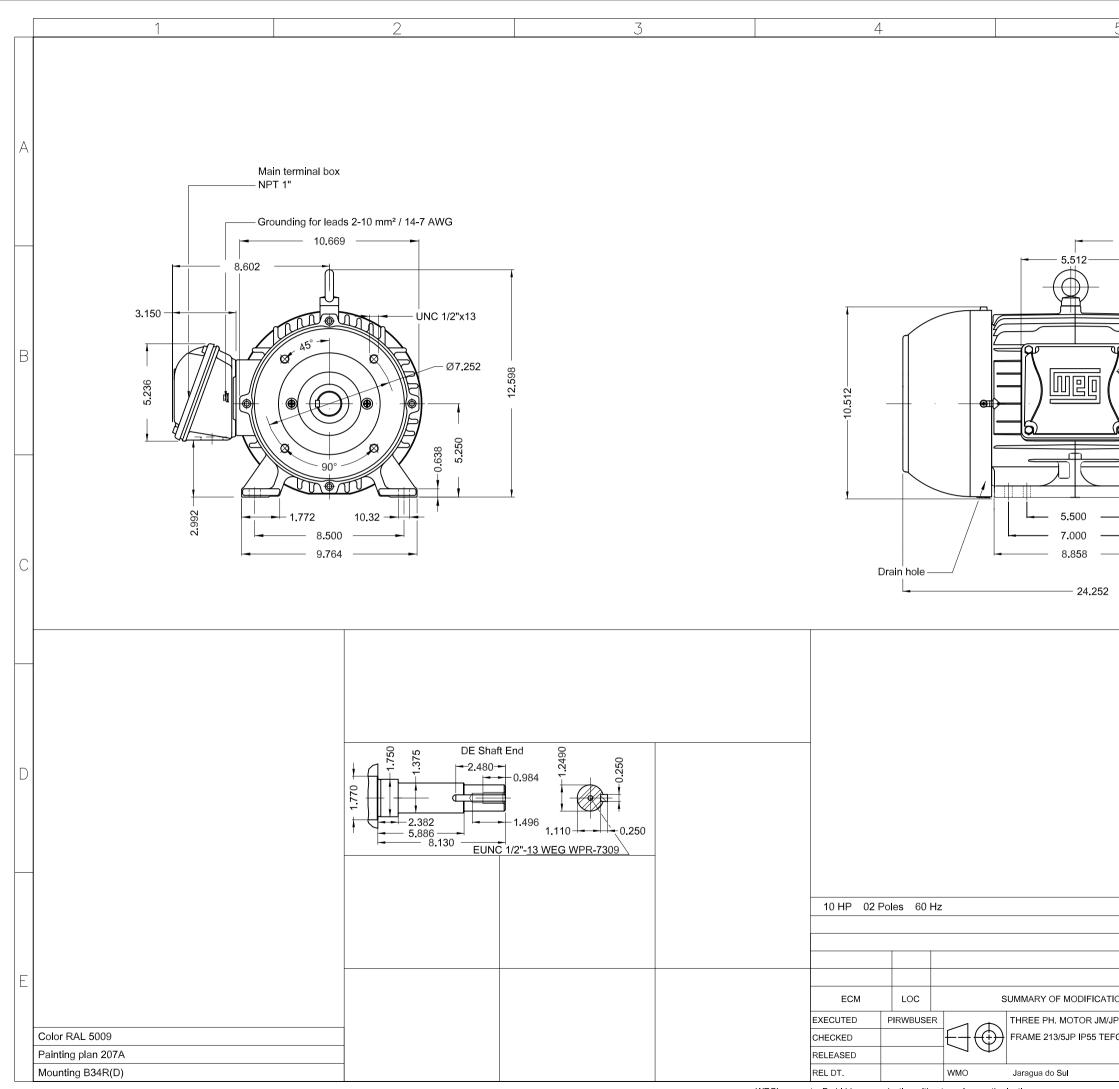












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7.008		000 8.130 Drain hole	a.858 a.858 a.			
						Dimensions in inches
					A	
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
P/JET PUMP W22 PF		PREV				
-C		WDD		ШР	9	E A3
Product	t Engineering	SHEET	1 / 1			XME

