DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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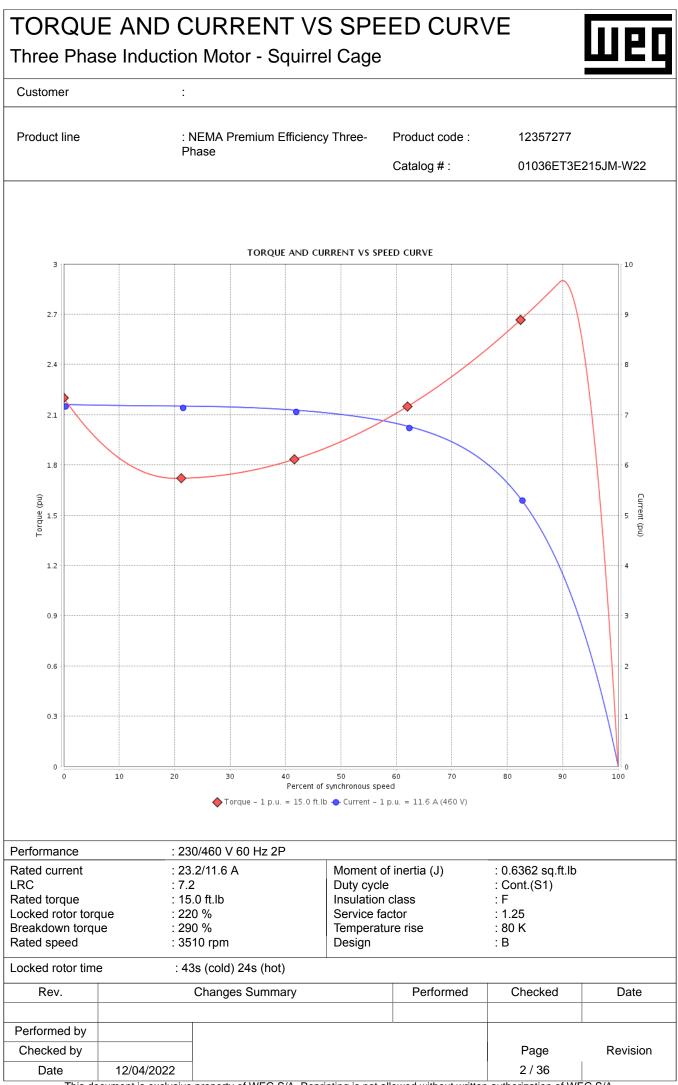


Product line		: NEMA Premium Efficiency Three-			Product code	e: 12	357277	
		Phase			Catalog # :	01	036ET3E215	5JM-W22
Frame		: 213/5JM		Coolin	ig method	• 1	C411 - TEFC	
Insulation class		: 213/5JM : F		Mount			0411 - TEFO ⁵ -1	
							-	
Duty cycle	- 4	: Cont.(S1)	40%0	Rotati			Both (CW and	
Ambient tempera	ature	: -20°C to +			ng method		Direct On Line	9
Altitude		: 1000 m.a.	s.l.		x. weight ³		67 lb	
Protection degre	e	: IP55		Mome	nt of inertia (J)) : C).6362 sq.ft.lb)
Design		: B						
Output [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]		23.2/11.6	10.4	10.1	9.91	14.1	13.4	13.1
. R. Amperes [A]		167/83.5	77.0	84.8	90.2	79.0	85.8	90.4
_RC [A]		7.2X(Code H)		o.4x(Code J)9.1x(Code K)	5.6X(Code F)		6.9x(Code
No load ourront [A	1	6.80/3.40	3.40	3.70	3.90	3.40	G) 3.70	3.90
No load current [A								
Rated speed [RPN	vij	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)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		24s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		68.0 dB(Á)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(Á)	63.0 dB(Á)	
	25%	89.3	88.4	88.2	87.2	90.1	90.1	90.2
	50%	89.5	88.6	88.4	87.7	89.5	89.5	89.5
Efficiency (%)	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
	50%	0.34	0.51	0.47	0.43	0.83	0.30	0.34
Power Factor	75%							
		0.87	0.86	0.83	0.82	0.90	0.88	0.87
	100%	0.90	0.90	0.88	0.86	0.91	0.91	0.90
		Drive end			ation loads			
Bearing type		: 6309 Z C	6207	ZZ Max. tr	action	: 19	92 lb	
Sealing		: V'Ring	V'Rin	ig 🛛 Max. c	ompression	: 3	59 lb	
Lubrication interv	val	: 19000 h	n 40000)h				
Lubricant amoun	nt	: 13 g	0 g					
Lubricant type		: Mobi	I Polyrex EM					
Notoo								
Notes								
USABLE @208V	25.7A SF 1	.15 SFA 29.5A						
This revision repla		ncel the previo	us one, which		are average v			
must be eliminate					supply, subjec	t to the toleral	nces stipulate	a in NEMA
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(2) Measured at 1								
(3) Approximate v		ct to changes a	atter					
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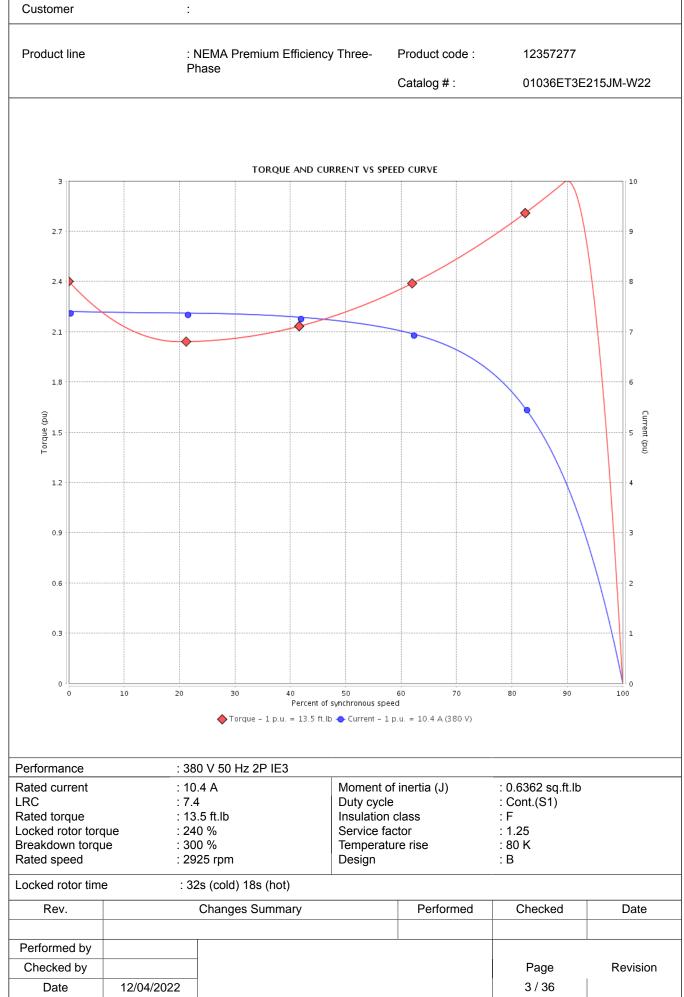
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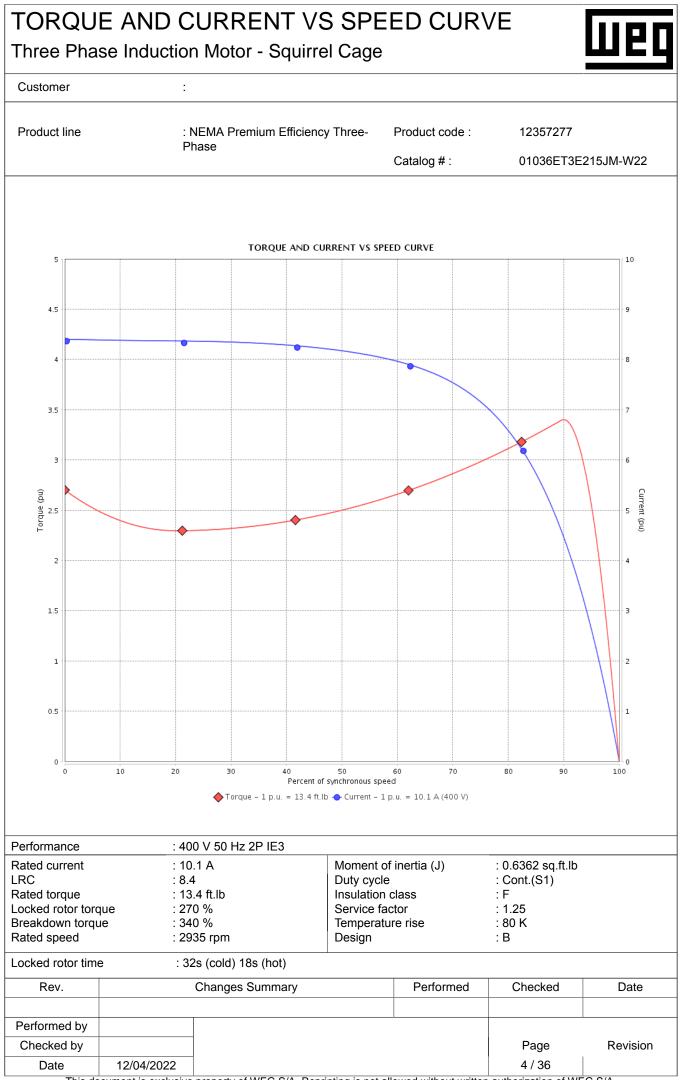


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



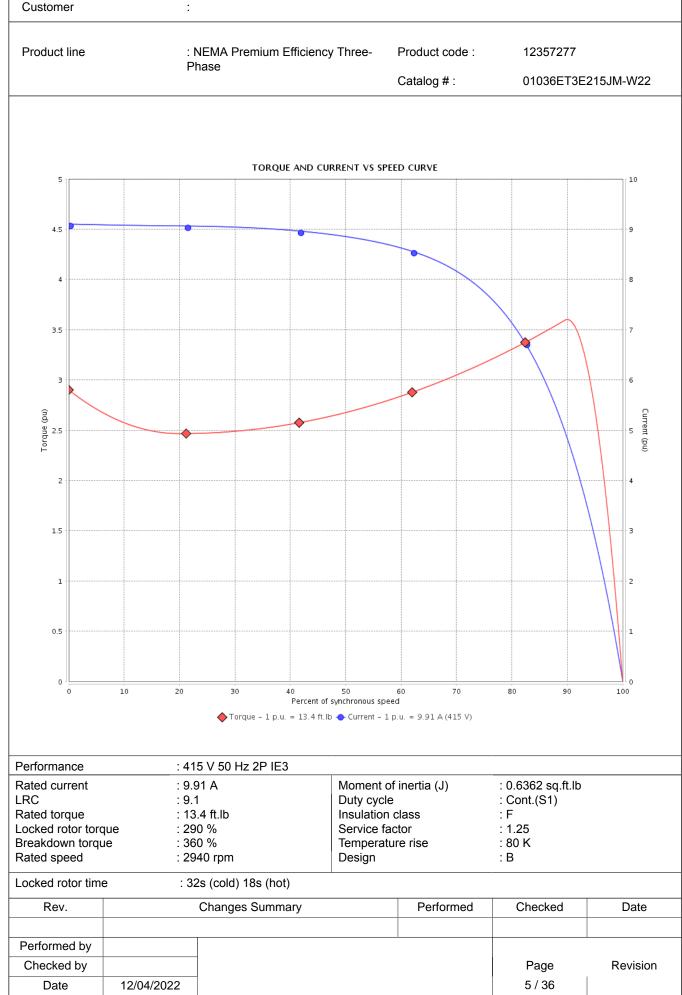
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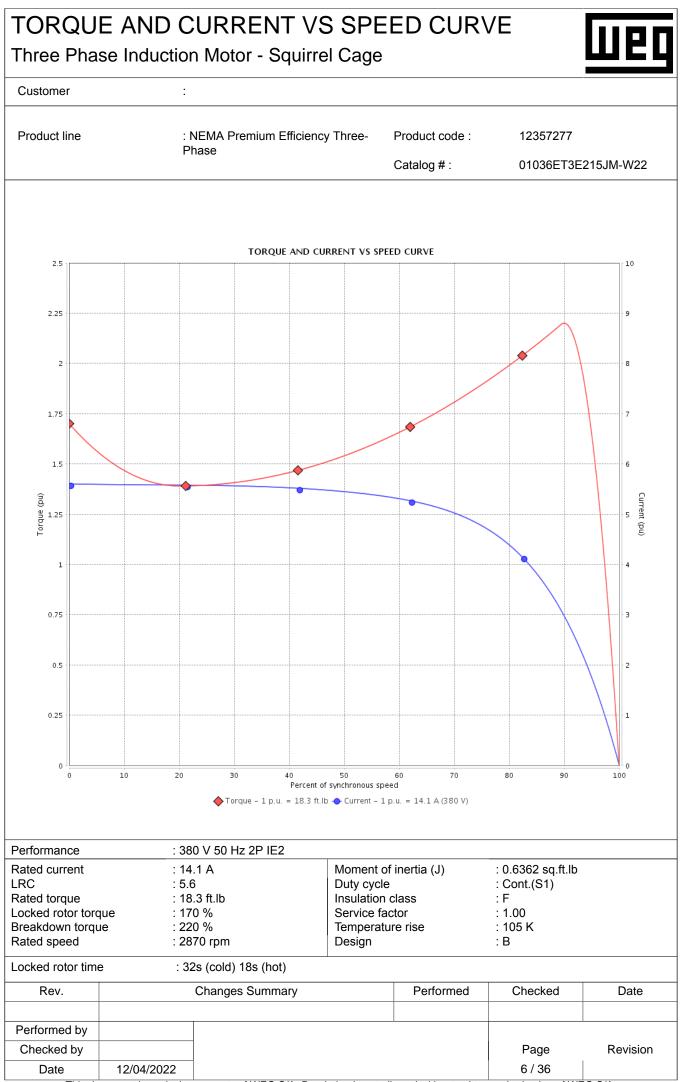
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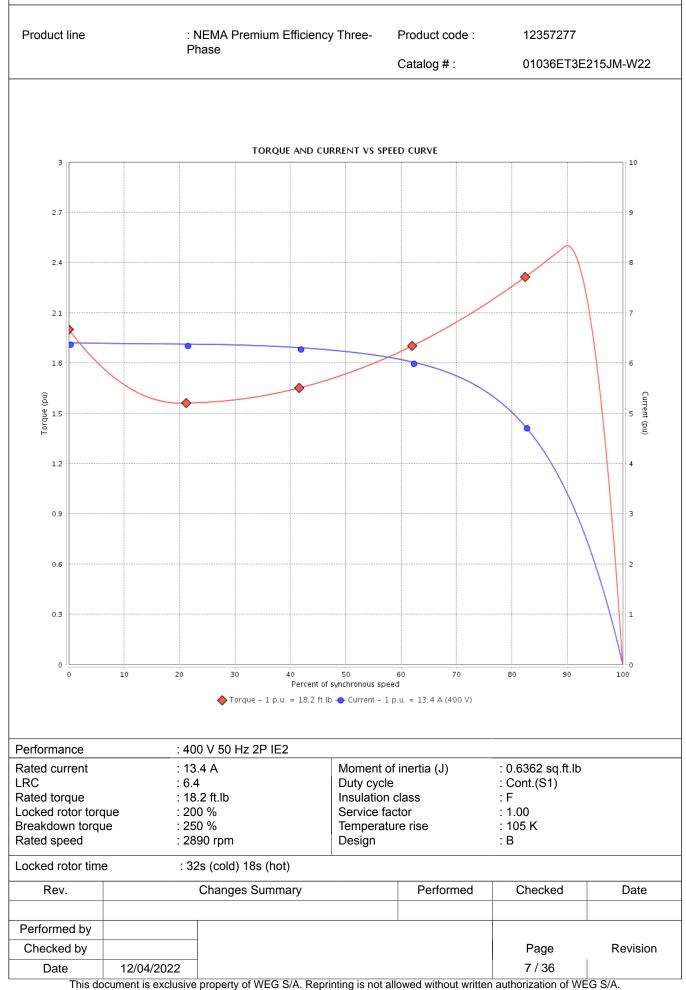
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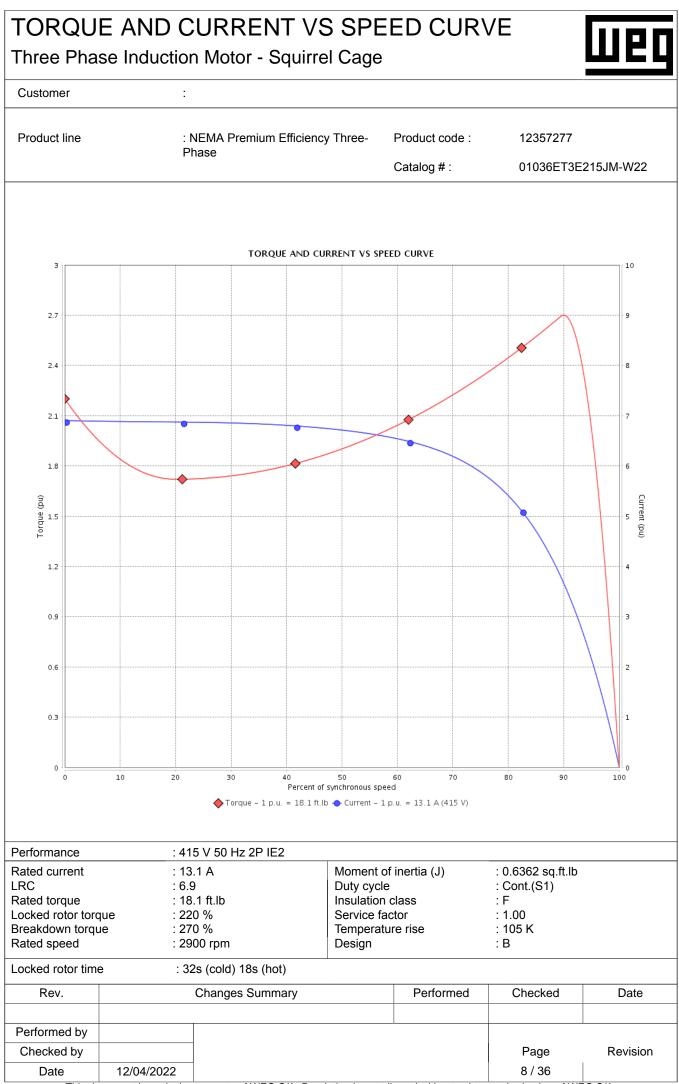
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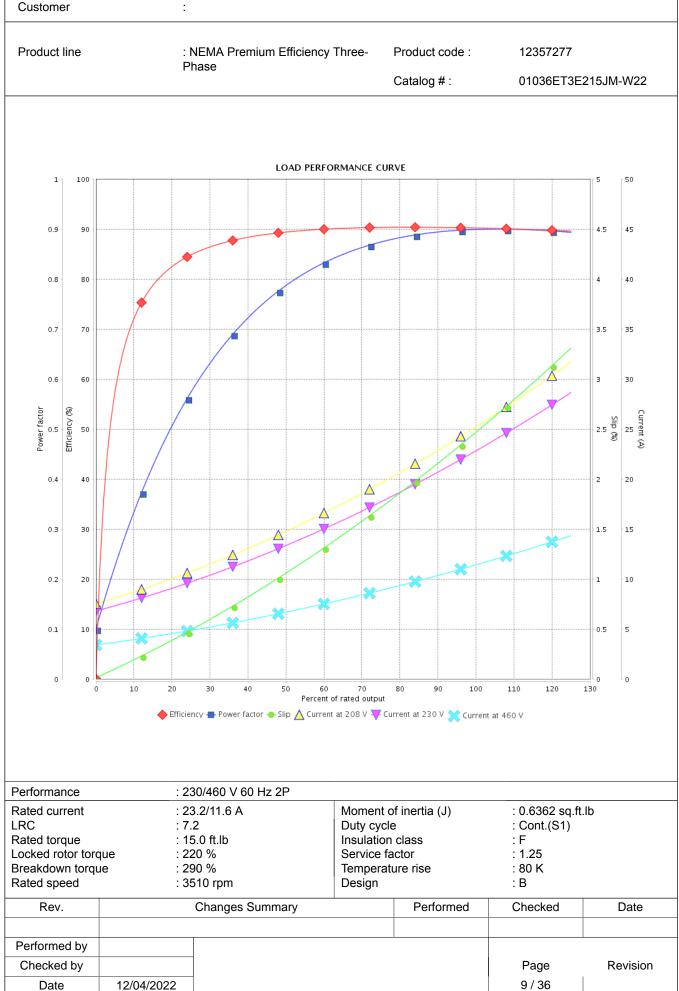
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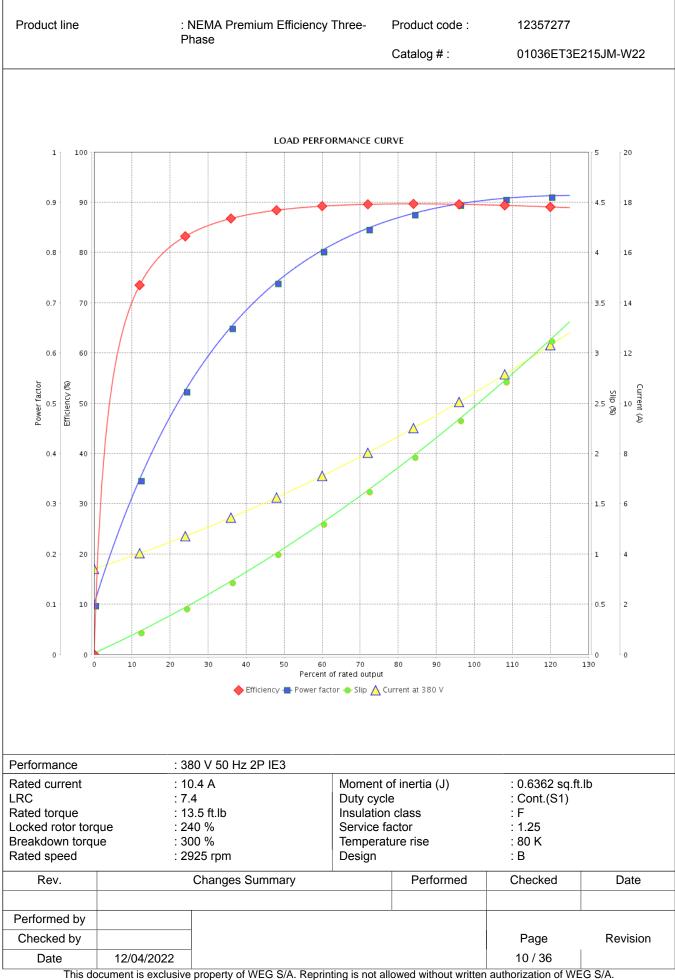
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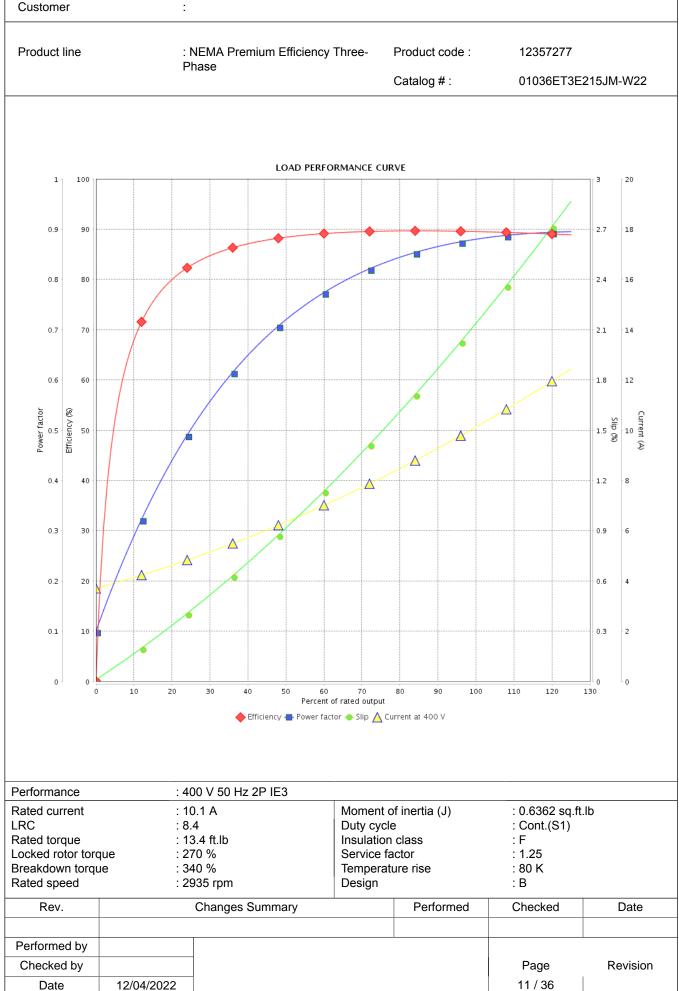


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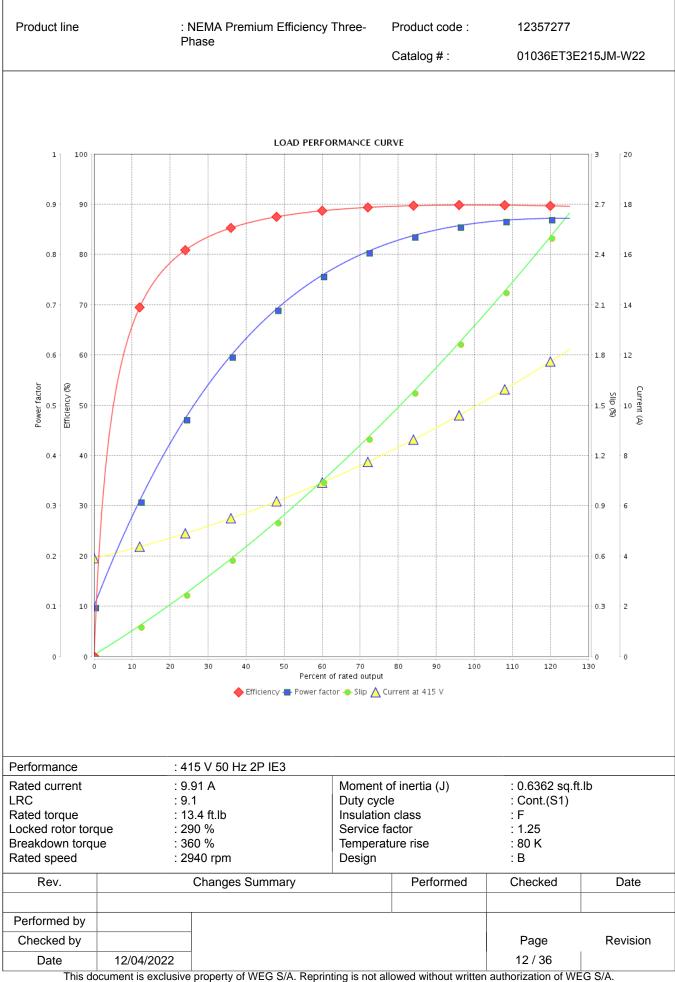
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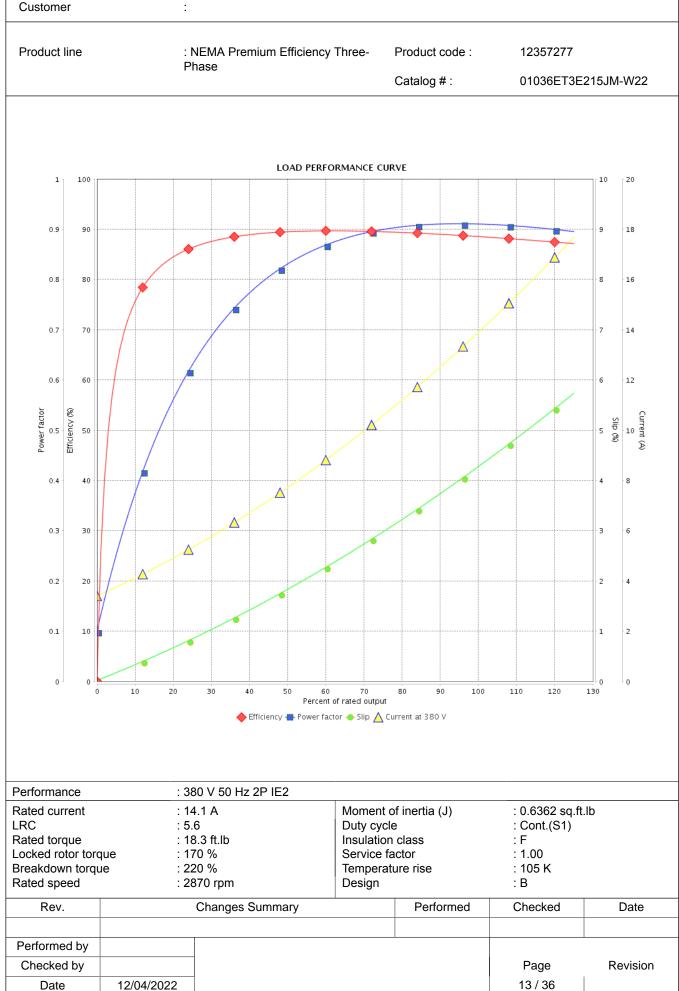


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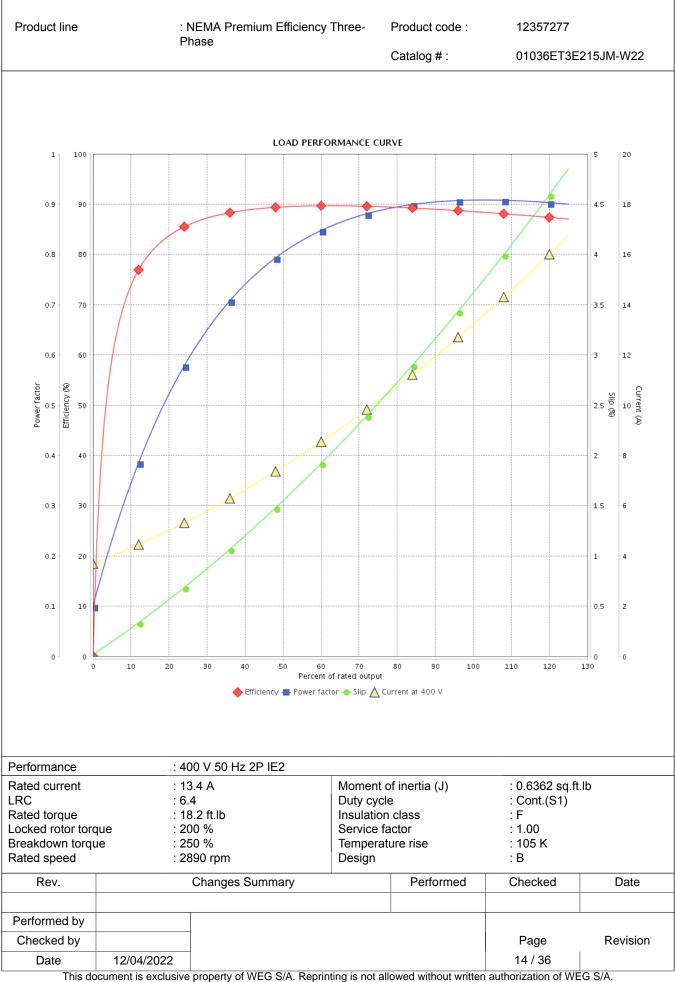
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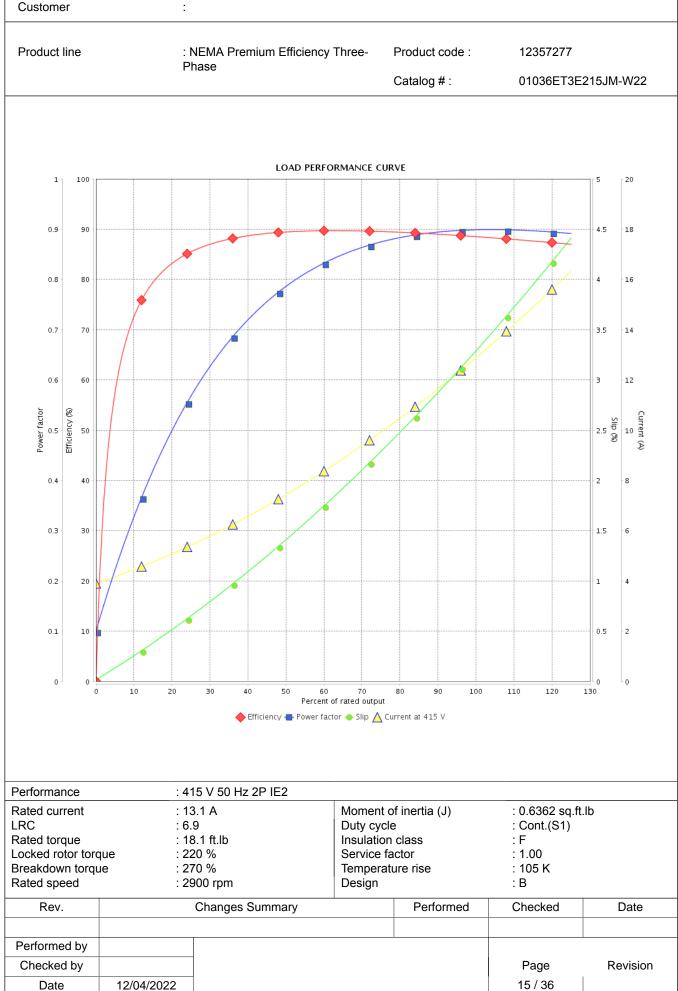


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Three Phase Induction Motor - Squirrel Cage

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THERMAL	LIMIT C	URVE		
Three Phase Ir	nduction Moto	or - Squirrel	Cage	
Customer	:			

Product code :

Catalog # :

12357277

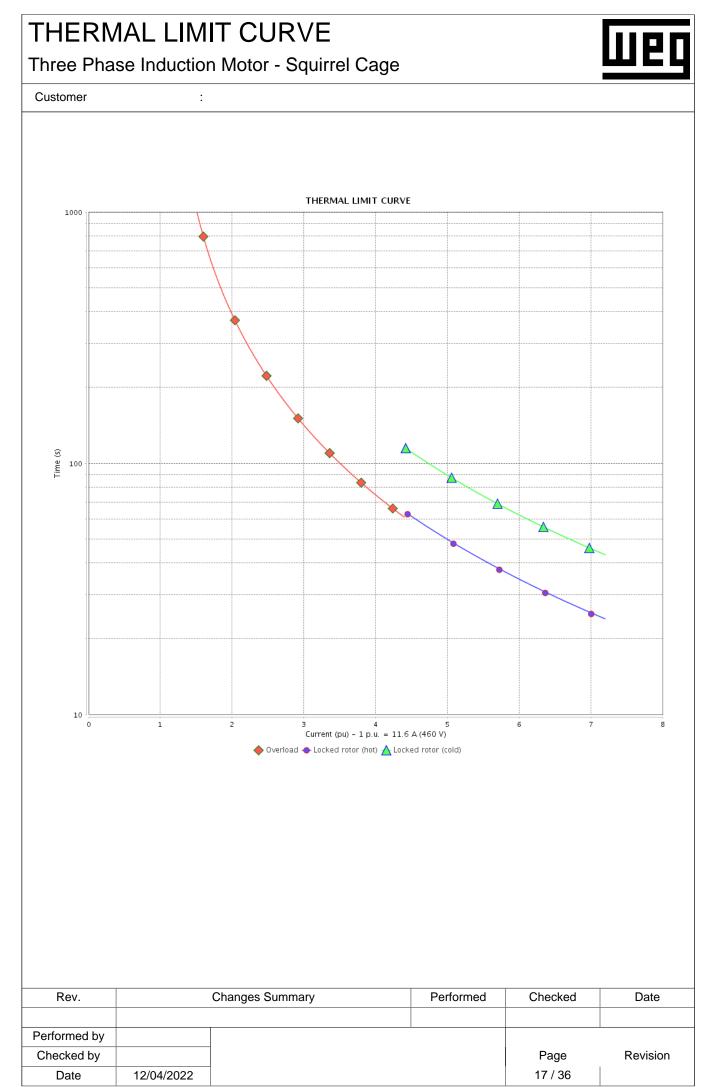
01036ET3E215JM-W22

: NEMA Premium Efficiency Three-

Phase

Product line

Performance	: 2	30/460 V 60 Hz 2P				
Rated current		3.2/11.6 A		f inertia (J)	: 0.6362 sq.ft	.lb
LRC Deted terrup		.2 Duty cycle 5.0 ft.lb Insulation cla			: Cont.(S1) : F	
Rated torque Locked rotor toro		5.0 ft.lb 20 %	Service fa		. г : 1.25	
Breakdown torqu	•	90 %	Temperat		: 80 K	
Rated speed	: 3	510 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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Checked by					Page	Revision
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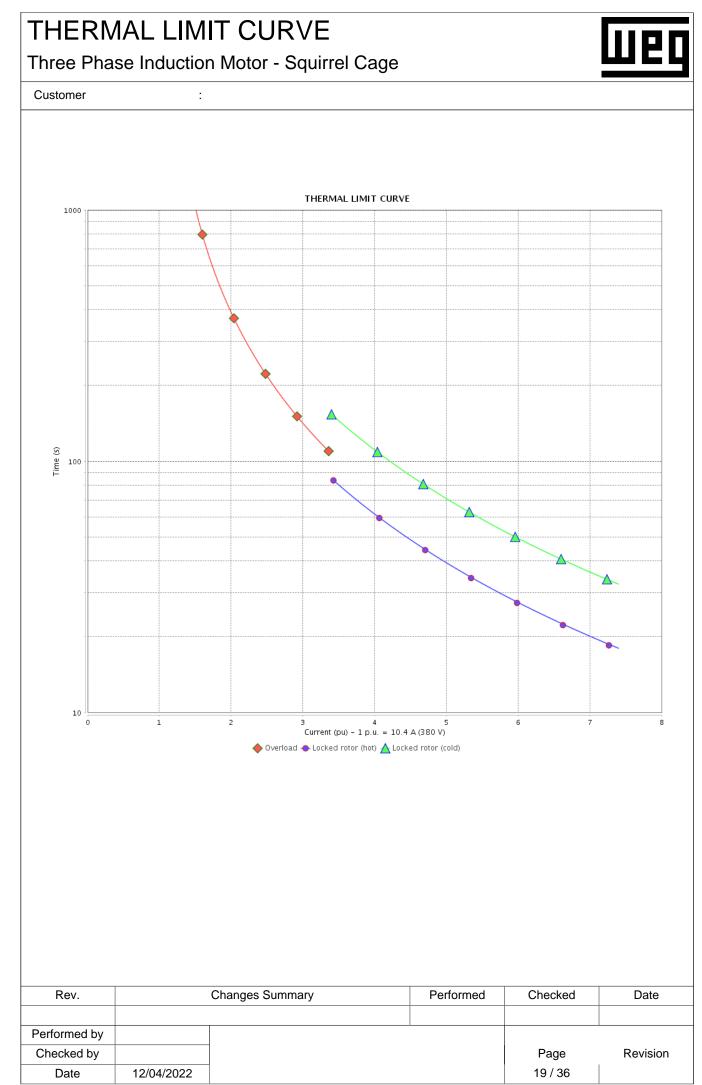
THERMAL LII	MIT CURVE		Γ
Three Phase Induct	ion Motor - Squirrel Cage	!	
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12357277

Catalog # :

Phase

01036ET3E215JM-W22

Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 7 : 1 ue : 2 e : 3 : 2	0.4 A .4 3.5 ft.lb 40 % 00 % 925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant						
Rev. Changes Summary		,	Performed	Checked	Date	
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Checked by					Page	Revision
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Three Phase Induc	ction Motor - Squirrel Cage	
Customer	:	

Product code :

Catalog # :

12357277

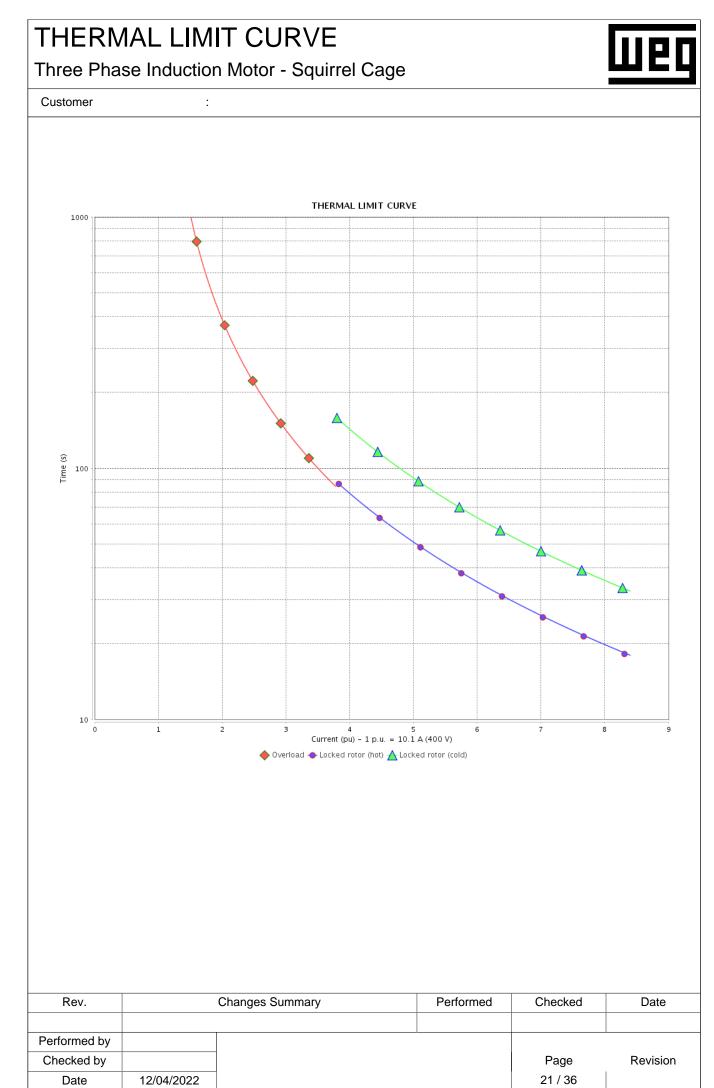
01036ET3E215JM-W22

: NEMA Premium Efficiency Three-

Phase

Product line

Performance	: 4	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 1 que : 2 ue : 3	0.1 A .4 3.4 ft.lb 70 % 40 % 935 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design		: 0.6362 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
Heating constan Cooling constan	t					
Rev.		Changes Summary		Performed	Checked	Date
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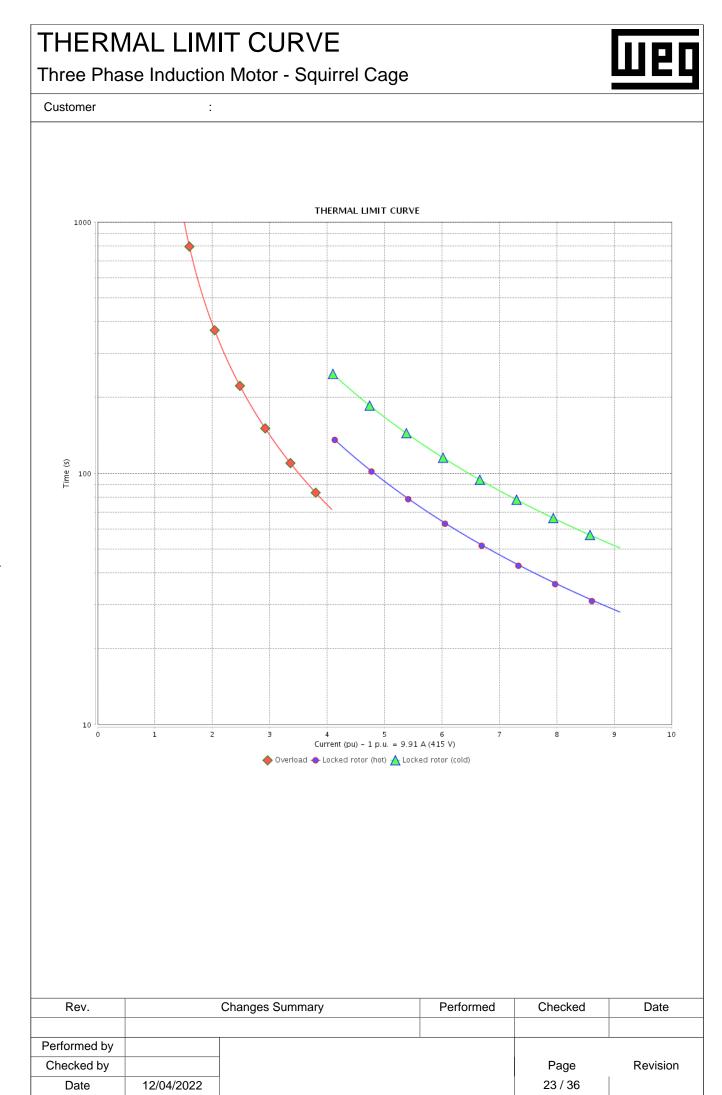
THERMAL	LIMIT CURVE		Ī
Three Phase In	duction Motor - Squirrel Cage	9	
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12357277

Catalog # :

01036ET3E215JM-W22

Phase

Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 9 : 1 ue : 2 e : 3	.91 AMoment of inerti.1Duty cycle3.4 ft.lbInsulation class90 %Service factor60 %Temperature rise940 rpmDesign		: Cont.(S1) class : F tor : 1.25		lb
Heating constant						
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
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Three Phase	Induction Moto	or - Squirrel Cage	l
Customer	:		

Product code :

Catalog # :

: NEMA Premium Efficiency Three-Phase

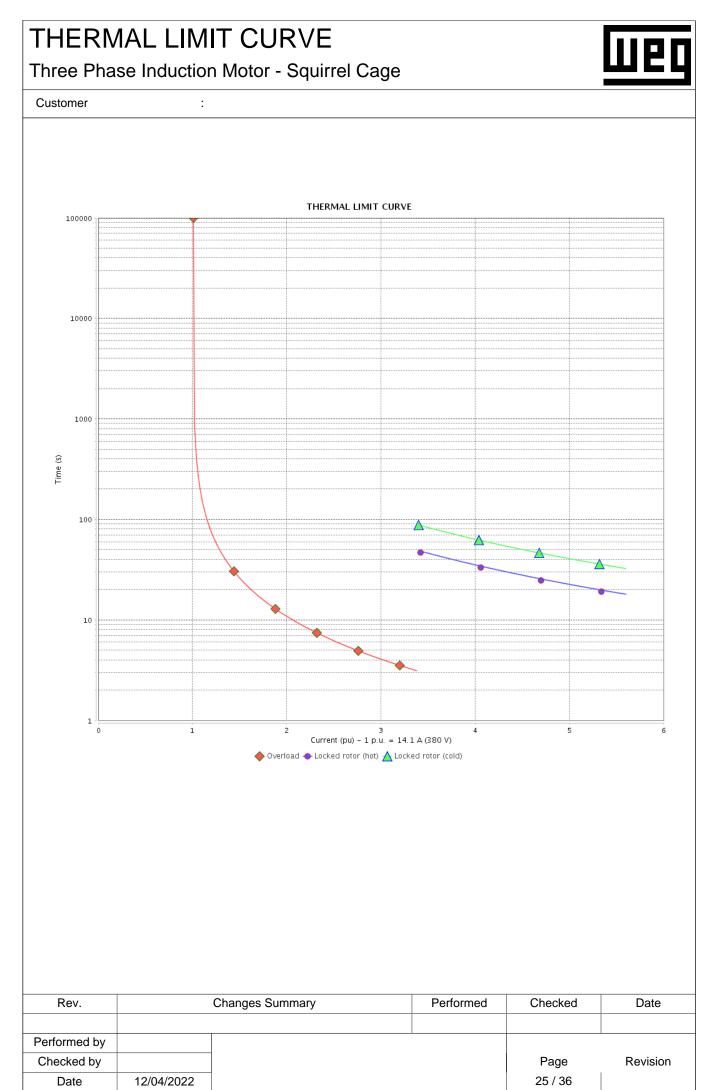
Product line



12357277

01036ET3E215JM-W22

: 38	80 V 50 Hz 2P IE2				
					lb
		Service fa		. F : 1.00	
		Temperature rise		: 105 K	
	20 %	lemperat	Design		
: 22	20 % 870 rpm			: 105 K : B	
: 22					
: 22					
: 22			Performed		Date
: 22	870 rpm			: B	Date
: 22	870 rpm			: B	Date
: 22	870 rpm			: B	Date
	: 1 : 5 : 1	: 380 V 50 Hz 2P IE2 : 14.1 A : 5.6 : 18.3 ft.lb : 170 %	: 14.1 A Moment of : 5.6 Duty cycle : 18.3 ft.lb Insulation	: 14.1 AMoment of inertia (J): 5.6Duty cycle: 18.3 ft.lbInsulation class	: 14.1 A Moment of inertia (J) : 0.6362 sq.ft. : 5.6 Duty cycle : Cont.(S1) : 18.3 ft.lb Insulation class : F



THERMA	_ LIMIT C	URVE		
Three Phase I	nduction Mot	or - Squirrel Cag	ge	
Customer	:			

Product code :

Catalog # :

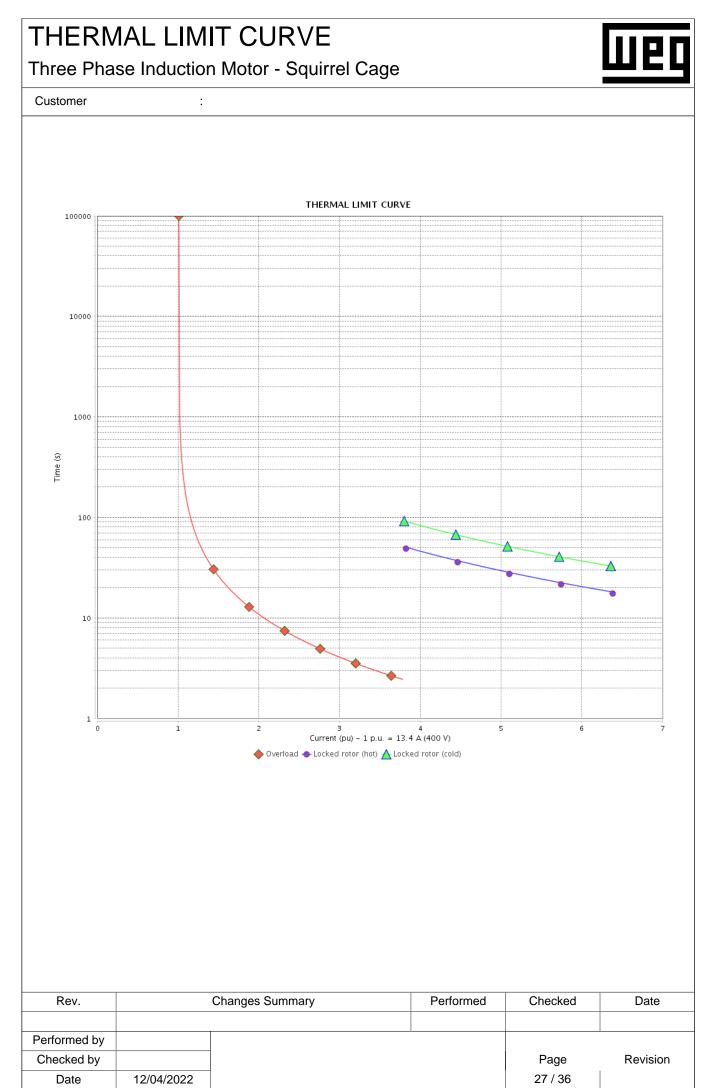
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01036ET3E215JM-W22

: NEMA Premium Efficiency Three-Phase

Product line

Performance	. 4	00 V 50 Hz 2P IE2				
Rated current	: 1;	3.4 A	Moment o	f inertia (J)	: 0.6362 sq.ft	lb
Rated current LRC	: 1 : 6	3.4 A 4	Duty cycle	e	: Cont.(S1)	lb
Rated current LRC Rated torque	: 1; : 6 : 1;	3.4 A 4 3.2 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	lb
Rated current LRC Rated torque Locked rotor torqu	: 1; : 6 : 1; e : 2	3.4 A 4	Duty cycle Insulation Service fa	e class ictor	: Cont.(S1)	lb
Rated current LRC Rated torque	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 %	Duty cycle Insulation	e class ictor	: Cont.(S1) : F : 1.00	lb
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 %	Duty cycle Insulation Service fa Temperati	e class ictor	: Cont.(S1) : F : 1.00 : 105 K	lb
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 %	Duty cycle Insulation Service fa Temperati	e class ictor	: Cont.(S1) : F : 1.00 : 105 K	lb
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 % 390 rpm	Duty cycle Insulation Service fa Temperati	e class ictor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 %	Duty cycle Insulation Service fa Temperati	e class ictor	: Cont.(S1) : F : 1.00 : 105 K	lb Date
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 % 390 rpm	Duty cycle Insulation Service fa Temperati	e class ictor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev. Performed by	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 % 390 rpm	Duty cycle Insulation Service fa Temperati	e class ictor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B Checked	Date
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 1 : 6 : 1 : e : 2 : : : 2	3.4 A 4 3.2 ft.lb 00 % 50 % 390 rpm	Duty cycle Insulation Service fa Temperati	e class ictor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	



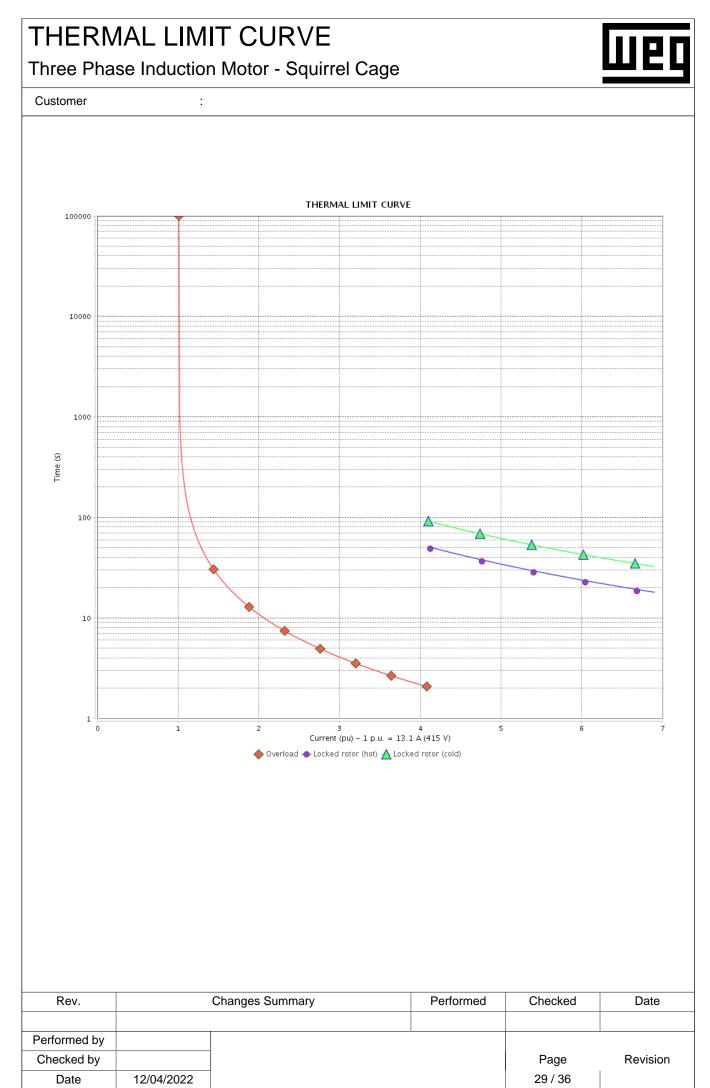
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Three Phase Induc	tion Motor - Squirrel Cage		L
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12357277

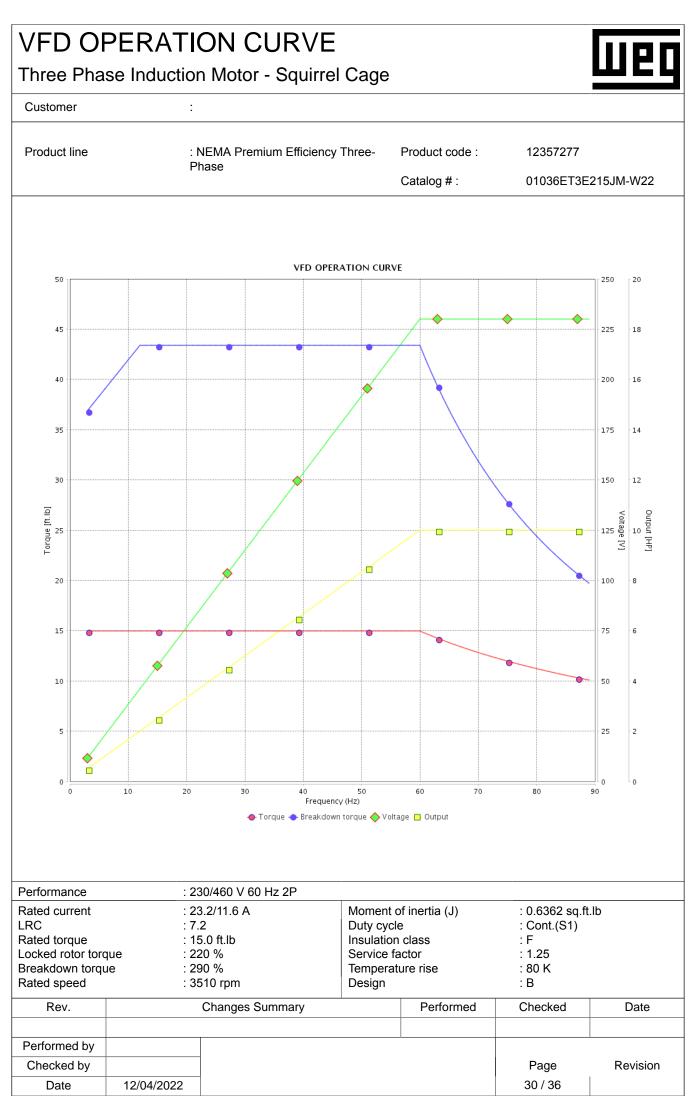
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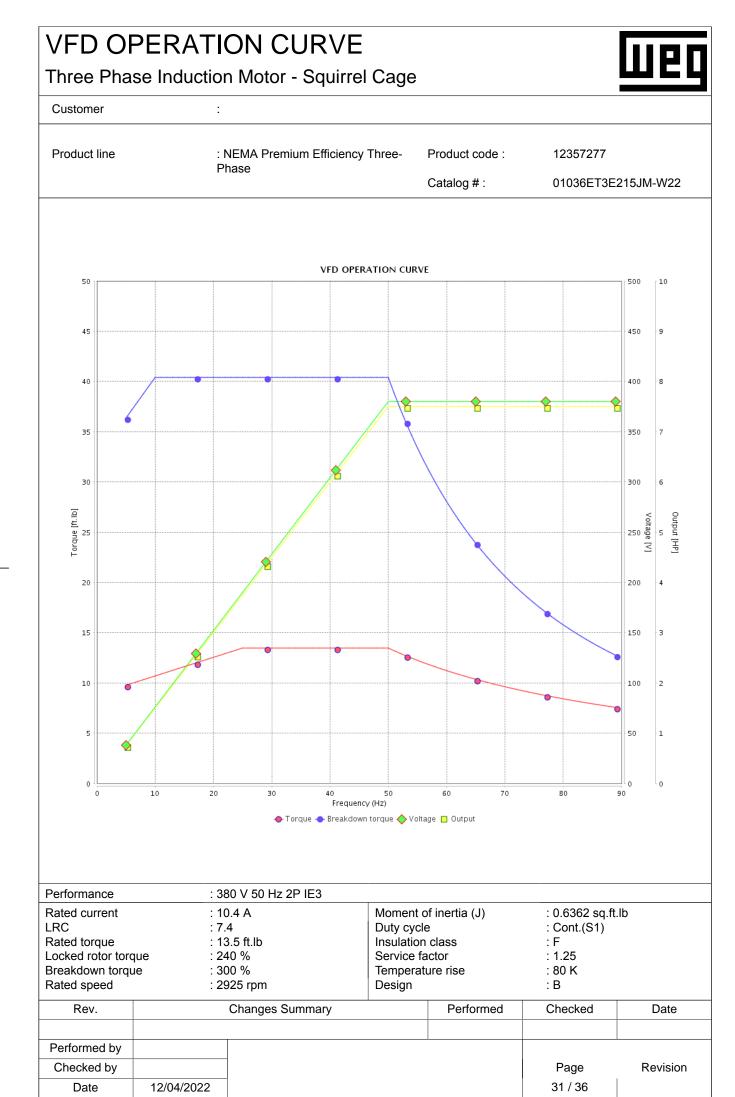
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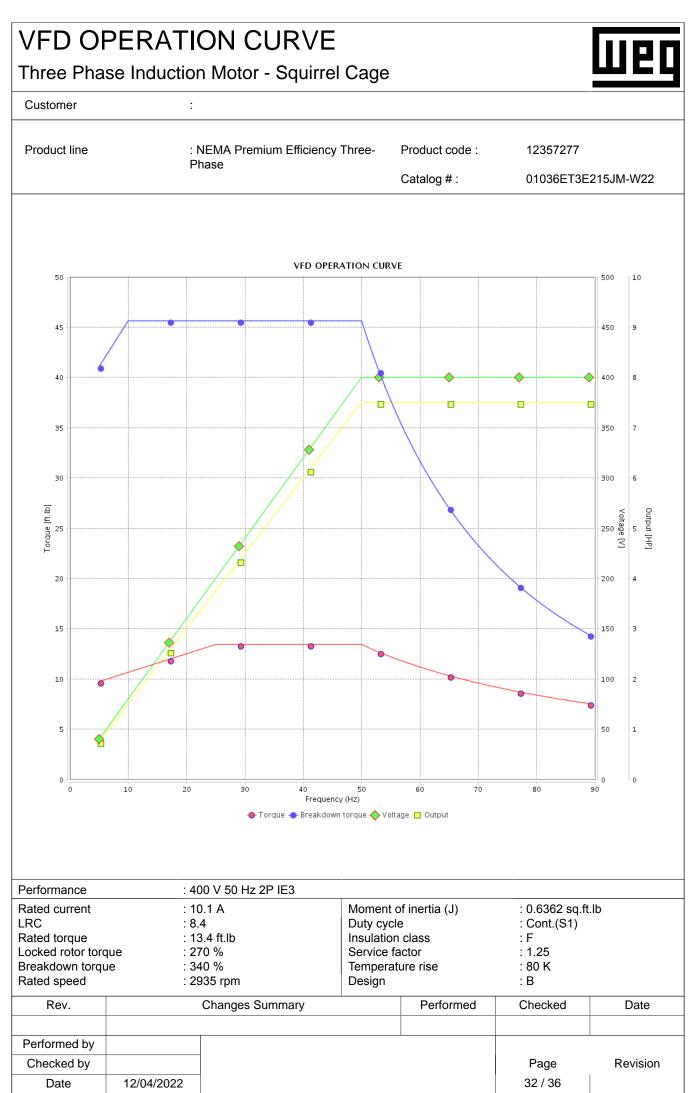
Phase

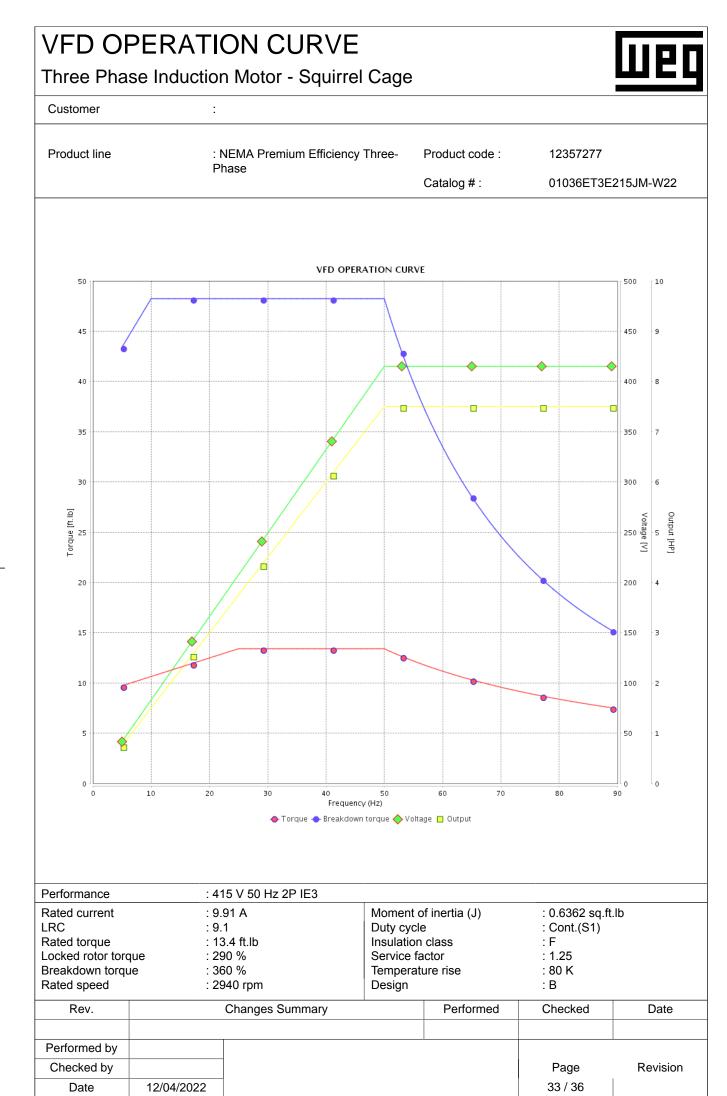
Performance	: 4	15 V 50 Hz 2P IE2			·	
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	3.1 A .9 8.1 ft.lb 20 % 70 % 900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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Checked by					Page	Revision
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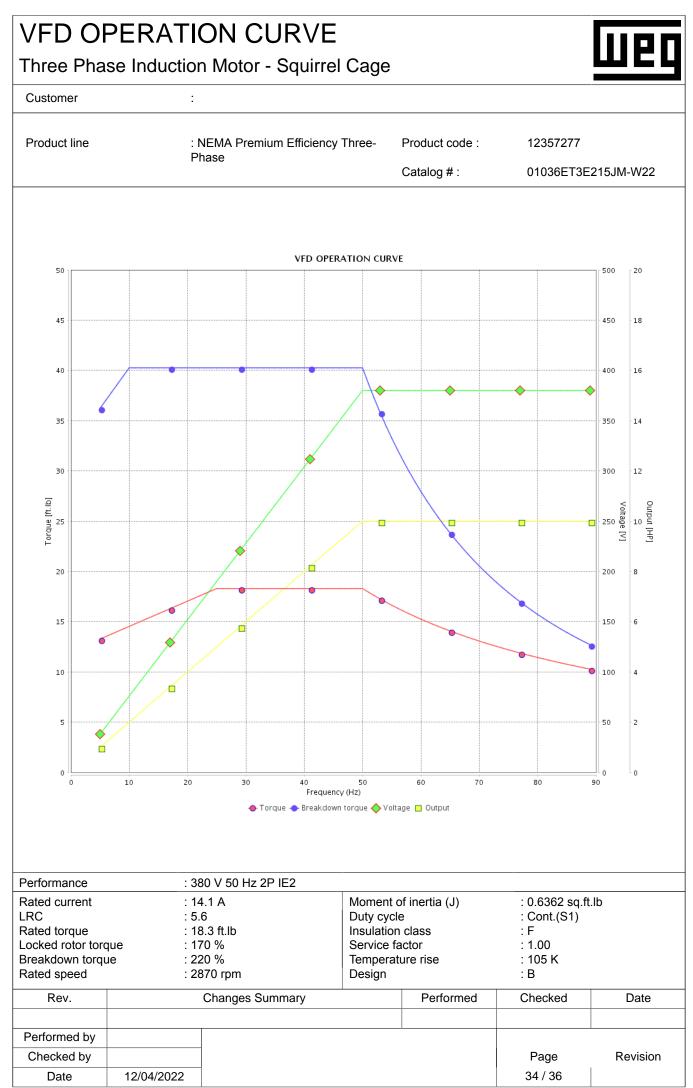


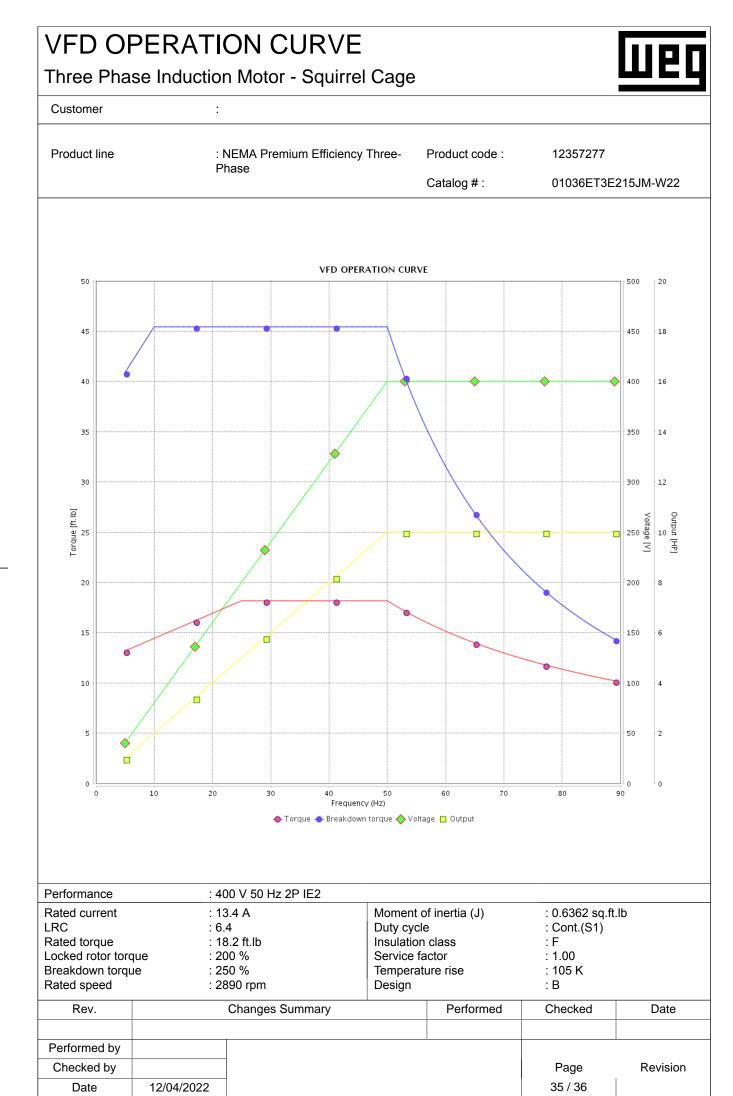




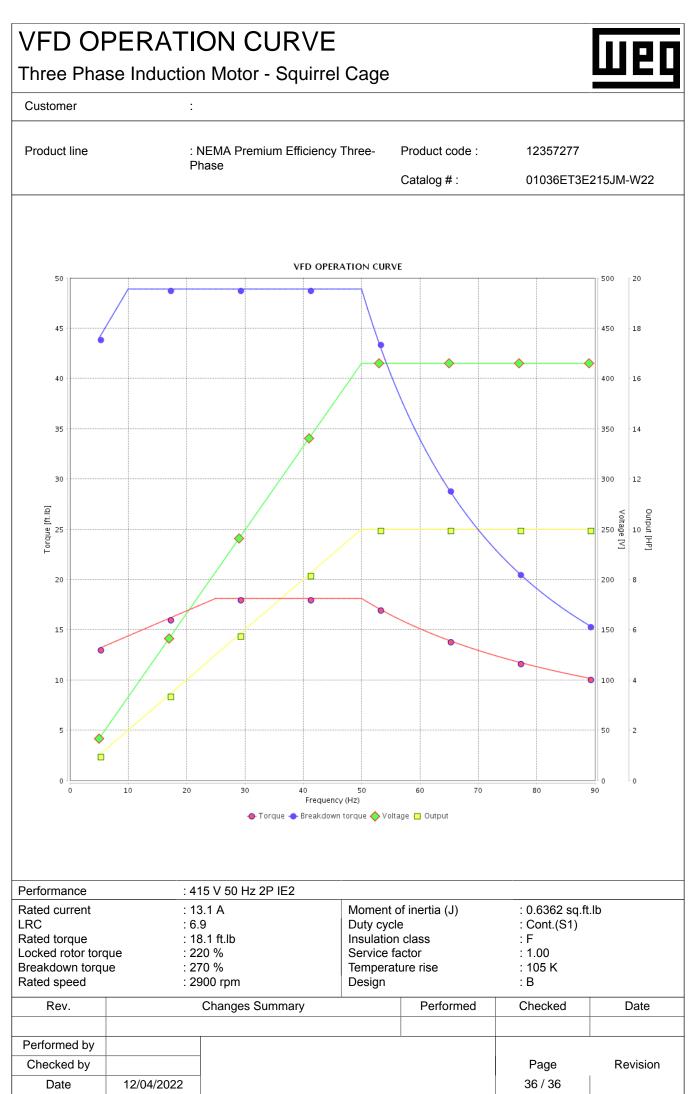


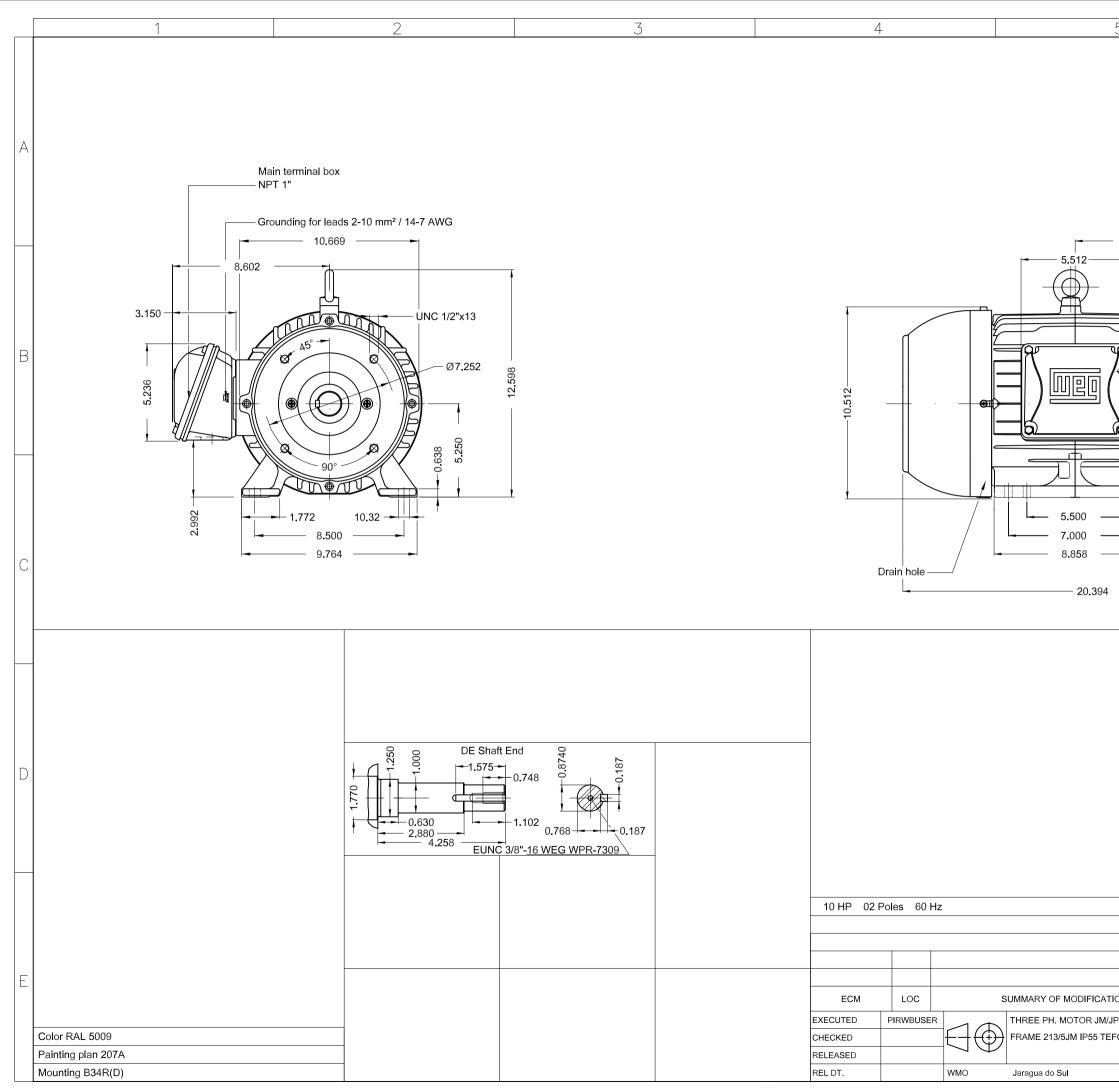






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Product	Engineering	SHEET	1 / 1			XME

