DATA SHEET

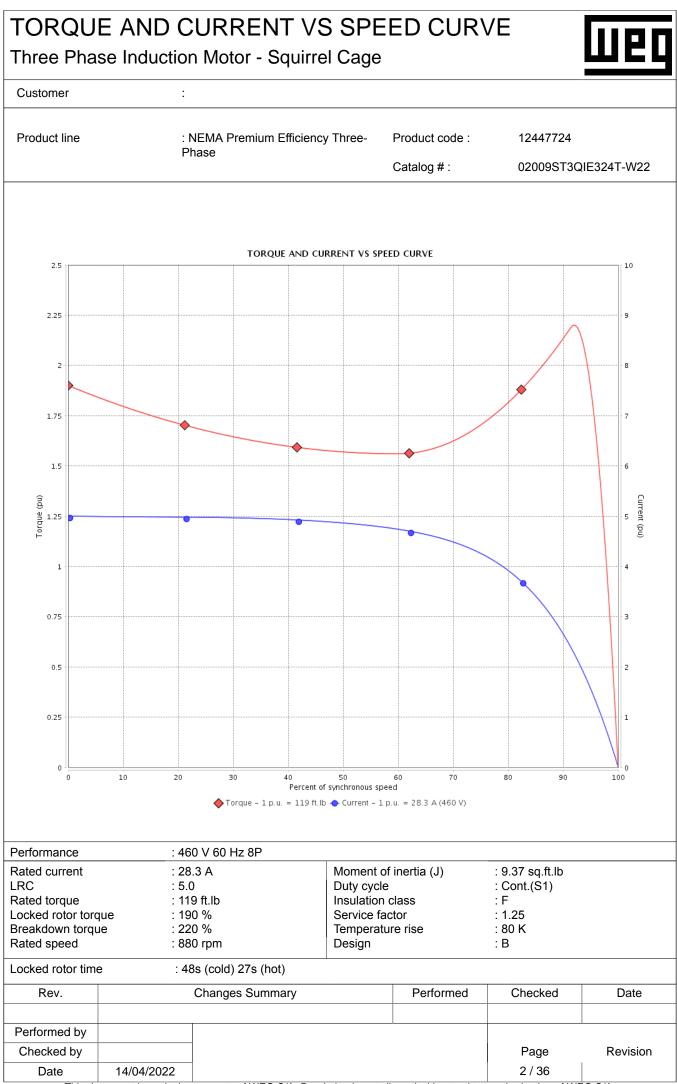
Three Phase Induction Motor - Squirrel Cage

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Customer

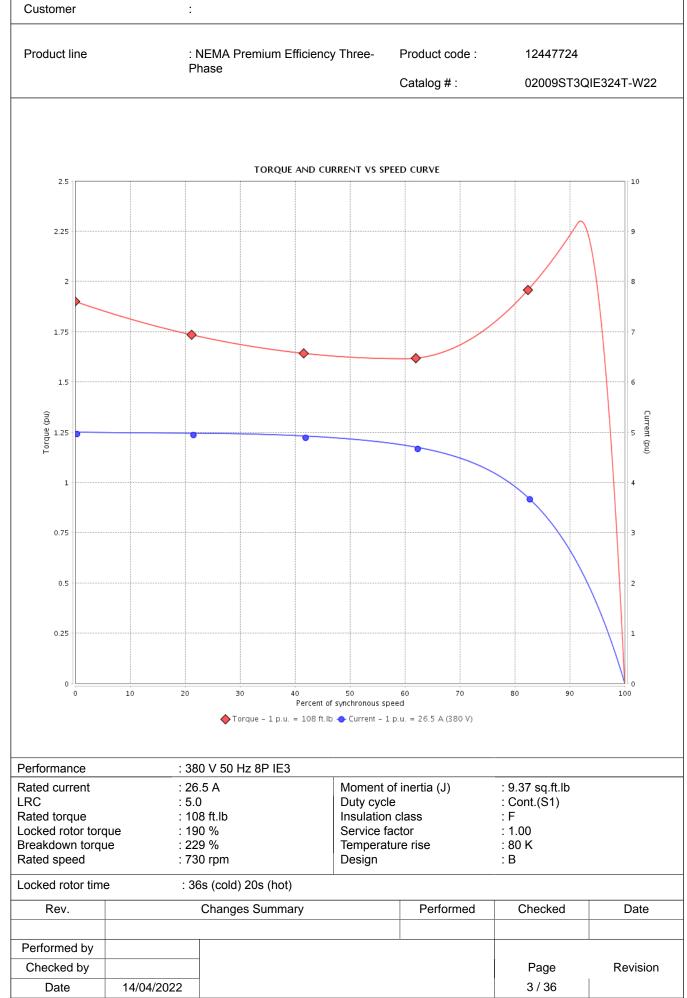
Product line		: NEMA Premium Efficiency Three- Phase			Product code :		12447724		
		rnase				Catalog # :	0	2009ST3QIE	324T-W22
Frame		: 324/6T				method		C411 - TEFC	;
Insulation class		: F		M	ountir	ng	-	F-1	
Duty cycle		: Cont.(S1)			otatio			Both (CW and	,
Ambient tempera	ature	: -20°C to +) method		Direct On Lin	e
Altitude		: 1000 m.a.	s.l.			. weight ³		517 lb	
Protection degre	е	: IP55		M	omen	t of inertia (J)	:	9.37 sq.ft.lb	
Design		: B							
Output [HP]		20	15	15		15	20	20	20
Poles		8	8	8		8	8	8	8
Frequency [Hz]		60	50	50		50	50	50	50
Rated voltage [V]		460	380	400		415	380	400	415
Rated current [A]		28.3	26.5	26.4		27.1	33.4	32.6	32.7
. R. Amperes [A]		142	133	142		152	134	143	150
LRC [A]		5.0x(Code	· · ·	5.4x(Coc	de H)	5.6x(Code J)	4.0x(Code D)4.4x(Code E	=) 4.6x(Code
No lood ourset [A	1	G)	G)	470	,	10.0	457	47.0	40.0
No load current [A		16.0	15.7	17.6		19.3	15.7	17.6	19.3
Rated speed [RPN	/I]	880	730	730		735	725	725	730
Slip [%]	1	2.22	2.67	2.67		2.00	3.33	3.33	2.67
Rated torque [ft.lb]		119	108	108		107	145	145	144
_ocked rotor torqu		190	190	210		240	140	160	180
Breakdown torque	[%]	220 1.25	229	260		280	170 1.00	190 1.15	210 1.15
Service factor Temperature rise		80 K	1.00 80 K	1.15 80 K		1.15 80 K	105 K	1.15 105 K	80 K
Locked rotor time							36s (cold)		
Locked rotor time		48s (cold) 27s (hot)	36s (cold) 20s (hot)	36s (co 20s (h		36s (cold) 20s (hot)	20s (bot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²		56.0 dB(A)	56.0 dB(A)	56.0 dB		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
	25%	50.0 UD(A)	50.0 UD(A)	50.0 UL	J(T)	30.0 UD(A)	50.0 UD(A)	50.0 dB(A)	
	50%	89.5	88.5	87.4	1	86.3	89.5	88.5	87.5
Efficiency (%)	75%	91.0	89.6	89.0		88.5	89.5	89.5	89.5
	100%	91.0	89.5	89.3		89.0	88.5	88.5	88.5
	25%	0.110							
	50%	0.54	0.51	0.46	3	0.42	0.61	0.56	0.52
Power Factor	75%	0.66	0.64	0.60		0.56	0.72	0.68	0.65
	100%	0.73	0.72	0.69		0.65	0.77	0.75	0.72
		Drive end	I			ion loads			
Bearing type		: 6312 C3			ax. tra		· c	01 lb	
Sealing		: Inpro/Se		1110		mpression		418 lb	
Lubrication interv	/al	: 20000 h	•						
Lubricant amoun		: 21 g	13 g						
Lubricant type			I Polyrex EM						
Notos									
Notes									
	acce and ear	col the provie	up opo which	Ть	000 0	re average va		on tooto with	einueoidal
This revision repla must be eliminate		icei ine previo	us one, which			upply, subject			
(1) Looking the m		shaft end			G-1.	uppiy, subject			
(2) Measured at 1			BdB(A)						
(3) Approximate v									
manufacturing pro									
(4) At 100% of ful									
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Date	14/04/202					owed without w			

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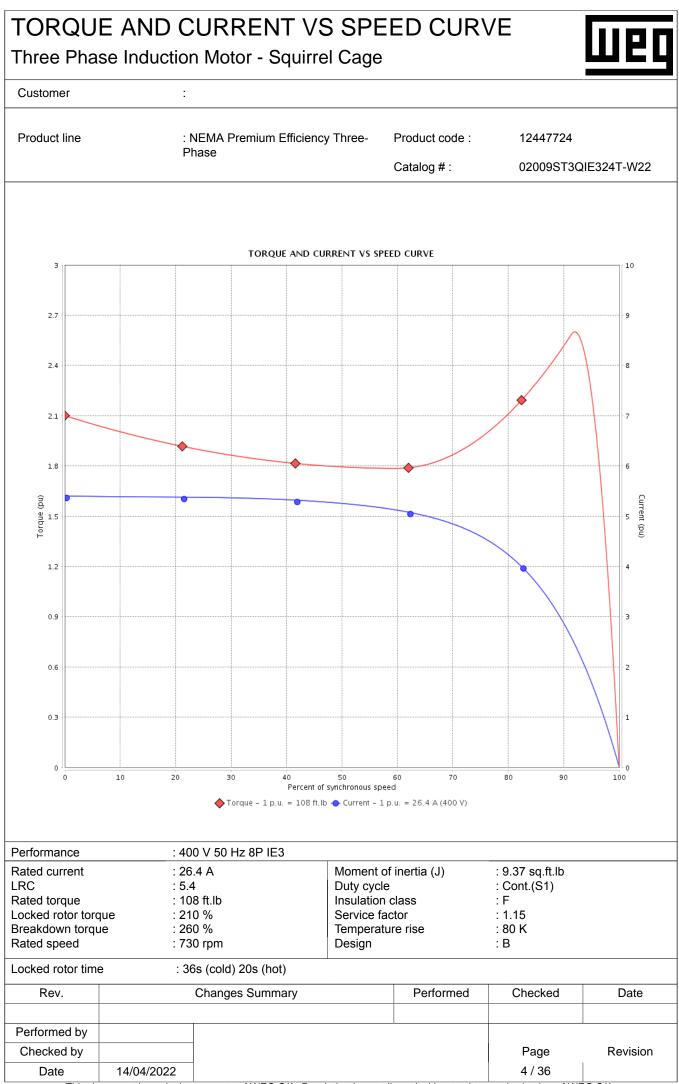


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



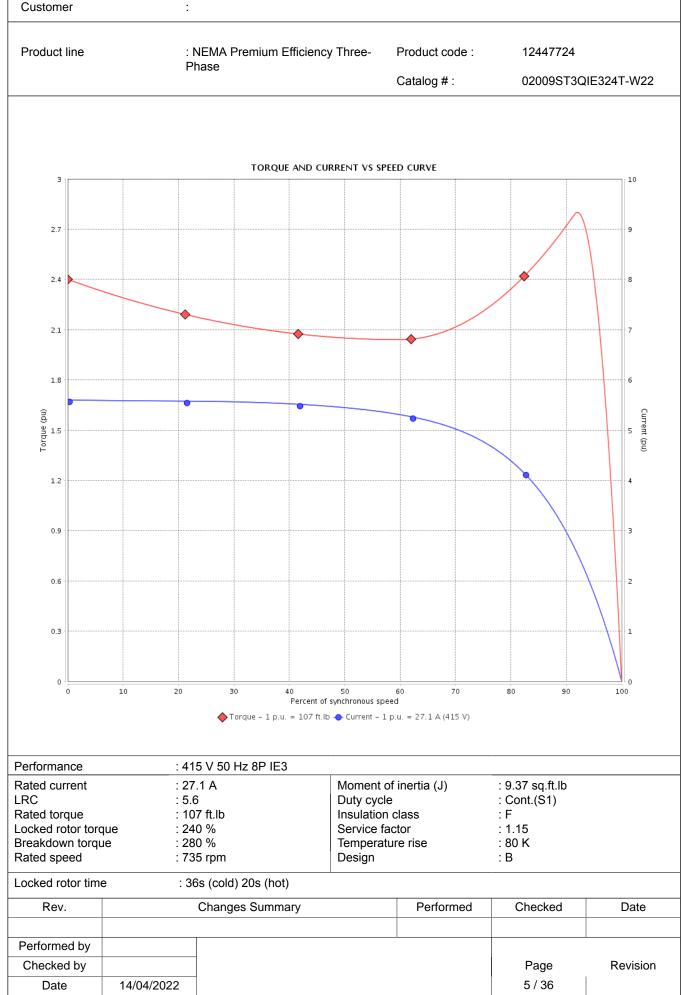
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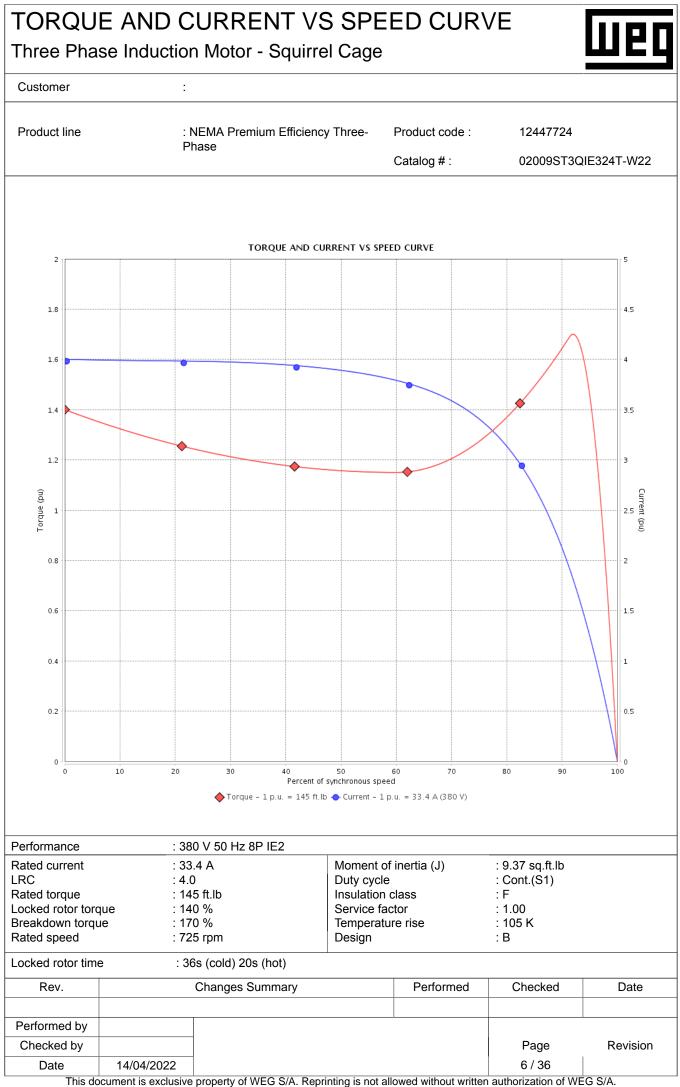
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



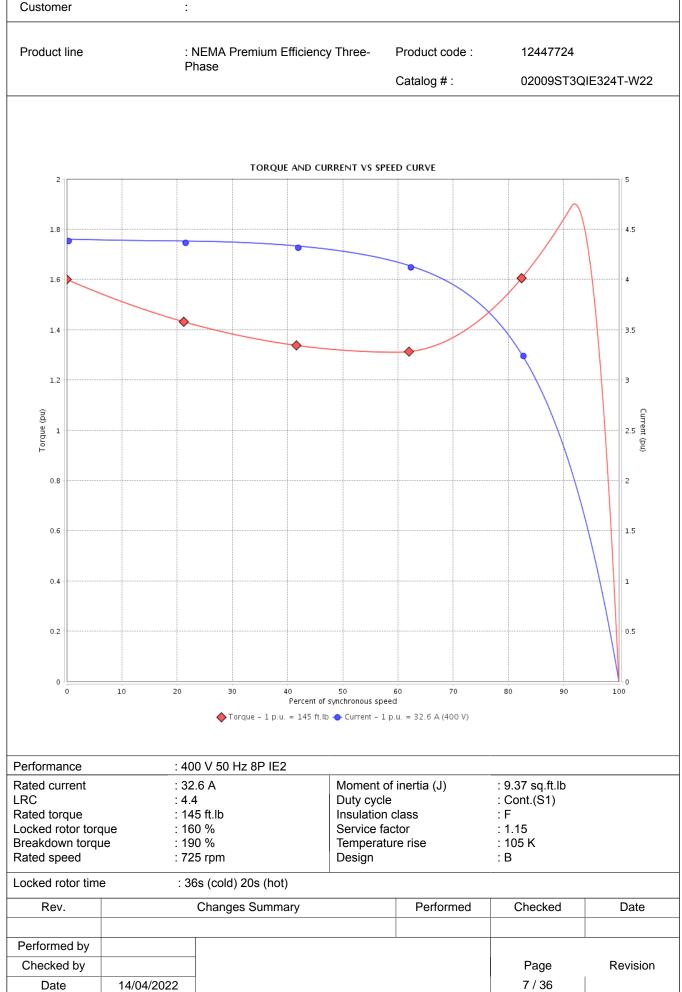
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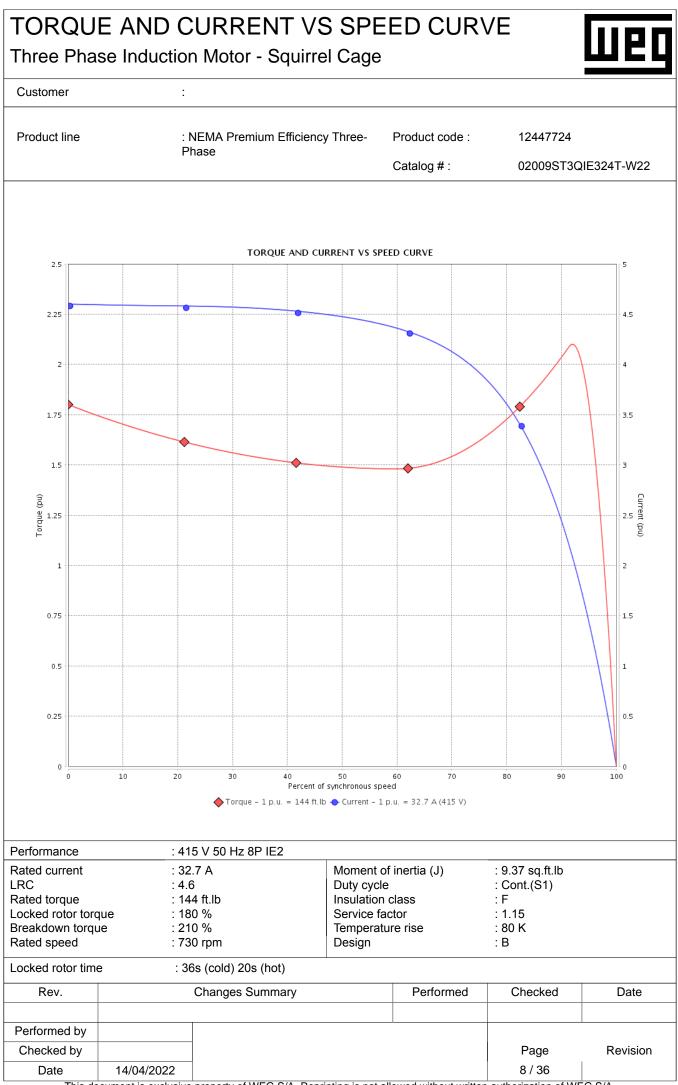
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer

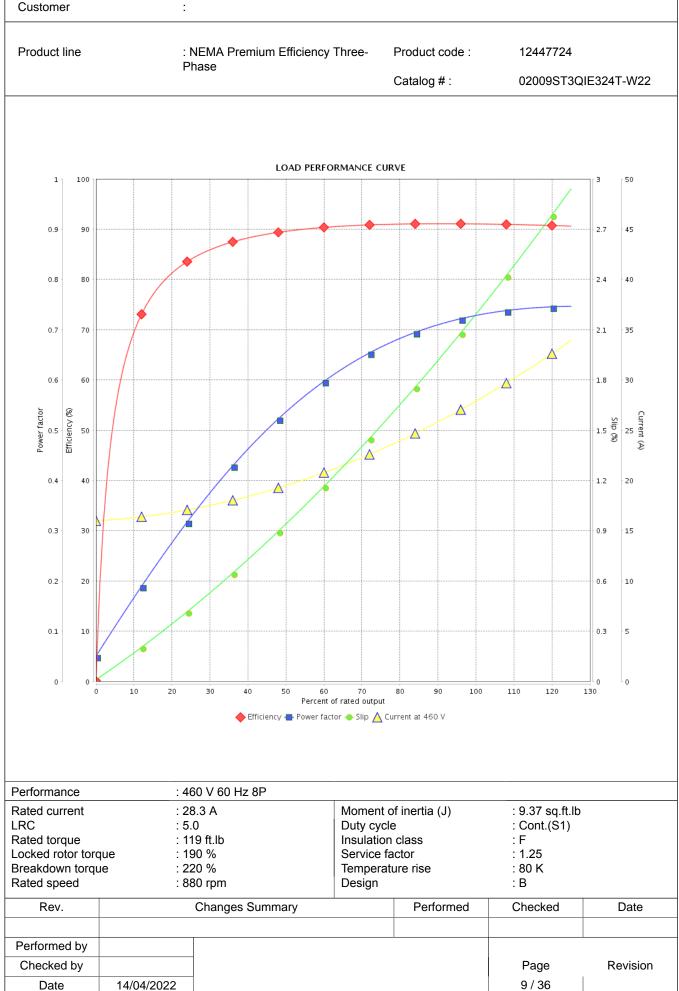


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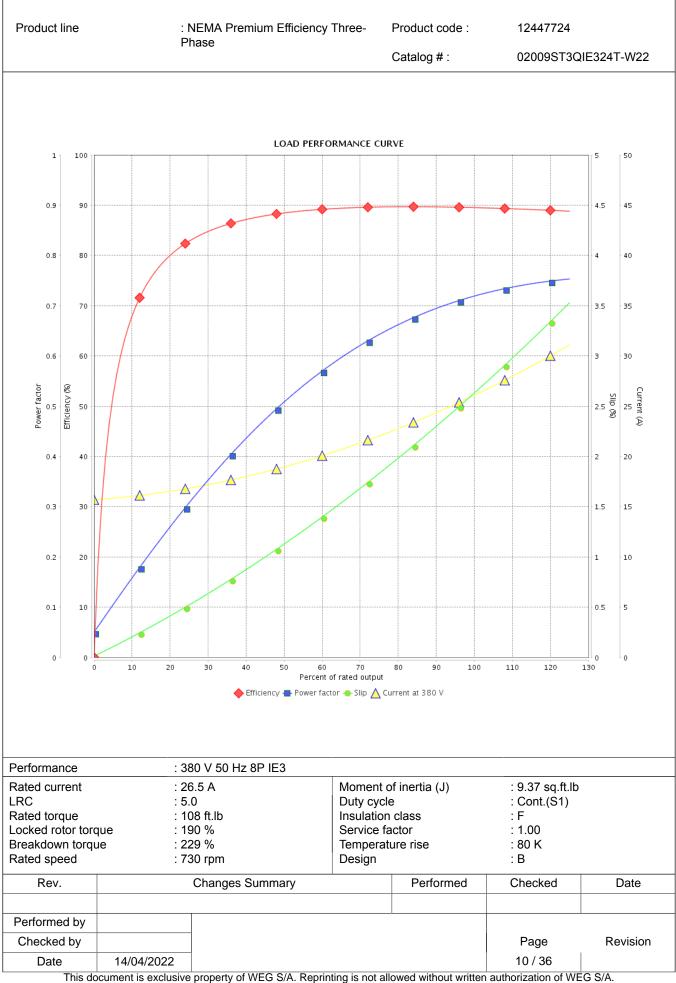
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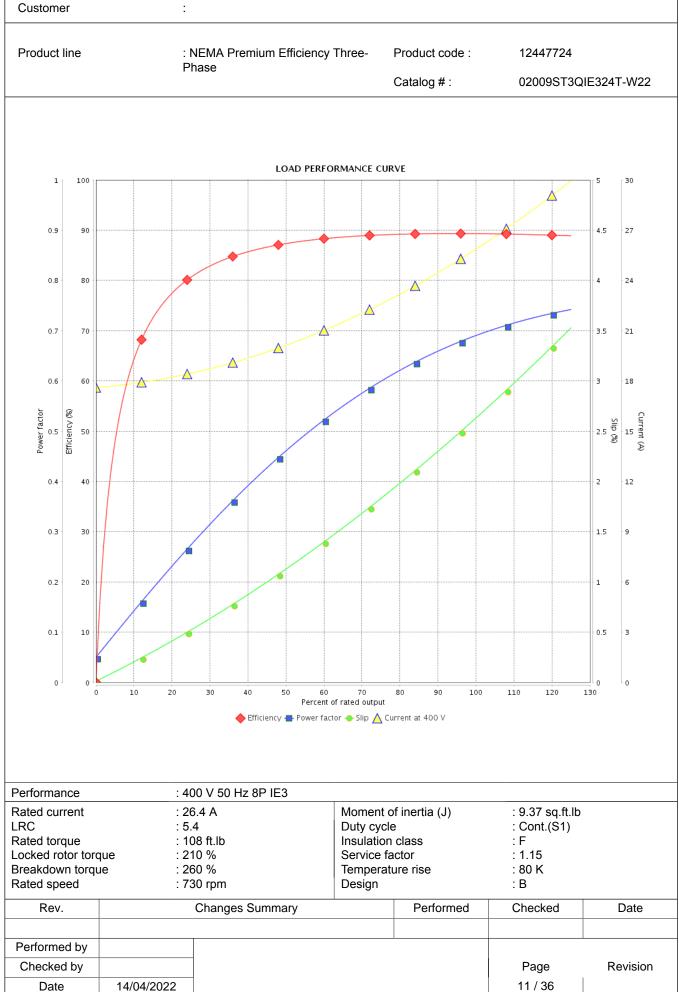


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



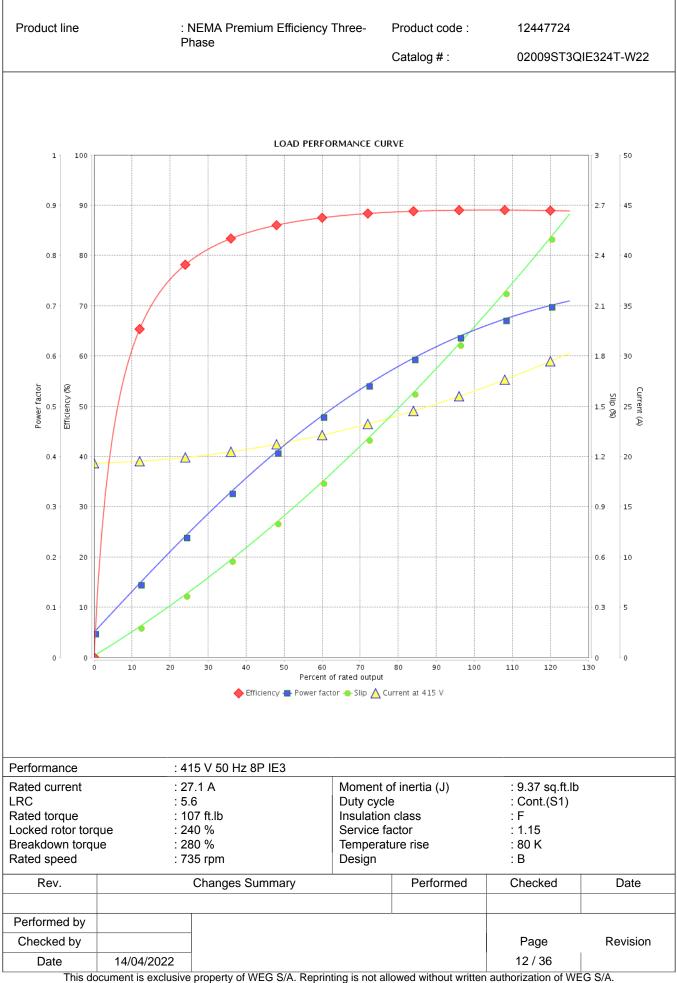
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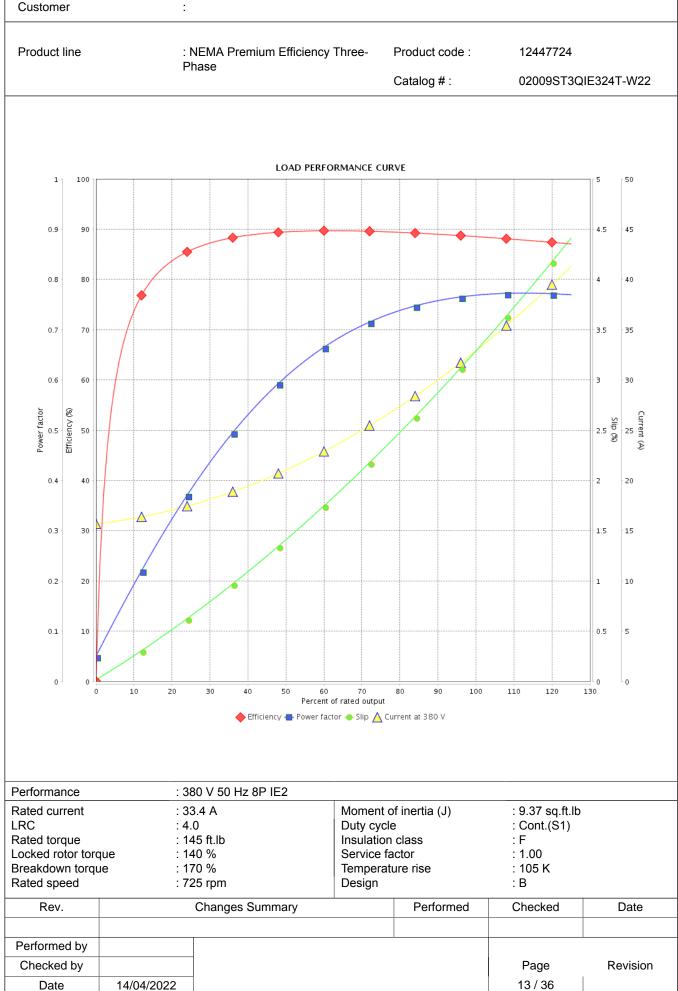


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Three Phase Induction Motor - Squirrel Cage

Customer



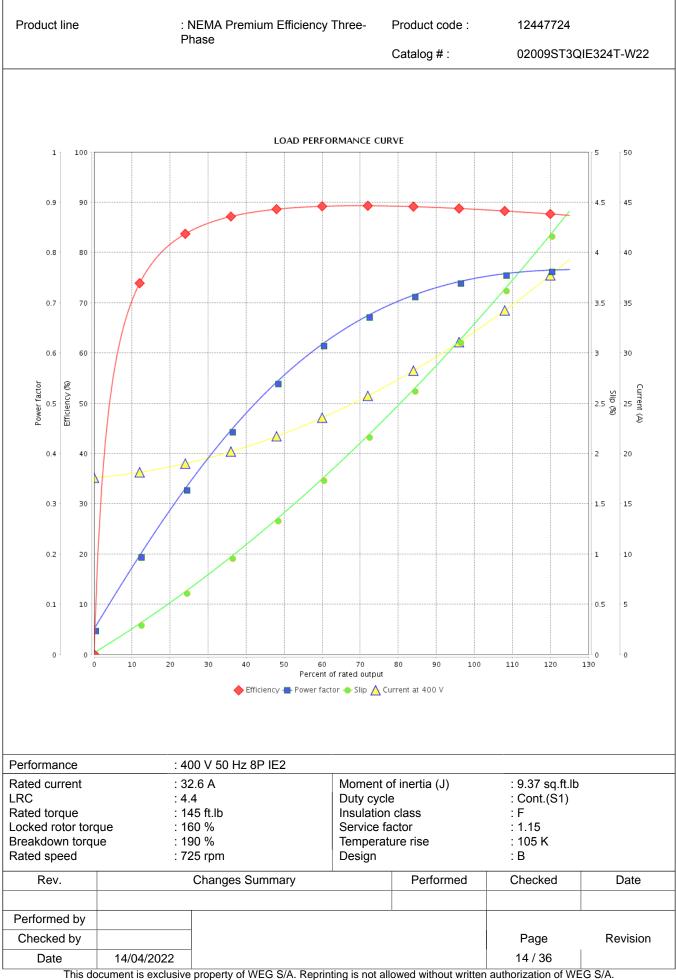
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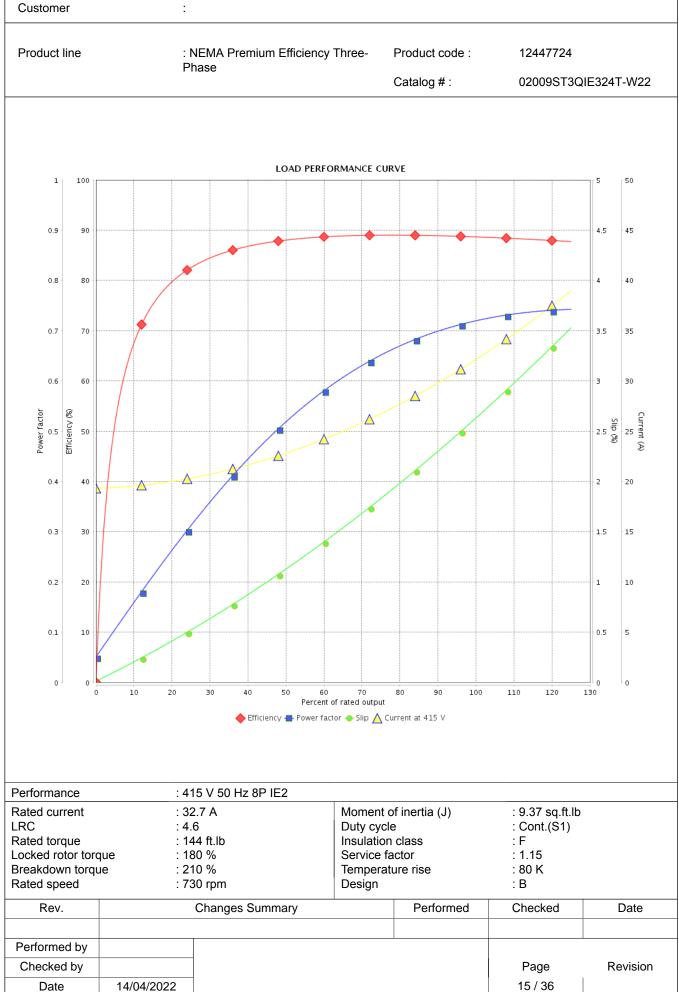


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Three Phase Induction Motor - Squirrel Cage

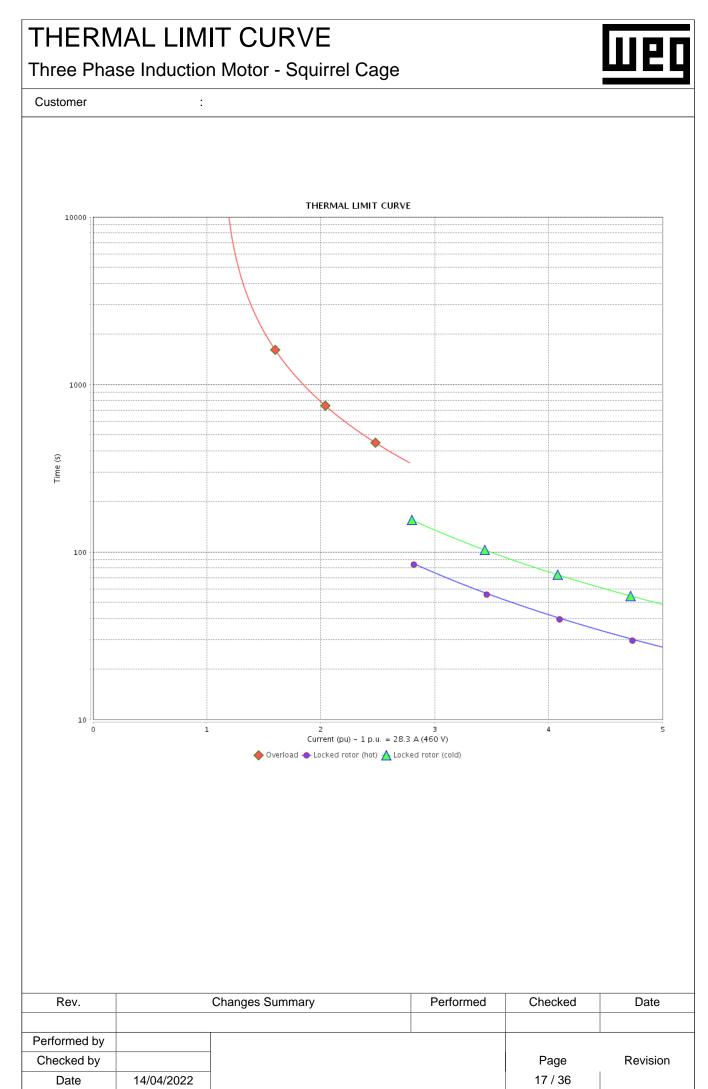
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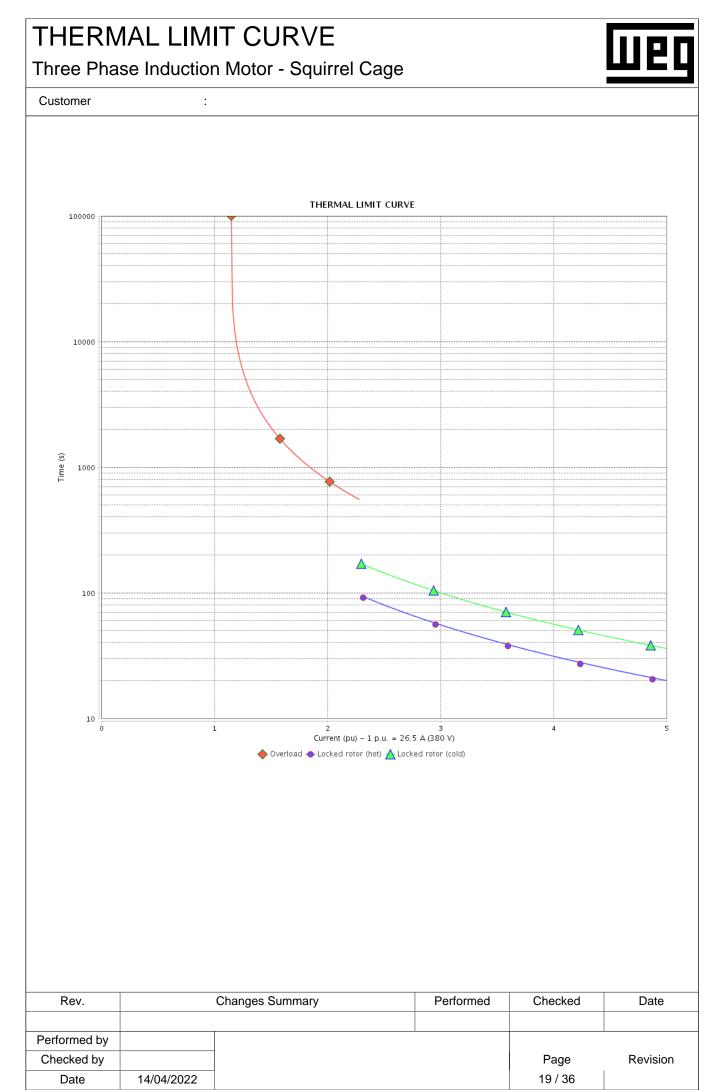
			шер
	ction Motor - Squirrel Cage	,	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447724
		Catalog # :	02009ST3QIE324T-W22
Performance	: 460 V 60 Hz 8P		

Performance	: 4	60 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	:5 :1 que:1 ue:2	8.3 A .0 19 ft.lb 90 % 20 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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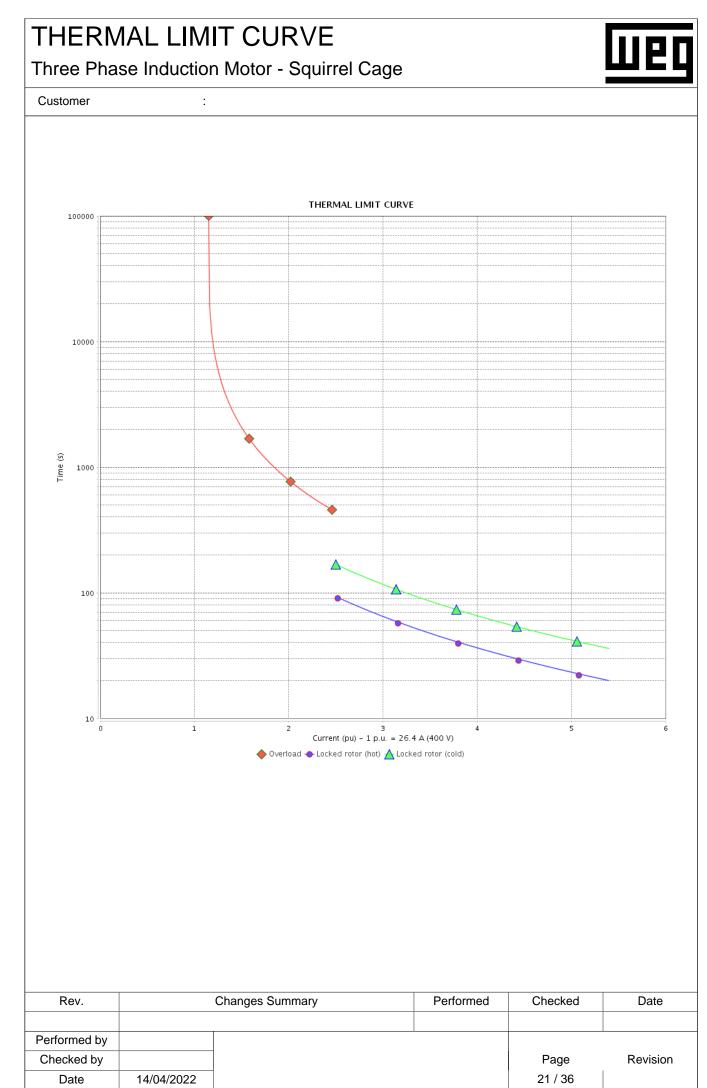
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	duction Motor - Squirrel Cage	9	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12447724
	Phase	Catalog # :	02009ST3QIE324T-W22
Performance Rated current	: 380 V 50 Hz 8P IE3 : 26.5 A Mome	nt of inertia (J)	: 9.37 sq.ft.lb

Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 10 que : 19 ue : 22	6.5 A 0 08 ft.lb 90 % 29 % 30 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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	LIMIT CURVE		шер
Three Phase Ir	nduction Motor - Squirrel Ca	ge	
	·		
Product line	: NEMA Premium Efficiency Three Phase	e- Product code :	12447724
		Catalog # :	02009ST3QIE324T-W22
Performance	: 400 V 50 Hz 8P IE3		
Rated current		nent of inertia (J)	: 9.37 sq.ft.lb
LRC Rated torque	: 5.4 Dut	y cycle Ilation class	: Cont.(S1) : F

LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 1 jue : 2 je : 2	: 5.4Duty cycle: 108 ft.lbInsulation class: 210 %Service factor: 260 %Temperature rise: 730 rpmDesign		class ctor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				20 / 36	



THERMAL LI	MIT CURVE	Cage		Шер		
Customer	:					
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	12447724 02009ST3QIE324T-W22		
Performance	: 415 V 50 Hz 8P IE3					
Rated current LRC	: 27.1 A : 5.6	Moment of Duty cycl	of inertia (J)	: 9.37 sq.ft.lb : Cont.(S1)		
Rated torque	: 107 ft.lb	Insulation		: F		
Locked rotor torque	: 240 %	Service fa	actor	: 1.15		
Breakdown torque Rated speed	: 280 % : 735 rpm	Temperat Design	lure fise	: 80 K : B		

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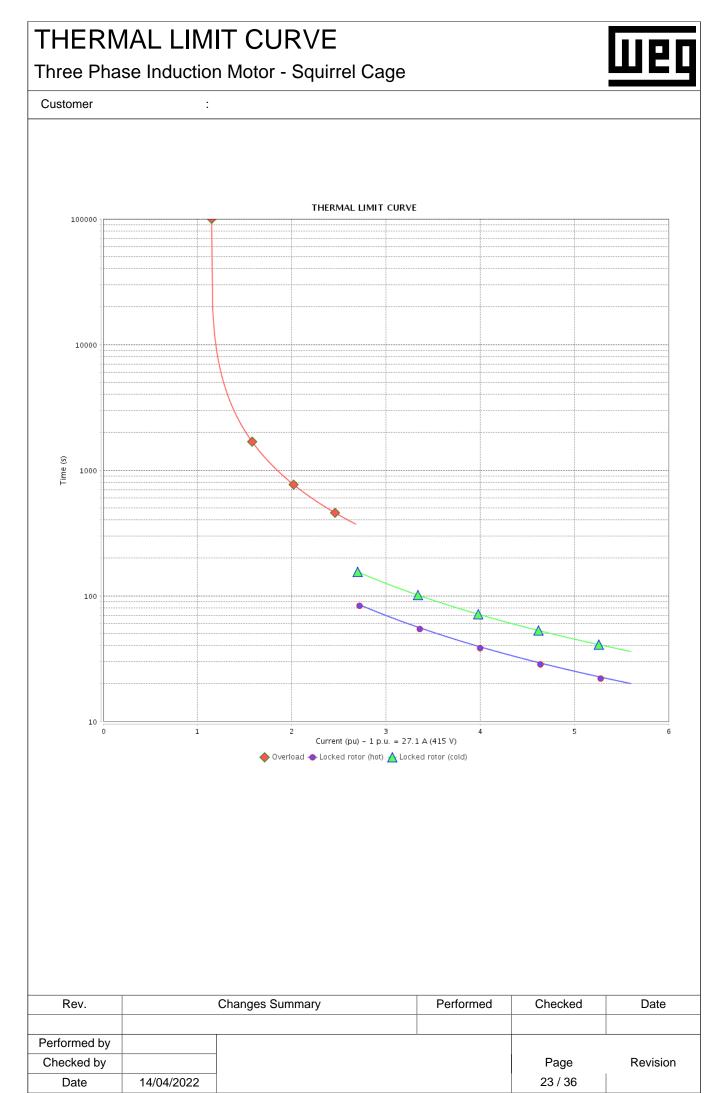
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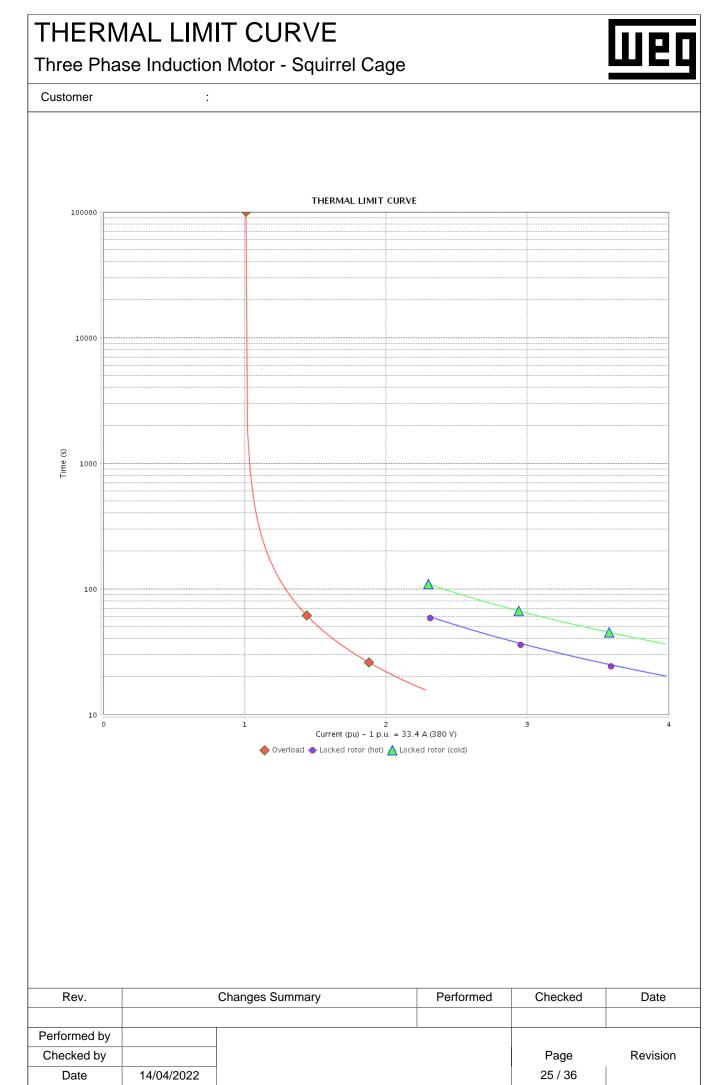
Date

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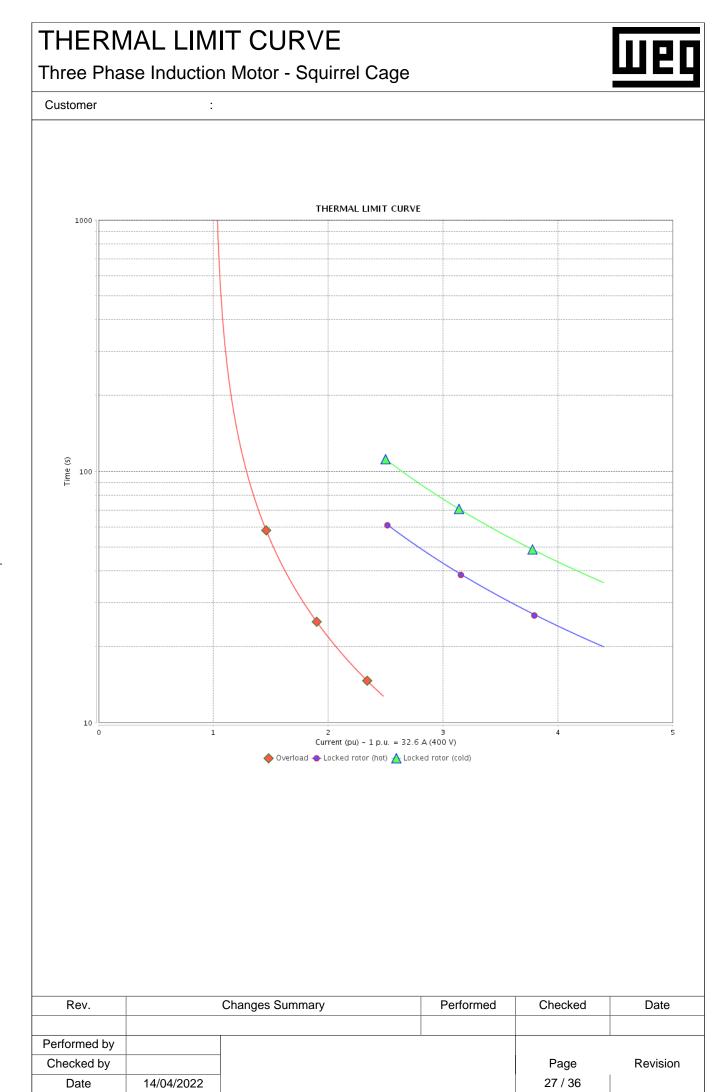
	LIMIT CURVE		Шер
Three Phase In	duction Motor - Squirrel C	age	
Customer	:		
Product line	: NEMA Premium Efficiency Thr	ree- Product code :	12447724
	Phase	Catalog # :	02009ST3QIE324T-W22
Performance	: 380 V 50 Hz 8P IE2		
Rated current LRC	: 33.4 A M : 4.0 D	loment of inertia (J) uty cycle	: 9.37 sq.ft.lb : Cont.(S1)

Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4 : 1 que : 1 ue : 1	3.4 A .0 45 ft.lb 40 % 70 % 25 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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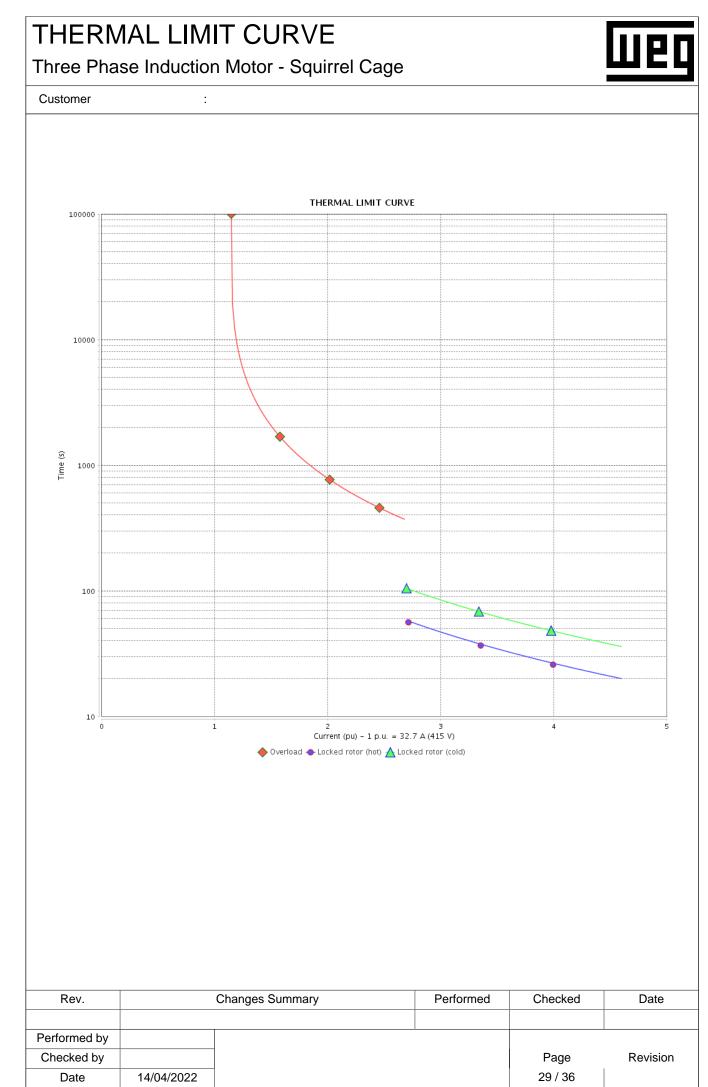
THERMAL LIMIT CURVE						
Three Phase Ind	luction Motor - Squirrel (Cage	шсч			
Customer	:					
Product line	: NEMA Premium Efficiency TI	hree- Product code :	12447724			
	Phase	Catalog # :	02009ST3QIE324T-W22			
Performance Rated current	: 400 V 50 Hz 8P IE2 : 32.6 A	Moment of inertia (J)	: 9.37 sq.ft.lb			
LRC	: 4.4	Duty cycle	: Cont.(S1)			
Rated torque		Insulation class Service factor	: F : 1.15			

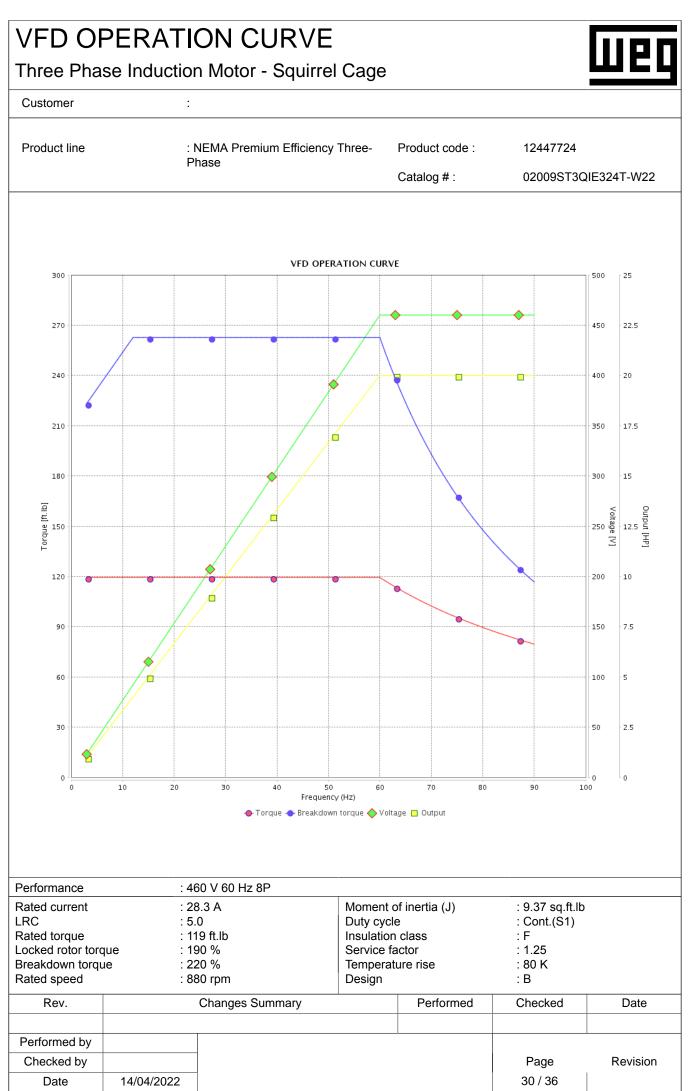
Rated torque Locked rotor torque Breakdown torque Rated speed		4.4 145 ft.lb 160 % 190 % 725 rpm	Insulation Service fa	Insulation class Service factor Temperature rise Design		
Heating constan	t					
Cooling constant	t					
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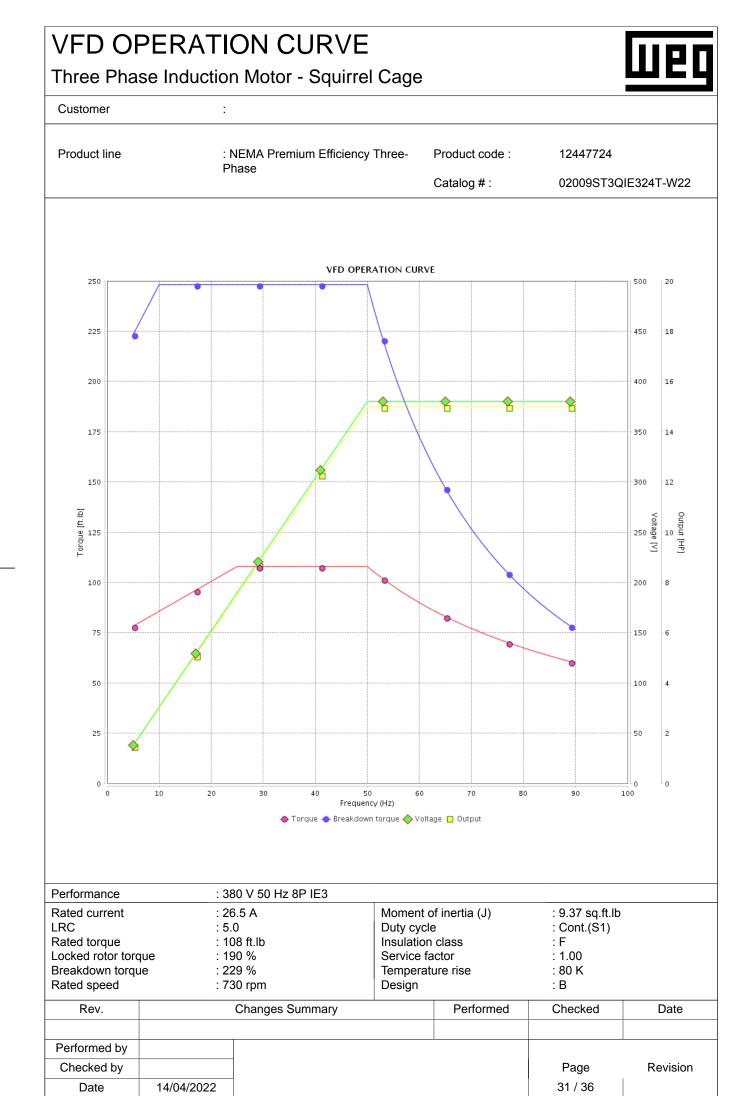


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	LIMIT CURVE luction Motor - Squirrel C	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	12447724 02009ST3QIE324T-W22
Performance	: 415 V 50 Hz 8P IE2		
Rated current LRC Rated torque Locked rotor torque	: 32.7 A N : 4.6 E : 144 ft.lb	Aoment of inertia (J) Duty cycle nsulation class Service factor	: 9.37 sq.ft.lb : Cont.(S1) : F : 1.15
Breakdown torque	: 210 %	emperature rise	: 80 K

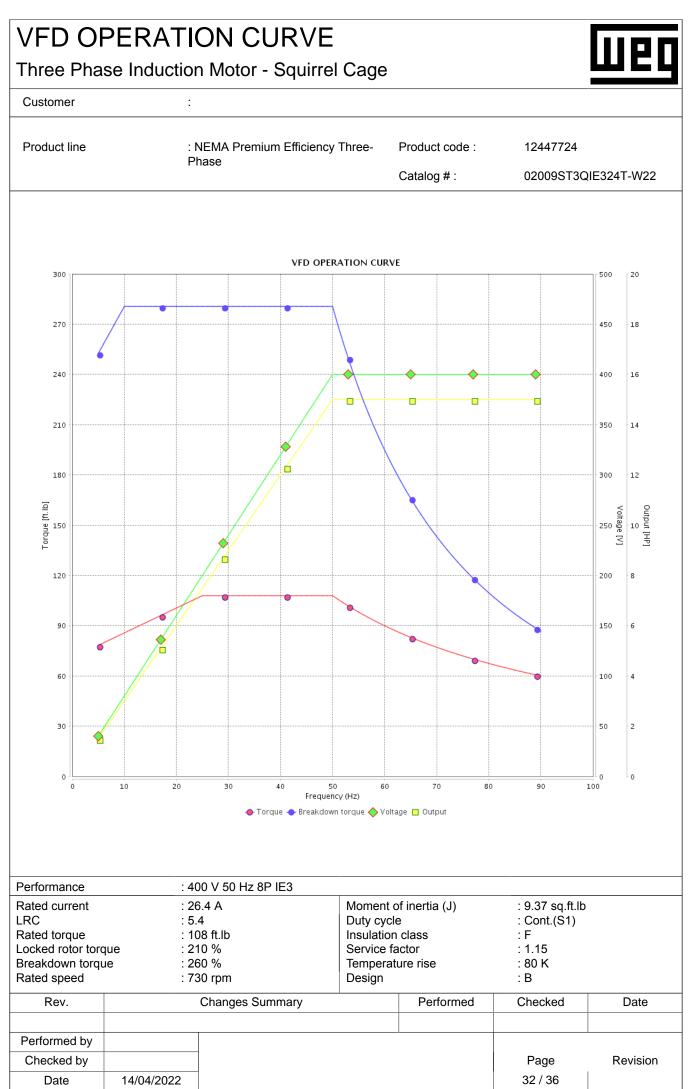
	1	00 /0				
		10 %	Temperat	ure rise	: 80 K	
		30 rpm Design			: B	
Heating constant	t					
Cooling constant	t					
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Date	14/04/2022	_			28 / 36	

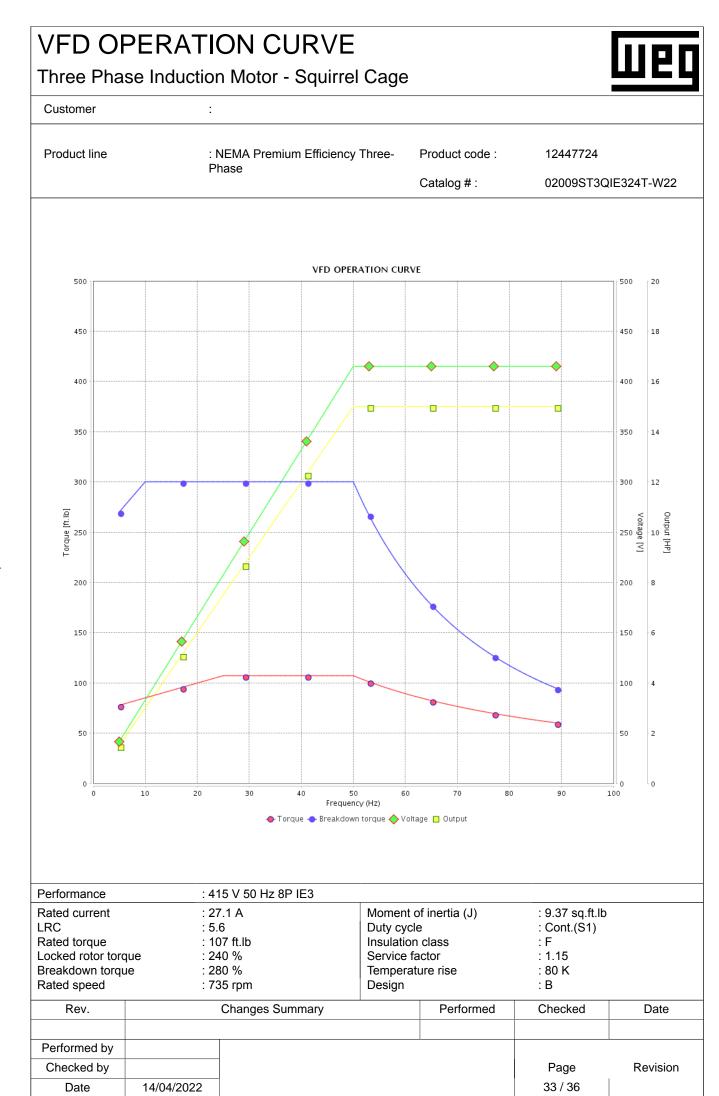


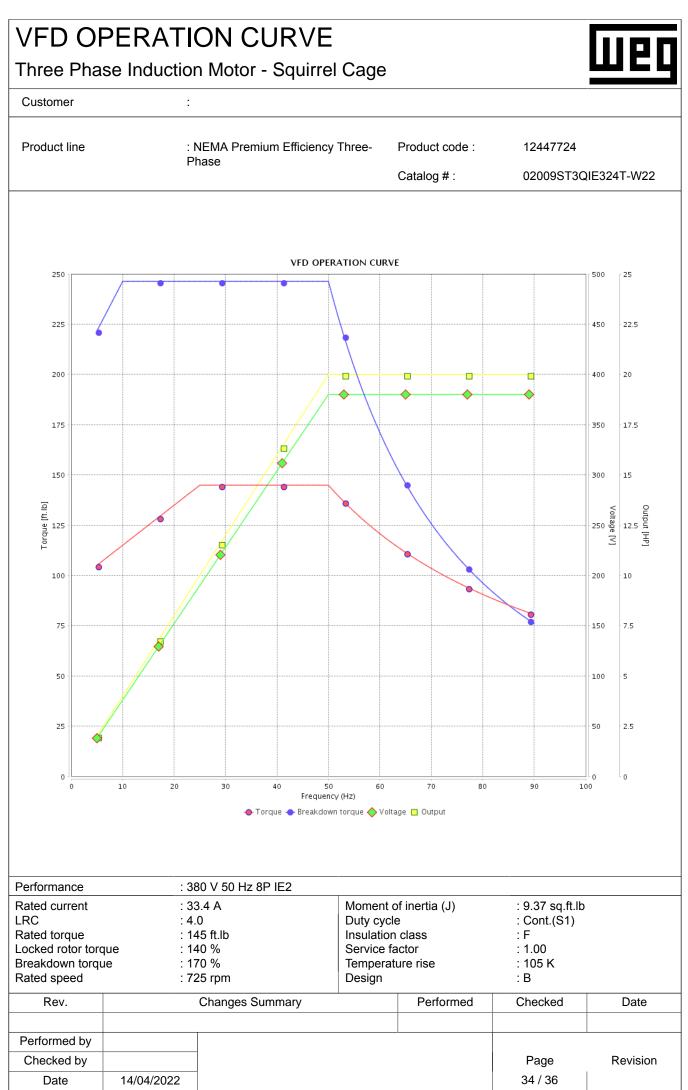


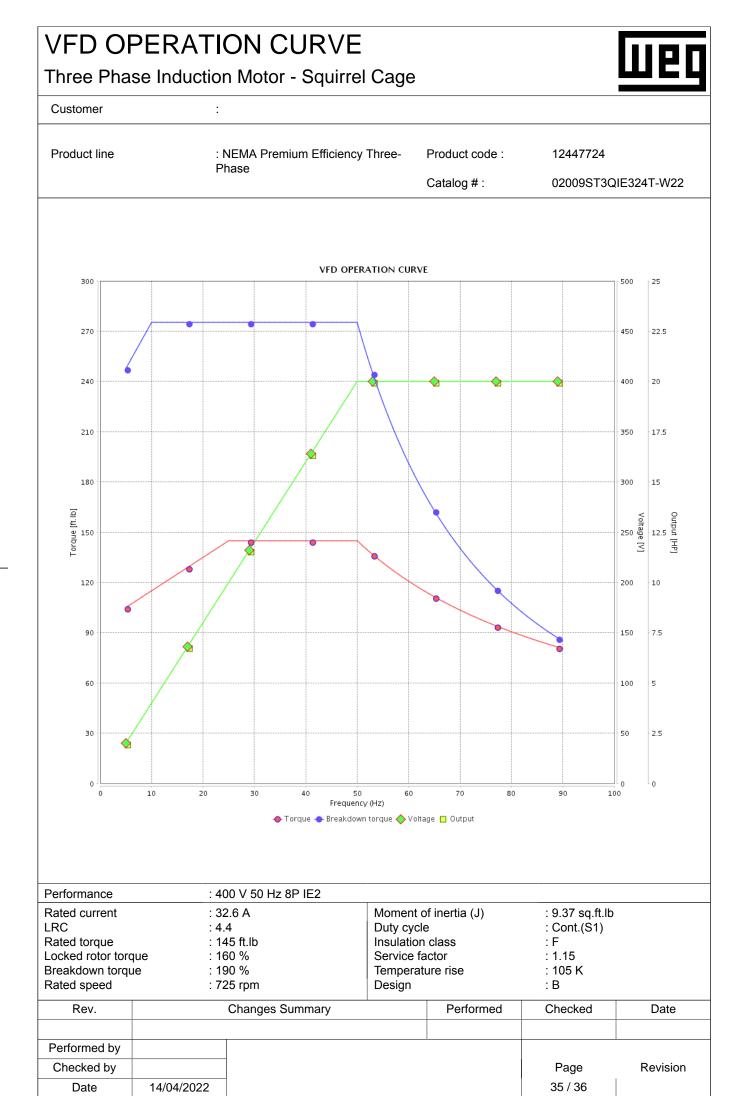


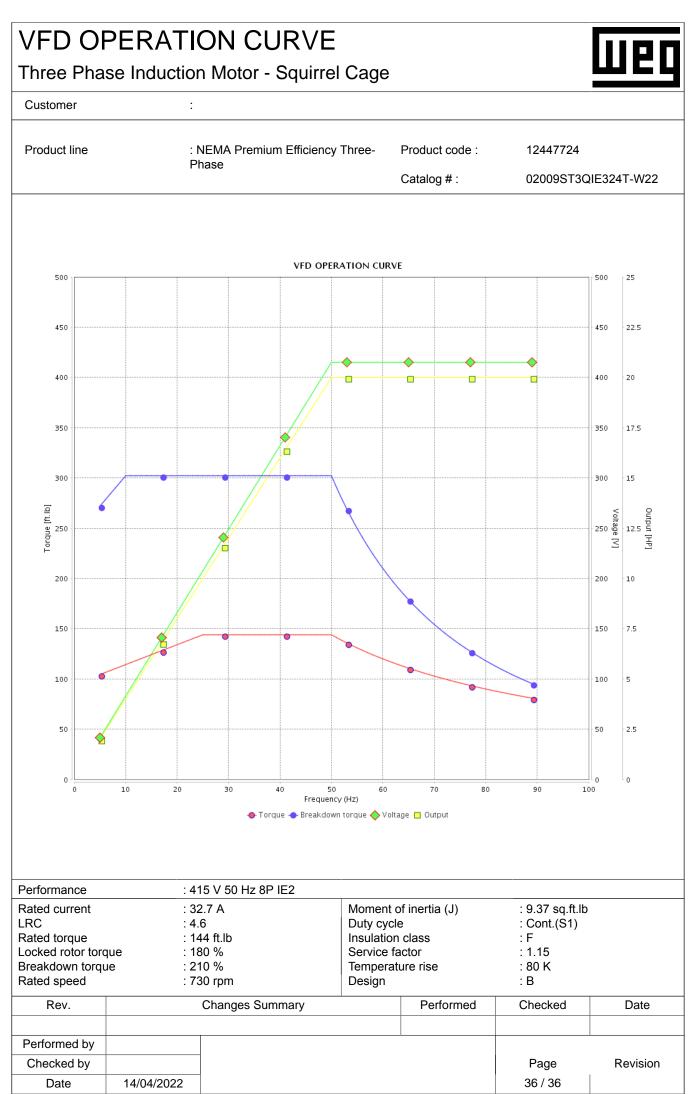
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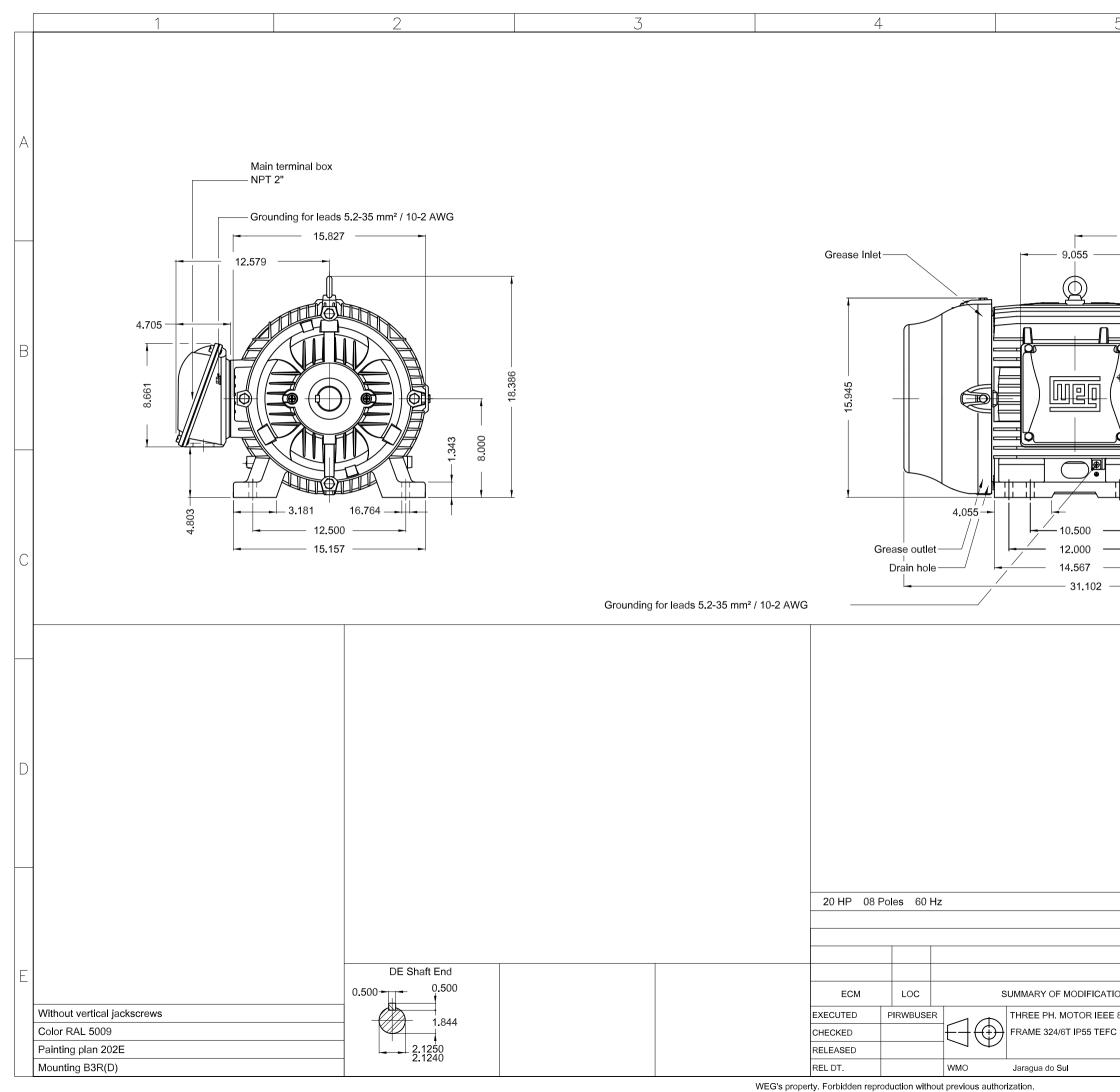












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Product	Engineering	SHEET	1 / 1		XME

