# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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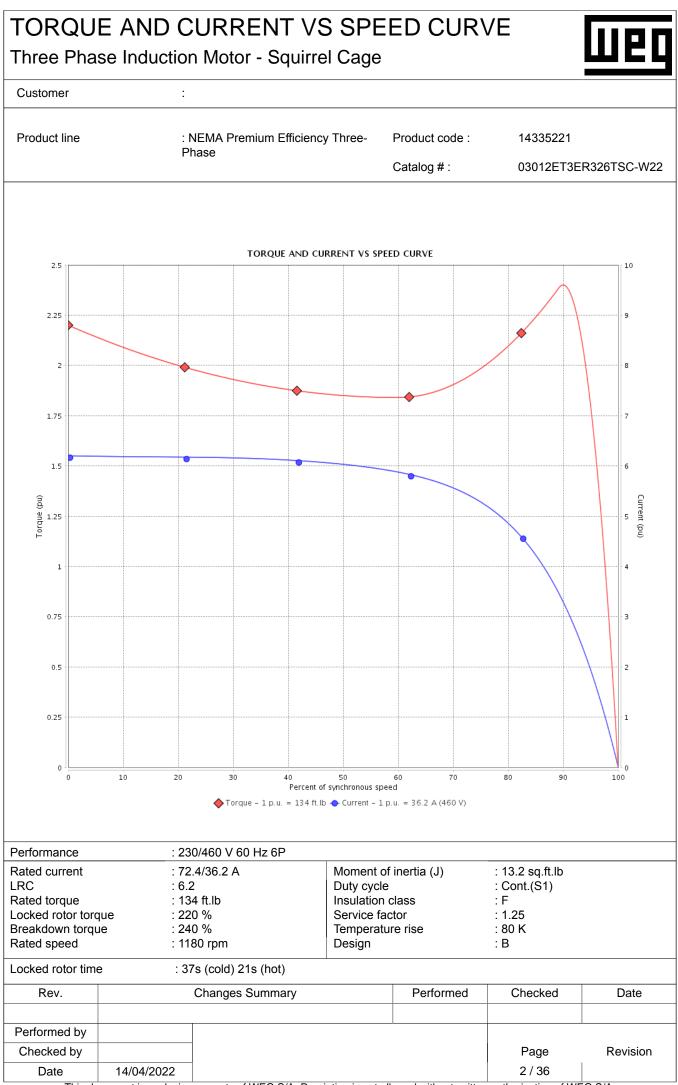
#### Customer

Product line		: NEMA Pre Phase	mium Efficien	cy Three-	Product code :		14335221	
		Phase			Catalog # :	03	012ET3ER32	6TSC-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 326TSC : F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55 : B		Mounti Rotatio Startin Approx		: V : E : C : 5	C411 - TEFC V-6 Both (CW and Direct On Line 94 lb 3.2 sq.ft.lb	CCW)
Output [HP]		30	25	25	25	30	30	30
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		72.4/36.2	36.9	36.2	35.4	43.7	41.7	40.7
. R. Amperes [A]		449/224	214 5.8x(Code	228 6 3x(Codo H)	237 6.7x(Code H)	214 4 0x(Codo E)	225	236
_RC [A]		6.2x(Code G)	5.8x(Code G)	U.SX(CODE H)		H.SX(COUE E	5.4x(Code F)	5.8x(Code G)
No load current [A	1	29.0/14.5	14.0	15.0	16.0	14.0	15.0	16.0
Rated speed [RPN		1180	975	980	980	970	975	980
Slip [%]	-	1.67	2.50	2.00	2.00	3.00	2.50	2.00
Rated torque [ft.lb	]	134	135	134	134	162	162	161
ocked rotor torqu		220	190	220	240	160	180	200
Breakdown torque		240	229	260	280	200	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
_ocked rotor time		37s (cold) 21s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A
	25%	91.5	91.2	91.2	90.4	92.1	92.1	91.3
Efficiency (%)	50%	91.7	91.3	91.3	90.7	91.7	91.7	91.0
	75% 100%	93.0 93.0	91.8 91.7	92.2 92.1	91.9 92.0	91.7 91.0	92.4 91.7	92.4 91.7
	25%	0.41	0.41	0.39	0.36	0.48	0.44	0.41
	50%	0.41	0.41	0.39	0.58	0.40	0.44	0.41
Power Factor	75%	0.05	0.04	0.01	0.38	0.71	0.08	0.05
	100%	0.82	0.83	0.80	0.79	0.84	0.83	0.70
Bearing type Sealing Lubrication interv Lubricant amour Lubricant type Notes		Drive end           6312 C3           V'Ring           20000 r           21 g           Mobi	3 6212 ( V'Rin	C3   Max. tra g   Max. co h	ition loads action ompression		184 lb 778 lb	
USABLE @208V	aces and car ed. notor from the	ncel the previo	us one, which 3dB(A).		are average va supply, subject			
<ol> <li>Looking the m</li> <li>Looking the m</li> <li>Measured at 1</li> <li>Approximate v</li> <li>manufacturing pro</li> <li>At 100% of full</li> </ol>	weight subjeo ocess.	t to changes a	atter					
<ol> <li>Looking the m</li> <li>Measured at 1</li> <li>Approximate v</li> <li>manufacturing pro</li> </ol>	weight subjeo ocess.		Summary		Performe	ed Che	ecked	Date
<ol> <li>Looking the m</li> <li>Measured at 1</li> <li>Approximate v</li> <li>manufacturing pro</li> <li>At 100% of full</li> </ol>	weight subjeo ocess.				Performe		age	Date

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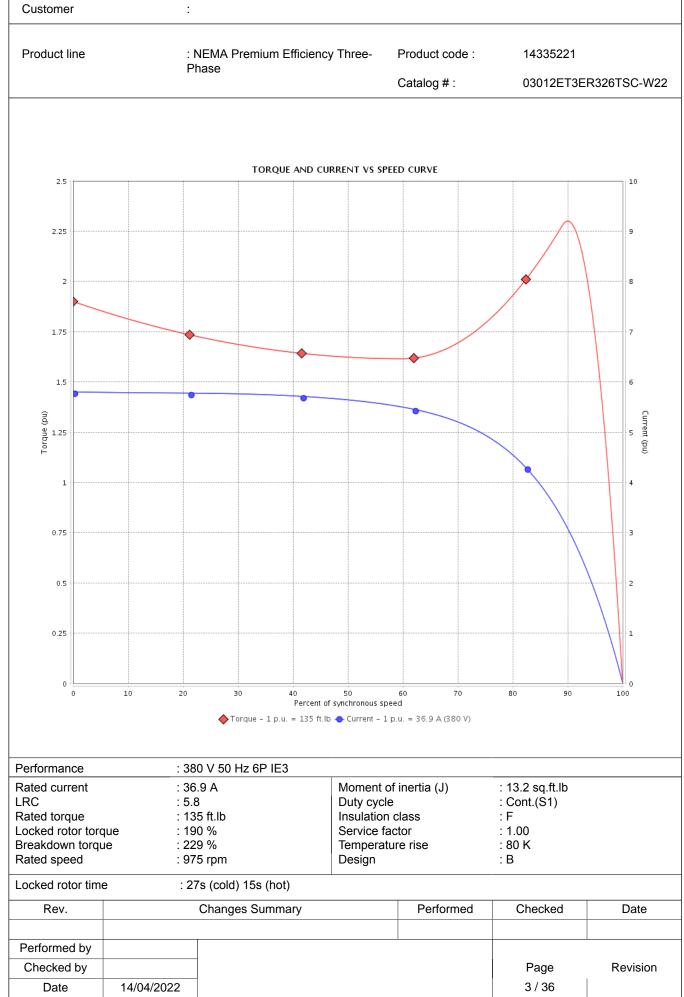
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 1 / 36

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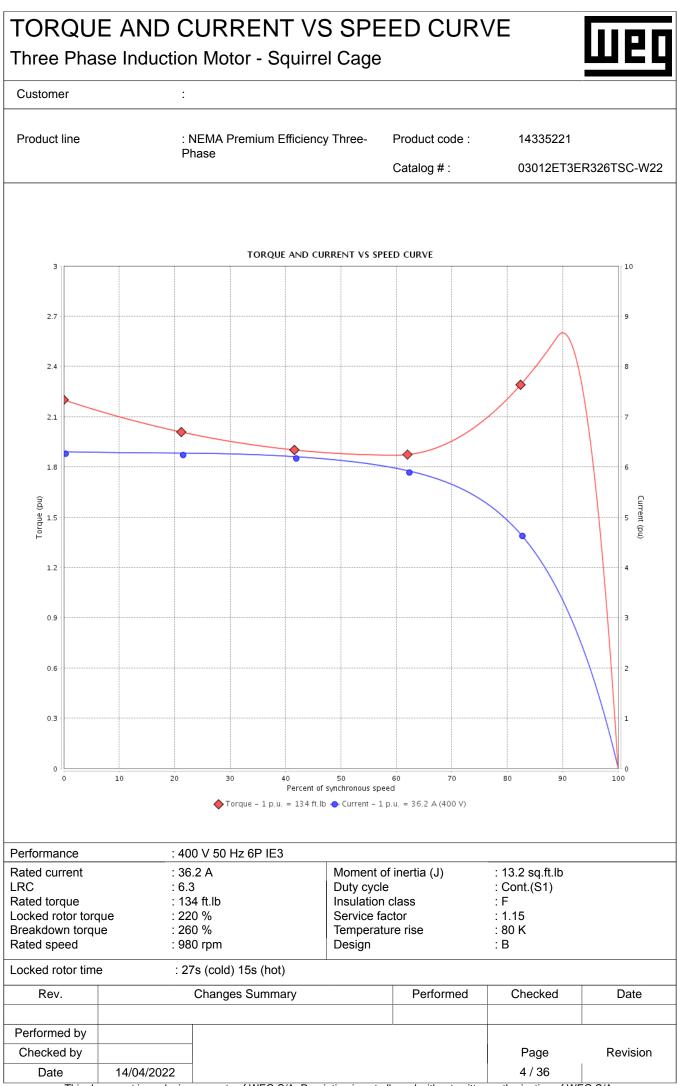


### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



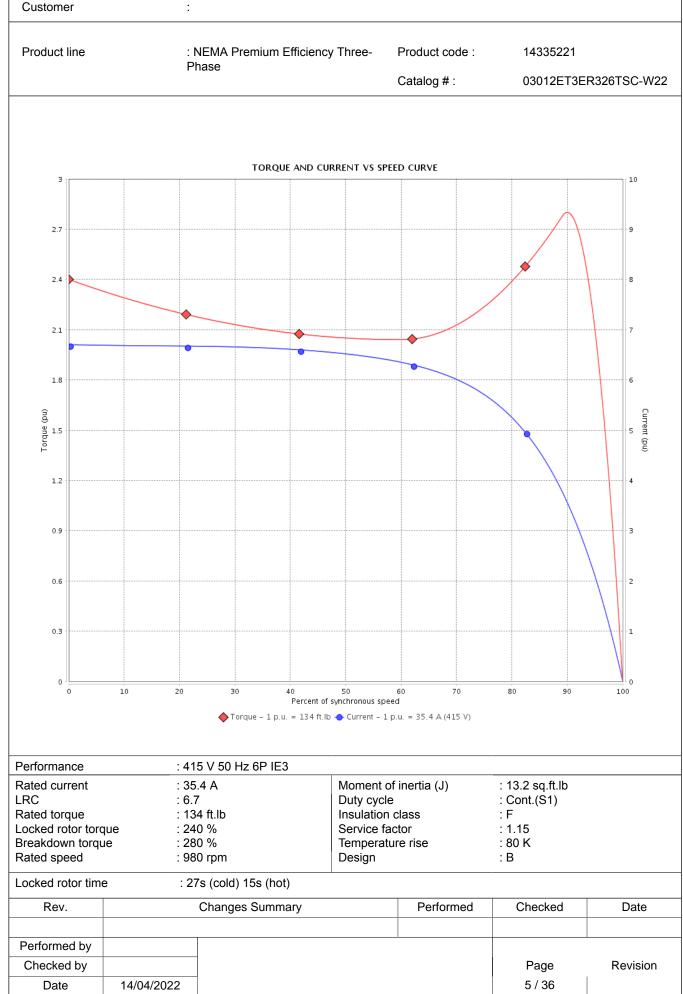
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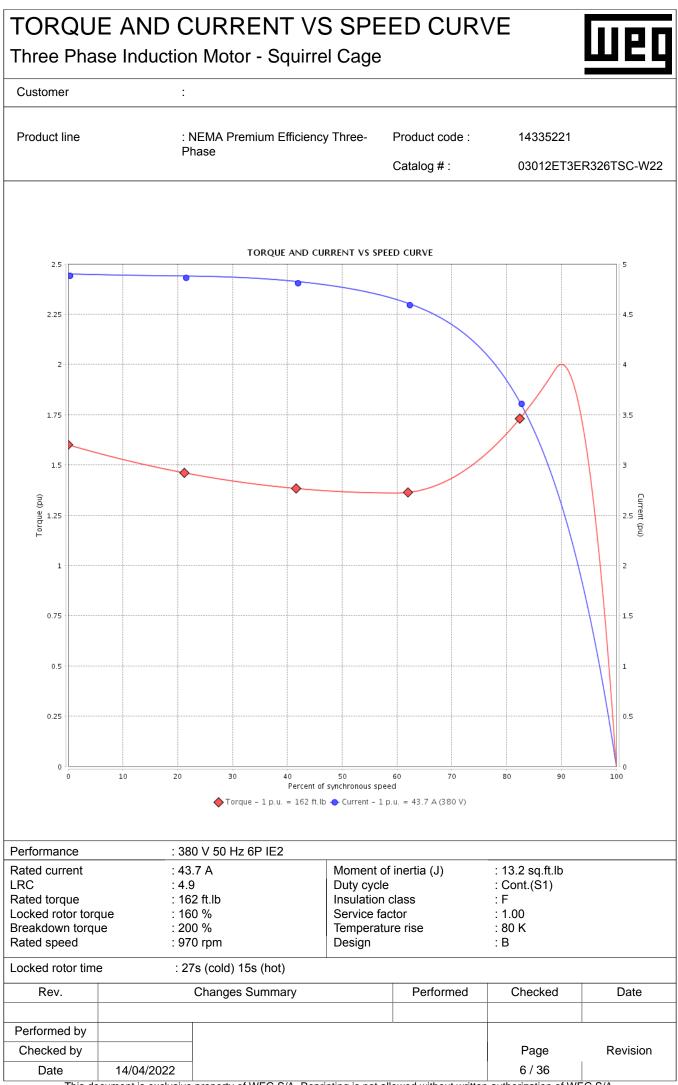
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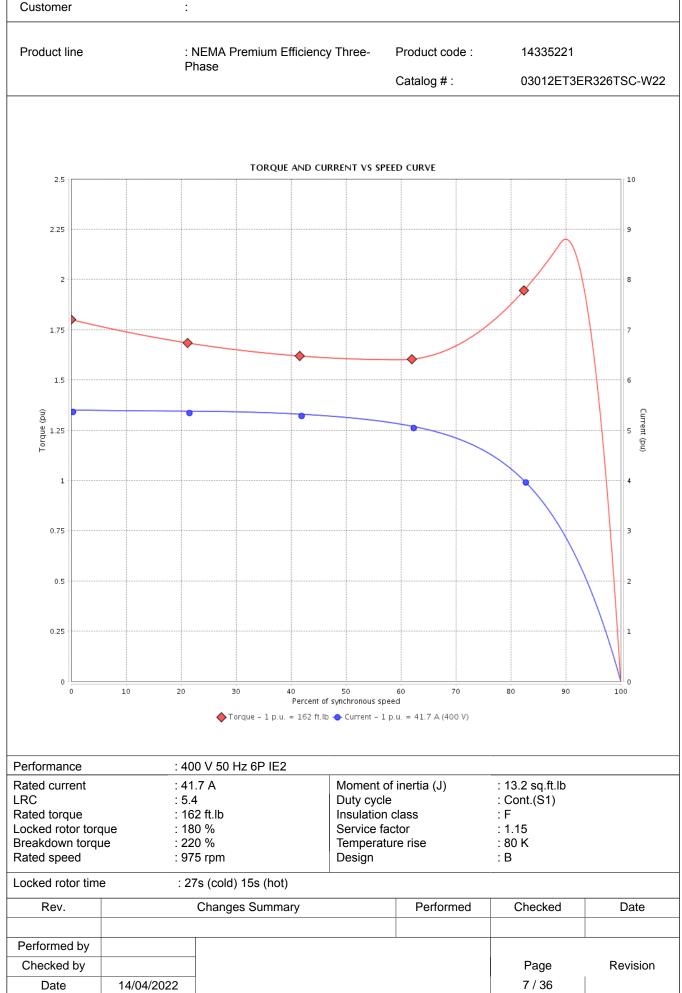
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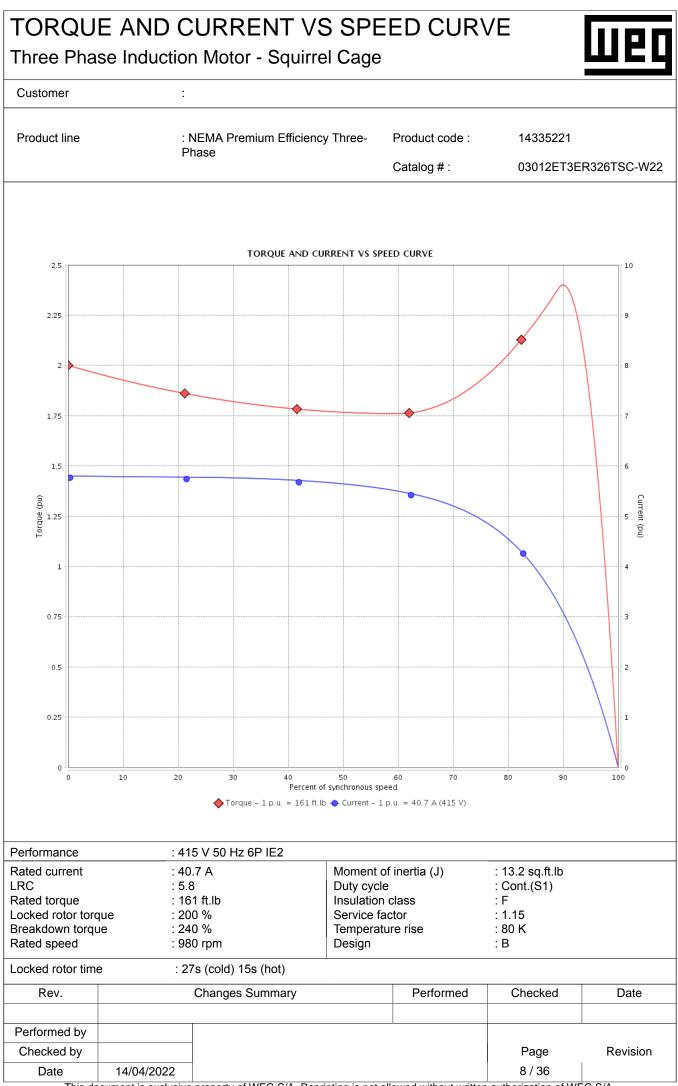
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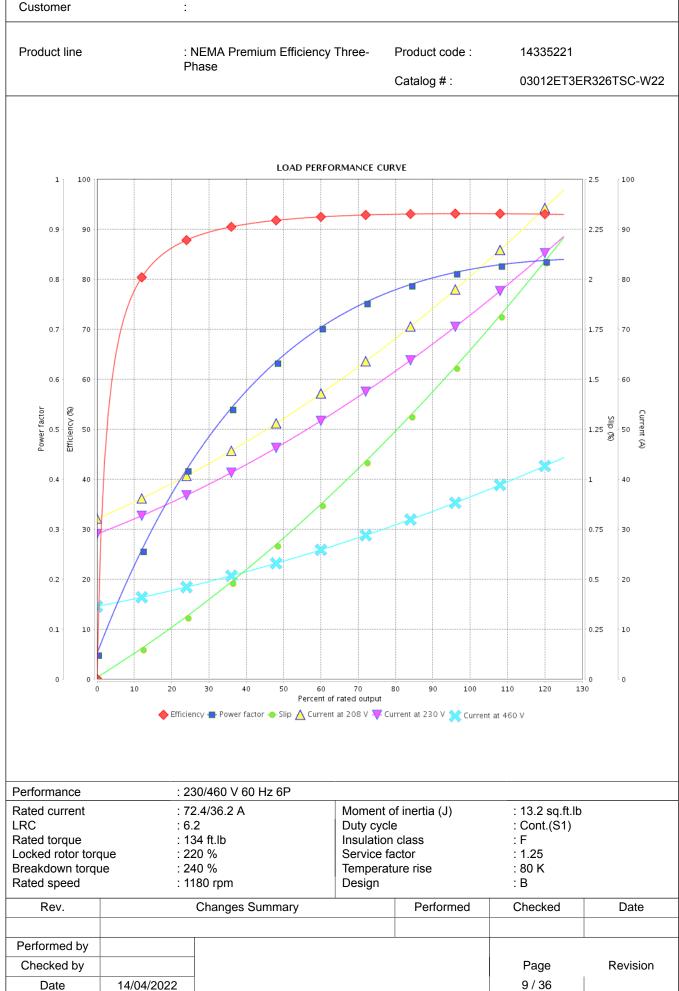


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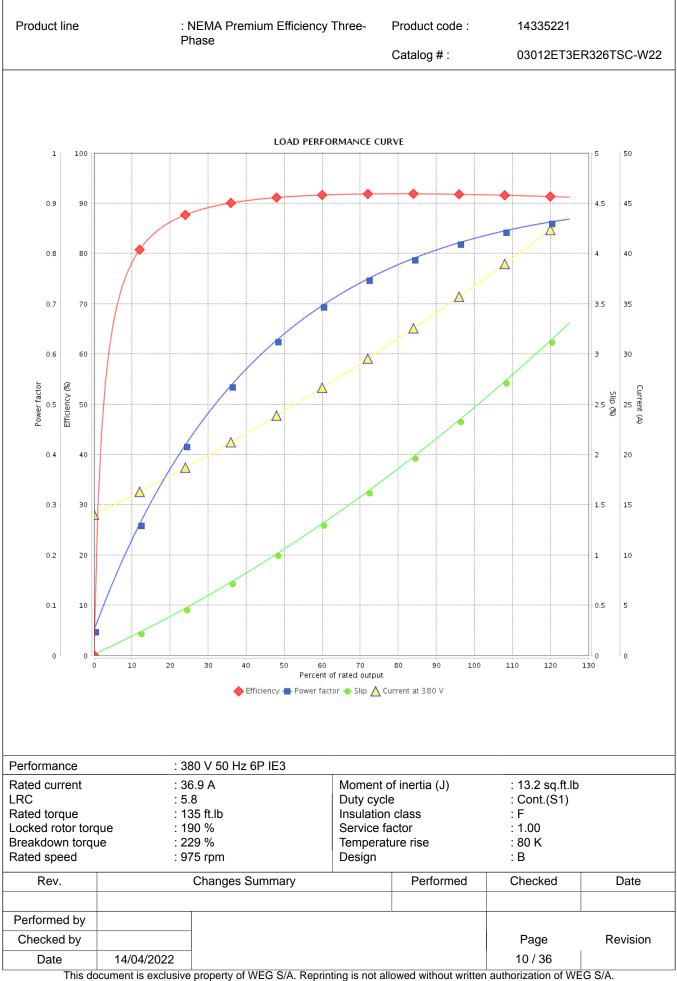
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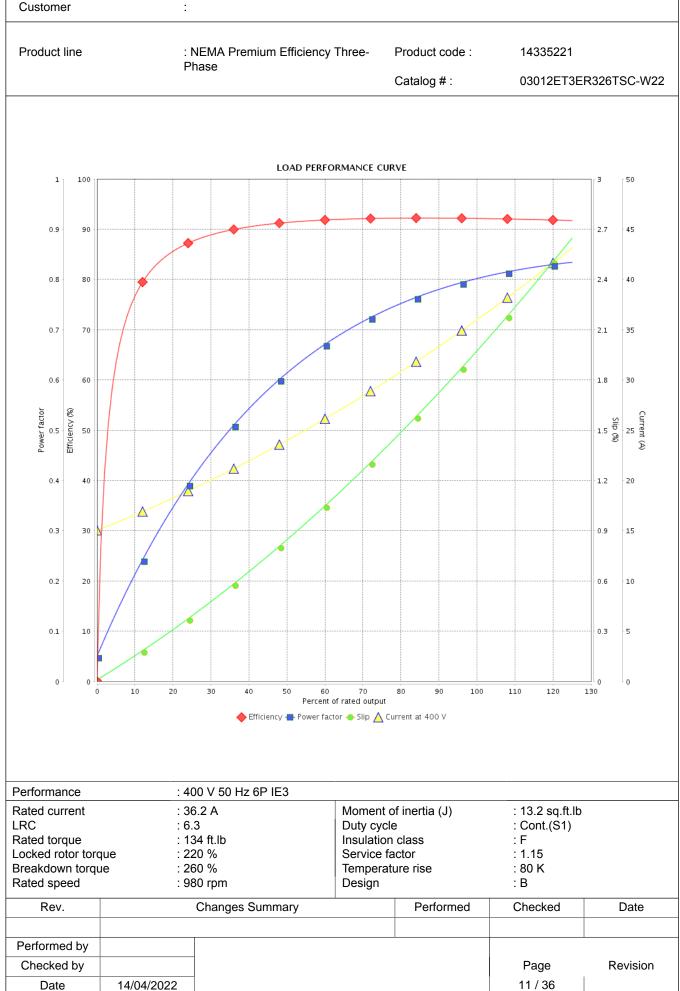


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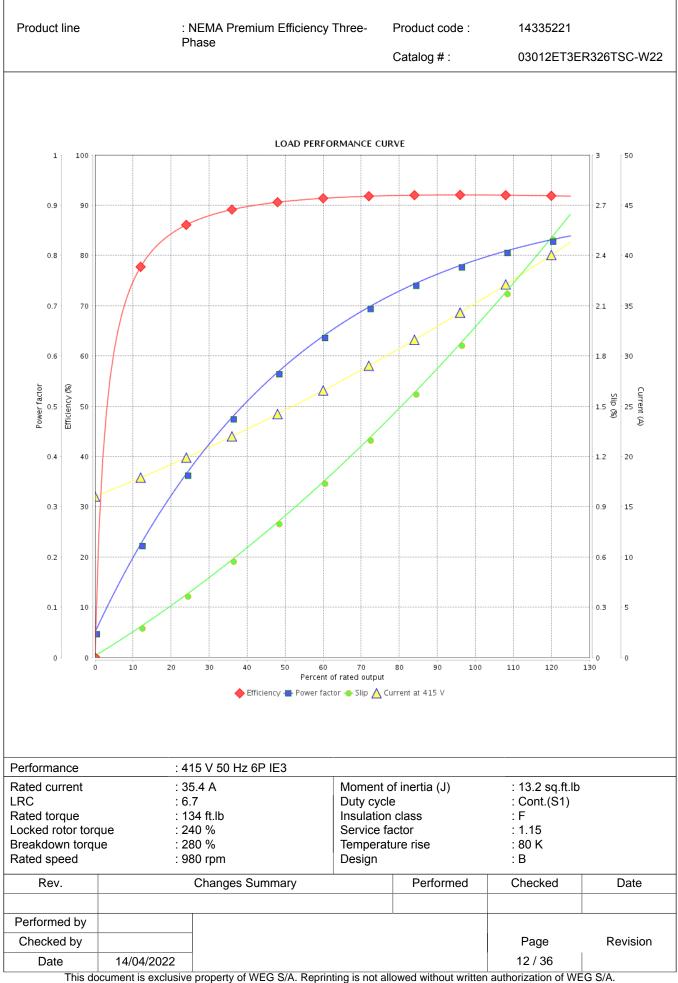
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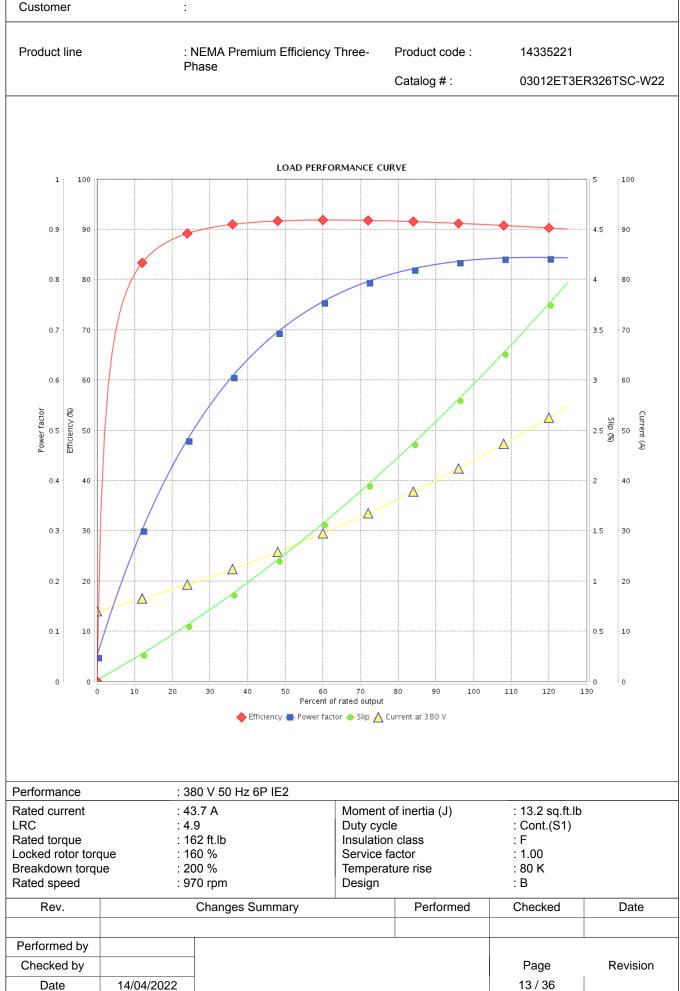
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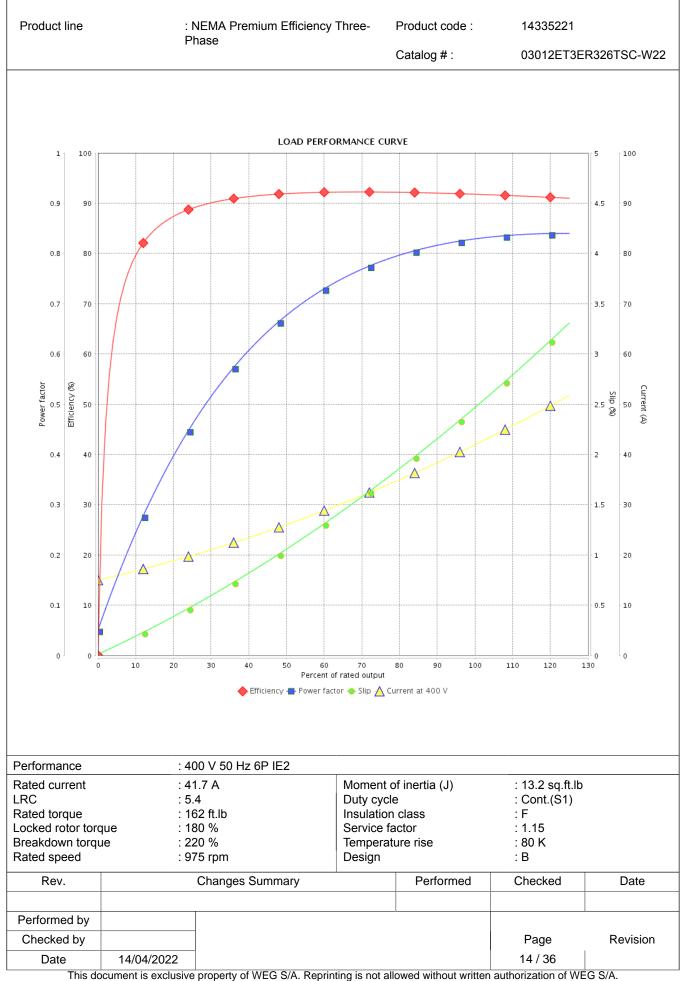
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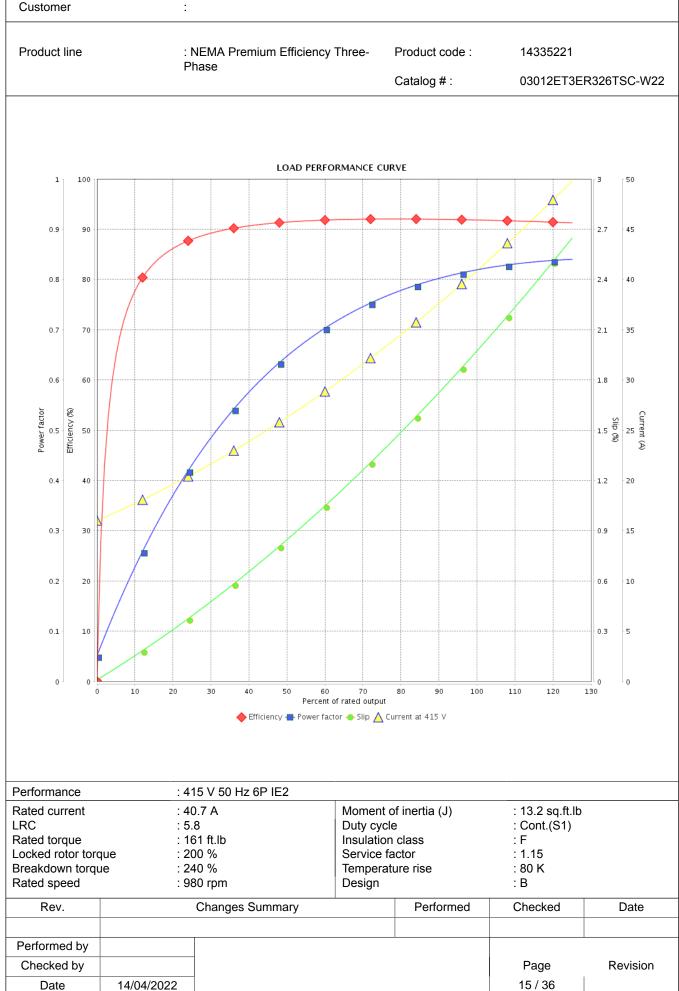


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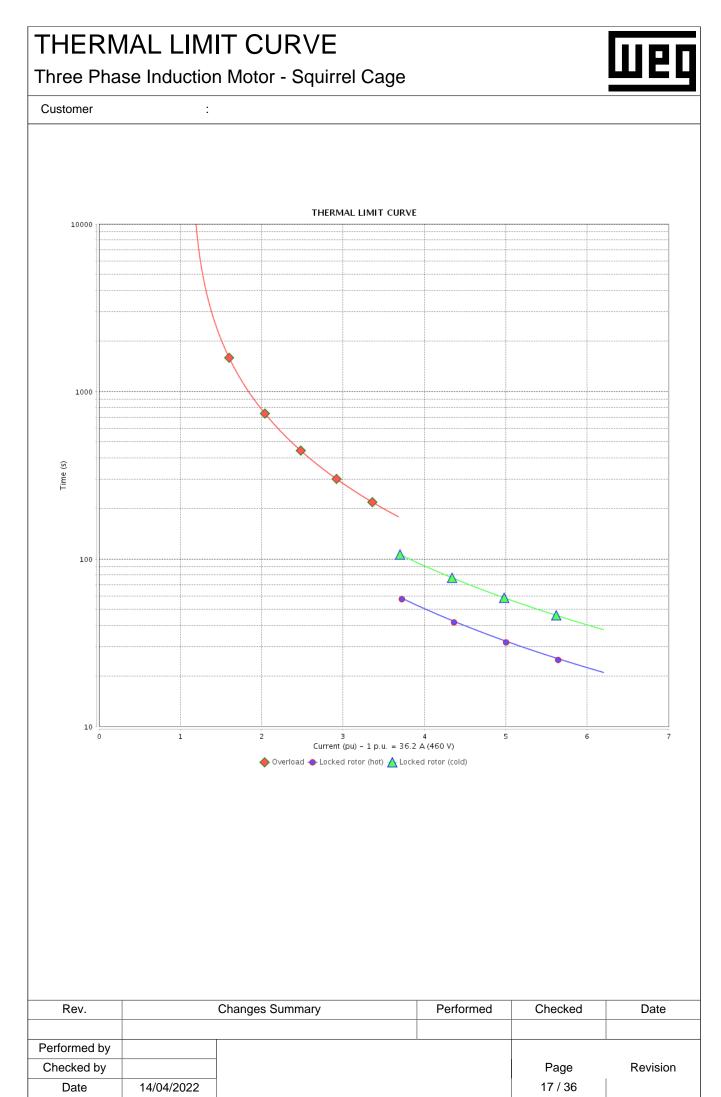
#### Customer



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	LIMIT CURVE	,	шер
Customer	duction Motor - Squirrel Cage	;	
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14335221
	i nase	Catalog # :	03012ET3ER326TSC-W22

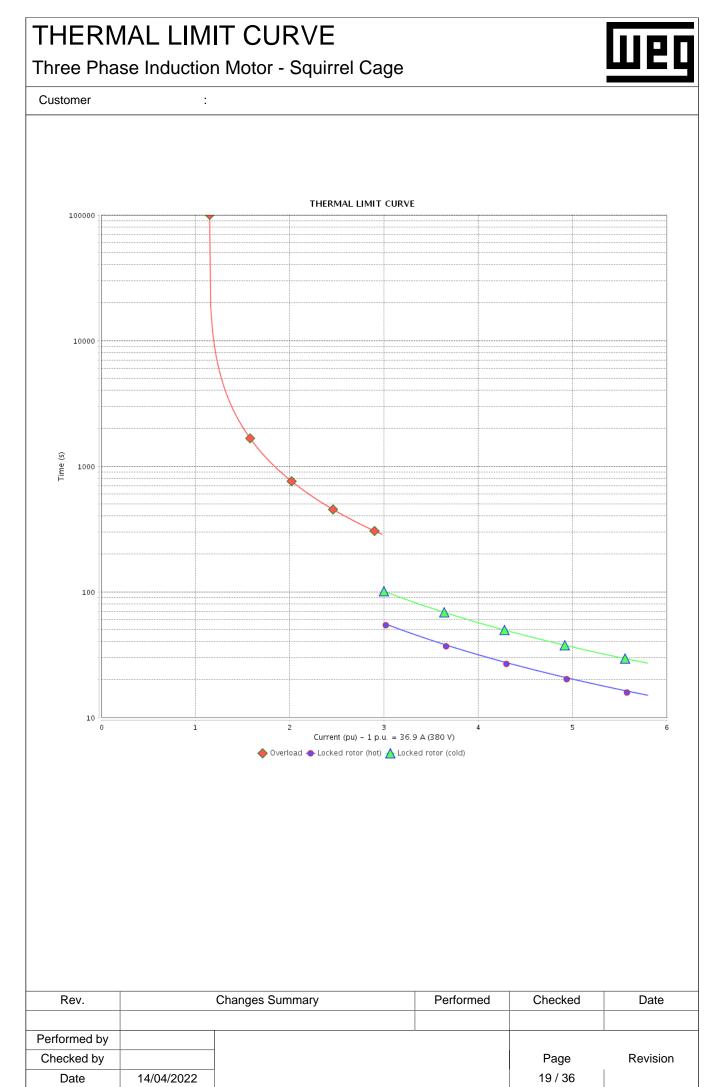
Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 7	2.4/36.2 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torqu	.e :2	40 %	Temperatu	ure rise	: 80 K	
Rated speed	: 1	180 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			16 / 36	



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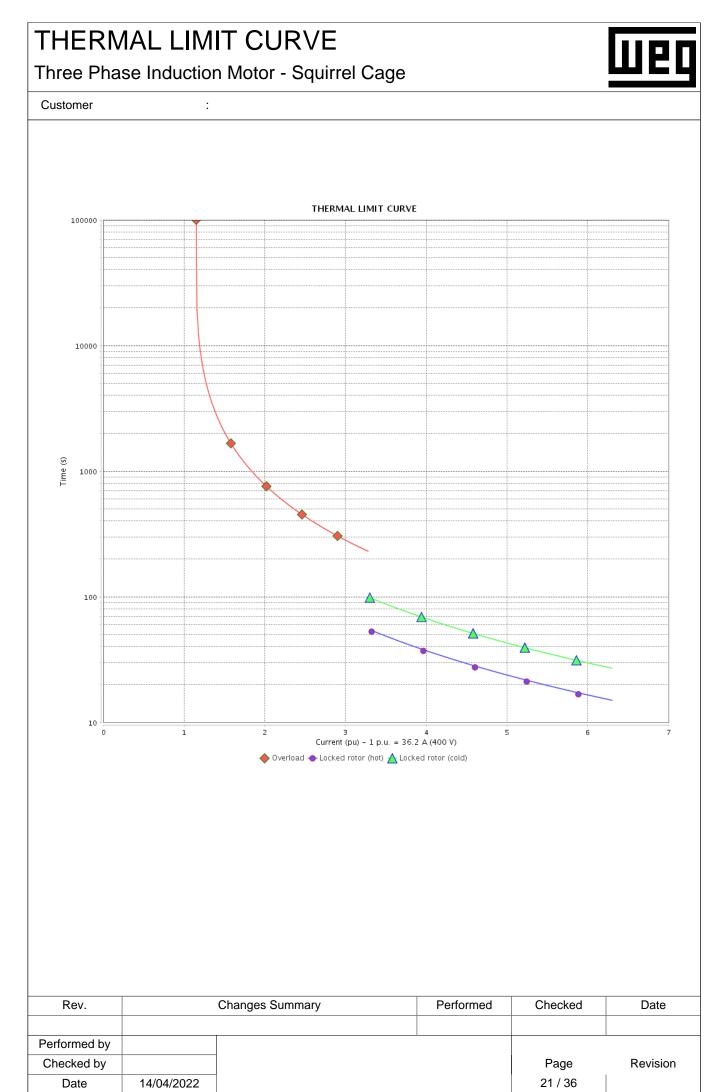
Customer	duction Motor - Squirrel Cage		
Product line	: NEMA Premium Efficiency Three-	Product code :	14335221
	Phase	Catalog # :	03012ET3ER326TSC-W22

Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 1 que : 1 Je : 2	6.9 A .8 35 ft.lb 90 % 29 % 75 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				18 / 36	



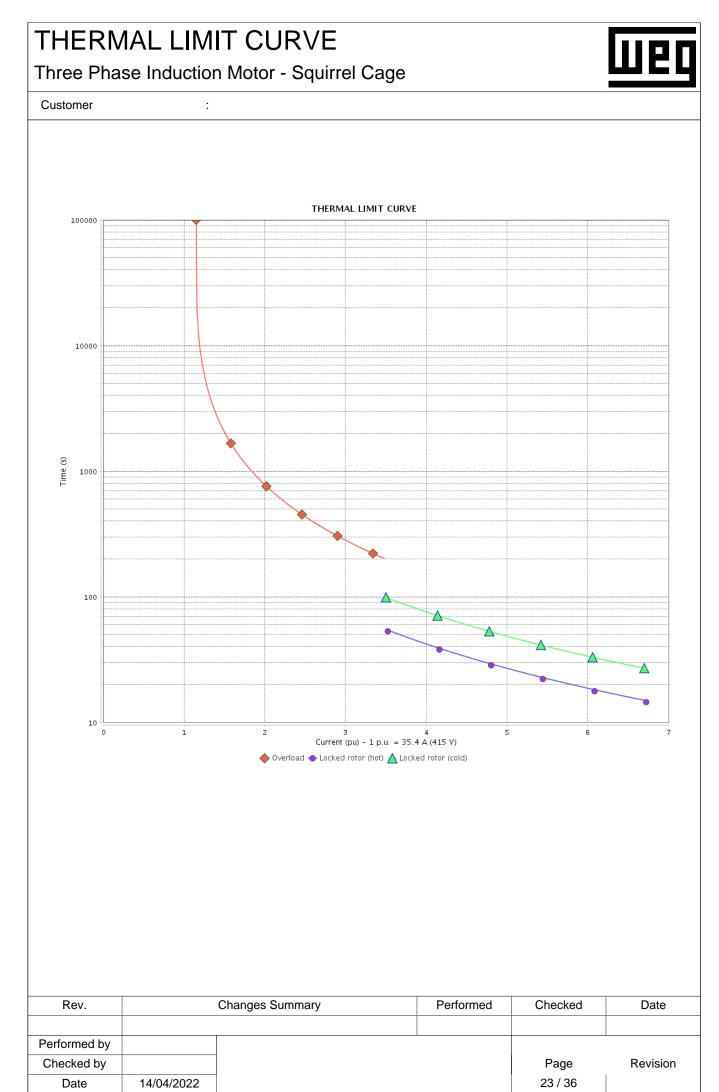
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14335221 03012ET3ER326TSC-W2

Performance	: 4	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	ue :	36.2 A 5.3 134 ft.lb 220 % 260 % 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by				-		
Checked by					Page	Revision
Date	14/04/2022				20 / 36	



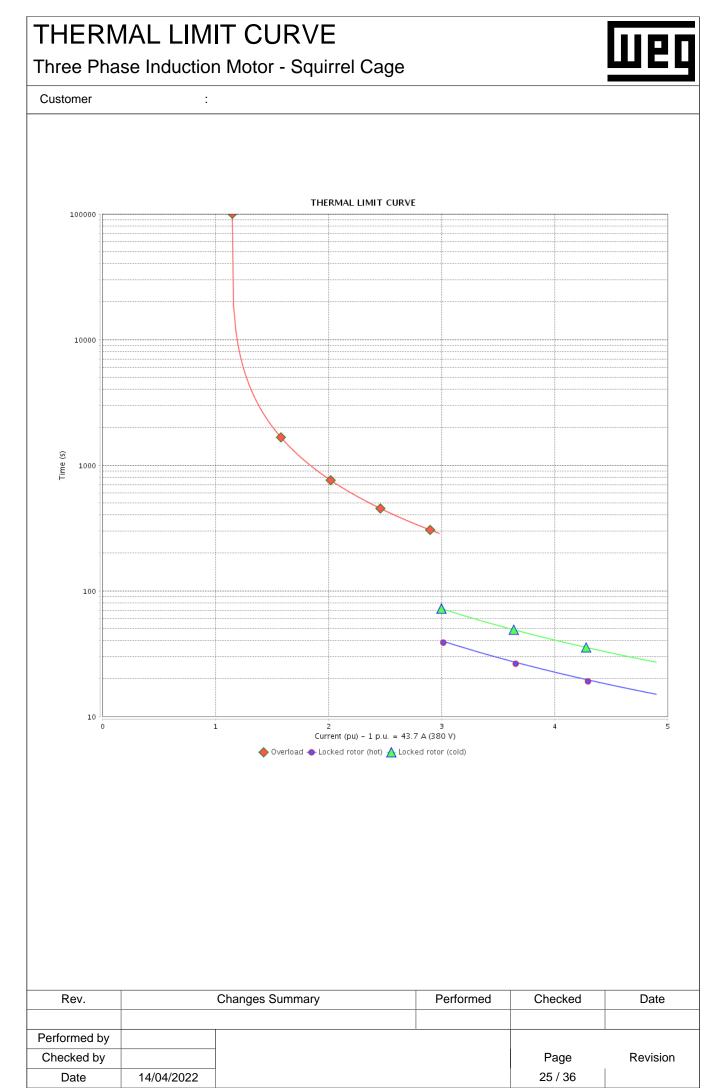
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14335221 03012ET3ER326TSC-W22			
Performance	: 415 V 50 Hz 6P IE3	nt of inortia (1)	· 12 2 cq ft lb			

Performance	: 4	15 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	•		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		6.7Duty cycle134 ft.lbInsulation class240 %Service factor280 %Temperature rise		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t							
Cooling constant	t							
Rev.		Changes Summary		Performed	Checked	Date		
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Date	14/04/2022				22 / 36			



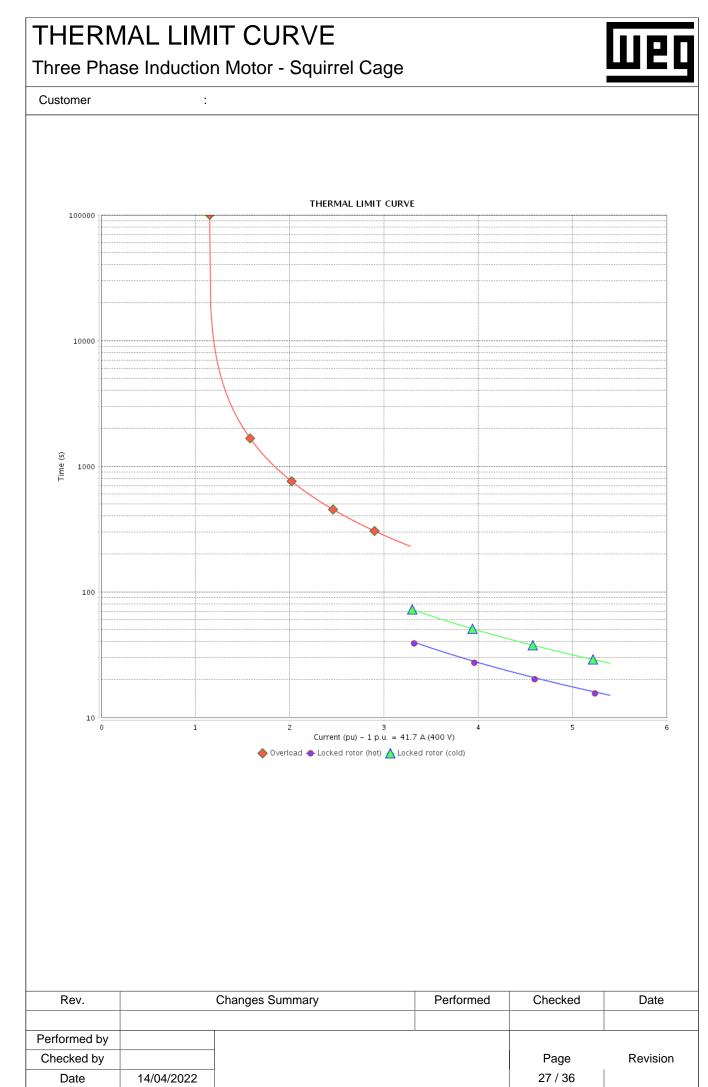
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14335221 03012ET3ER326TSC-W2

Performance	: 38	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4 : 10 que : 10 ue : 20	3.7 A 9 62 ft.lb 60 % 00 % 70 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			24 / 36	



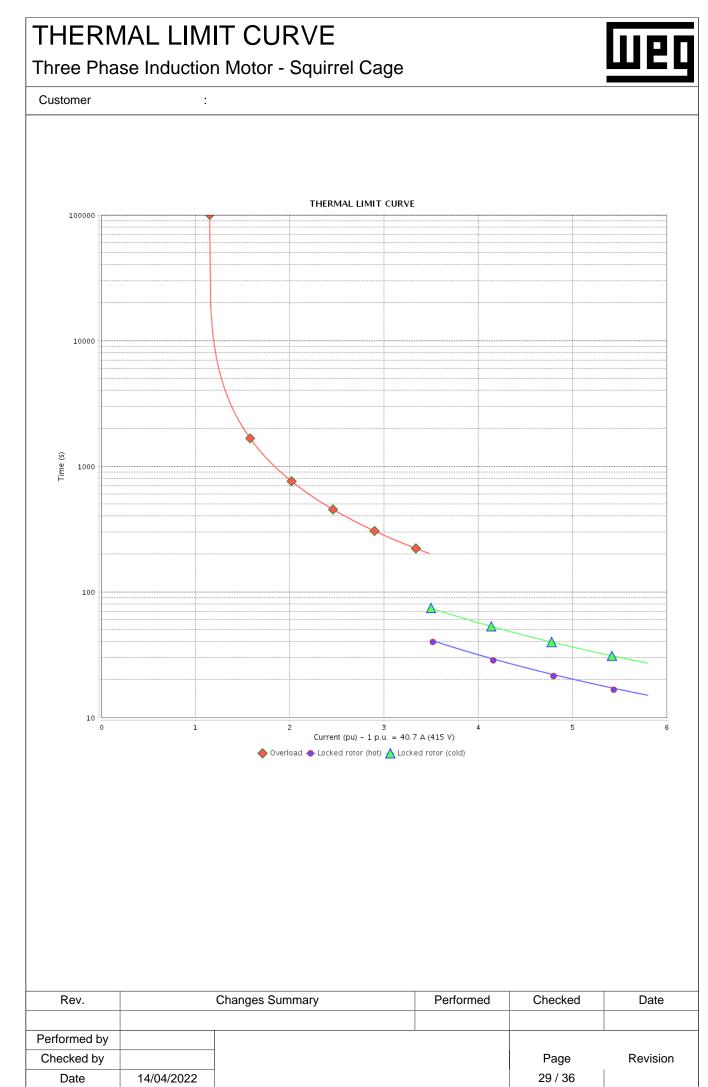
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Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14335221 03012ET3ER326TSC-W2

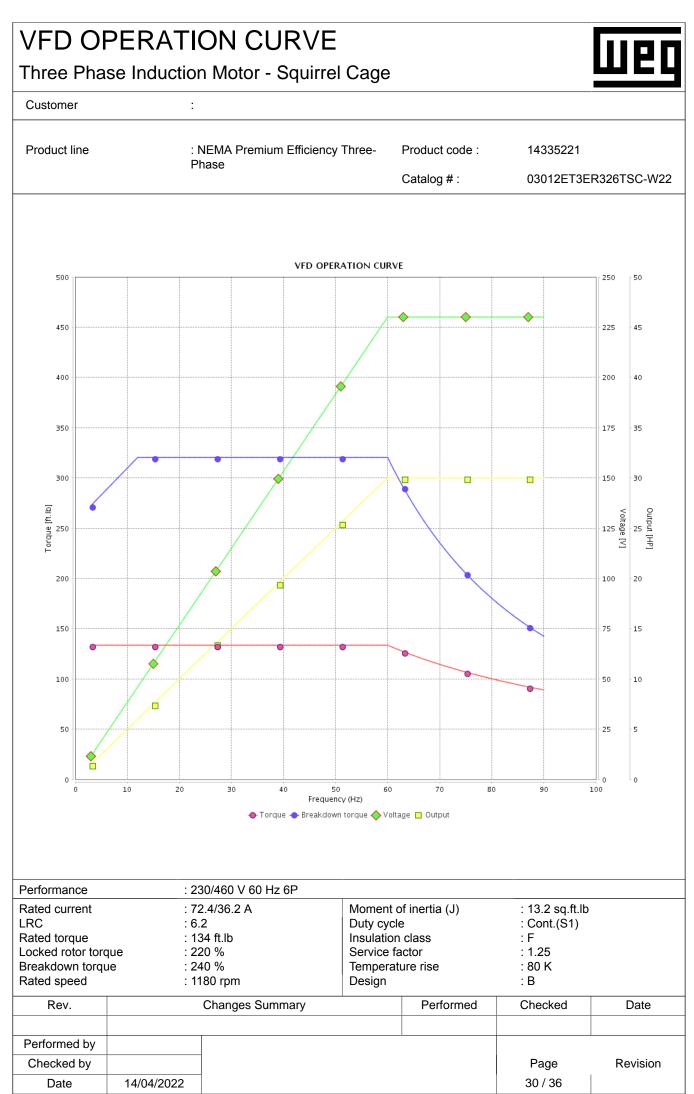
Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		11.7 A 5.4 62 ft.lb 80 % 220 % 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				26 / 36	

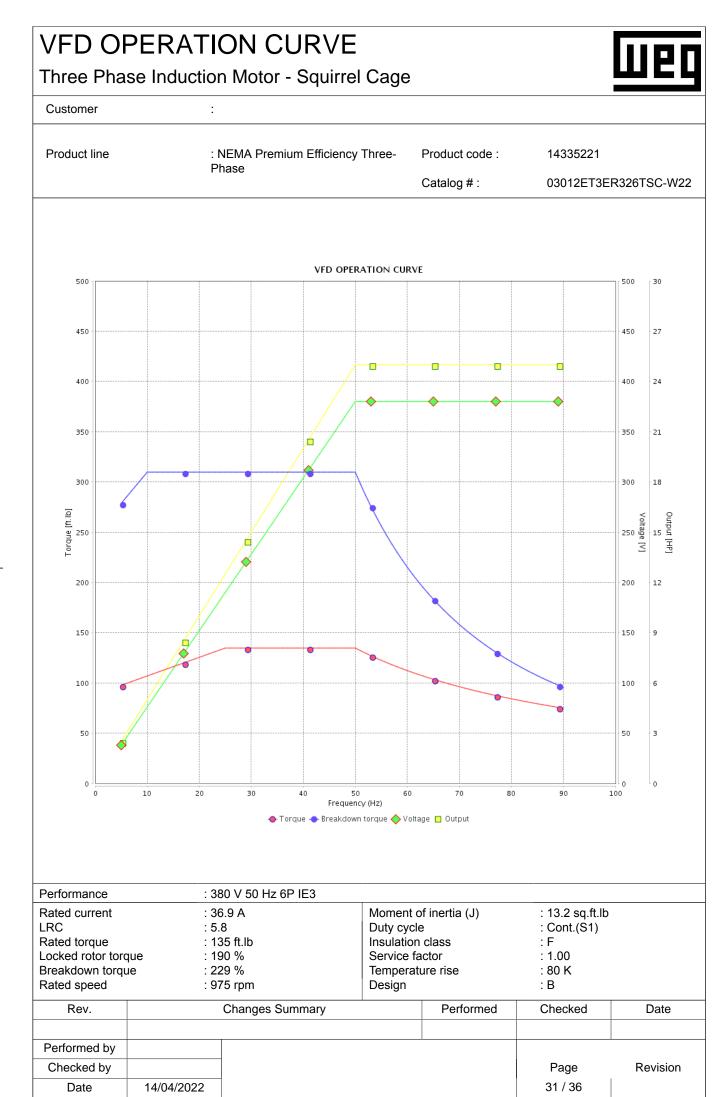


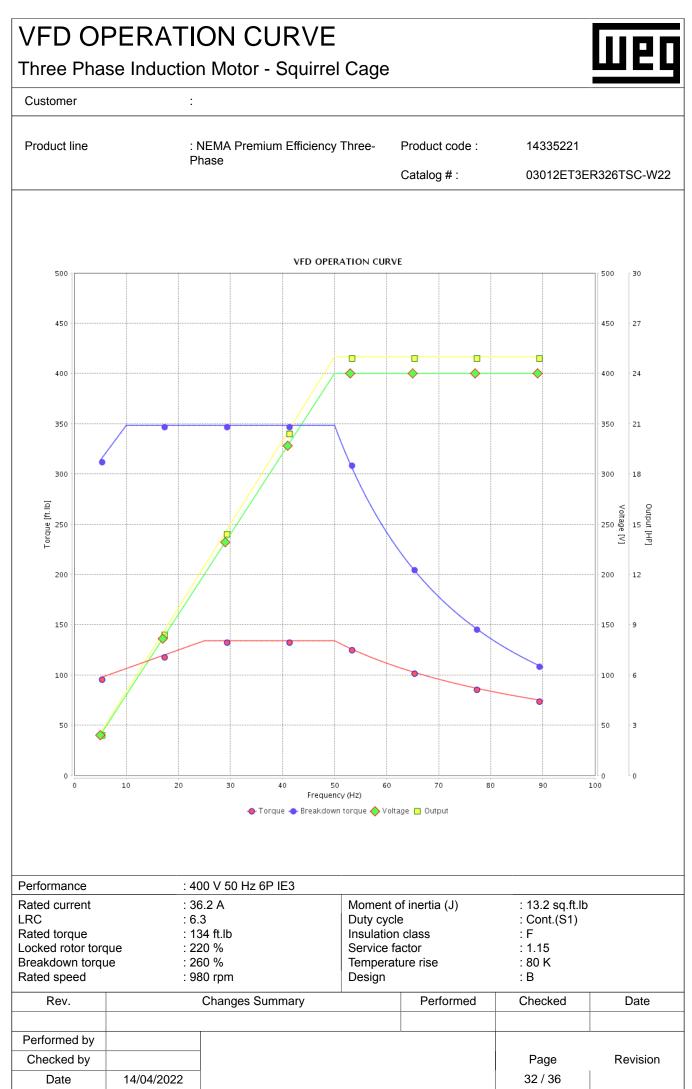
: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	14335221 03012ET3ER326TSC-W2
		03012E13ER32013C-W2

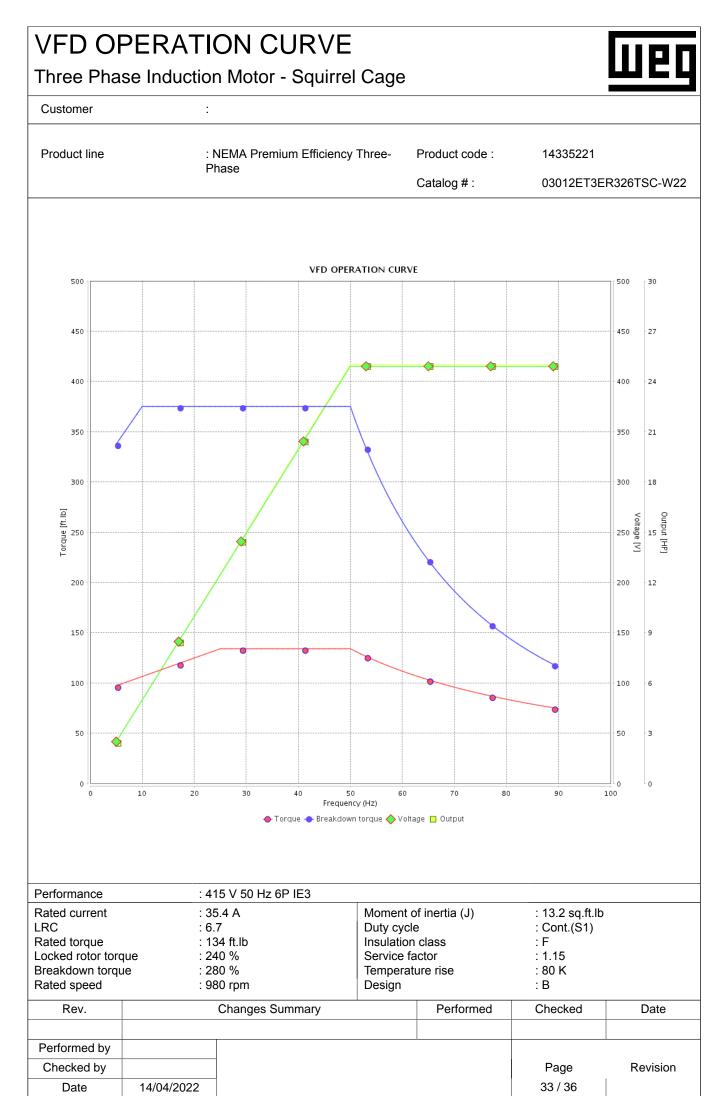
Performance	: 4	: 415 V 50 Hz 6P IE2				
Rated current :		0.7 A	Moment of inertia (J)		: 13.2 sq.ft.lb	
LRC :		5.8	Duty cycle		: Cont.(S1)	
Rated torque :		61 ft.lb	Insulation class		:F	
Locked rotor torque		200 %	Service factor		: 1.15	
		240 %	Temperature rise		: 80 K	
Rated speed	: 9	980 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				28 / 36	

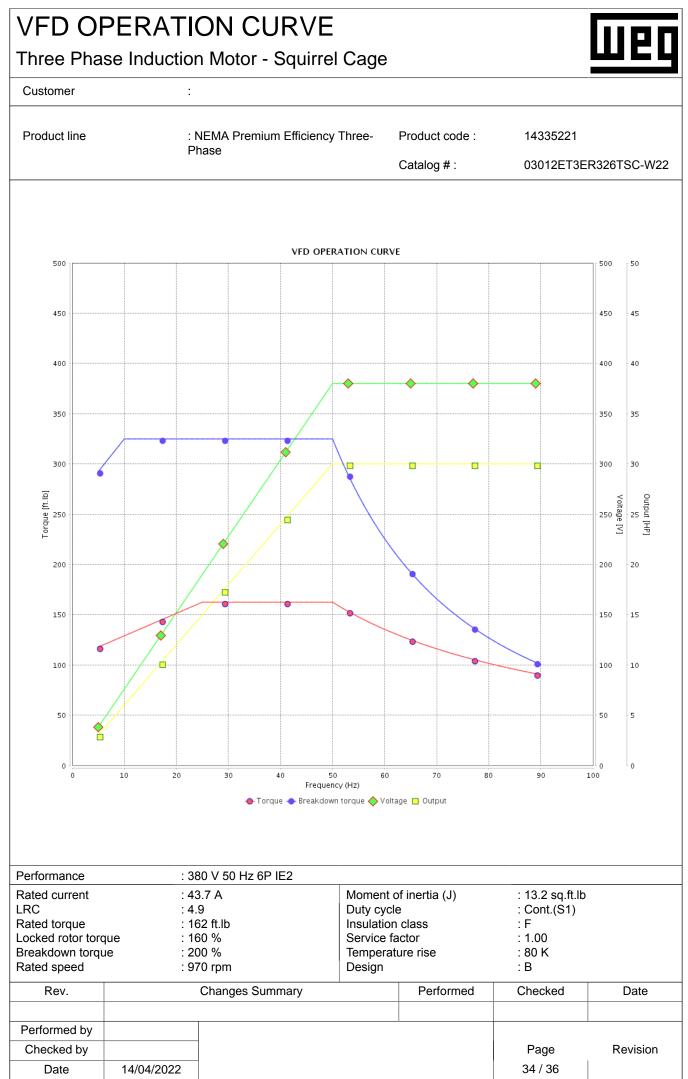


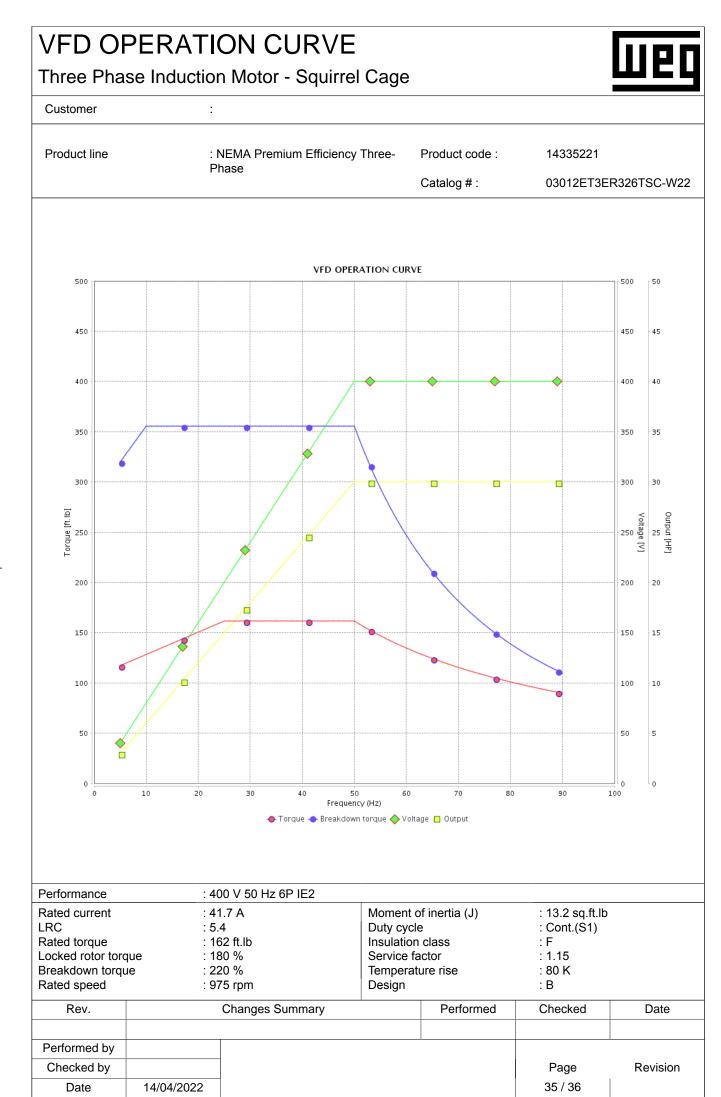


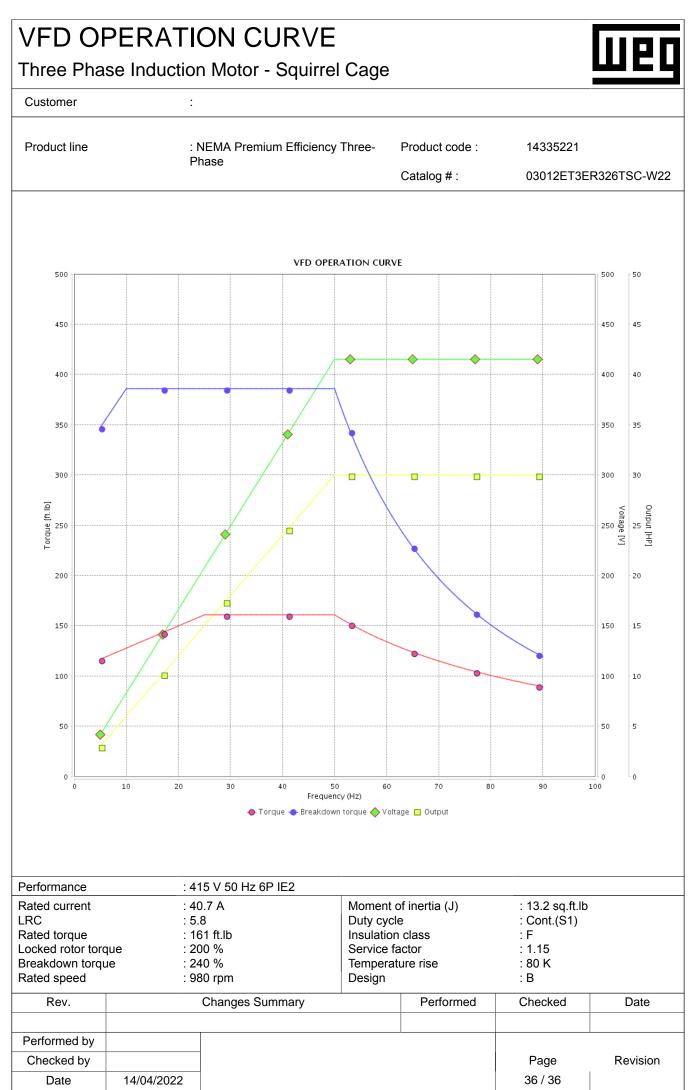


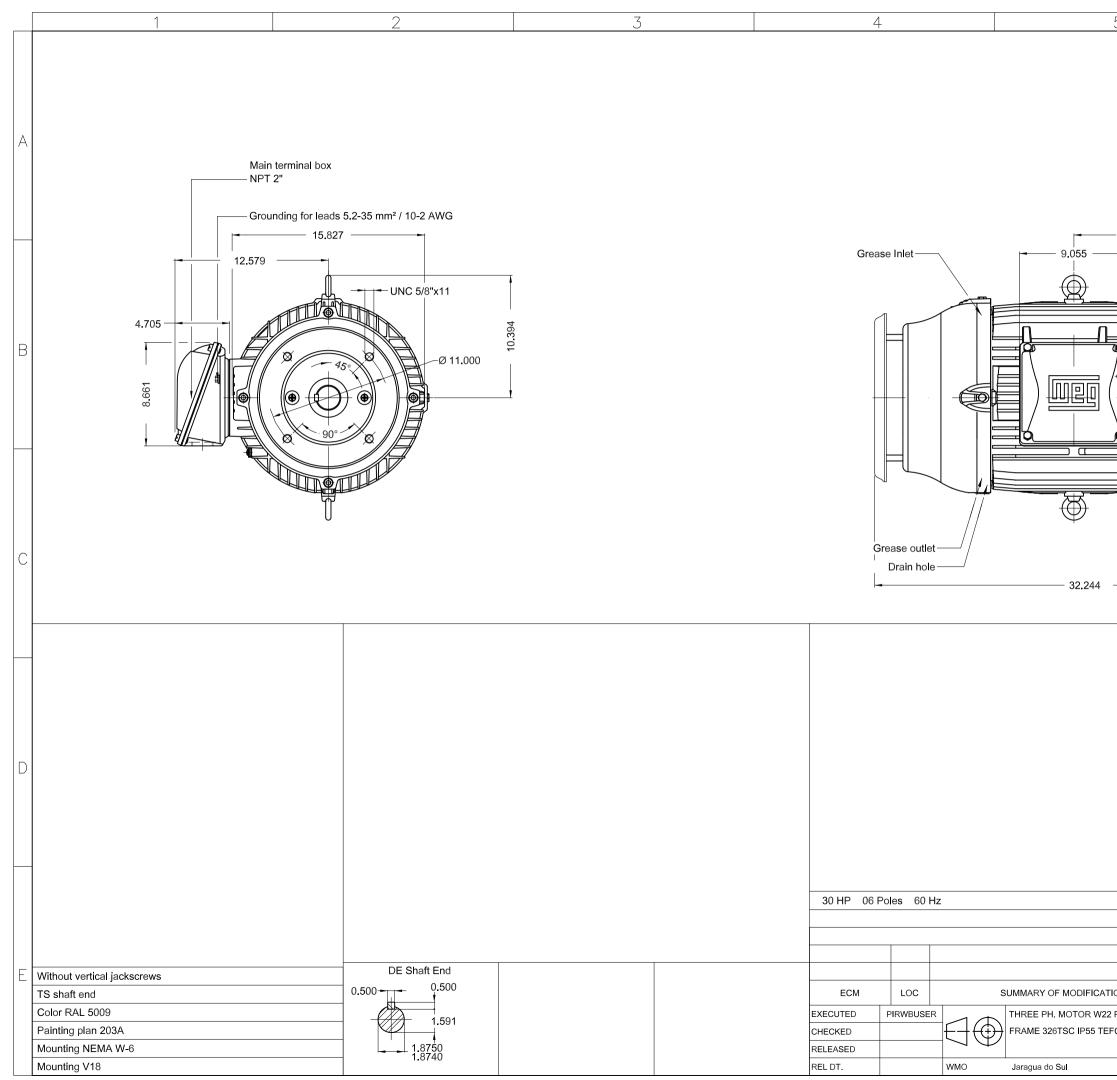












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- 11.260	/ Grease Inlet		
	/		
	2.756 Q Q		
	- Ø 12.550		
	0.250		
	3.750 Grease outlet Drain hole		
			s in inches
			Dimensions in inches
			A
IONS	EXECUTED CHECKED R	RELEASED DAT	re ver
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