DATA SHEET

Three Phase Induction Motor - Squirrel Cage

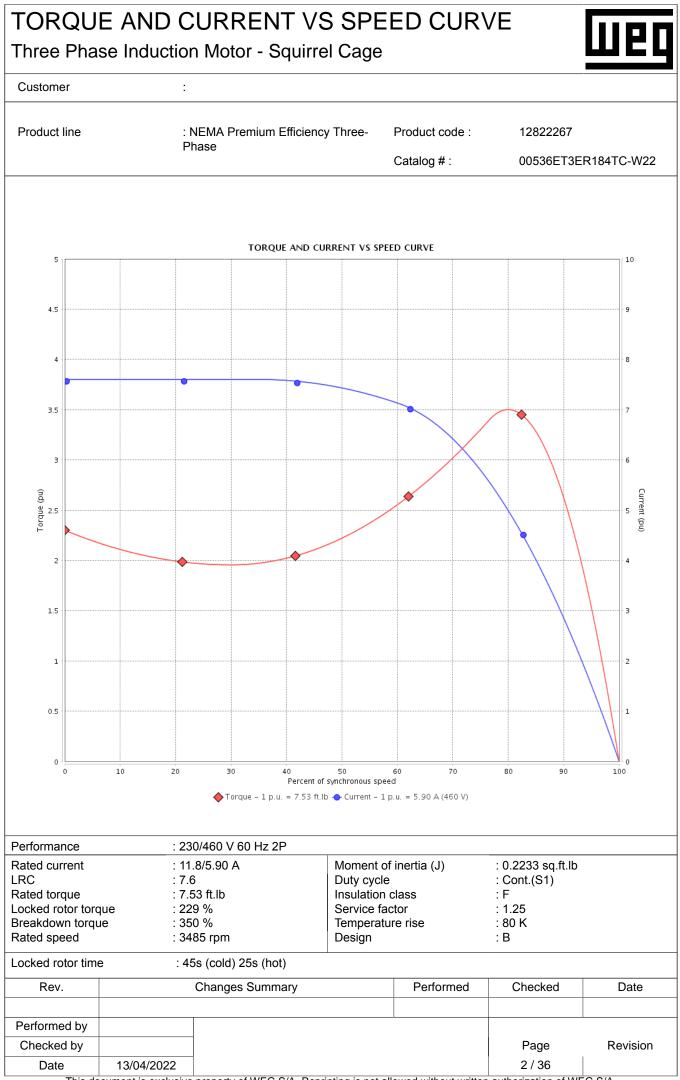
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Customer

Catalog # : 00536ET3ER184TC-W22 Frame : 184TC Cooling method : IC411 - TEFC Insulation class : F Mounting : W-6 Duty cycle : Cont.(S1) Rotation ¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Attitude : Direct On Line Attitude : 1000 m.a.s.l. Starting method : Direct On Line Protection degree : IP55 Moment of inertia (J) : 0.2233 sq.ft.lb Dutput [HP] 5 4 4 5 5 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 R. Amperes [A] 11.8/5.90 5.79 5.57 5.43 7.14 6.78 6.61 R. Amperes [A] 7.6x(Code J) 7.4x(Code H) 8.9x(Code K) 5.9x(Code F) 6.6x(Code G) 6.9 No load current [A] 4.00/2.00 2.00 <	Product line		: NEMA Premium Efficiency Three- Phase			e- Product code :		12822267	
Insulation class : F Mounting ::W-6 WCW Ambient temperature : 20°C to +40°C Approx. weight ::B 57.1b Direct COW Direct COW <th></th> <th></th> <th>Phase</th> <th></th> <th></th> <th>Catalog # :</th> <th>00</th> <th>536ET3ER18</th> <th>84TC-W22</th>			Phase			Catalog # :	00	536ET3ER18	84TC-W22
Upup (F) 5 4 4 4 5 5 Poles 2	Insulation class Duty cycle Ambient tempera Altitude Protection degree		: F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55		Moun Rotati Startir Appro	ting on ¹ 1g method x. weight ³	: V : E : C : 9	V-6 Both (CW and Direct On Line 95.7 lb	
Opes 2				1	1	1	5	5	5
Frequency [Hz] 60 50 50 50 50 Stated vortage [V] 230/460 380 400 415 380 400 415 R. Amperes [A] 88.7/44.8 42.8 45.1 48.3 42.1 44.7 7.7.4 R. Cap 7.5x(Code I)/7.4x(Code H)8.1x(Code I)/9.5x(Code K)5.5x(Code K)6.5x(Code K)7 6.6x(Code T)2.2C54 No load current [A] 4.00/2.00 2.00 2.15 2.25 2.00 2.15 2.25 Stated speed [RPM] 3485 2890 2900 2910 2850 2870 2880 Silp [%] 3.19 3.67 3.33 3.00 5.00 4.33 4.00 Reakdown torque [%] 229 229 270 300 180 210 240 Breakdown torque [%] 360 320 370 400 250 290 320 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1								-	
Stated voreinge VI 230/460 380 400 415 380 400 415 Red current [A] 118/5.50 5.77 5.57 5.43 7.14 6.78 6.61 R. Amperes [A] 7.5x(Code I)/7.4x(Code H)/8.1x(Code J)/8.9x(Code K)5.5x(Code F) 6.5x(Code T) 6.5x(Code T) 6.5x(Code T) 6.5x(Code T) 2.15 2.25 ated speed [PM] 3485 2890 2900 2910 2850 2870 2880 Stated speed [PM] 3485 2890 2900 2910 2850 2870 2880 Stated torque [ft.lb] 7.53 7.27 7.24 7.22 9.21 9.15 9.12 ocked rotor torque [%] 229 229 270 300 180 210 240 ocked rotor torque [%] 350 320 370 400 250 290 320 ocked rotor torque [%] 350 326 (odt) 326									
R. Amperes [A] 89.744.8 42.8 45.1 44.3 42.1 44.7 47.6 IRC [A] 7.6x(Code J)7.4x(Code J)8.1x(Code J)8.9x(Code K)5.9x(Code F) 6.6x(Code F) 6.6x(Code F) 6.6x(Code F) 6.6x(Code F) 6.6x(Code F) 7.2x(Code I) 6.6x(Code F) 7.2x(Code I) 7	Rated voltage [V]		230/460	380	400	415	380	400	415
RC [A] 7.8x(Code J)7.4x(Code H)8.1x(Code J)8.9x(Code K)5.9x(Code F) 6.6x(Code 7.2x(Code I) No load current [A] 4.00/2.00 2.00 2.15 2.25 2.00 2.15 2.25 Tated speed [RPM] 3485 2890 2900 2910 2860 2870 2880 Sing [%] 3.19 3.67 3.33 3.00 5.00 4.33 4.00 Stated torque [%] 259 229 270 300 180 210 240 Stread torque [%] 259 229 270 300 180 210 240 Stread torque [%] 250 320 370 400 250 290 320 Service factor 1.25	Rated current [A]								
No load current [A] 4.00/2.00 2.00 2.15 2.25 2.00 2.15 2.25 Rated speed [RPM] 3485 2890 2900 2910 2850 2870 2880 Stated torque [%] 3.19 3.67 3.33 3.00 5.00 4.33 4.00 Jacked torque [%] 229 229 270 300 180 210 240 Jacked torour [%] 3550 320 370 400 250 290 320 Jareakdown torque [%] 3560 320 370 400 250 290 320 Jareakdown torque [%] 3550 320 370 400 250 290 320 Jacked torur ime 455 (cold) 325 (cold) 325 (cold) 326 (cold) 125 (cold) 326 (cold) 125 (cold) 125 (cold) 125 (cold) 125 (cold) 125 (cold) 126 (cold) 186 (hot)									
No load current [A] 4.00/2.00 2.00 2.15 2.25 2.00 2.15 2.25 2.00 2.15 2.25 Rated speed [RPM] 3.485 2890 2900 2910 2850 2870 2880 Sated torque [KIb] 7.53 7.27 7.24 7.22 9.21 9.15 9.12 Schedown torque [%] 350 320 370 400 250 290 320 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 Emperature rise 80 K	_RC [A]		7.6x(Code J)	7.4x(Code H)	8.1x(Code J)8.9x(Code K)	5.9x(Code F)		7.2x(Code H
Rated speed [RPM] 3485 2890 2900 2910 2850 2870 2880 Silp [%] 3.19 3.67 3.33 3.00 5.00 4.33 4.00 Saled forque [%] 229 229 270 300 180 210 240 cocked rotor torque [%] 229 229 270 300 180 210 240 Service factor 1.25	No load current [A]	4.00/2.00	2.00	2.15	2.25	2.00		2.25
Stated forque [ft,lb] 7.53 7.27 7.24 7.22 9.21 9.15 9.12 cocked rotor torque [%] 229 229 270 300 180 210 240 cocked rotor torque [%] 350 320 370 400 280 230 Service factor 1.25									
Stated forque [ft,lb] 7.53 7.27 7.24 7.22 9.21 9.15 9.12 cocked rotor torque [%] 229 229 270 300 180 210 240 cocked rotor torque [%] 350 320 370 400 280 230 Service factor 1.25	Slip [%]	-		3.67	3.33		5.00	4.33	
Breakdown torque [%] 350 320 370 400 250 290 320 Bervice factor 1.25<	Rated torque [ft.lb]			7.27	7.24		9.21		9.12
Service factor 1.25									
Femperature rise 80 K 80 K <td></td> <td>[%]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		[%]							
Locked rotor time 45s (cold) 32s (cold)	Service factor								
25s (hot) 18s (hot) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Efficiency (%) 25% 86.1 86.1 85.8 85.6 88.0 88.5 87.5				18s (hot)	18s (hot)	18s (hot)	18s (hot)		18s (hot)
Efficiency (%) 50% 86.5 86.3 86.3 86.1 87.5 87.5 87.5 75% 88.5 87.7 88.2 88.2 87.5 88.5 88.5 87.5 88.5 88.5 87.5 88.5 88.5 87.5 88.5 87.5 88.5 87.5 88.5 87.5 88.5 87.5 88.5 87.5 88.5 88.5 87.5 88.5 87.5 88.5 87.5 88.5 87.5	Noise level ²								
Efficiency (%) 75% 88.5 87.7 88.2 88.2 87.5 88.5 87.5 88.3 88.3 88.3 86.5 87.5									
100% 88.5 87.5 88.3 88.2 87.5 <th< td=""><td>Efficiency (%)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Efficiency (%)								
Power Factor 25% 0.51 0.49 0.46 0.43 0.56 0.53 0.50 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 75% 0.85 0.85 0.83 0.81 0.81 0.78 0.76 75% 0.85 0.85 0.83 0.81 0.81 0.78 0.76 100% 0.90 0.90 0.88 0.87 0.91 0.90 0.89 Bearing type : 6207 ZZ 6206 ZZ Kax. traction : 138 lb 138 lb Sealing : ' - - - 138 lb Max. compression : 234 lb Lubricant amount : - - - - - 138 lb Max. compression : 234 lb -									
Power Factor 50% 0.76 0.74 0.71 0.68 0.81 0.78 0.76 75% 0.85 0.85 0.83 0.81 0.88 0.87 0.85 100% 0.89 0.90 0.88 0.87 0.90 0.88 Bearing type : 6207 ZZ 6206 ZZ Max. traction : 138 lb Sealing : V'Ring V'Ring Viang Max. traction : 234 lb Lubricant mount : - - - . Max. compression : 234 lb Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A Max. compression : 234 lb Max. traction This revision replaces and cancel the previous one, which must be eliminated. . These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes summary Perfo									
Power Factor 75% 0.85 0.85 0.83 0.81 0.88 0.87 0.85 100% 0.89 0.90 0.88 0.87 0.91 0.90 0.89 Bearing type : 6207 ZZ 6206 ZZ Max. traction : 138 lb Max. traction : 234 lb Sealing : V'Ring V'Ring Max. compression : 234 lb Lubrication interval : - - - - Lubricant amount : - - - - Lubricant type : Mobil Polyrex EM Max. compression : 234 lb Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (G-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). MG-1. (2) Measured at 1m and with tolerance of +3dB(A). WG-1 Image: stipulate in NEMA (G-1. (4) At 100% of full load. Image: stipulate in the									
100% 0.89 0.90 0.88 0.87 0.91 0.90 0.89 Bearing type : 6207 ZZ 6206 ZZ Max. traction : 138 lb Sealing : V'Ring V'Ring Max. traction : 138 lb Lubrication interval : - - Lubricant amount : - - Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A Max. compression : 234 lb Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Image: Summary Performed Checked Date Performed by	Power Factor								
Drive end Bearing type Drive end 6207 ZZ Non drive end 6206 ZZ Foundation loads Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Max. compression : 234 lb Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (3) Approximate weight subject to changes after manufacturing process. MG-1. Rev. Changes Summary Performed Checked Date Performed by									
Bearing type : 6207 ZZ 6206 ZZ Max. traction : 138 lb Sealing : V'Ring V'Ring Max. compression : 234 lb Lubrication interval : - - - - - - Lubricant amount : - - - - - - Lubricant type : Mobil Polyrex EM Max. compression : 234 lb - Notes USABLE @208V 13.1A SF 1.15 SFA 15.0A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA forward at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. MG-1. -		100%					0.91	0.90	0.69
USABLE @208V 13.1A SF 1.15 SFA 15.0A This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Rev. Changes Summary Performed Checked Date Performed by	Sealing Lubrication interv Lubricant amoun		: 6207 ZZ : V'Ring : - : -	2 6206 2 V'Rin - -	ZZ Max. ti	action			
must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Rev. Changes Summary Performed by Performed by Checked by Page		13.1A SF 1.	15 SFA 15.0A						
Performed by Page Revision	must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	d. otor from the m and with t veight subject ocess.	e shaft end. tolerance of +3	dB(A).	power				
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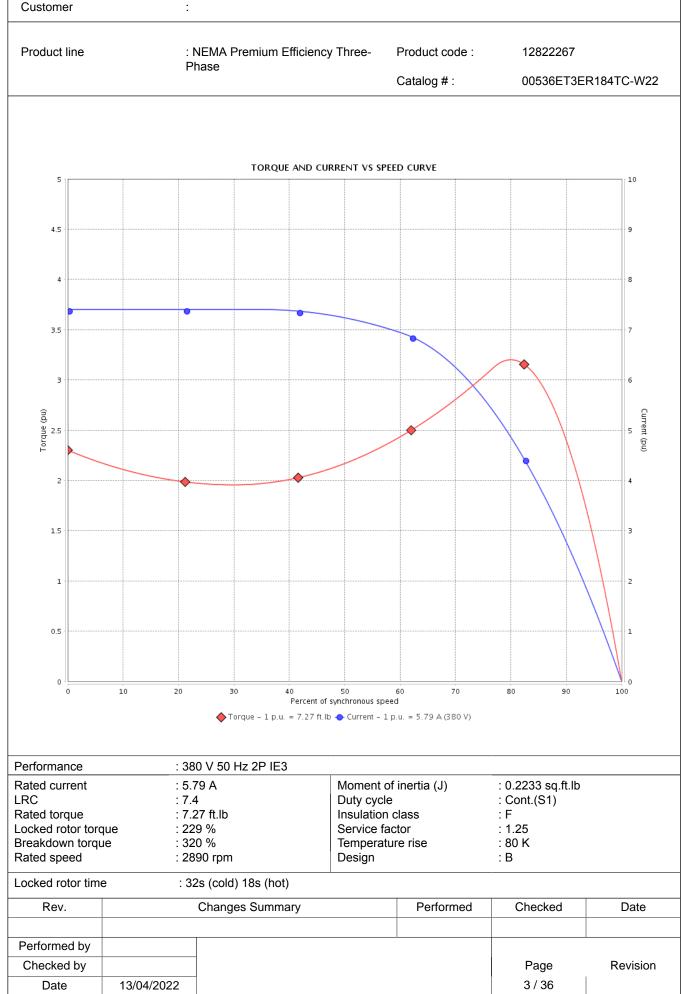
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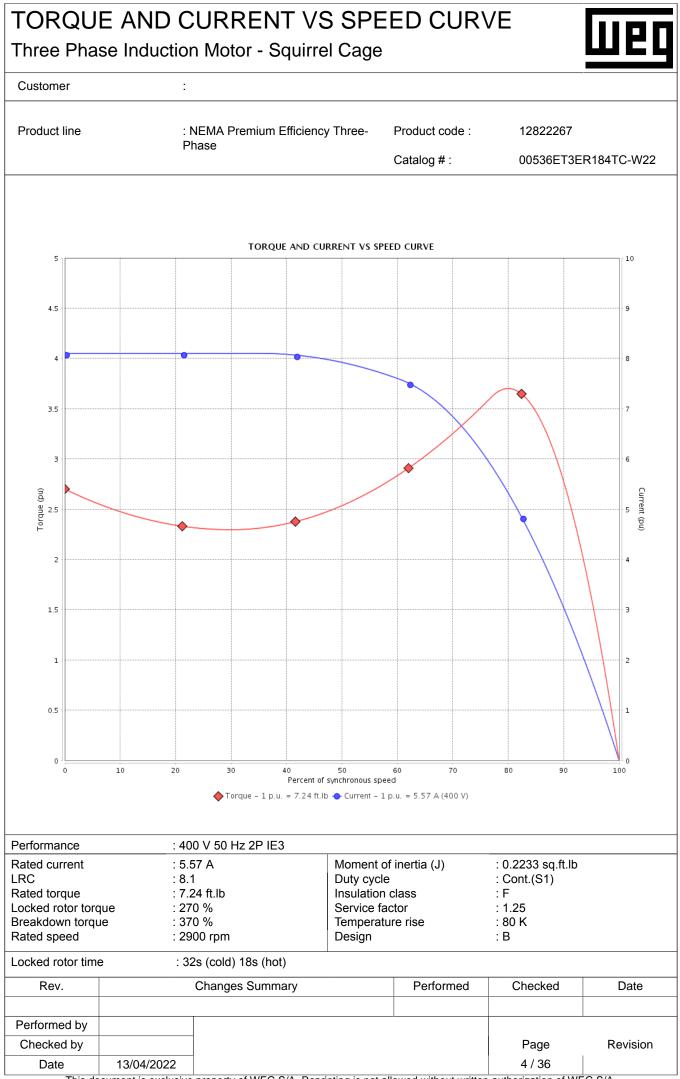
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



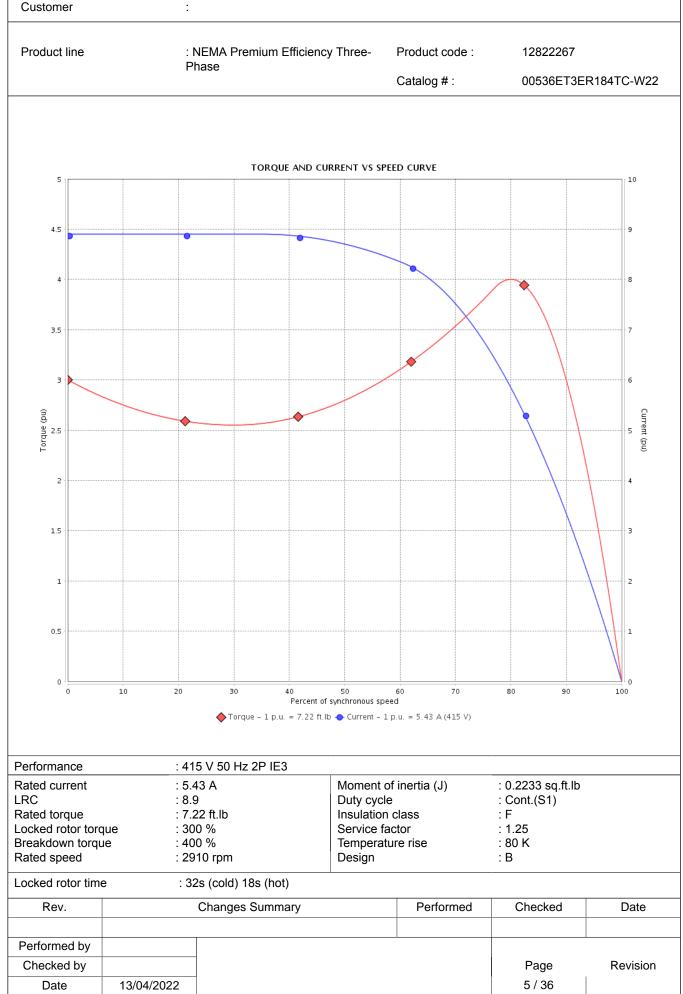
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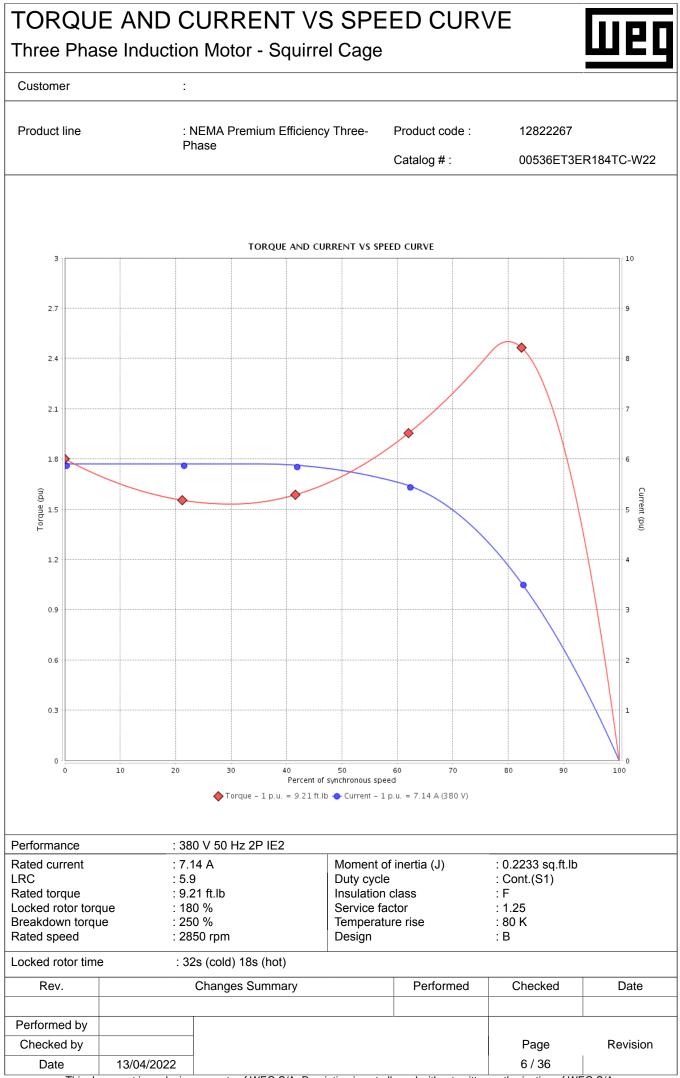
TORQUE AND CURRENT VS SPEED CURVE

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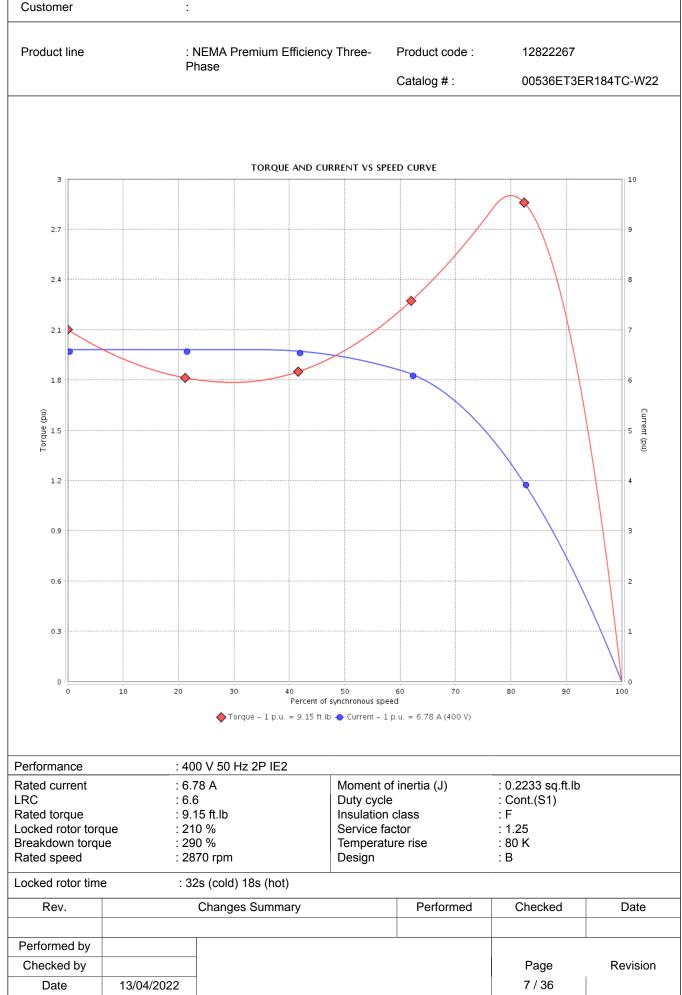
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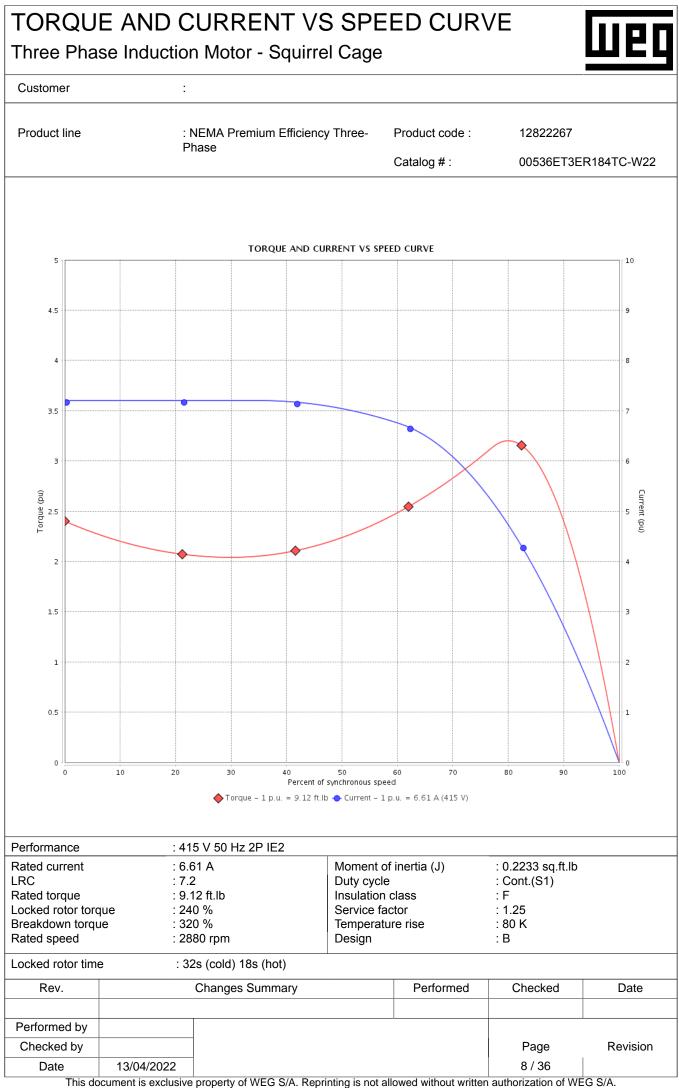
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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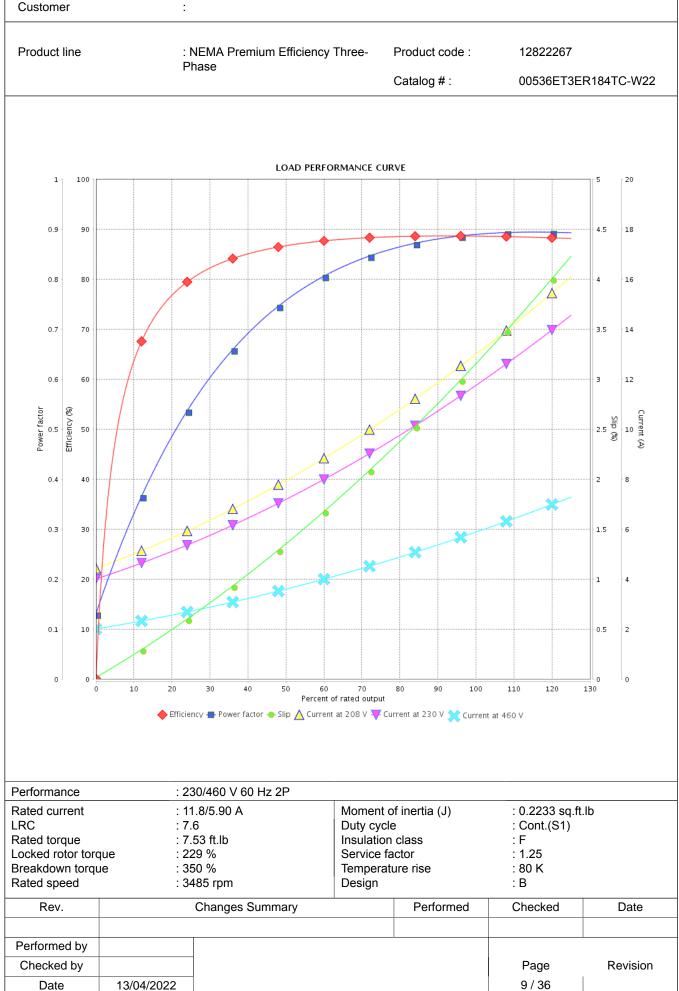


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Three Phase Induction Motor - Squirrel Cage

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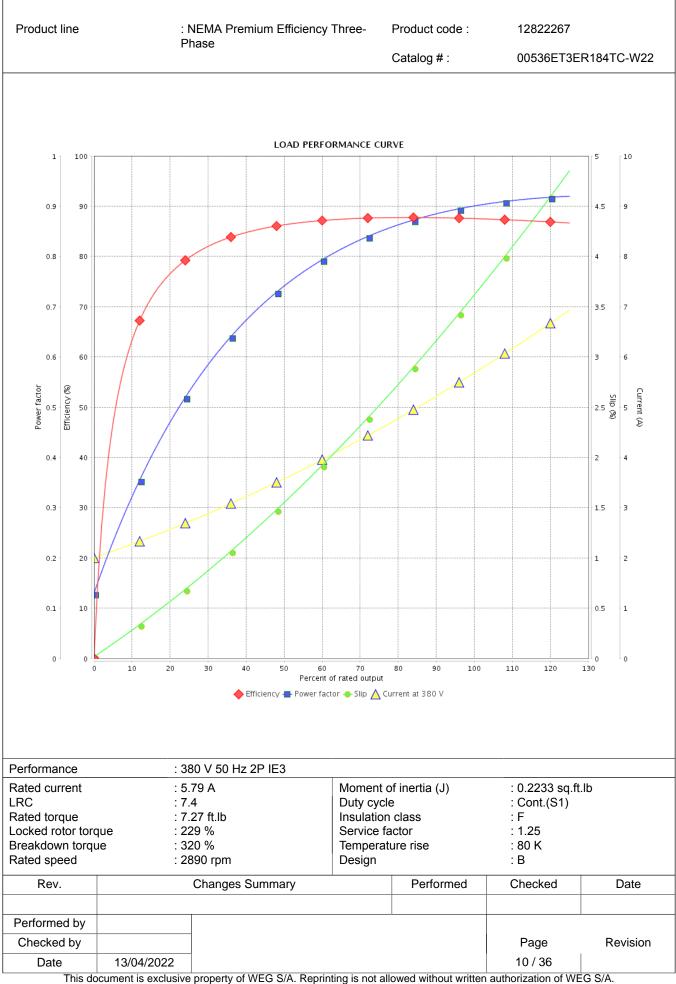
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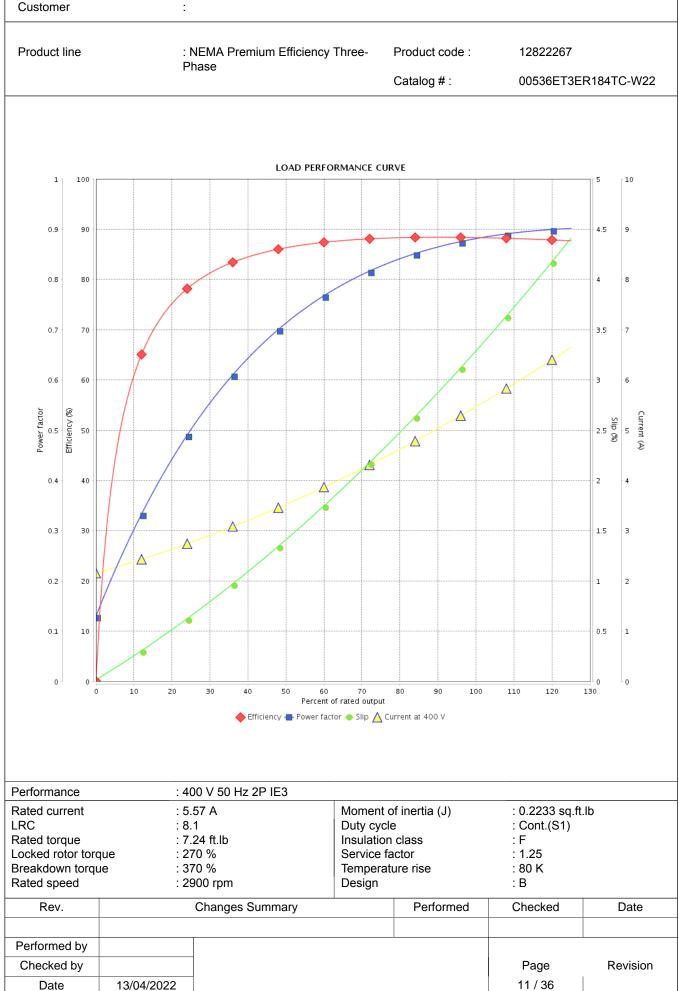


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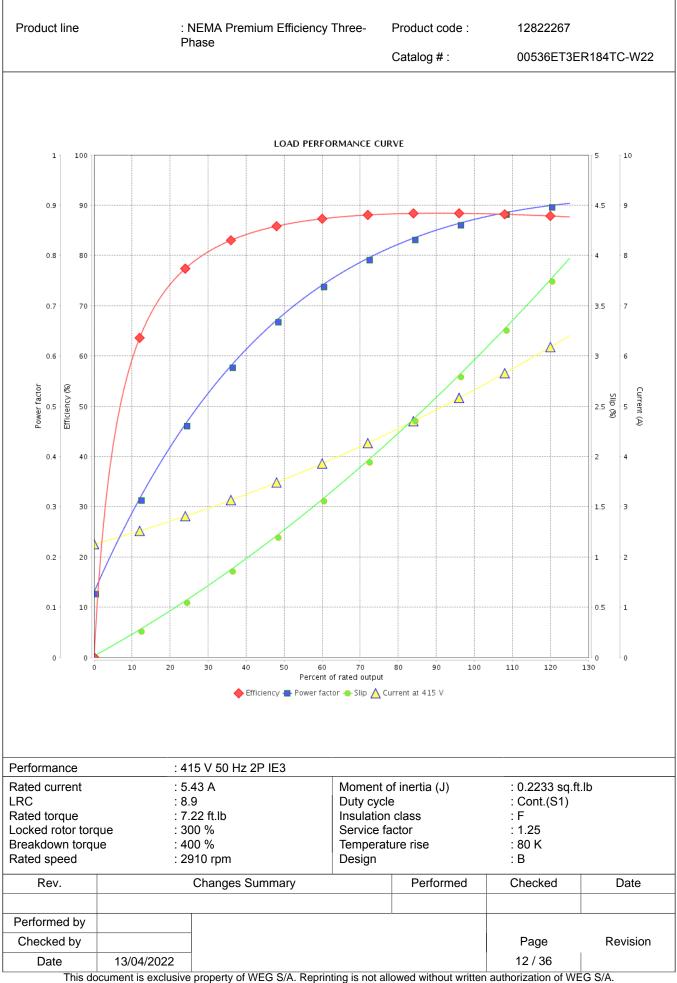
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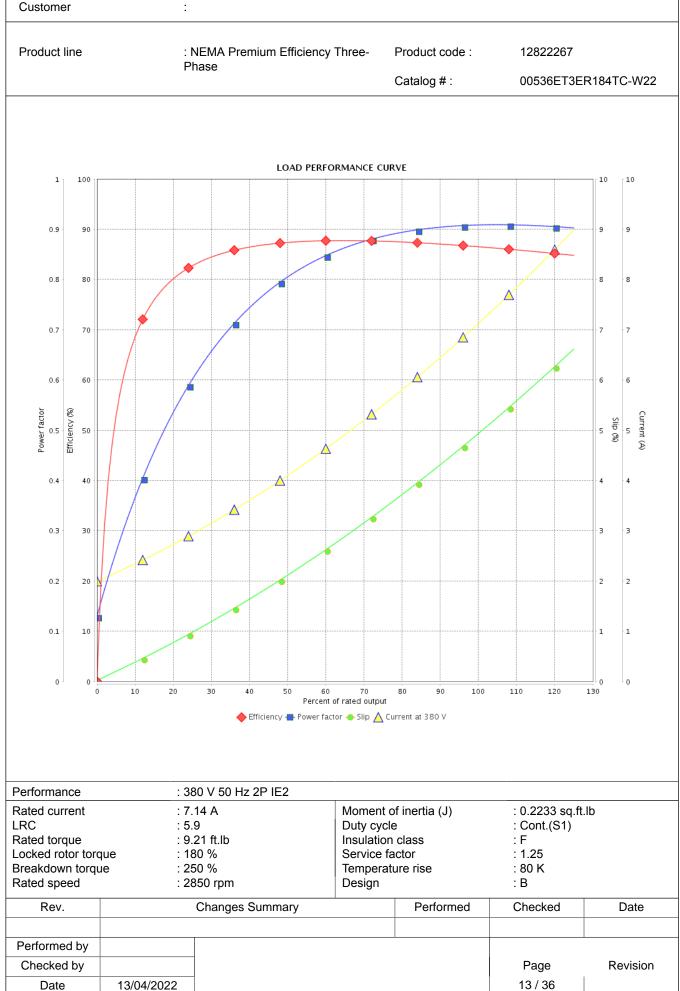


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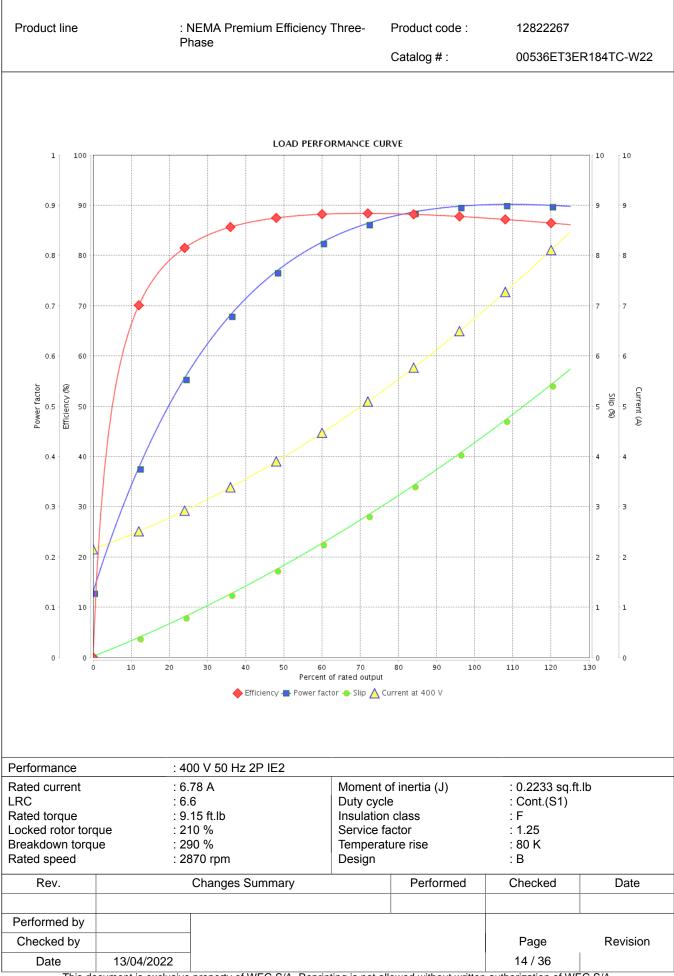
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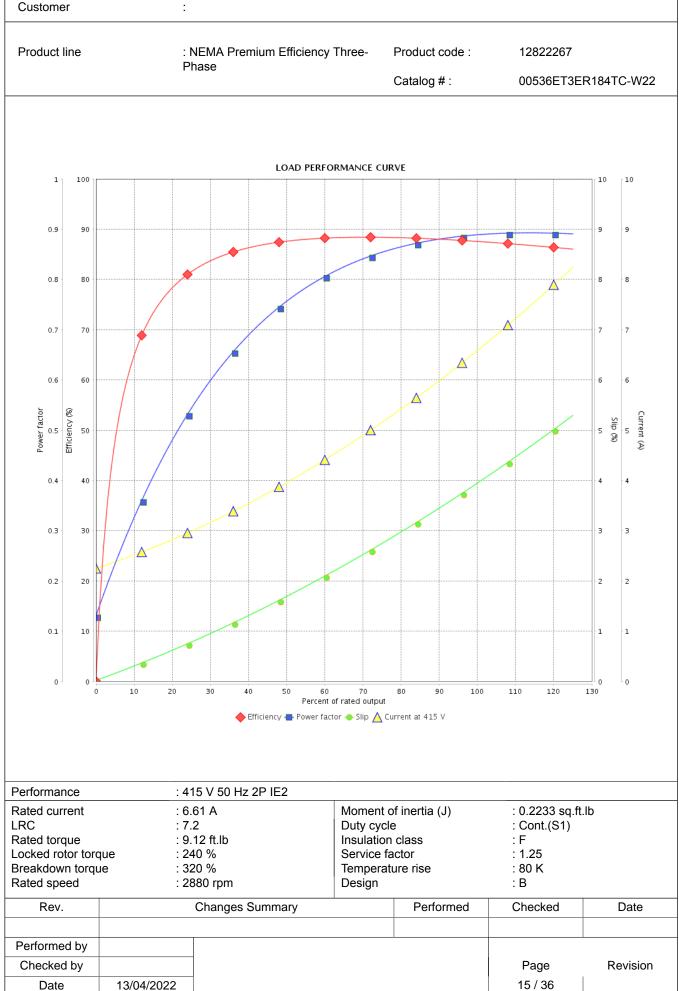


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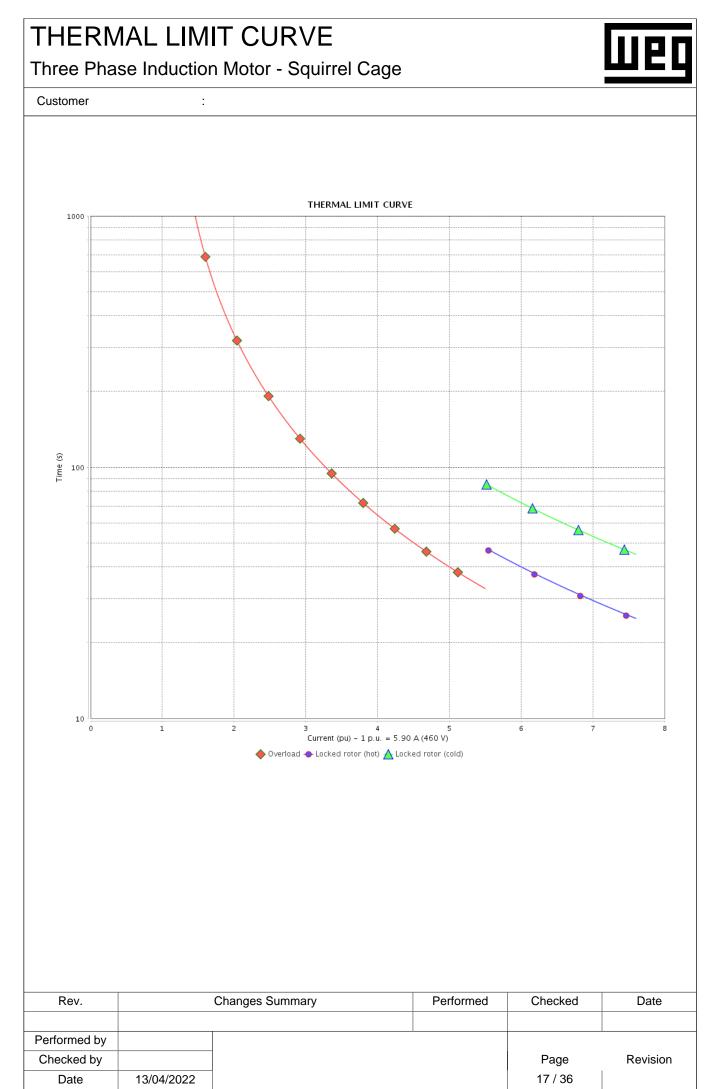
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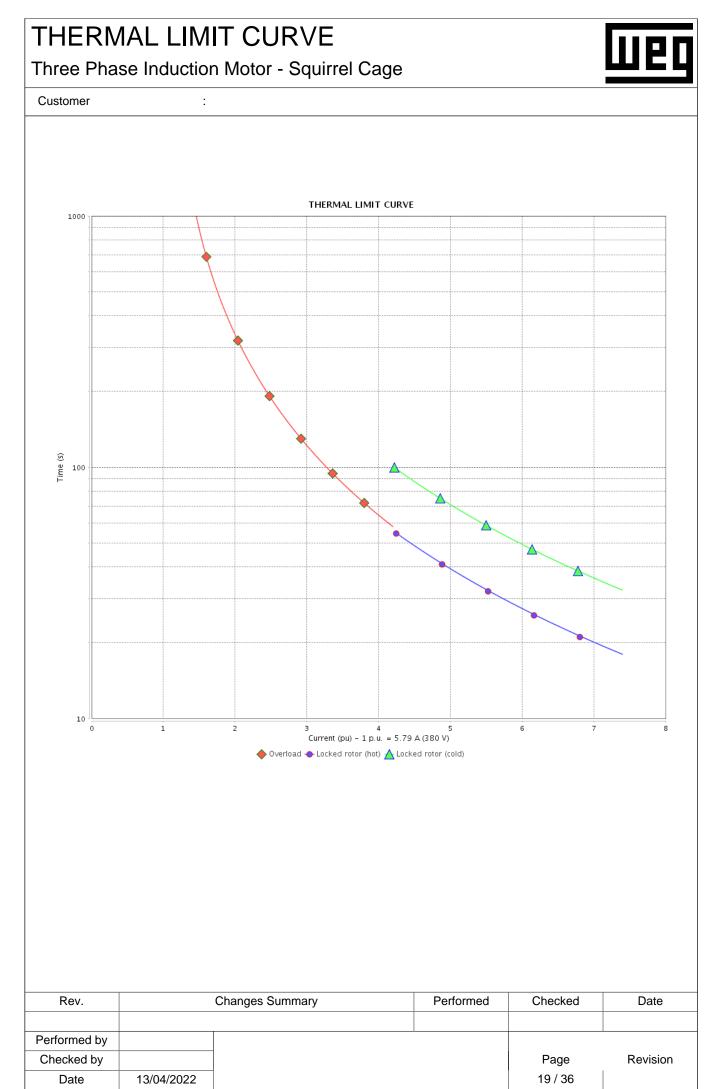
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Three Phase Induc	шсч		
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
		Catalog # :	00536ET3ER184TC-W22

Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 7. : 22 ue : 35	1.8/5.90 AMoment of inertia.6Duty cycle.53 ft.lbInsulation class29 %Service factor50 %Temperature rise485 rpmDesign		class ctor	: 0.2233 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant	[<u> </u>			_
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Three Phase In	duction Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
	Thase	Catalog # :	00536ET3ER184TC-W22

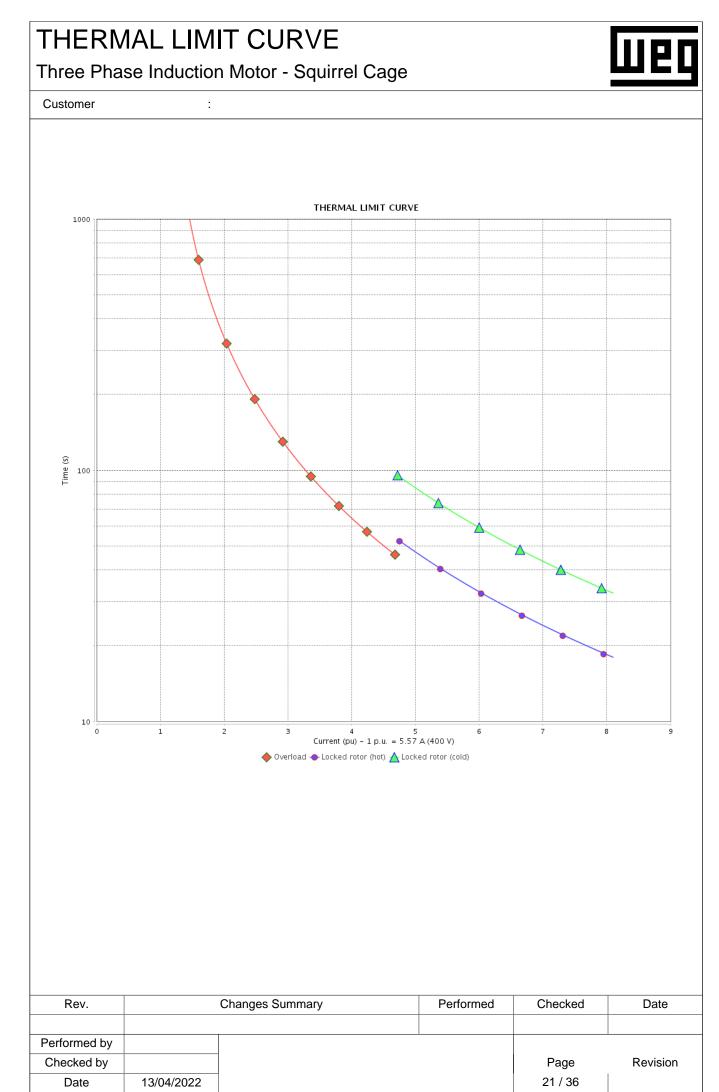
Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 7 que : 2 ue : 3	.79 A .4 .27 ft.lb 29 % 20 % 890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2233 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant	t					
Cooling constant	t					
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
		Catalog # :	00536ET3ER184TC-W22

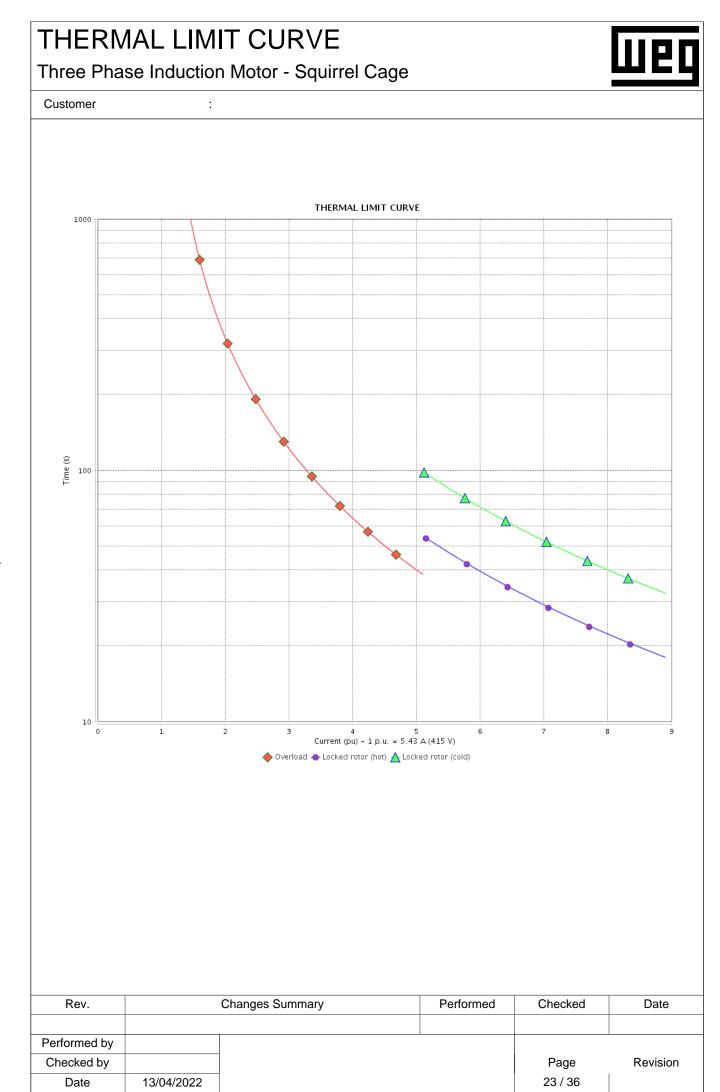
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Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 5	.57 A	Moment o	f inertia (J)	: 0.2233 sq.ft.lb	
LRC	: 8	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	.24 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	70 %	Service fa	ctor	: 1.25	
Breakdown torqu	.e :3	70 %	Temperatu	ure rise	: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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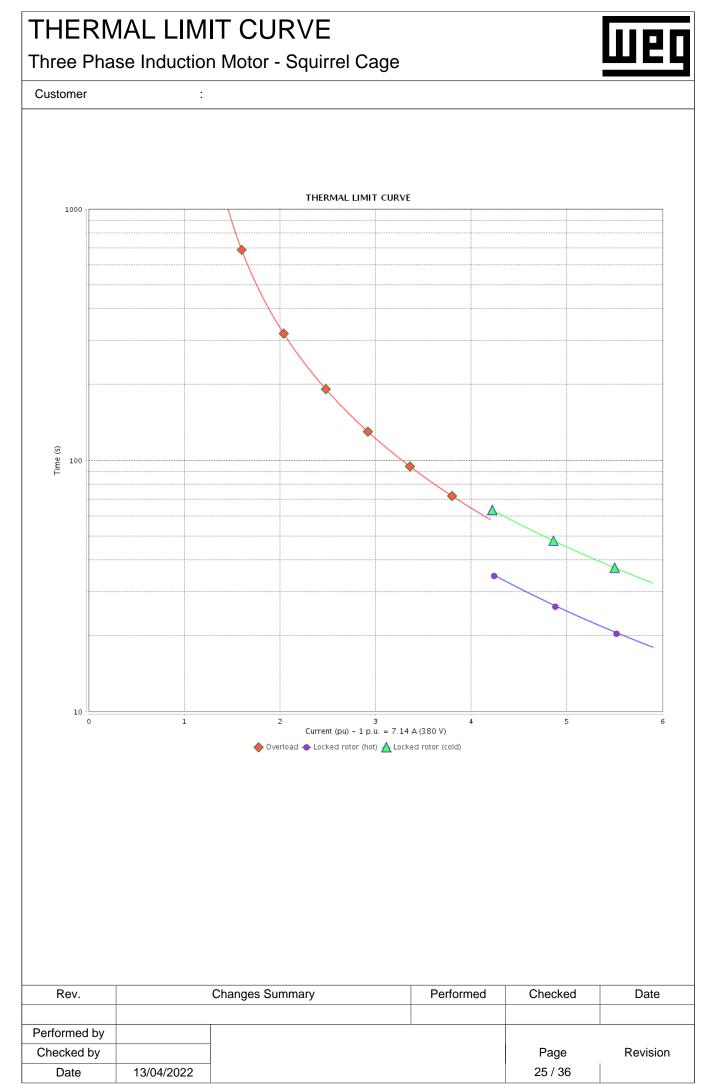
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Three Phase Ind	luction Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
	Thuse	Catalog # :	00536ET3ER184TC-W22

Performance	:	415 V 50 Hz 2P IE3				
Rated current	:	5.43 A	Moment of inertia (J)		: 0.2233 sq.ft.lb	
LRC	:	8.9	Duty cycle	;	: Cont.(S1)	
Rated torque	:	7.22 ft.lb	Insulation	class	: F	
Locked rotor toro	que :	300 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	400 %	Temperatu	ire rise	: 80 K	
Rated speed	:	2910 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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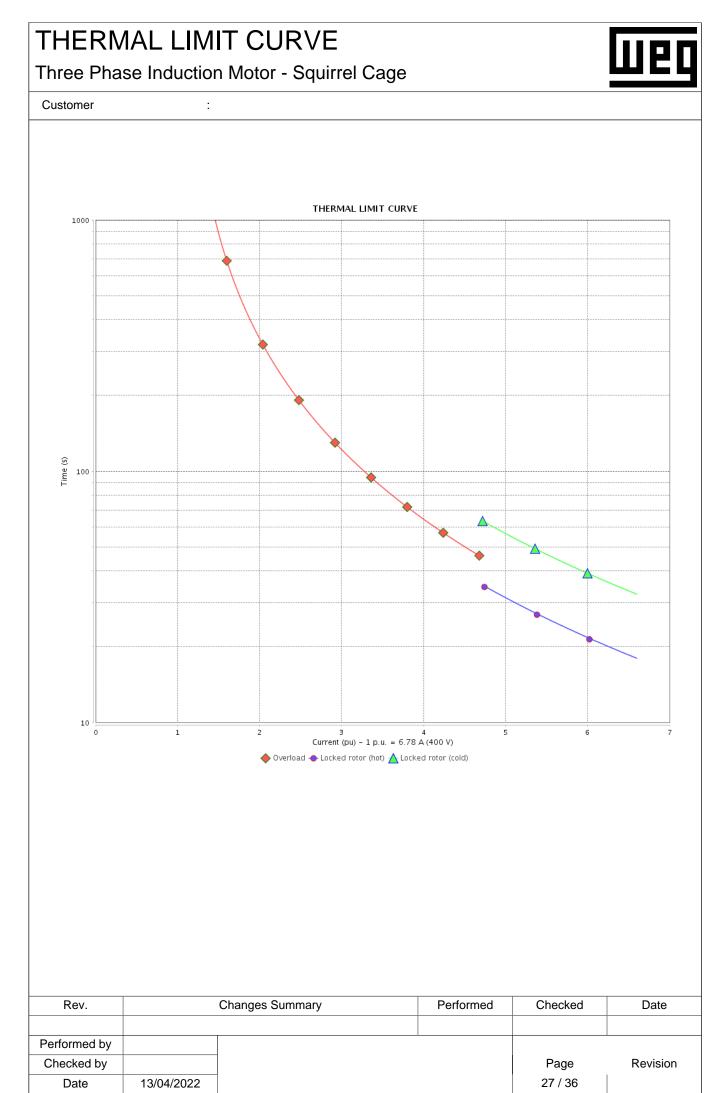
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
	Thuse	Catalog # :	00536ET3ER184TC-W22

Performance	: 3	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 9 que : 1 ue : 2	.14 A .9 .21 ft.lb 80 % 50 % 850 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2233 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
Heating constant	t					
Cooling constant	t					
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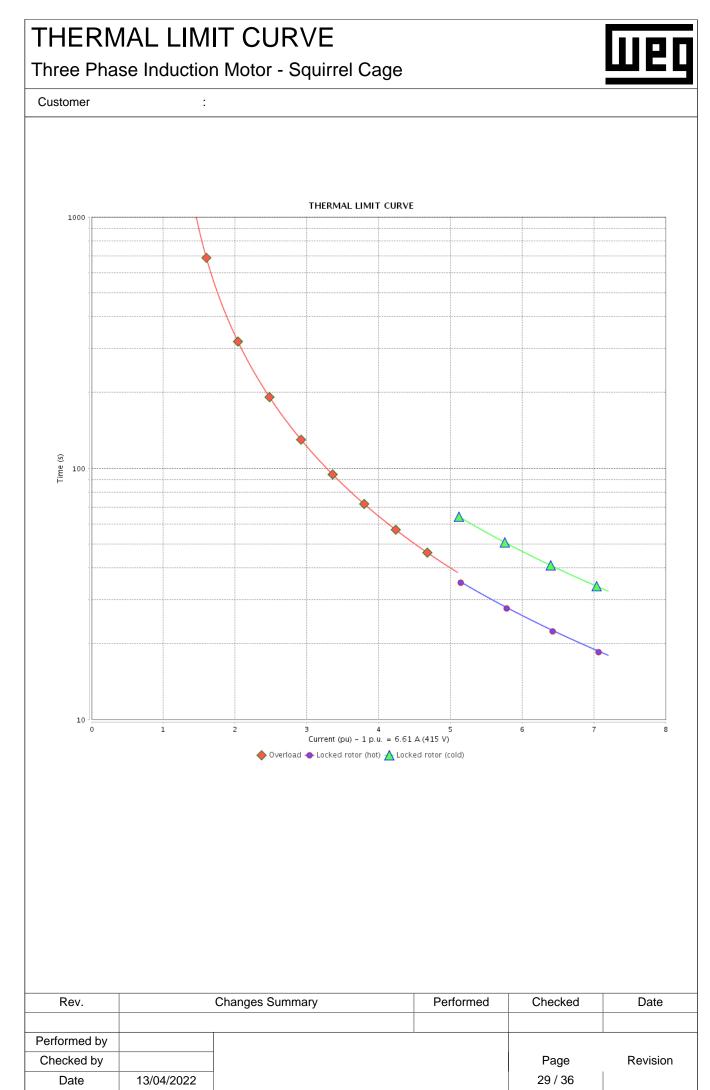
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Three Phase Induc	шсч		
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267
	Thase	Catalog # :	00536ET3ER184TC-W22

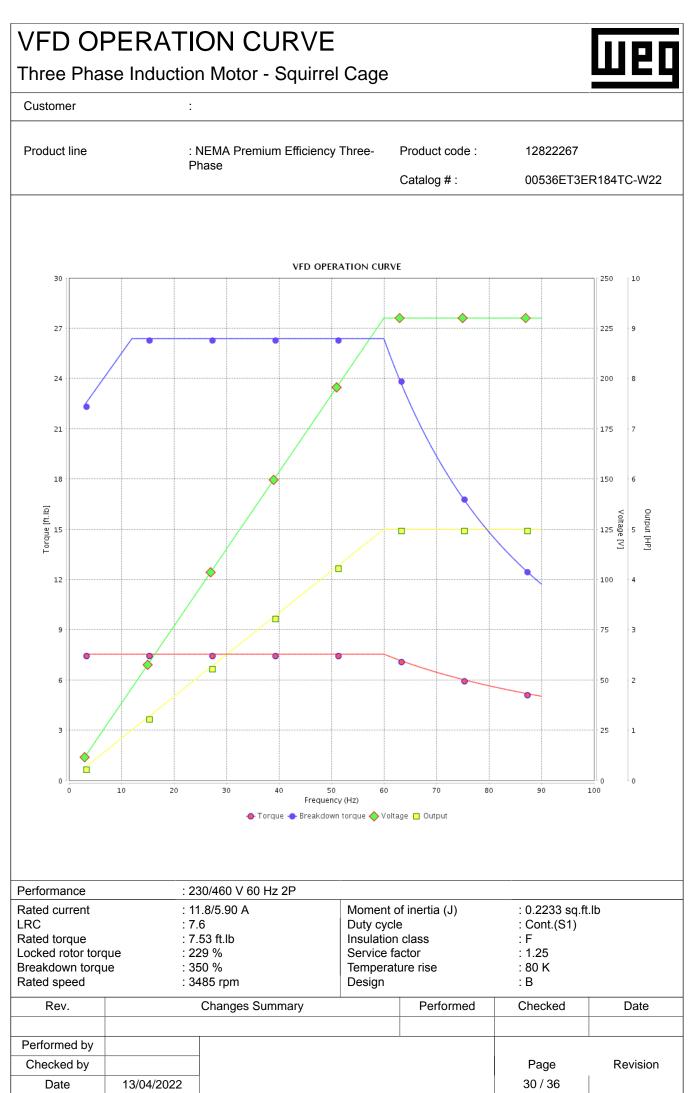
Performance		: 400 V 50 Hz 2P IE2				
LRC : Rated torque : Locked rotor torque : Breakdown torque :		: 6.78 A : 6.6 : 9.15 ft.lb : 210 % : 290 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2233 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant						
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Performed by						
Checked by					Page	Revision
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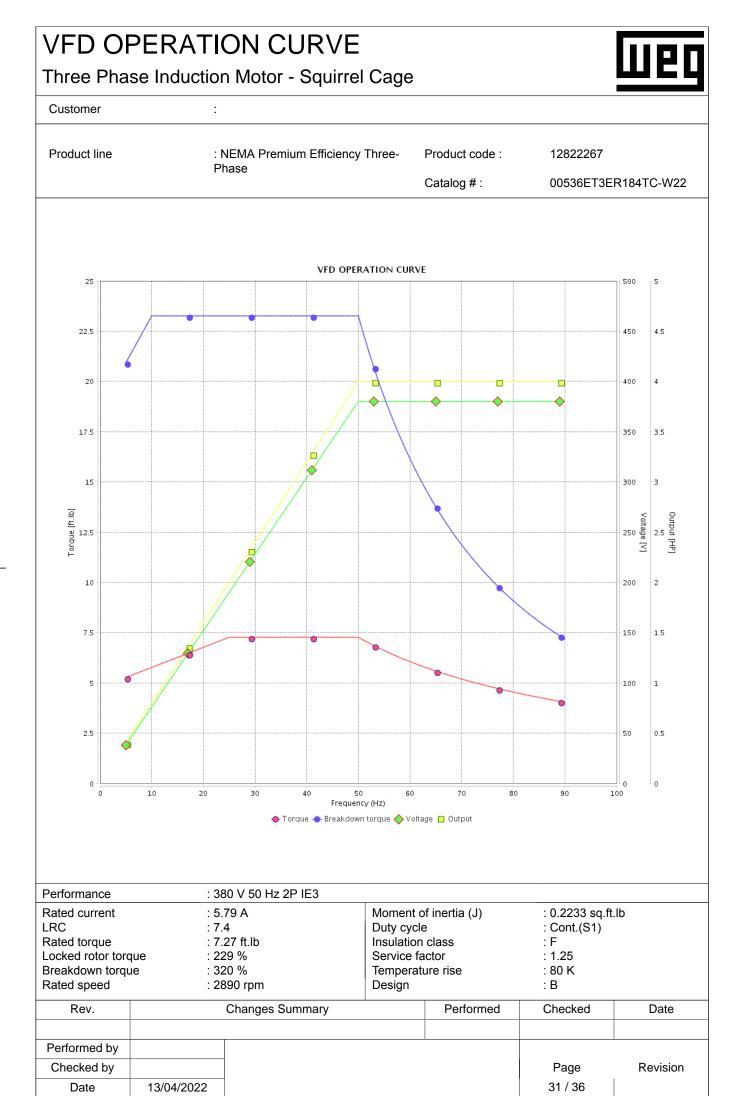


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Three Phase In	ше			
Customer	:			
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822267	
	1 11000	Catalog # :	00536ET3ER184TC-W22	

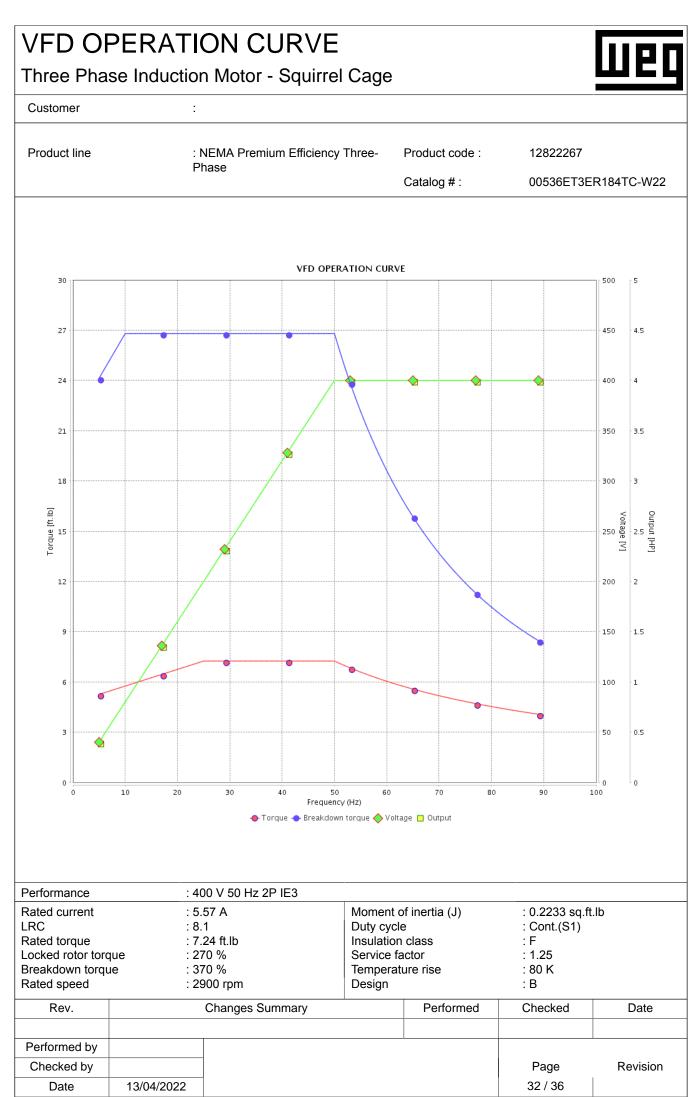
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Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current : 6.61 A		.61 A	Moment of inertia (J)		: 0.2233 sq.ft.lb	
LRC : 7.2		.2	Duty cycle		: Cont.(S1)	
Rated torque : 9		.12 ft.lb	Insulation class		: F	
Locked rotor torque :		40 %	Service factor		: 1.25	
		20 %	Temperature rise		: 80 K	
Rated speed	Rated speed : 2880 rpm		Design		: B	
Heating constant	t					
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				28 / 36	

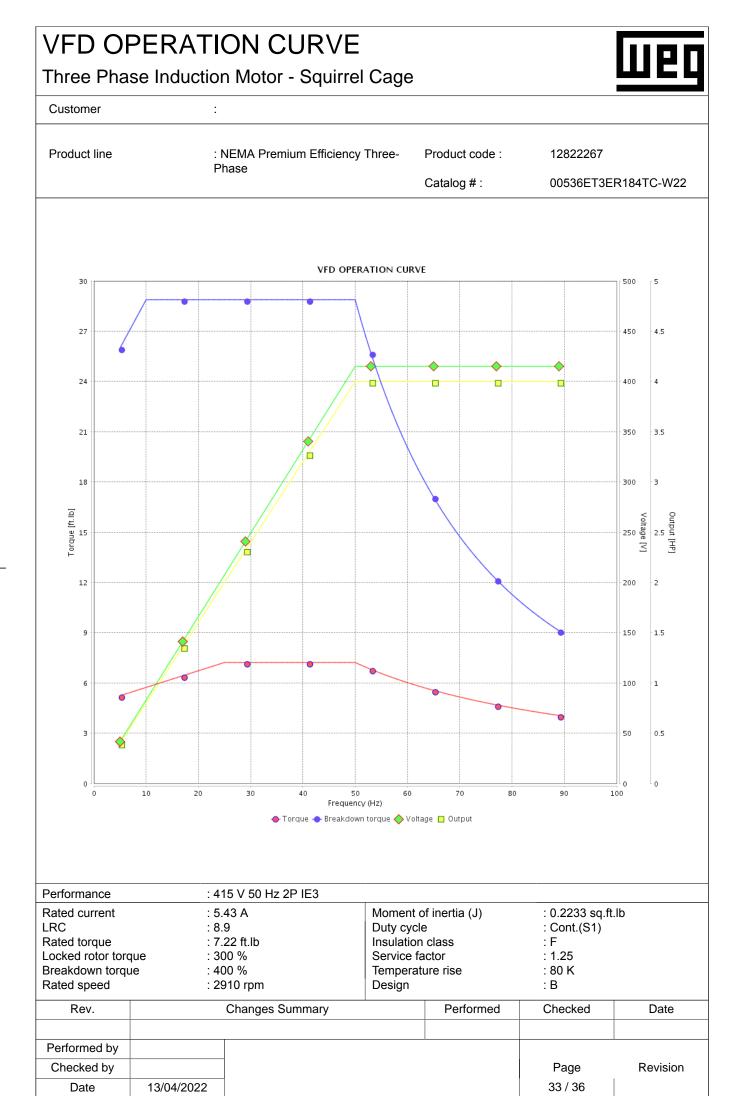


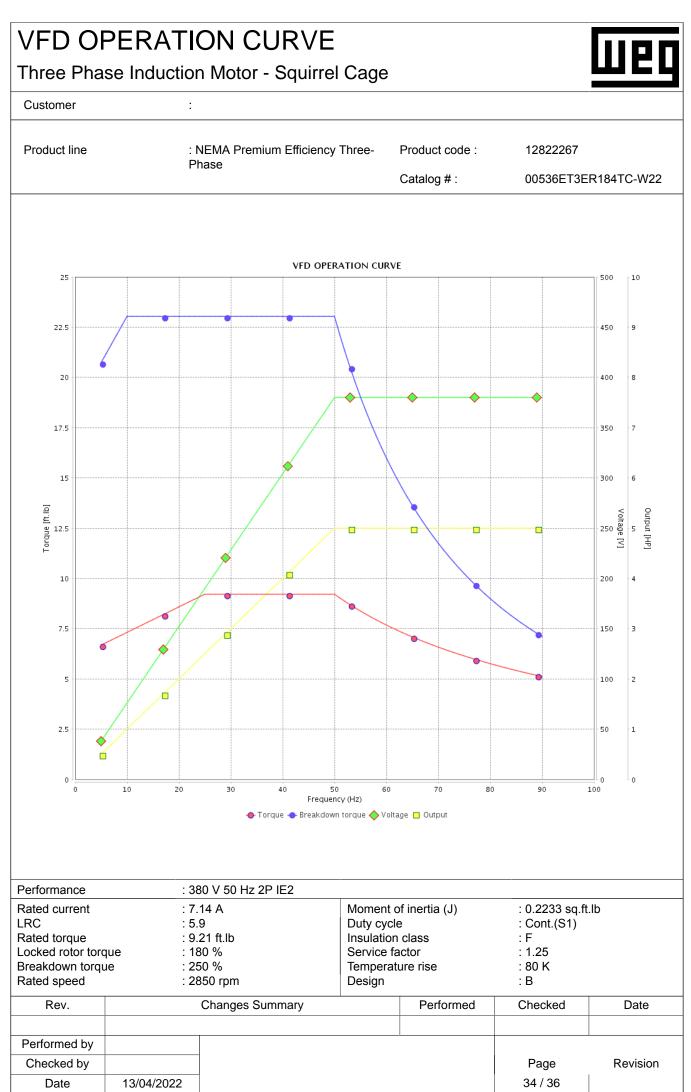




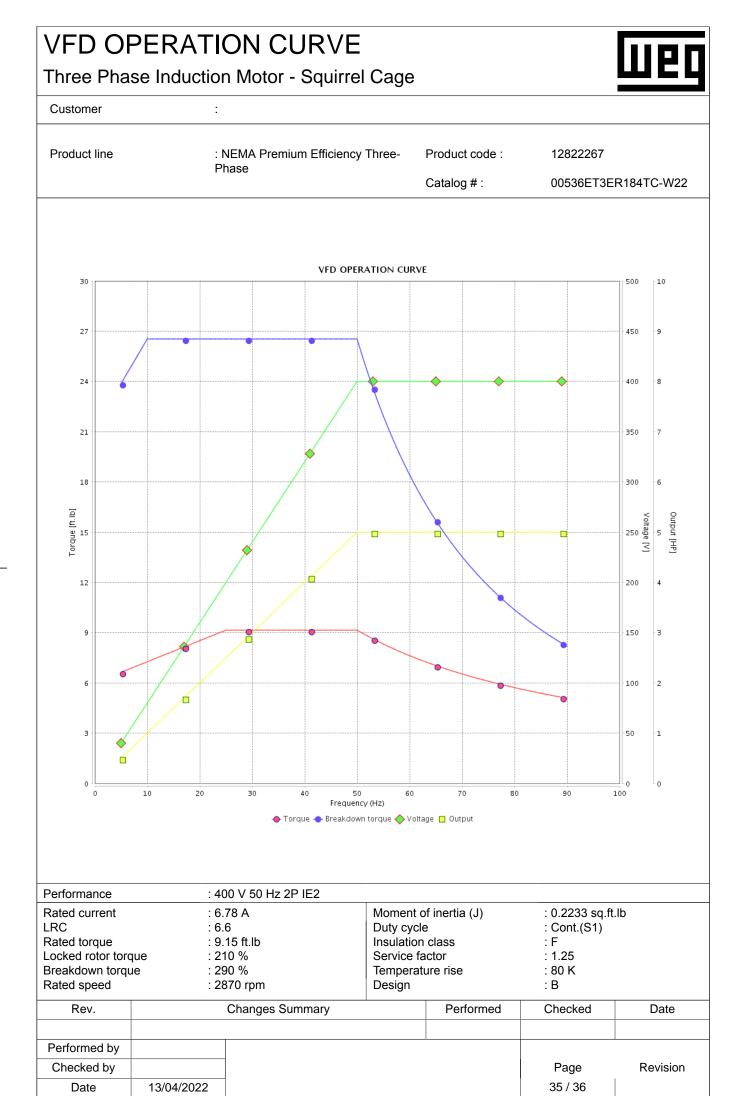
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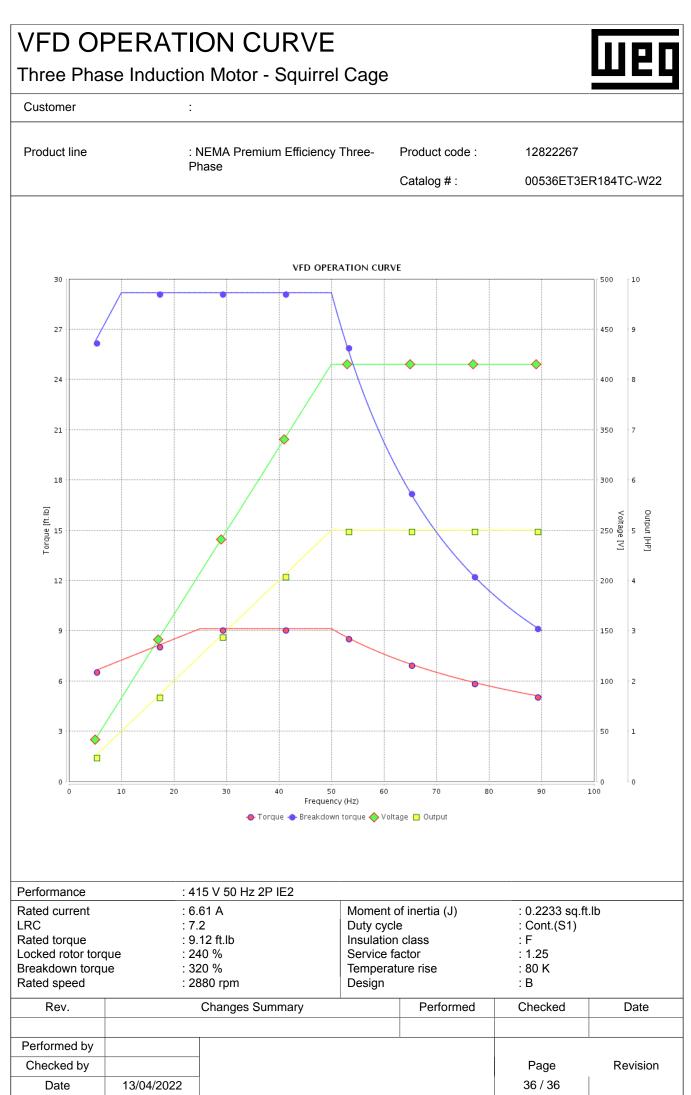




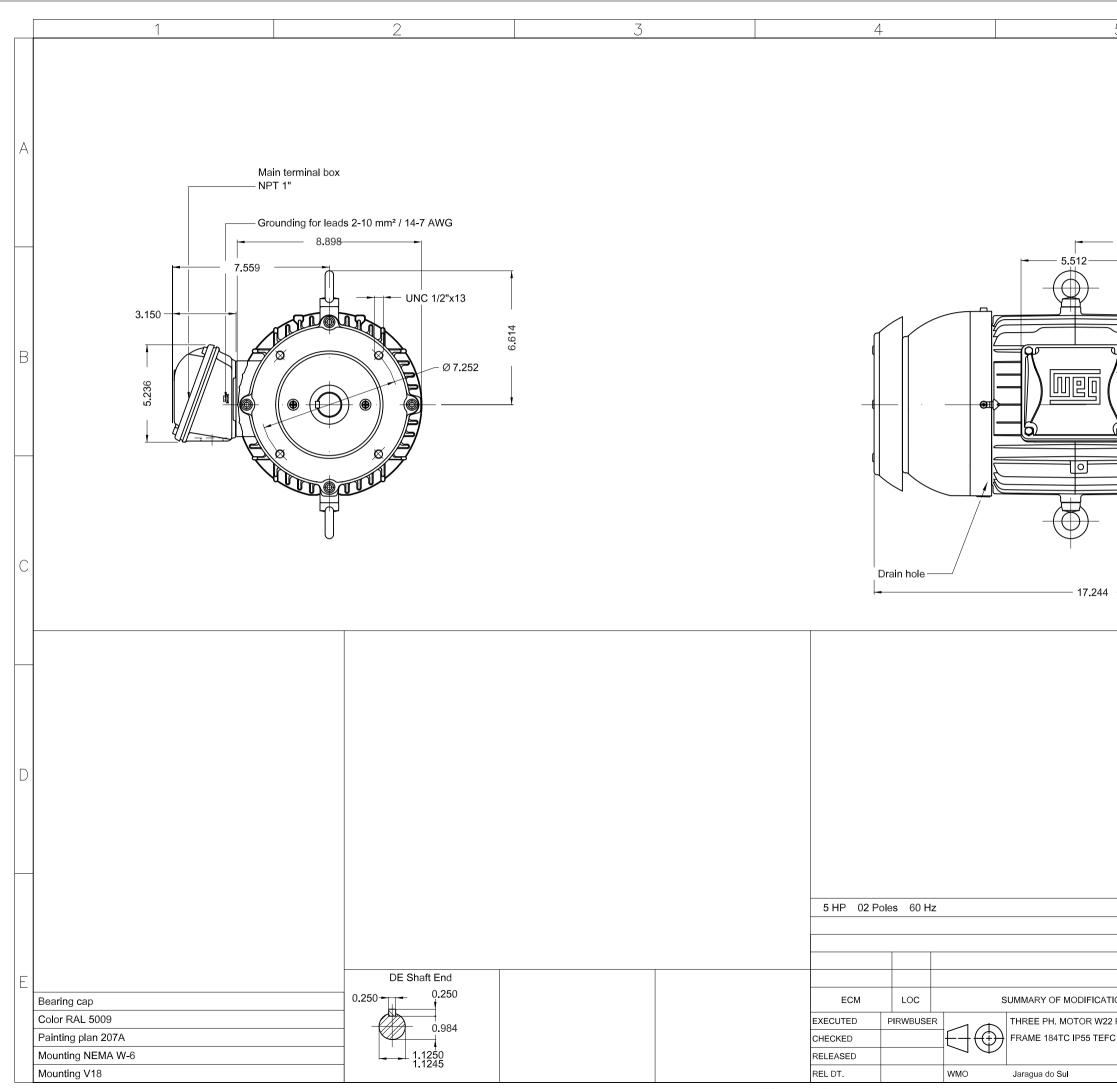


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5			6			
5		1.969 - 2.750 Drain hole	0 8.875			
						Dimensions in inches
					A	
	EXECUTED	CHECKED	RELEASED	DATE	VER	
PREM. EFF.		PREV	EW			e
		WDD		Ше		: A3
Product	Engineering	SHEET	1 / 1			XME

