DATA SHEET

Three Phase Induction Motor - Squirrel Cage

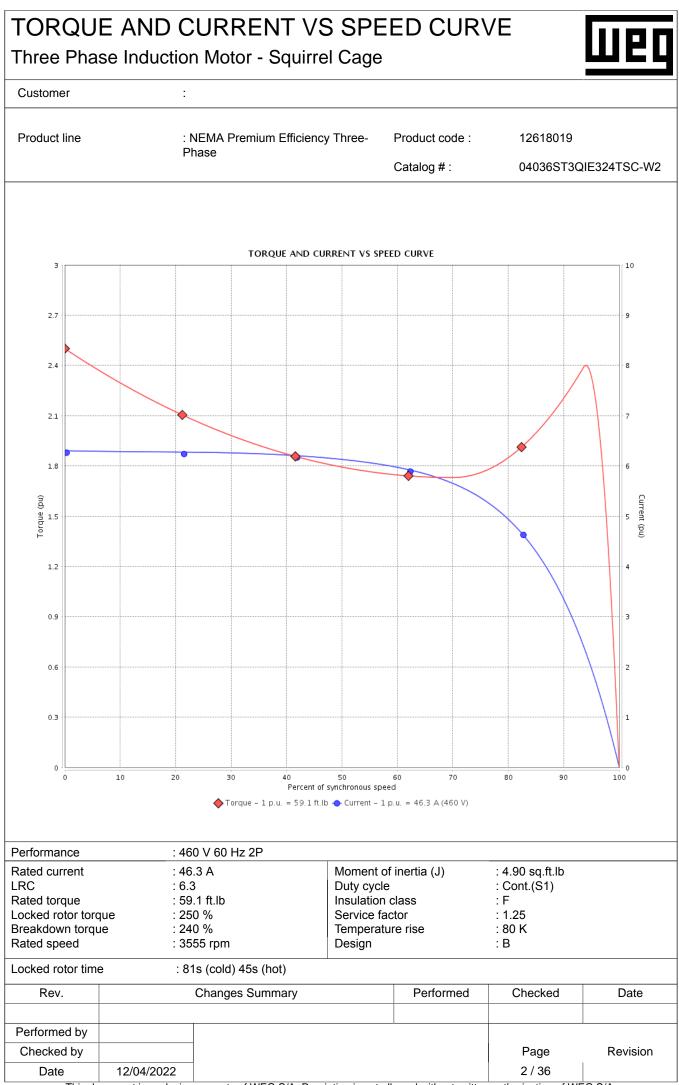
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$: NEMA Premium Efficiency Three-			Product code :		12618019					
Insulation class : F Mounting Duty cycle : Cont.(S1) Rotation 1 Ambient temperature : 20°C to +40°C Starting method Attitude : 1000 m.a.s.l. Protection degree IPS5 Design : B Moment of inertia (J) Ditput [HP] 40 30 30 30 Poles 2 2 2 2 Frequency [H2] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated voltage [V] 460 380 400 415 Rated voltage [V] 463 41.0 39.4 38.4 L. R. Amperes [A] 292 295 296 292 Rated speed [RPM] 3555 2960 2965 2970 510 Rated speed [RPM] 53.2 53.1 53.0 0.0 53.0 0.0 Service factor 1.25 1.00 1.00 1.00 1.00 1.00	Р		Phase				Catalog # :		0403	6ST3QIE32	24TSC-W2
Duty cycle : Cont.(S1) Retation ⁴ Ambient temperature : 20°C to +40°C Starting method Attitude : 1000 m.a.s.l. Starting method Protection degree : IP55 Moment of inertia (J) Dutput [HP] 40 30 30 30 Poles 2 2 2 2 requency [Hz] 60 50 50 50 Stated voltage [V] 460 380 400 415 Rated voltage [V] 60. 7.2x(Code H)7.5x(Code H)7.6x(Code H)5.0 50 No load current [A] 11.0 12.0 11.0 12.0 Rated speed [RPM] 3555 2960 2965 2970 Silp [%] 1.25 1.00 1.00 1.00 Acted torque [%] 240 250 280 310 Service factor 1.25 1.00 1.00 1.00 Cocked rotor time 81s (cold) 100s (cold) 935 (cold) 90.7 Efficiency (%) 50%				;						11 - TEFC	
Ambient temperature Altitude : -20°C to :+40°C is 2000 m.a.s.l. Starting method Approx. weight Moment of inertia (J) Protection degree Design : IP55 : : IP55 Design Moment of inertia (J) Output [HP] 40 30 30 30 Oales 2 2 2 2 Frequency [Hz] 60 50 50 50 Stated ournent [A] 46.3 41.0 39.4 38.4 R. Amperes [A] 292 295 296 292 RC [A] 6.3x(Code 7.2x(Code H)7.5x(Code H)7.6x(Code H)5.0 0 No load current [A] 11.0 12.0 11.0 12.0 Rated speed [RPM] 3555 2960 2965 2970 Silp [%] 1.25 1.33 1.17 1.00 Stated ournet [A] 15.2 5.3.1 53.0 0 Cocked rotor torque [%] 250 240 270 290 Starting motion torque [%] 240 250 280 310 Seruice factor 1.25	-								: F-1		
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Dutput [HP] 40 30 30 30 30 Yoles 2		9				Momer	it of inertia (J)		: 4.90	0 sq.ft.lb	
Poles 2 2 2 2 2 requency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated voltage [V] 463 41.0 39.4 38.4 R. Amperes [A] 292 295 296 292 RC [A] 6.3x(Code 7.2x(Code H)7.5x(Code H)7.6x(Code H)5.0x 6.3x(Code 7.2x(Code H)7.6x(Code H)7.6x(Code H)5.0x No load current [A] 11.0 12.0 11.0 12.0 3.3x Aated speed [RPM] 3555 2960 2865 2970 3.0x Stated torque [%] 240 250 240 270 290 3.10 Stated torque [%] 240 250 280 310 3.0x 3.0x 3.0x Cocked rotor time 81s (cold) 100s (cold) 93s (cold) 90s (cold) 27 52s (hot) 50s (hot) 1.0x 4.0x (ractor) 50x (hot) 1.0x 3.0x 1.0x 1.0x 1.0x <td< td=""><td>:</td><td></td><td>: В</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	:		: В								
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R. Amperes [A] 292 295 296 292 RC [A] 6.3x(Code 7.2x(Code H) 7.5x(Code H) 7.5x(Cod H) 7.5x(Code H)			460	380		400	415	380		400	415
RC [A] 6.3x(Code G) 7.2x(Code H) 7.6x(Code H) 7.6x(Code H) 7.6x(Code H) 5.0x No load current [A] 11.0 12.0 11.0 12.0			46.3	41.0		39.4	38.4	56.9		53.7	51.7
Color Color <th< td=""><td></td><td></td><td>292</td><td>295</td><td></td><td>296</td><td>292</td><td>285</td><td></td><td>301</td><td>321</td></th<>			292	295		296	292	285		301	321
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Rated speed [RPM] 3555 2960 2965 2970 Silp [%] 1.25 1.33 1.17 1.00 Rated torque [ft.lb] 59.1 53.2 53.1 53.0 cocked rotor torque [%] 240 270 290 Reakdown torque [%] 240 250 280 310 Service factor 1.25 1.00 1.00 1.00 100 Femperature rise 80 K 260 260 270 290 270 290 290 290 290 372 290 372 290 372 310 50 50 100 100 100 100 100 270 40 10 27 92 100 10 100 270 40 10 270 04 10 10 280 10 270 10 10 10 10 10 10 10 10 10 10 10 10 10											G)
Slip [%] 1.25 1.33 1.17 1.00 Rated torque [ft.lb] 59.1 53.2 53.1 53.0 cocked rotor torque [%] 240 270 290 Breakdown torque [%] 240 250 280 310 Service factor 1.25 1.00 1.00 1.00 Service factor 1.25 1.00 1.00 1.00 Cocked rotor time 81s (cold) 100s (cold) 93s (cold) 90s (cold) 27 Abs (hot) 556 (hot) 52s (hot) 50s (hot) 52s (hot) 50s (hot) 100k Vise level2 76.0 dB(A) 72.0 dB(A)								10.0		11.0	12.0
Rated torque [ft.lb] 59.1 53.2 53.1 53.0 cocked rotor torque [%] 250 240 270 290 Breakdown torque [%] 240 250 280 310 Bervice factor 1.25 1.00 1.00 1.00 Femperature rise 80 K 80 K 80 K 80 K 80 K cocked rotor time 45s (hot) 56s (hot) 52s (hot) 50s (hot) 1 voise level2 76.0 dB(A) 72.0 dB(A)		l						2930		2940	2950
Ocked rotor torque [%] 250 240 270 290 Breakdown torque [%] 240 250 280 310 Service factor 1.25 1.00 1.00 100 Imperature rise 80 K 80 K 80 K 80 K 80 K Jocked rotor time 81s (cold) 100s (cold) 93s (cold) 90s (cold) 27 Voise level ^a 76.0 dB(A) 72.0 dB(A) 70.75 0.73 0.50 0.50 0.50 0.50 0.50 0.86 0.88 <td>L</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.33</td> <td></td> <td>2.00</td> <td>1.67</td>	L							2.33		2.00	1.67
Breakdown torque [%] 240 250 280 310 Service factor 1.25 1.00 1.00 1.00 1.00 Femperature rise 80 K 80 K 80 K 80 K 80 K 80 K Locked rotor time 81 s (cold) 100s (cold) 93s (cold) 90s (cold) 72.0 dB(A)								71.7		71.4	71.2
Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80				-				180		200	220
Temperature rise 80 K 90 K		[%]						200		210	229
Locked rotor time 81s (cold) 100s (cold) 93s (cold) 90s (cold) 27 Noise level ² 76.0 dB(A) 72.0 dB(A) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.00</td> <td></td> <td>1.00</td> <td>1.00</td>								1.00		1.00	1.00
45s (hot) 56s (hot) 52s (hot) 50s (hot) 1: Noise level ² 76.0 dB(A) 72.0 dB(A) 72.1 dB(A) 72.1 dB(A) 72.1 dB(A) 72.1 dB(A) 72.1 dB(A) 72.1 dB(A) 72.7 dB(A)								105 K		105 K	105 K
Noise level ² 76.0 dB(Å) 72.0 dB(Å) 72.								27s (colo 15s (hot		59s (cold) 33s (hot)	59s (cold 33s (hot)
Efficiency (%) 25% 91.5 89.9 89.2 90.0 50% 91.7 90.9 90.3 90.7 75% 92.4 91.8 91.7 92.1 100% 92.4 92.7 92.7 92.7 Power Factor 25% 0.58 0.54 0.53 0.50 50% 0.80 0.77 0.75 0.73 0.75% Power Factor 25% 0.86 0.85 0.83 0.82 100% 0.88 0.87 0.86 0.87 0.86 Bearing type : 6312 C3 6212 C3 6212 C3 Max. traction Sealing : Inpro/Seal Inpro/Seal Max. compression Max. compression Lubricant amount : 21 g 13 g 13 g Max. compression MG-1. Notes : Mobil Polyrex EM MG-1. MG-1. MG-1. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after ma			. ,	. ,		. ,	. ,	72.0 dB(/		2.0 dB(A)	72.0 dB(A
Efficiency (%) 50% 91.7 90.9 90.3 90.7 75% 92.4 91.8 91.7 92.1 1 100% 92.4 92.7 92.7 92.7 92.7 Power Factor 25% 0.58 0.54 0.53 0.50 75% 0.86 0.85 0.83 0.82 0.73 75% 0.86 0.85 0.83 0.82 0.86 Bearing type : 6312 C3 6212 C3 6212 C3 6212 C3 Sealing : Inpro/Seal Inpro/Seal Max. traction Max. traction Lubricatin amount : 21 g 13 g Max. traction Max. traction Notes Mobil Polyrex EM Mobil Polyrex EM Max. traction Max. traction Notes . Mobil Polyrex EM MG-1. MG-1. Notes . . . MG-1. Masured at 1m and with tolerance of +3dB(A). . MG-1. (4) At 100% of full l	1	25%				. ,	. ,	92.2	<u>, , , , , , , , , , , , , , , , , , , </u>	91.5	92.1
Efficiency (%) 75% 92.4 91.8 91.7 92.1 100% 92.4 92.7 92.7 92.7 Power Factor 25% 0.58 0.54 0.53 0.50 75% 0.86 0.85 0.83 0.82 0.73 75% 0.86 0.85 0.83 0.82 0.86 100% 0.88 0.88 0.87 0.86 0.85 Sealing : 100% 6312 C3 6212 C3 Max. traction Sealing : Inpro/Seal Inpro/Seal Max. compression Lubrication interval : 12000 h 15000 h Max. compression Lubricant amount : 21 g 13 g Max. compression Notes Mobil Polyrex EM MG-1. MG-1. Notes : Mobil Polyrex EM MG-1. Notes : : : MG-1. 'Maxung to the motor from the shaft end. : : MG-1.								91.7		91.7	91.7
100% 92.4 92.7 92.7 92.7 Power Factor 25% 0.58 0.54 0.53 0.50 75% 0.86 0.85 0.83 0.82 0.73 Bearing type : 100% 0.88 0.87 0.86 0.87 Sealing : Inpro/Seal Inpro/Seal Inpro/Seal Max. traction Lubrication interval : 12000 h 15000 h Max. compression Lubricant amount : 21 g 13 g Max. compression Lubricant type : Mobil Polyrex EM MG-1. Notes : : Mobil Reader MG-1. (1) Looking the motor from the shaft end. : : MG-1. (2) Measured at 1m and with tolerance of +3dB(A). : MG-1. MG-1. (3) Approximate weight subject to changes after manufacturing process. : : Performed (4) At 100% of full load. : : : : :								91.7		91.7	92.4
Power Factor 25% 0.58 0.54 0.53 0.50 50% 0.80 0.77 0.75 0.73 0.73 75% 0.86 0.85 0.83 0.82 0.73 100% 0.88 0.85 0.83 0.82 0.86 Bearing type : 6312 C3 6212 C3 Foundation loads Sealing : Inpro/Seal Inpro/Seal Max. traction Lubrication interval : 21 g 13 g Max. compression Lubricant amount : 21 g 13 g power supply, subject to to Notes Mobil Polyrex EM MG-1. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). MG-1. MG-1. (3) Approximate weight subject to changes after manufacturing process. Changes Summary Performed Rev. Changes Summary Performed Performed								91.0		91.7	91.7
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100%0.880.880.870.86Bearing type:Drive end 6312 C3Non drive end 6212 C3Foundation loads Max. tractionSealing:Inpro/Seal 12000 hInpro/Seal 15000 hInpro/Seal Max. compressionMax. tractionLubrication interval:12000 h15000 hMax. tractionLubricant amount:21 g13 gMax. tractionLubricant type:Mobil Polyrex EMNotesNotesThis revision replaces and cancel the previous one, which must be eliminated.These are average value power supply, subject to the MG-1.MG-1.(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.MG-1.PerformedRev.Changes SummaryPerformedPerformed by				1				0.88		0.87	0.86
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Sealing : Inpro/Seal Inpro/Seal Max. douon Lubrication interval : 12000 h 15000 h Max. compression Lubricant amount : 21 g 13 g Max. compression Lubricant amount : 21 g 13 g Max. compression Notes Mobil Polyrex EM Mobil Polyrex EM Max. compression Notes Mobil Polyrex EM Max. compression This revision replaces and cancel the previous one, which must be eliminated. These are average value power supply, subject to the shaft end. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). MG-1. (3) Approximate weight subject to changes after manufacturing process. MG-1. MG-1. (4) At 100% of full load. Changes Summary Performed Performed by Performed Intervent of the state of the st									054		
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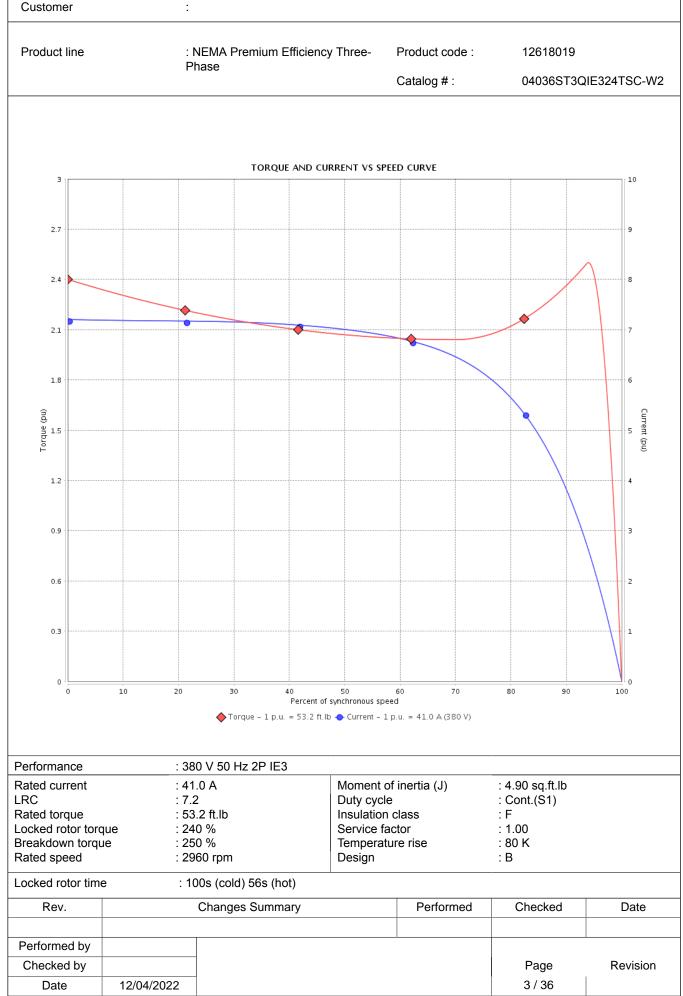
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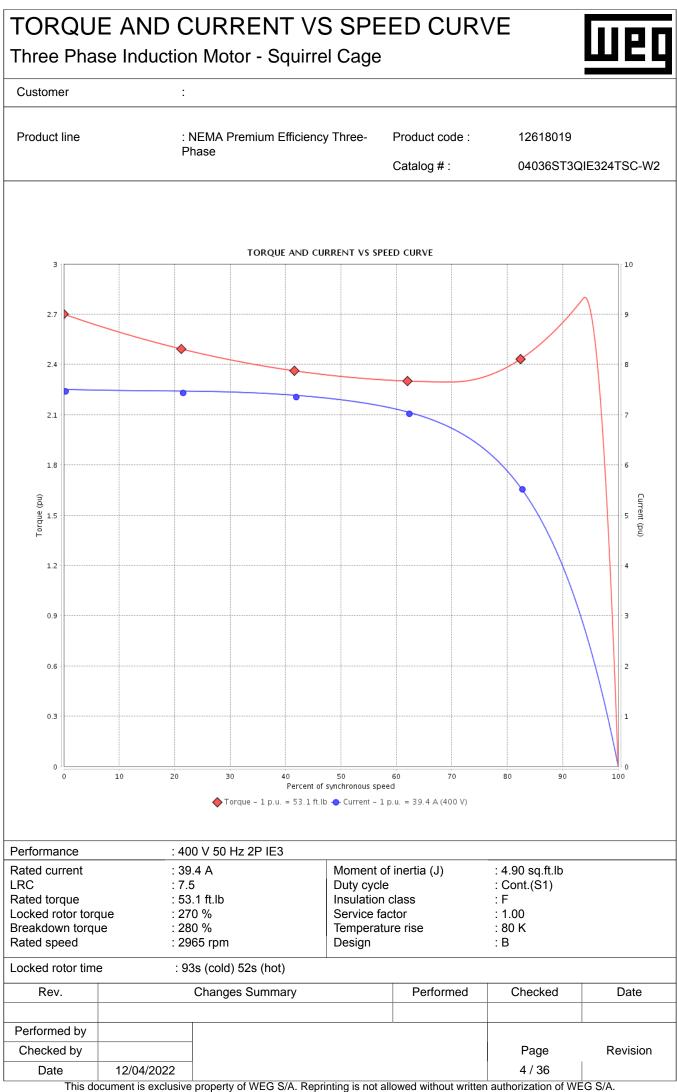
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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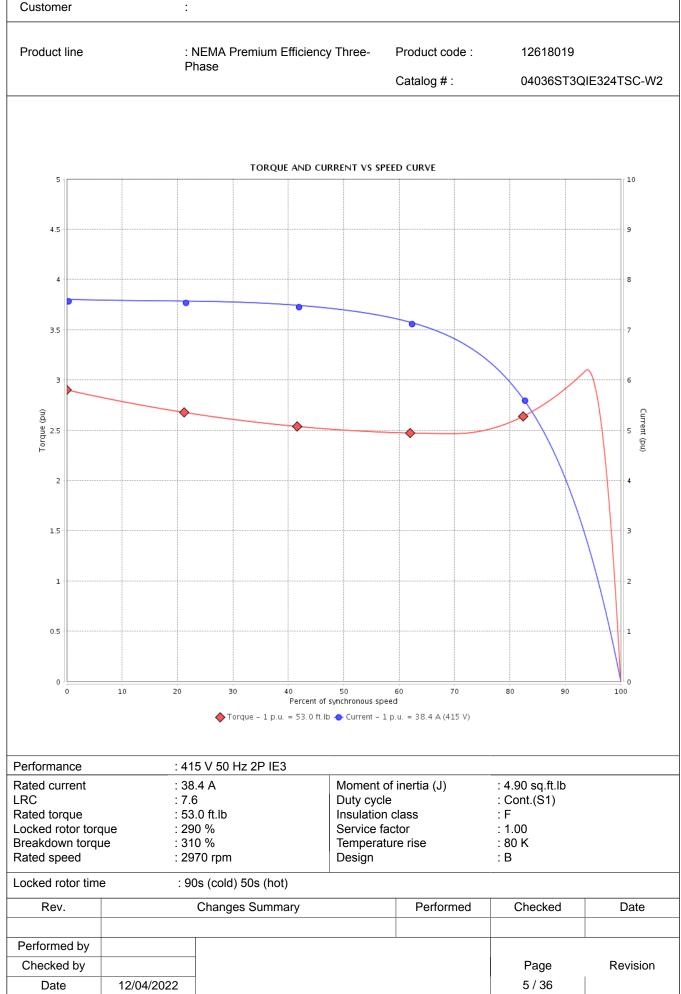


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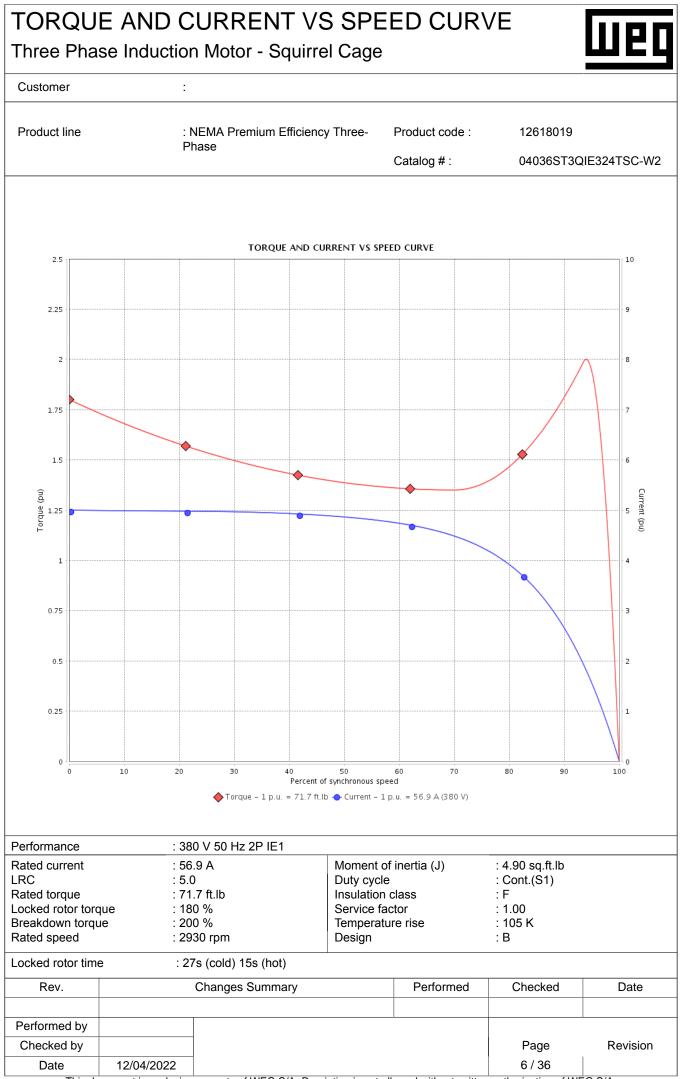
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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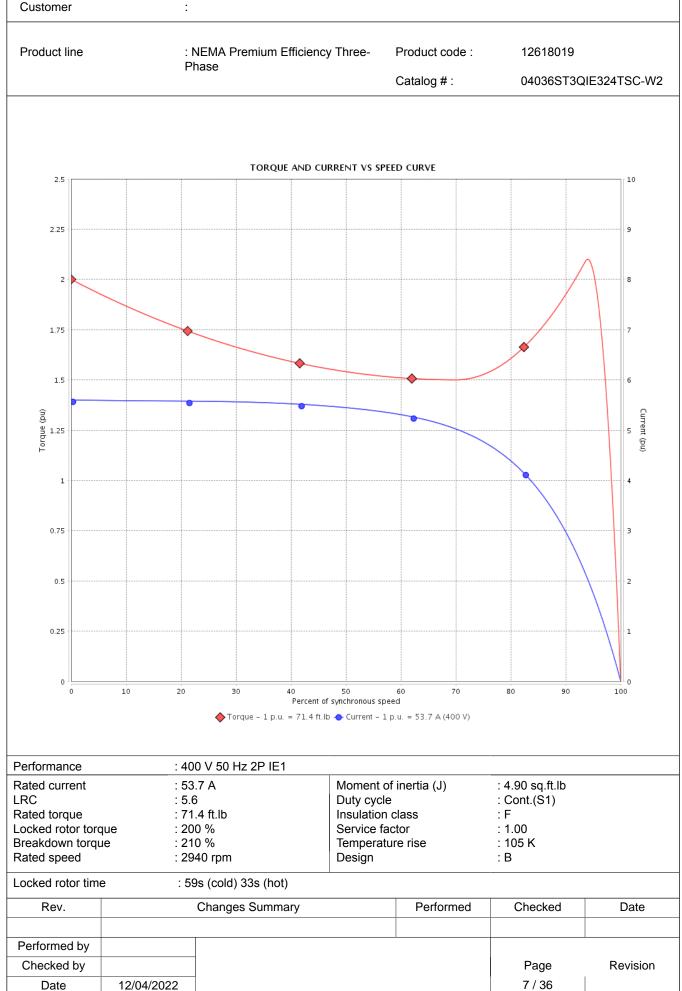
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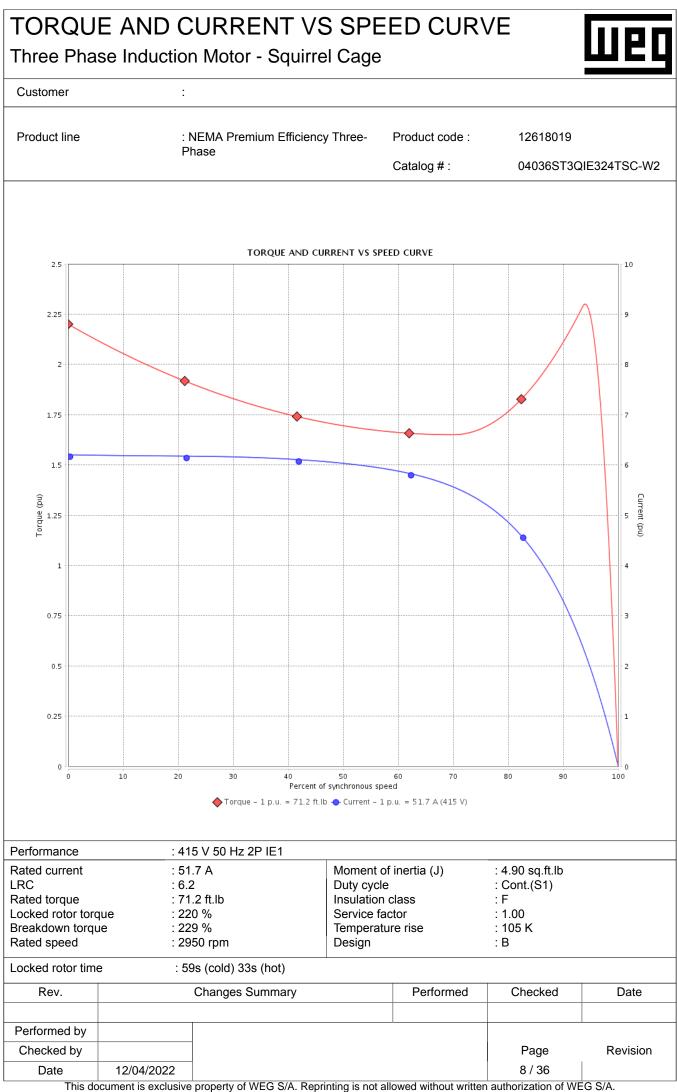
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



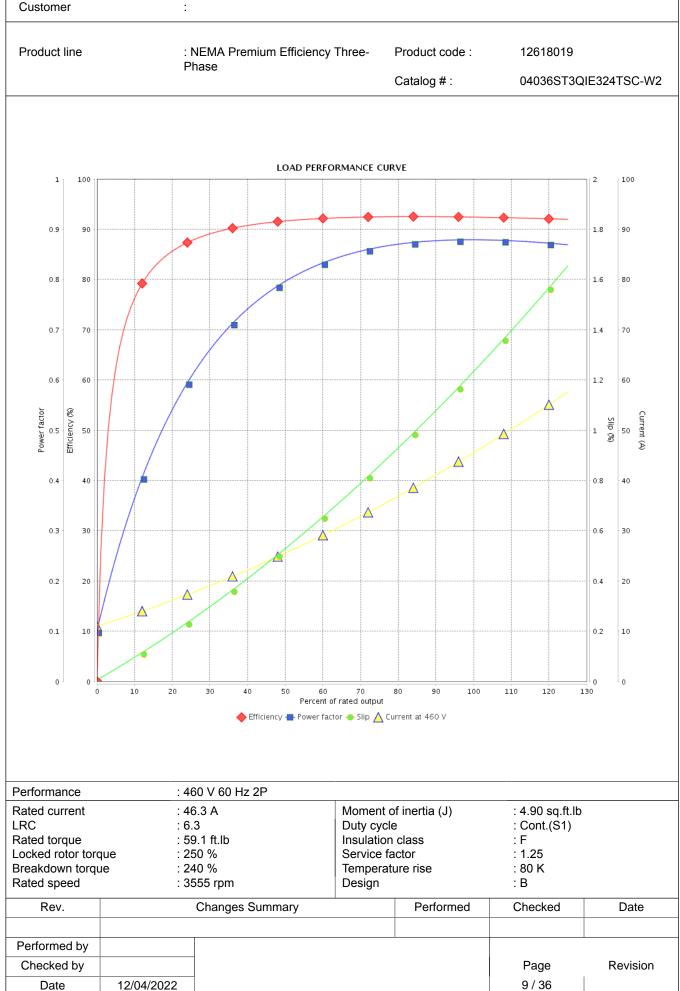
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Three Phase Induction Motor - Squirrel Cage

Customer



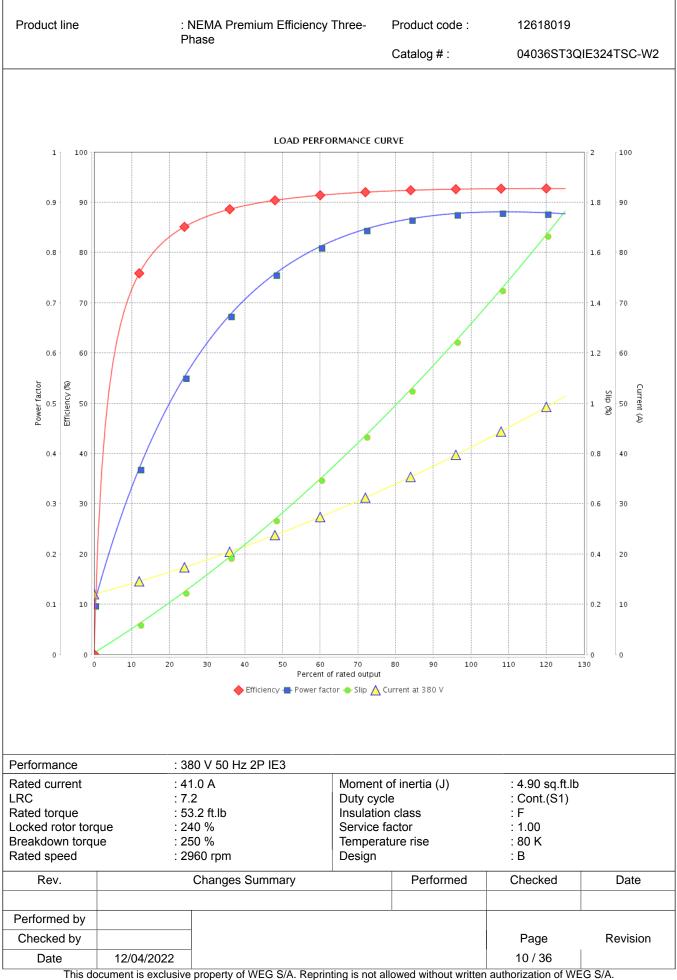
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Three Phase Induction Motor - Squirrel Cage

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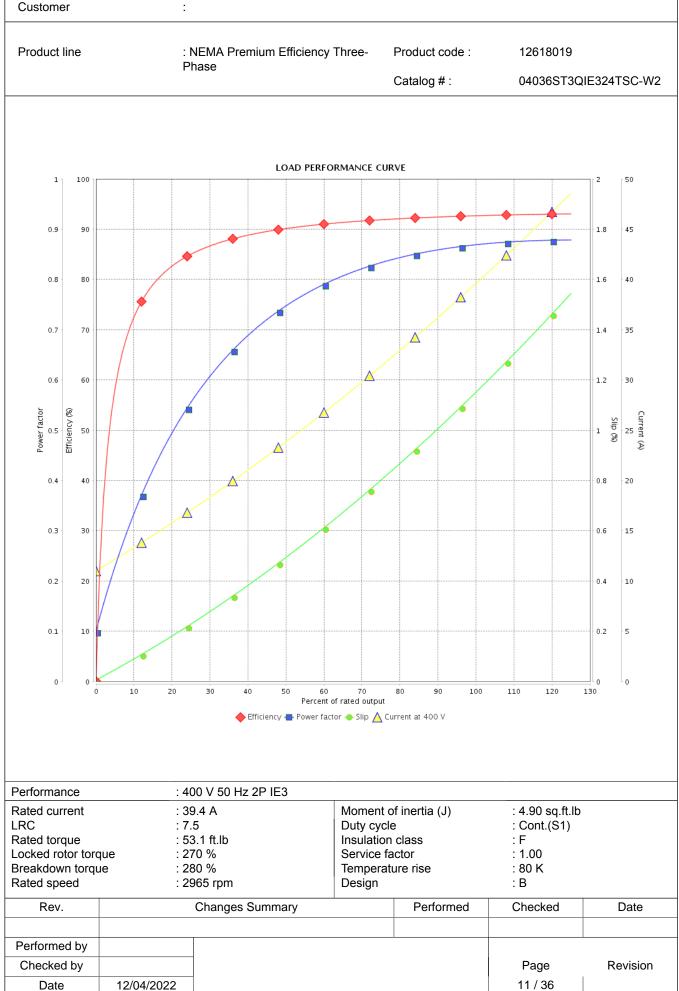


Customer



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Customer



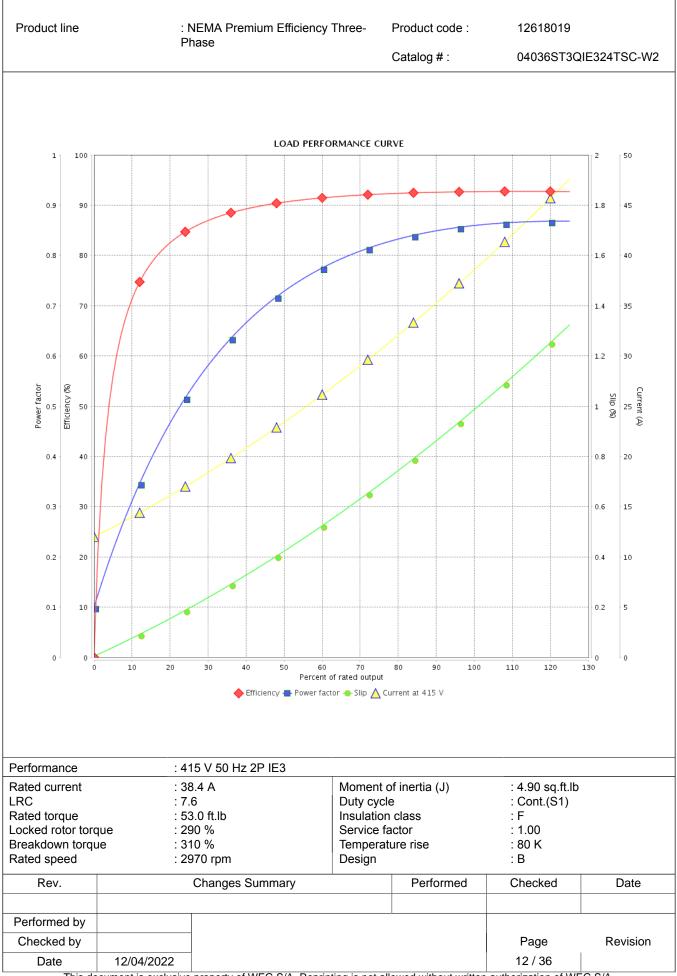
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Three Phase Induction Motor - Squirrel Cage

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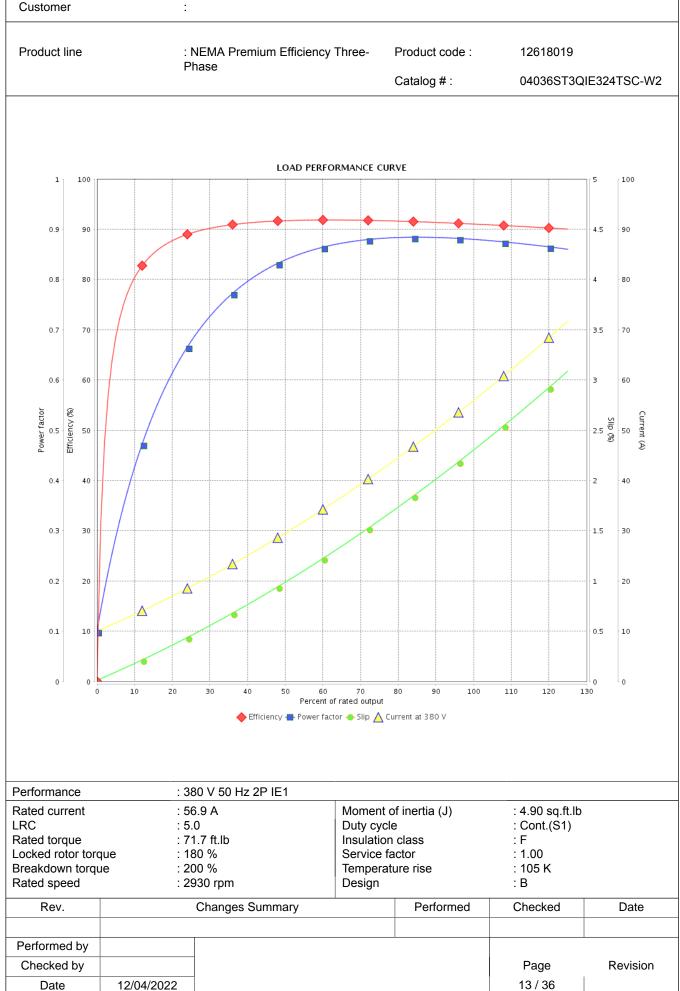


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



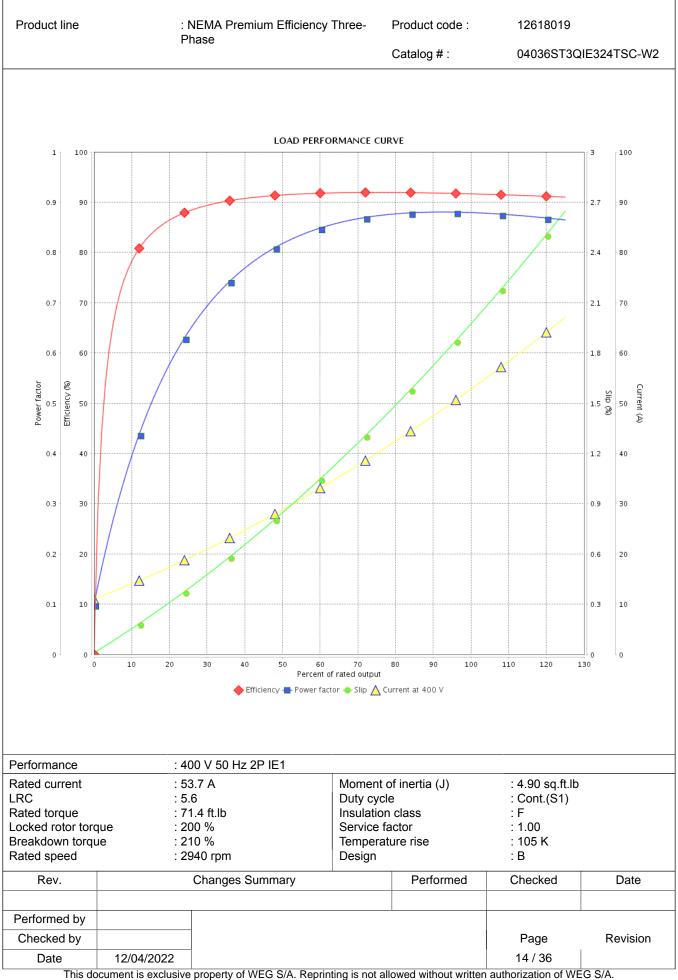
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Three Phase Induction Motor - Squirrel Cage

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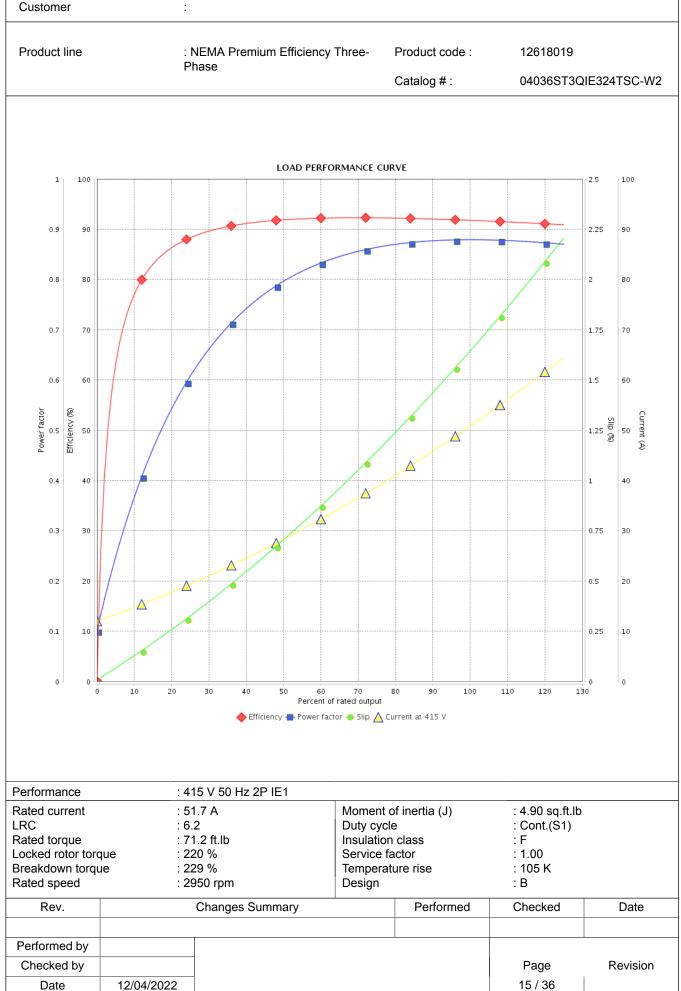
Customer



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Three Phase Induction Motor - Squirrel Cage

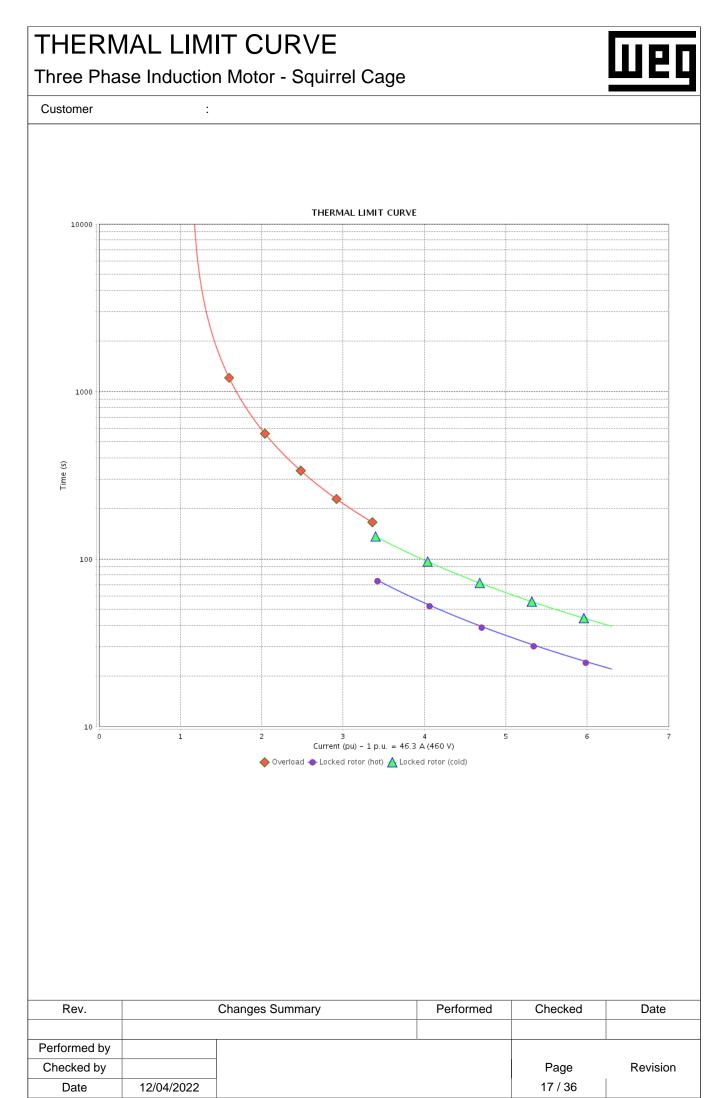
Customer



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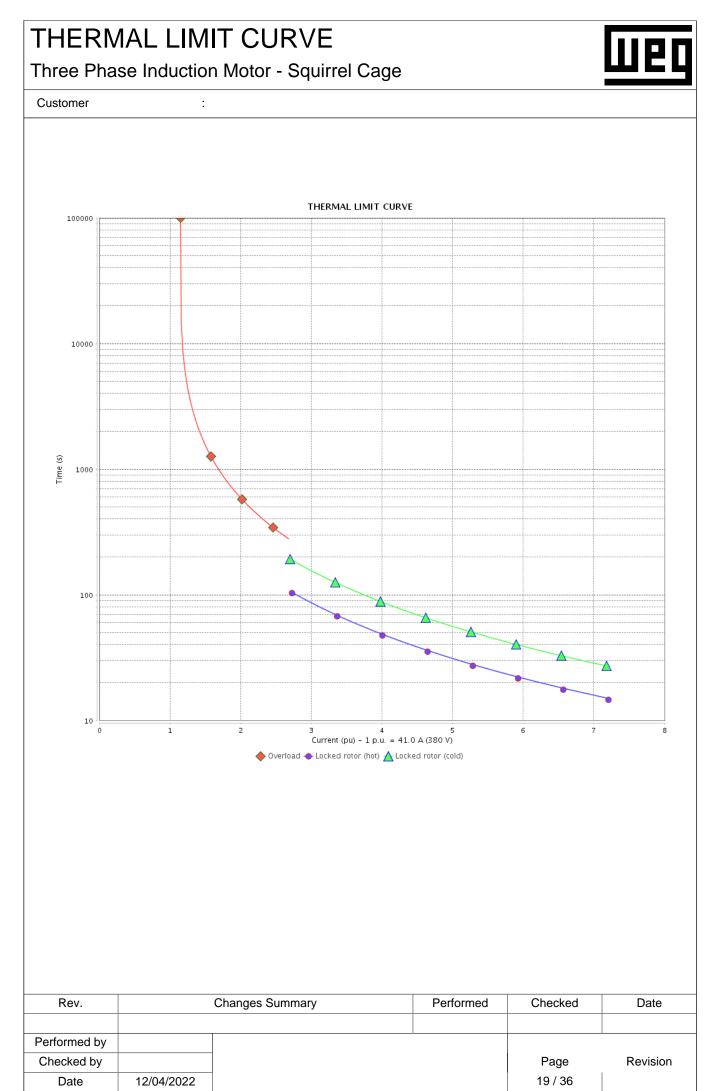
Customer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12618019 04036ST3QIE324TSC-W

Performance	: 46	60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 59 que : 29 Je : 24	5.3 A 3 9.1 ft.lb 50 % 40 % 555 rpm	.lb Duty cycle Insulation class Service factor Temperature rise		: 4.90 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
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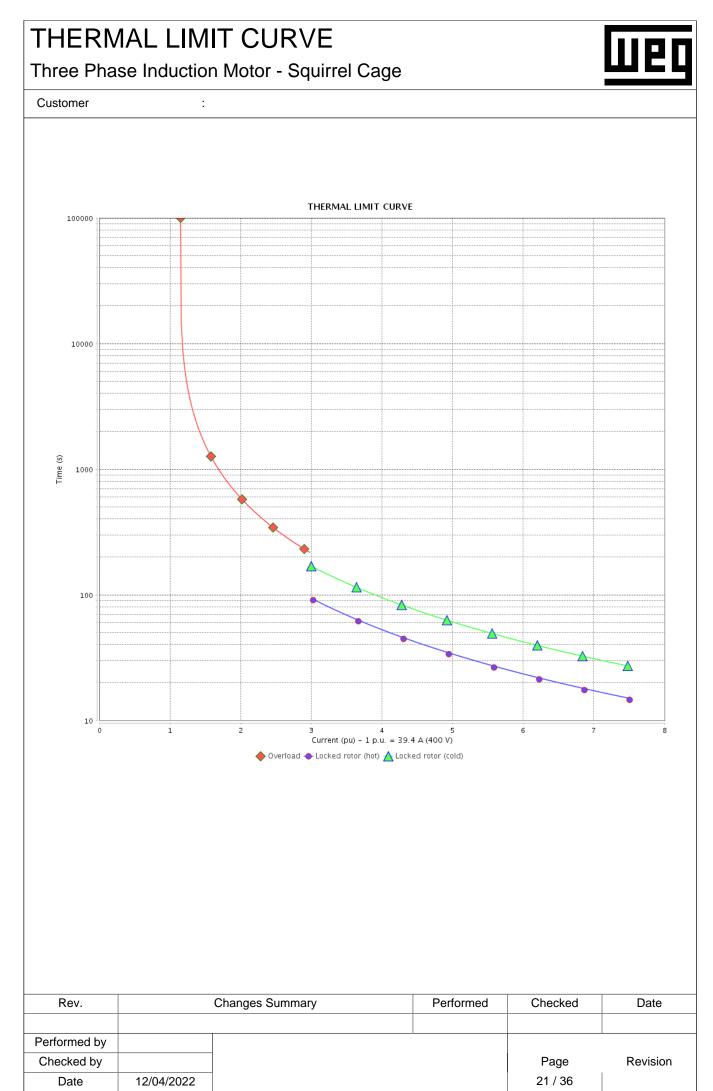
[
	LIMIT CURVE	_	Шер
Three Phase Inc	luction Motor - Squirrel (Cage	
Customer	:		
Product line	: NEMA Premium Efficiency T	hree- Product code :	12618019
	Phase	Catalog # :	04036ST3QIE324TSC-W2
Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC Rated torque	: 53.2 ft.lb	Duty cycle Insulation class Service factor	: Cont.(S1) : F : 1.00
Locked rotor torque	. 240 70		. 1.00

Rated torque Locked rotor toro Breakdown torqu Rated speed	que : 2 Je : 2	3.2 ft.lb 40 % 50 % 960 rpm	Service	Insulation class Service factor Temperature rise Design		
Heating constant	t					
Cooling constant	t					
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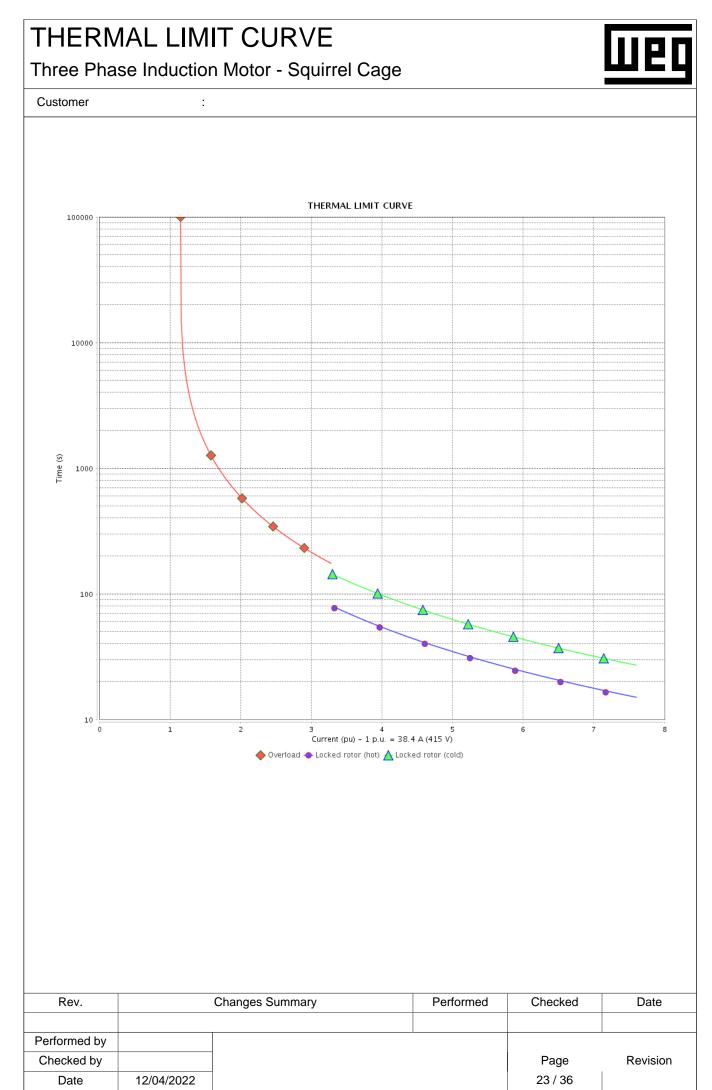
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THERMAL L	IMIT CURVE		шео
Three Phase Induc	ction Motor - Squirrel Cage	;	
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12618019
	Phase	Catalog # :	04036ST3QIE324TSC-W2
Performance	: 400 V 50 Hz 2P IE3		

Performance	: 40	JU V 50 HZ 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 53 que : 27 je : 28	9.4 A 5 3.1 ft.lb 70 % 30 % 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 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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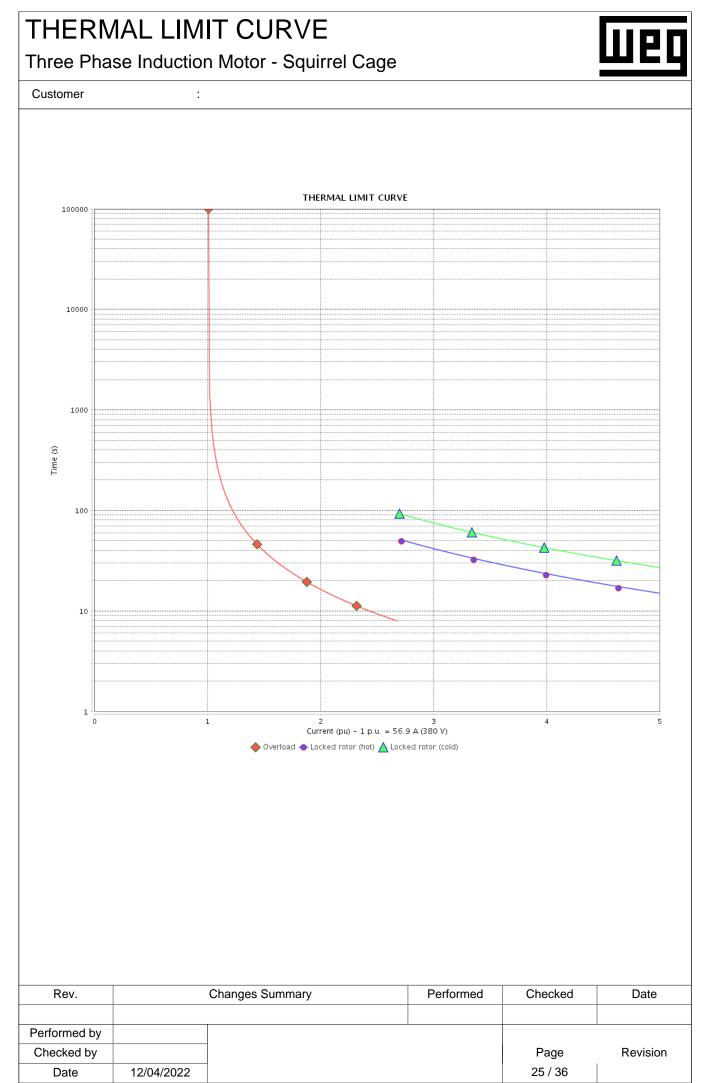
	LIMIT CURVE		шес
Customer	nduction Motor - Squirrel Cag	9	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12618019 04036ST3QIE324TSC-W2
Performance	: 415 V 50 Hz 2P IE3		· 4.00 ag ft lb

: 41	15 V 50 HZ 2P IE3				
: 7. : 55 jue : 29 ie : 3	6 3.0 ft.lb 90 % 10 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
t					
:					
	Changes Summary		Performed	Checked	Date
				Page	Revision
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	: 38 : 7. : 55 : : : : : : : : : : : : : : : : :	e : 310 % : 2970 rpm Changes Summary	: 38.4 A Moment o : 7.6 Duty cycle : 53.0 ft.lb Insulation ue : 290 % Service fa : 2970 rpm Design Changes Summary	: 38.4 A : 7.6 : 53.0 ft.lb ue : 290 % e : 310 % : 2970 rpm Changes Summary Performed	: 38.4 A Moment of inertia (J) : 4.90 sq.ft.lb : 7.6 Duty cycle : Cont.(S1) : 53.0 ft.lb Insulation class : F ue : 290 % Service factor : 1.00 ie : 310 % Temperature rise : 80 K : 2970 rpm Design : B Changes Summary Performed Checked Page



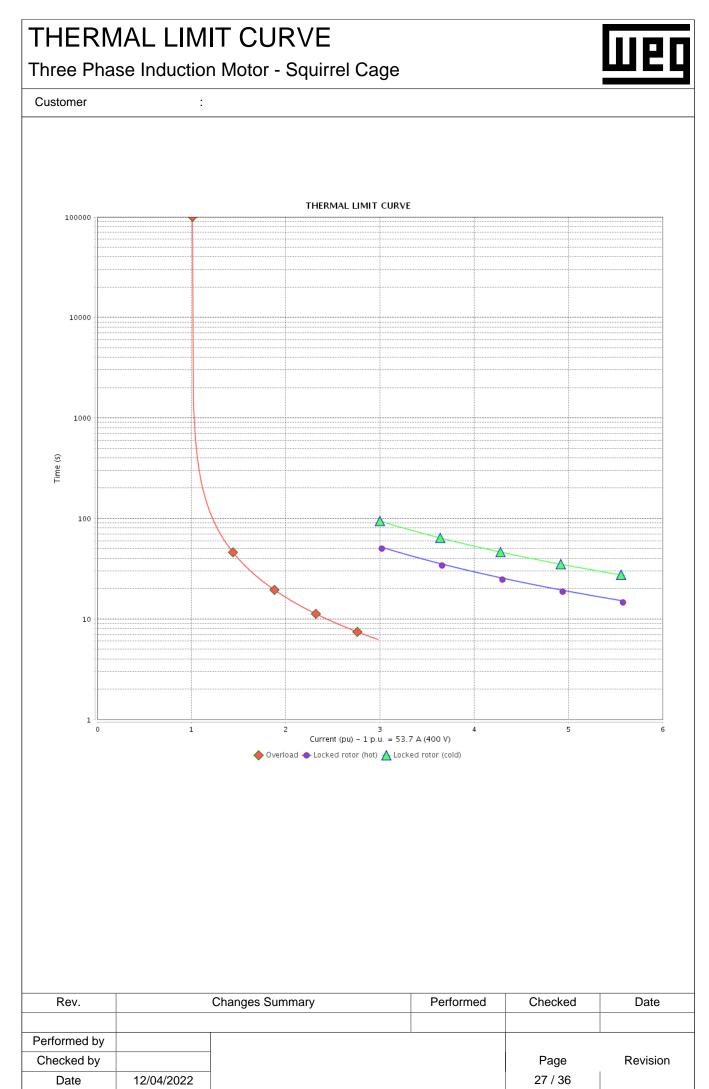
	. LIMIT CURVE		шер
Customer		age	
Product line	: NEMA Premium Efficiency Thre Phase	ee- Product code : Catalog # :	12618019 04036ST3QIE324TSC-W2
Performance Rated current	: 380 V 50 Hz 2P IE1 : 56.9 A Mc	oment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.0 Du	ty cycle	: Cont.(S1)

renormance						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 7' que : 18 ue : 20	6.9 A 0 1.7 ft.lb 30 % 00 % 930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 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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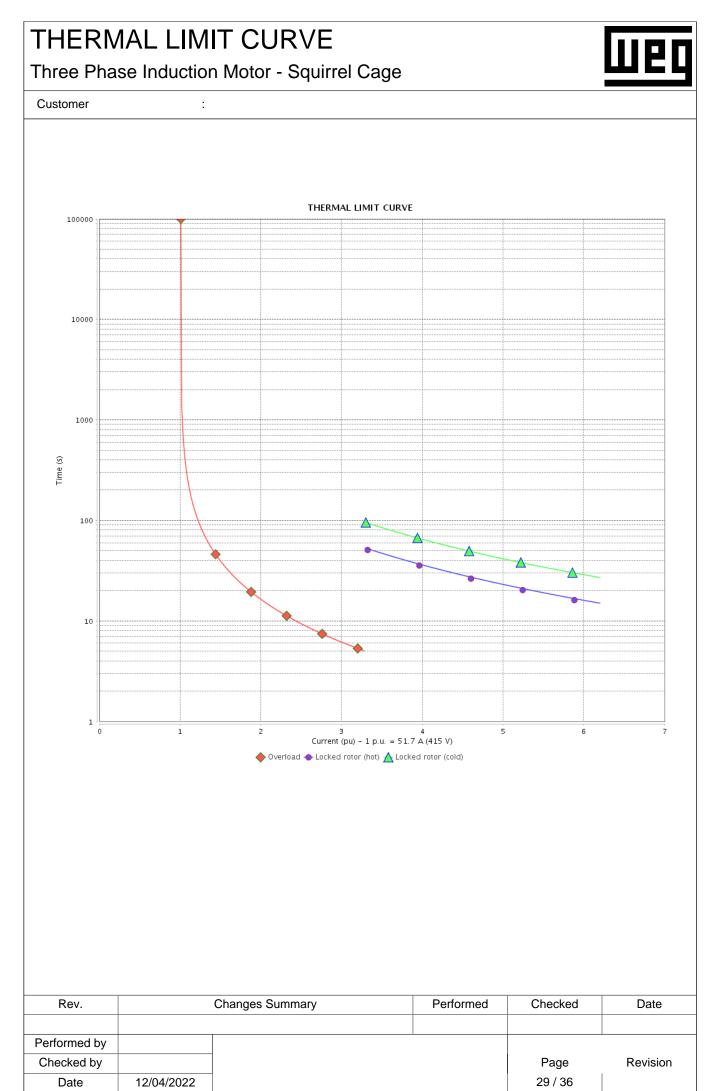
			
	IMIT CURVE	_	шео
Three Phase Indu	ction Motor - Squirrel (Cage	
Customer	:		
Product line	: NEMA Premium Efficiency T	hree- Product code :	12618019
	Phase	Catalog # :	04036ST3QIE324TSC-W2
	400 \/ 50 \ 05 \5 (
Performance Rated current	: 400 V 50 Hz 2P IE1 : 53.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb

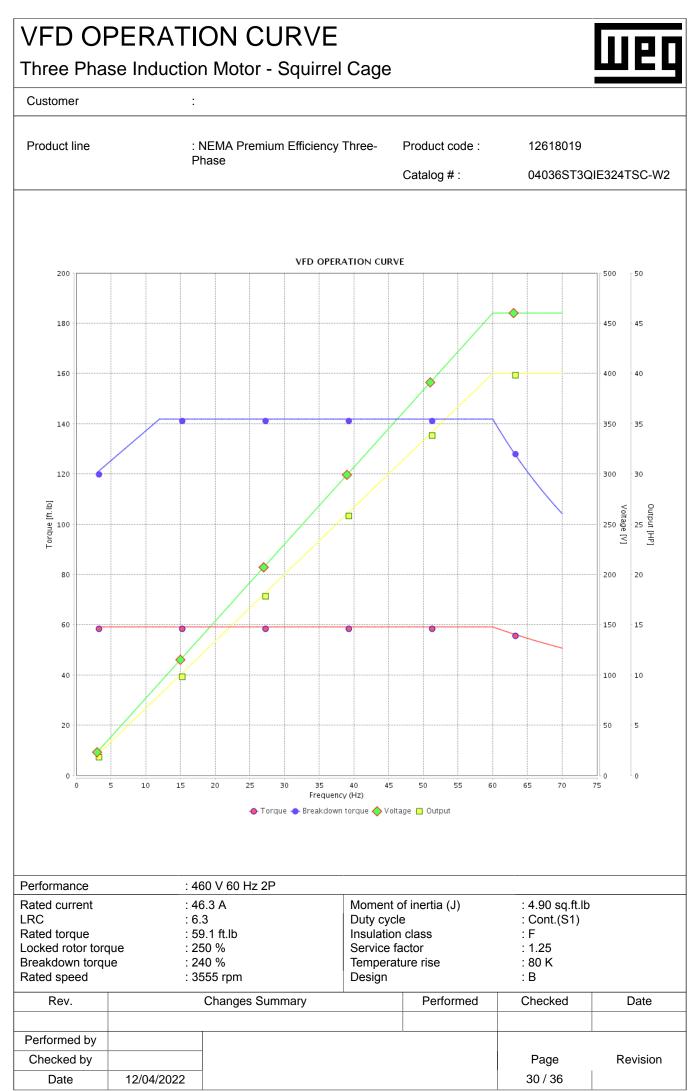
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 7 que : 2 Je : 2	3.7 A .6 1.4 ft.lb 00 % 10 % 940 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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Date	12/04/2022				26 / 36	

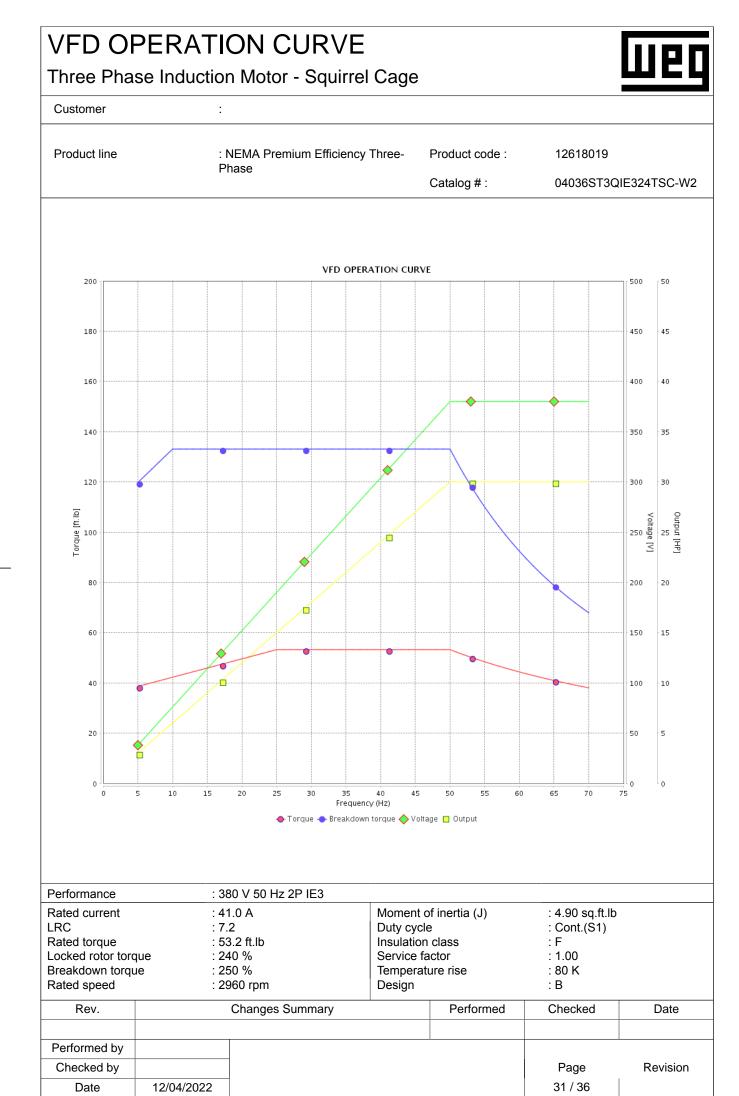


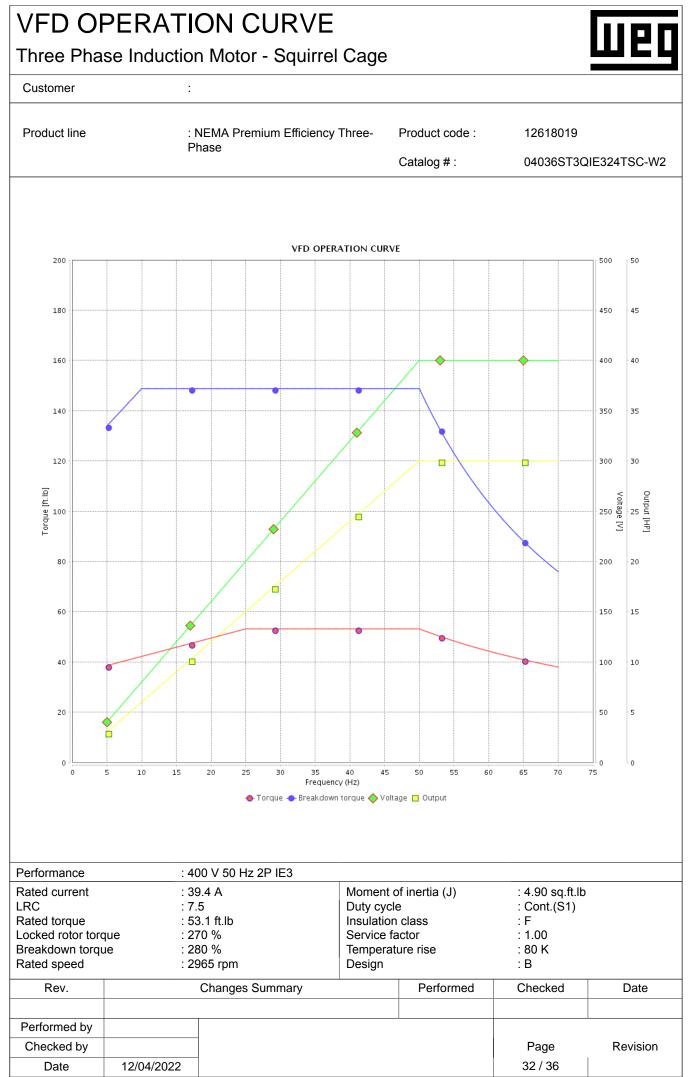
	LIMIT CURVE	age	Шер
Customer	:		
Product line	: NEMA Premium Efficiency Thr Phase	ee- Product code : Catalog # :	12618019 04036ST3QIE324TSC-W2
Performance	: 415 V 50 Hz 2P IE1		
Rated current LRC Rated torque	: 51.7 A M : 6.2 D	oment of inertia (J) uty cycle sulation class	: 4.90 sq.ft.lb : Cont.(S1) : F

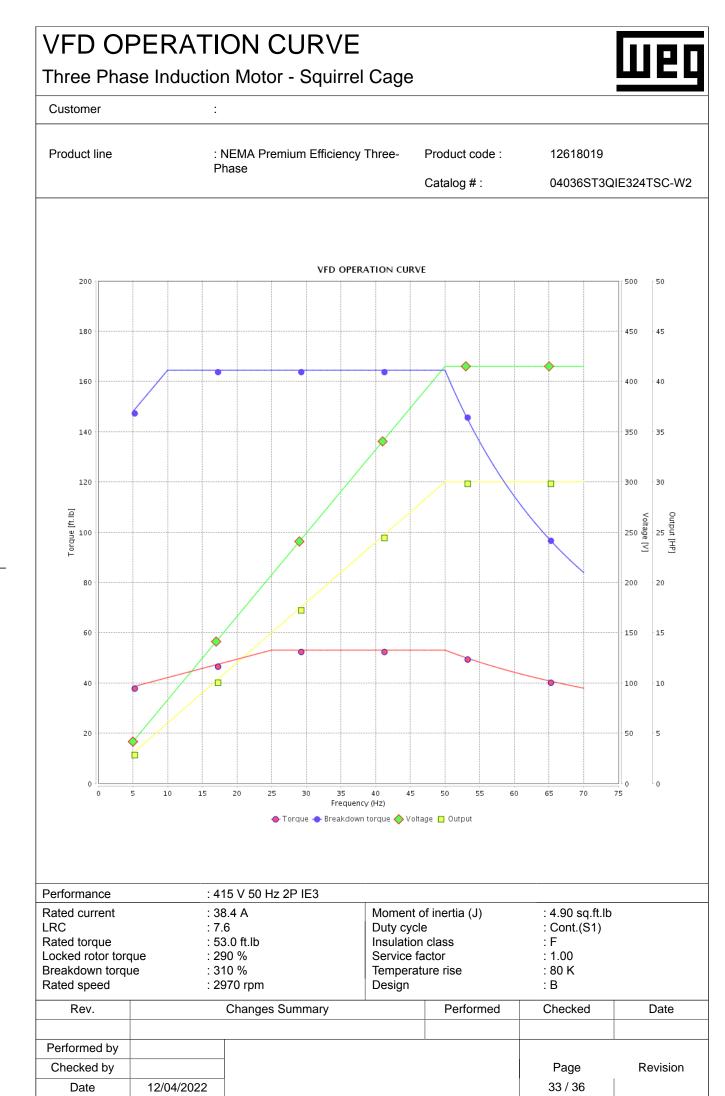
Rated corrent LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	iue : 22	2 1.2 ft.lb 20 % 29 % 950 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 Sq.1.10 : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
Date	12/04/2022	1			28 / 36	

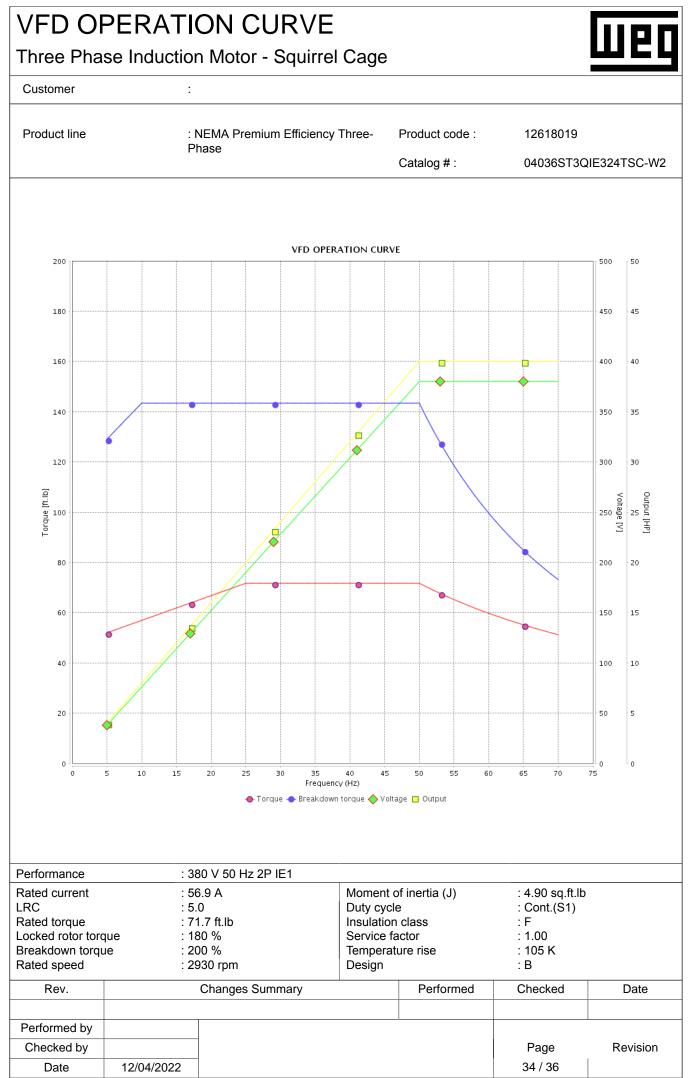


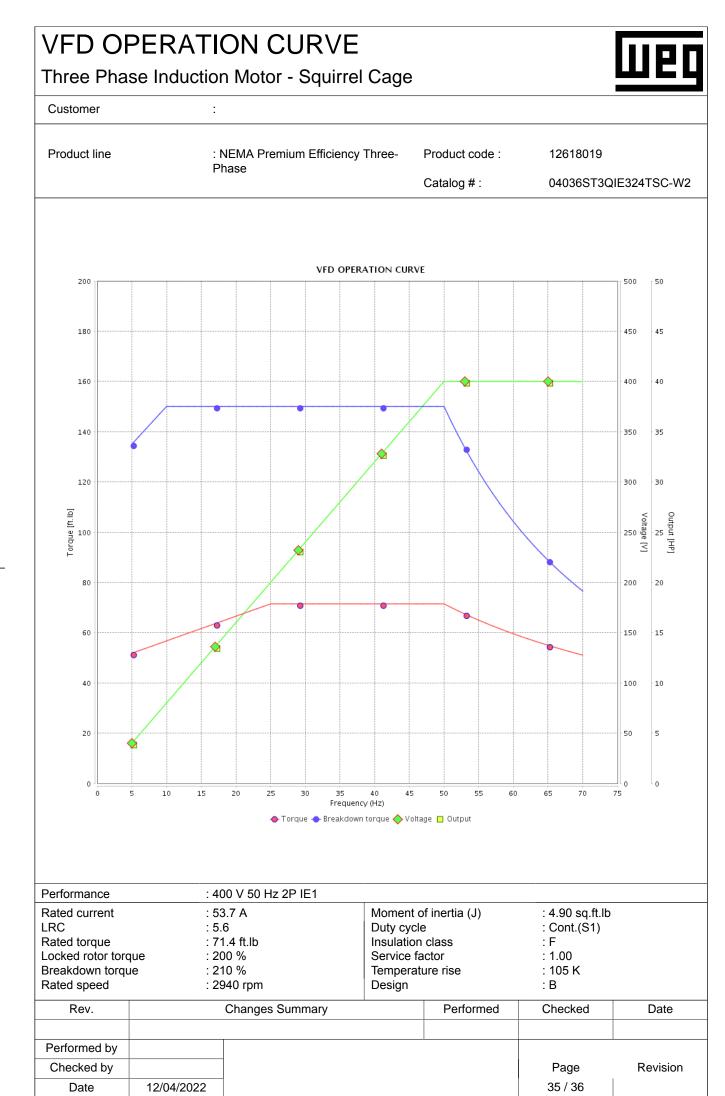


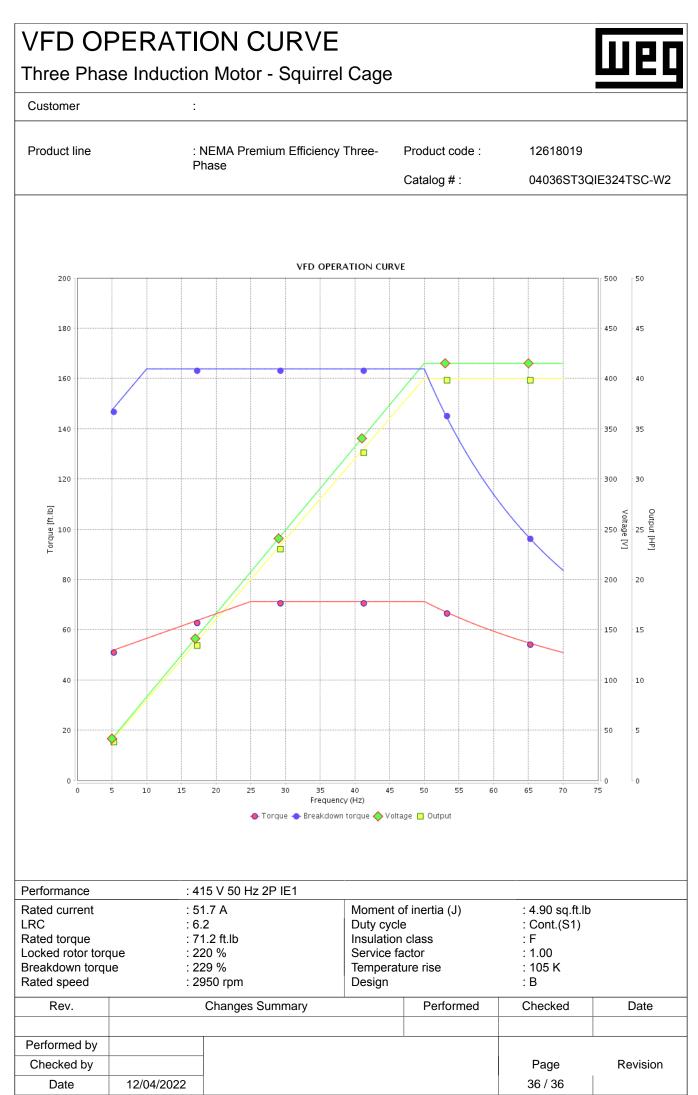


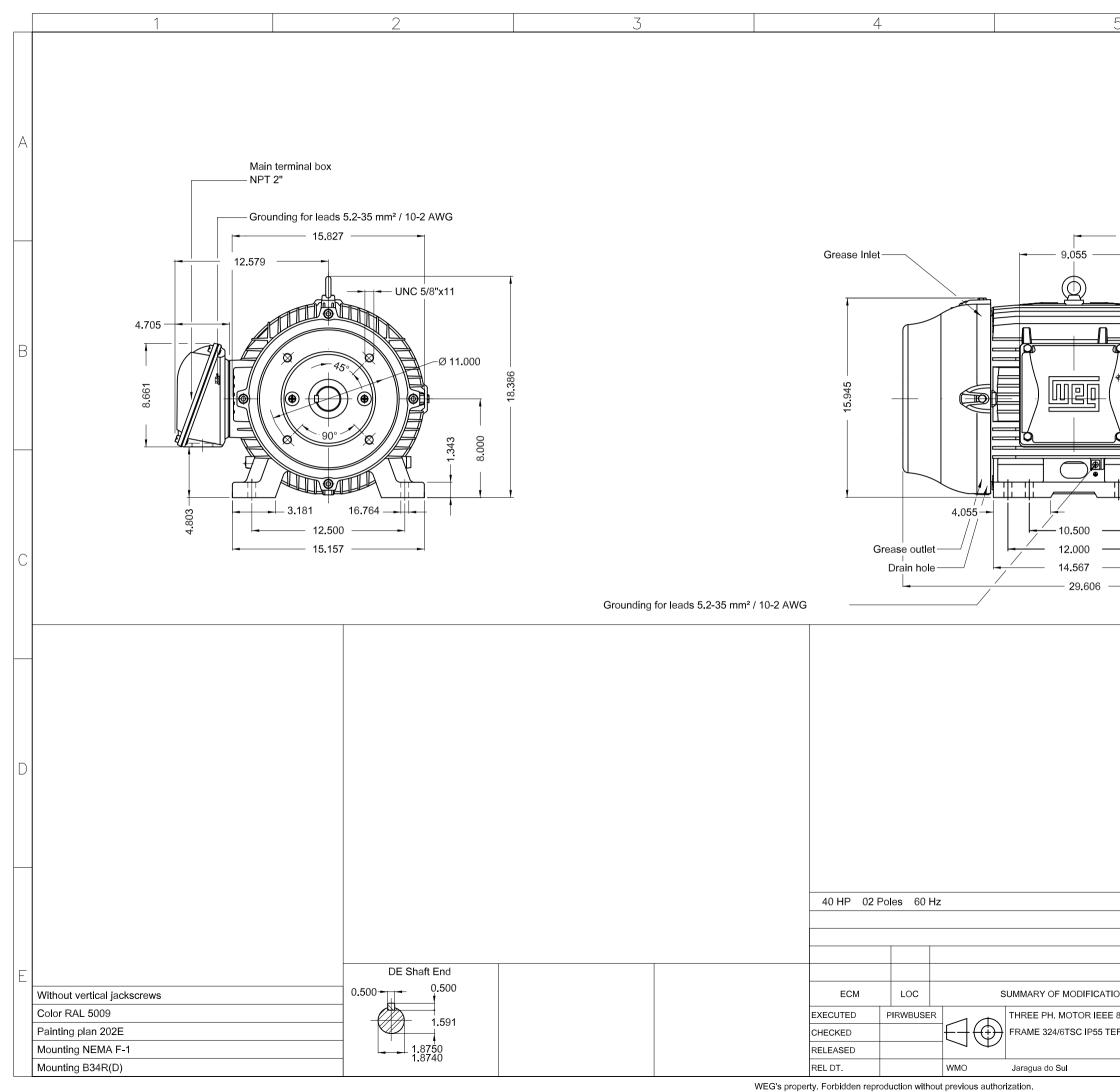












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