# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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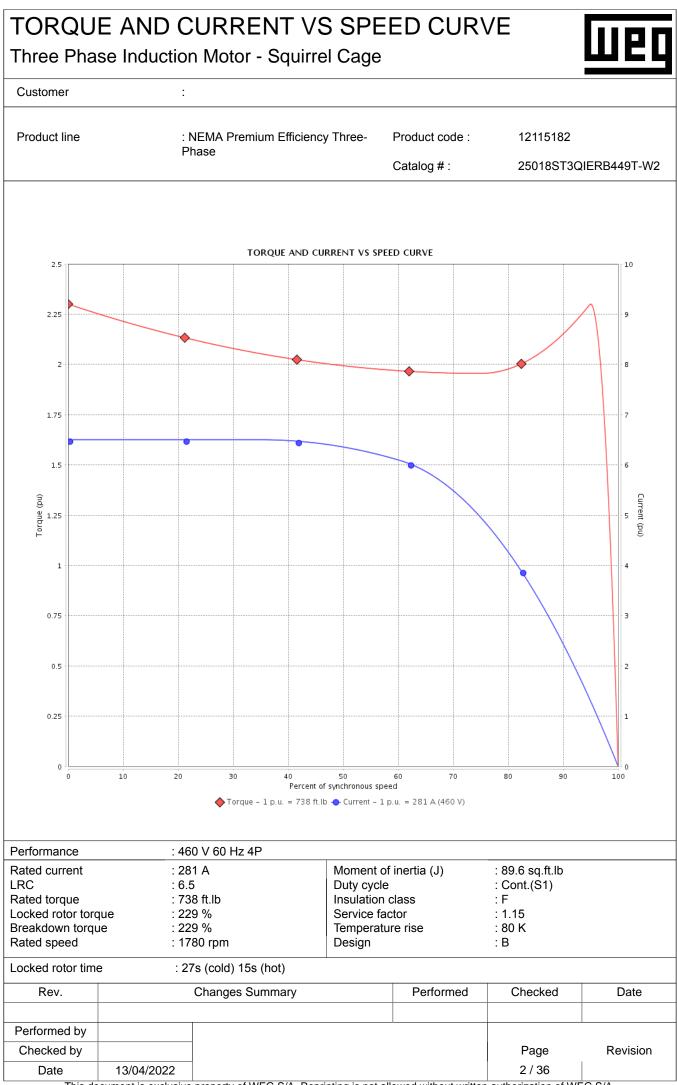
#### Customer

15s (hot) 20s (hot) 18s (hot) 16s (hot) 10s (hot) 10s (hot) 10s (hot)	Product line			emium Efficien	cy Three-	Product code	e: 12	115182	
Insulation class       : F       Mounting       : F-1       Cont (S1)         Ambient temperature       : 20°C to +40°C       Starting method       : Direct On Line         Altitude       1000 m.a.s.l.       Starting method       : Bioth (CW and CCW)         Design       : B       : B       Starting method       : Bioth (CW and CCW)         Starting method       : B       : B       : S9.6 sq.t.l.b       : S9.6 sq.t.l.b         Duput [HP]       260       200       200       250       250       250         Started oursent [A]       281       273       253       256       342       323       314         . R. Anperes [A]       1827       1665       1788       1894       1744       1841       1915         . RC [A]       6.5x(Code       6.1x(Code F)       6.8x(Code F)       6.8x(Code F)       6.8x(Code F)       6.8x(Code F)       1475       1475       1476       1480         . Red oursent [A]       185.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0       95.0       90.0			Phase			Catalog # :	25	018ST3QIER	B449T-W2
Poles         4         4         4         4         4         4         4         4         4         4         4         4         Firsquency [Hz]         60         50 <th< td=""><td>Insulation class Duty cycle Ambient tempera Altitude Protection degre</td><td></td><td>: F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55</td><td>40°C</td><td>Mounti Rotatio Startin Approx</td><td>ng on<sup>1</sup> g method k. weight<sup>3</sup></td><td>: F : E : C : 2</td><td>F-1 Both (CW and Direct On Line 2859 lb</td><td>,</td></th<>	Insulation class Duty cycle Ambient tempera Altitude Protection degre		: F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55	40°C	Mounti Rotatio Startin Approx	ng on <sup>1</sup> g method k. weight <sup>3</sup>	: F : E : C : 2	F-1 Both (CW and Direct On Line 2859 lb	,
Frequency [Hz]         60         50         50         50         50           Rated voltage [V]         460         380         400         415         380         400         415           Rated current [A]         281         273         263         326         342         323         314           L. R. Amperes [A]         1827         1665         1788         1894         1744         1841         1915           L.R. Amperes [A]         6.5x(Code [A]         6.8x(Code [A]         7.4x(Code H)\$5.1x(Code [Code [Code [A]         6.61x(Code [A]	-		250	200	200	200	250	250	250
Parted voltage [V]         460         380         400         415         380         400         415           Pated current [A]         281         273         263         256         342         323         314           .R. Amperes [A]         1827         1665         1788         1894         1744         1841         1915           .R. Amperes [A]         6.5x(Code F)         6.4x(Code F)         6.8x(Code F)         5.7x(Code F)         5	Poles		4	4	4	4	4	4	4
Atted current [A]         281         273         263         256         342         323         314          R. Amperes [A]         1827         1665         1788         1894         1744         1841         1915          R. Chaperes [A]         6.5x(Code         6.1x(Code         7.4x(Code H)5.1x(Code E)5.7x(Code F)6.1x(Code         1.15         1.167         1.861         1915          R. Stated speed [RPM]         1780         1480         1485         1485         1475         1475         1480          R. dip [%]         1.11         1.33         1.00         1.00         1.67         1.67         1.33          R. dip [%]         2.29         2.00         2.60         2.90         1.80         2.00         2.20          Reakown torque [%]         2.29         2.29         2.60         2.90         1.00         1.00         1.00          coked rotor torque [%]         2.29         2.29         2.60         2.90         1.05 K         1									
Image and the set of	• • •								
RC [A]         6.5x(Code         6.1x(Code         7.4x(Code H)         7.4x(Code H)         5.7x(Code F)         6.1x(Code F)           No load current [A]         85.0         90.0         95.0         85.0         90.0         95.0           Stated speed [RPM]         1780         1440         14485         14475         1475         1480           Stated speed [RPM]         1780         1440         1485         14475         1475         1480           Stated speed [RPM]         1780         1480         1485         1487         1475         1480           Stated speed [RPM]         1780         1480         1485         1485         1477         1475         1480           Stated torque [%]         229         200         260         290         180         200         220           State speed [RPM]         115         1.15         1.15         1.05         100         100         100         100         100         100         100         148         60K         80K         105K         105K         105K         105K         105K									
No load current [A]         85.0         95.0         95.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         90.0         95.0         1475         1475         1480           Stated torque [ft.l]         738         710         707         707         890         890         887           cocked rot torque [%]         229         220         260         290         210         210         229           Service factor         1.15         1.15         1.16         1.16         1.00         1.00         1.00           Emperature rise         80 K         80 K         80 K         80 K         105 K			6.5x(Code		6.8x(Code				
Sated speed [RPM]         1780         1480         1485         1485         1475         1475         1485           Sated speed [RPM]         1.11         1.33         1.00         1.00         1.67         1.67         1.33           Sated torque [K1b]         738         710         707         707         890         890         887           Sated torque [%]         229         229         260         290         180         200         229           Service factor         1.15         1.15         1.15         1.00         1.00         1.00           Genderature rise         80 K         80 K         80 K         80 K         80 K         185 (cold)         105 (cold)         105 (cold)         105 (cold)         105 (cold)	No. lood ourmont [A	1		05.0		05.0	05.0	00.0	05.0
Sip [%]       1.11       1.33       1.00       1.00       1.67       1.67       1.63         Rated forque [%]       238       710       707       707       890       890       887         Locked rotor torque [%]       229       220       260       290       210       210       220         Breakdown torque [%]       229       229       260       290       210       100       1.05         Bervice factor       1.15       1.15       1.15       1.15       1.05       1.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Rated forque [ft,lb]         738         710         707         707         890         890         887           Locked rotor forque [%]         229         220         260         290         210         210         220           Service factor         1.15         1.15         1.15         1.15         1.15         1.00         1.00         1.00           Temperature rise         80 K         80 K         80 K         105 K         <	· ·	<b>''</b> ]							
Ocked rotor forque [%]         229         200         260         290         180         200         220           Breakdown torque [%]         229         229         260         290         110         210         229           Service factor         1.15         1.15         1.15         1.15         1.05         1.05         100         1.00 <t< td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		1							
Breakdown torque [%]         229         229         260         290         210         210         229           Bervice factor         1.15         1.15         1.15         1.15         1.15         1.00         1.00         1.00           Emperature rise         80 K         80 K         80 K         80 K         105 Kot         105 kot <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Service factor         1.15         1.15         1.15         1.15         1.15         1.00								1	
Temperature rise         80 K         80 K         80 K         80 K         80 K         105 K         106 K         105 K         105 K         105 K         105 K         105 K         105 K         106 K		[,,]							
Locked rotor time         27s (cold)         36s (cold)         32s (cold)         28s (cold)         18s (cold) <th1< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th1<>									
Noise level <sup>2</sup> 75.0 dB(Å)         71.0 dB(Å)         95.6<			27s (cold)	36s (cold)	32s (cold)	28s (cold)	18s (cold)	18s (cold)	18s (cold)
Efficiency (%)         25%         95.7         94.8         95.0         95.0         93.9         94.8         95.6           50%         95.8         95.0         95.1         95.1         94.1         94.9         95.4           75%         96.2         95.8         95.8         95.8         94.5         95.0         95.4           Power Factor         25%         0.51         0.52         0.49         0.46         0.58         0.54         0.51           Tow         0.75         0.77         0.74         0.72         0.80         0.77         0.75           75%         0.83         0.84         0.83         0.84         0.83         0.84         0.83           Bearing type         :         NU-322 C3         6319 C3         Max. traction         : 4009 lb           Max. traction         :         4000 h         8000 h         Max. compression         : 6868 lb           Lubricant mount         :         60 g         45 g         Max. traction         : 6868 lb           Lubricant type         :         Mobil Polytex EM         Moser supply, subject to the tolerances stipulated in NEMA           (1) Looking the motor from the shaft end.         (2) Apaproximate weight subje	Noise level <sup>2</sup>			. ,	. ,		. ,	. ,	71.0 dB(A
Efficiency (%)         75%         96.2         95.8         95.8         95.8         94.5         95.0         95.8           Power Factor         25%         0.51         0.52         0.49         0.46         0.58         0.54         0.51           Power Factor         25%         0.71         0.72         0.74         0.72         0.80         0.77         0.75           75%         0.83         0.84         0.83         0.81         0.86         0.87         0.87         0.86           Bearing type         :         NU-322 C3         6319 C3         Max. traction         : 4009 lb         Max. compression         : 6868 lb           Lubricant amount         :         60 g         45 g         Max. compression         : 6868 lb           Notes         Mobil Polyrex EM         Mobil Polyrex EM         Max. compression         : 6868 lb           Notes         .         Mobil Polyrex EM         MG-1.         .         .           (3) Approximate weight subject to changes after manufacturing process.         .         .         .         .           (4) At 100% of full load.         .         .         .         .         .         .		25%					,		
100%         96.2         95.8         95.8         95.8         94.5         95.0         95.4         95.8         95.8         94.5         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         95.0         95.4         0.51         0.51         0.52         0.49         0.46         0.58         0.54         0.51           Power Factor         50%         0.75         0.77         0.74         0.72         0.80         0.77         0.75           75%         0.83         0.84         0.83         0.81         0.86         0.87         0.87         0.86           Bearing type         :         NU-322 C3         6319 C3         Saling         Max. traction         : 4009 lb         Max. compression         : 6868 lb           Lubricant amount         :         60 g         45 g         Max. compression         : 6868 lb         Max. compression         : 6868 lb           Notes         .         Mobil Polyrex EM         Mosil Polyrex EM         MG-1.         MG-1.           (1) Looking the motor from the shaft end.         .	$\mathbf{F}$	50%	95.8	95.0	95.1	95.1	94.1	94.9	95.4
Power Factor         25%         0.51         0.52         0.49         0.46         0.58         0.54         0.51           50%         0.75         0.77         0.74         0.72         0.80         0.77         0.75           75%         0.83         0.84         0.83         0.81         0.86         0.84         0.83           100%         0.86         0.87         0.86         0.85         0.87         0.86           Bearing type         :         NU-322 C3         6319 C3         Max. traction         : 4009 lb           Sealing         :         Inpro/Seal         Inpro/Seal         Max. compression         : 6868 lb           Lubricant amount         :         60 g         45 g         Max. compression         : 6868 lb           Notes         :         Mobil Polyrex EM         Max. compression         : 6868 lb         Max. compression           Notes         :         Mobil Polyrex EM         Max. compression         : 6868 lb         MG-1.	Efficiency (%)				95.8	95.8	94.5	95.0	95.8
Power Factor         50%         0.75         0.77         0.74         0.72         0.80         0.77         0.75           75%         0.83         0.84         0.83         0.81         0.86         0.84         0.83           100%         0.86         0.87         0.86         0.85         0.87         0.87         0.86           Bearing type         :         NU-322 C3         6319 C3         Max. traction         : 4009 lb         Max. traction         : 4009 lb           Sealing         :         Inpro/Seal         Inpro/Seal         Max. traction         : 6868 lb            Lubrication interval         :         60 g         45 g          Max. compression         : 6868 lb           Notes         Mobil Polyrex EM         Notes         Mobil Polyrex EM         Max. traction         : 4009 lb         Max.traction         : 6808 lb          Max.traction         : 6808 lb		100%	96.2	95.8	95.8	95.8	94.5	95.0	95.4
Power Factor       75%       0.83       0.84       0.83       0.81       0.86       0.84       0.83         100%       0.86       0.87       0.86       0.85       0.87       0.87       0.86         Bearing type       :       NU-322 C3       6319 C3       Gaudation loads       Max. traction       : 4009 lb         Sealing       :       Inpro/Seal       Inpro/Seal       Max. compression       : 6868 lb         Lubrication interval       :       60 g       45 g       Max. compression       : 6868 lb         Lubrication type       :       Mobil Polyrex EM       Max. compression       : 6868 lb       .         Notes       :       Mobil Polyrex EM       Max. compression       : 6868 lb       .         Notes       :       :       Mobil Polyrex EM       Max. compression       : 6868 lb         Notes       :       :       :       :       :       :       :         (1) Looking the motor from the shaft end.       :       :       :       :       :       :       :       :         (2) Measured at 1m and with tolerance of +3dB(A).       :       :       :       :       :       :       :       :       :       :			0.51	0.52	0.49	0.46	0.58	0.54	0.51
75%       0.83       0.84       0.83       0.81       0.86       0.84       0.83         100%       0.86       0.87       0.86       0.85       0.87       0.86       0.87       0.86         Bearing type       :       NU-322 C3       6319 C3       Max. traction       : 4009 lb       Max. traction       : 4009 lb         Sealing       :       Inpro/Seal       Inpro/Seal       Inpro/Seal       Max. compression       : 6868 lb         Lubrication interval       :       60 g       45 g       Max. compression       : 6868 lb         Notes       Mobil Polyrex EM       Mosti Polyrex EM       Max. compression       : 6868 lb         Notes       .       Mobil Polyrex EM       Max. compression       : 6868 lb         Notes       .       .       Max. compression       : 6868 lb         Notes       .       .       .       .       .         Mosti be eliminated.       .       .       .       .       .       .         (1) Looking the motor from the shaft end.       .       .       .       .       .       .         (2) Measured at 1m and with tolerance of +3dB(A).       .       .       .       .       .       .	Power Factor			-	-	-			
Drive end       Non drive end       Foundation loads         Bearing type       :       NU-322 C3       6319 C3         Sealing       :       Inpro/Seal       Inpro/Seal         Lubrication interval       :       4000 h       8000 h         Lubricant amount       :       60 g       45 g         Lubricant type       :       Mobil Polyrex EM         Notes       Mobil Polyrex EM         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 after manufacturing process.       (4) At 100% of full load.         Rev.       Changes Summary       Performed       Checked       Date         Performed by	1 Ower 1 detor								
Bearing type       :       NU-322 C3       6319 C3       Max. traction       : 4009 lb         Sealing       :       Inpro/Seal       Inpro/Seal       Max. compression       : 6868 lb         Lubrication interval       :       60 g       45 g       Max. compression       : 6868 lb         Lubricant amount       :       60 g       45 g       Max. compression       : 6868 lb         Notes       :       Mobil Polyrex EM       Notes		100%	0.86	0.87	0.86	0.85	0.87	0.87	0.86
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 (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.       Performed       Changes Summary         Performed by       Image: Changes Summary       Performed       Checked       Date	Sealing Lubrication interv Lubricant amoun Lubricant type		: NU-322 0 : Inpro/Se : 4000 h : 60 g	C3 6319 0 al Inpro/S 8000 45 g	C3   Max. tra eal   Max. co h	action			
Performed by	This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. otor from the m and with t veight subjec ocess.	e shaft end. olerance of +3	3dB(A).	power s				
			Changes	Summary		Performe	ed Che	ecked	Date
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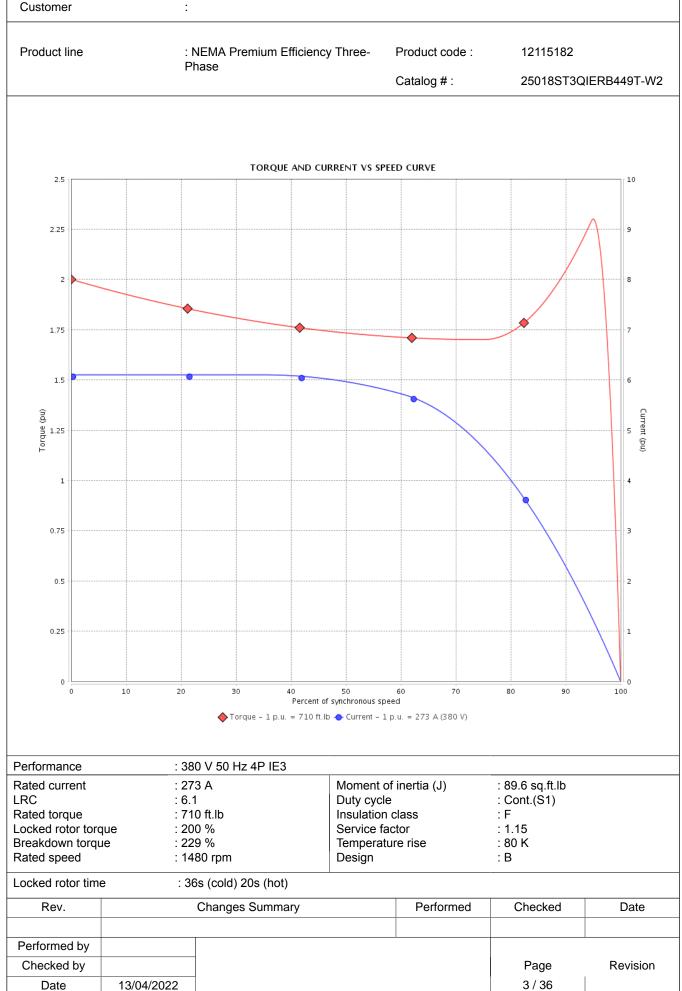
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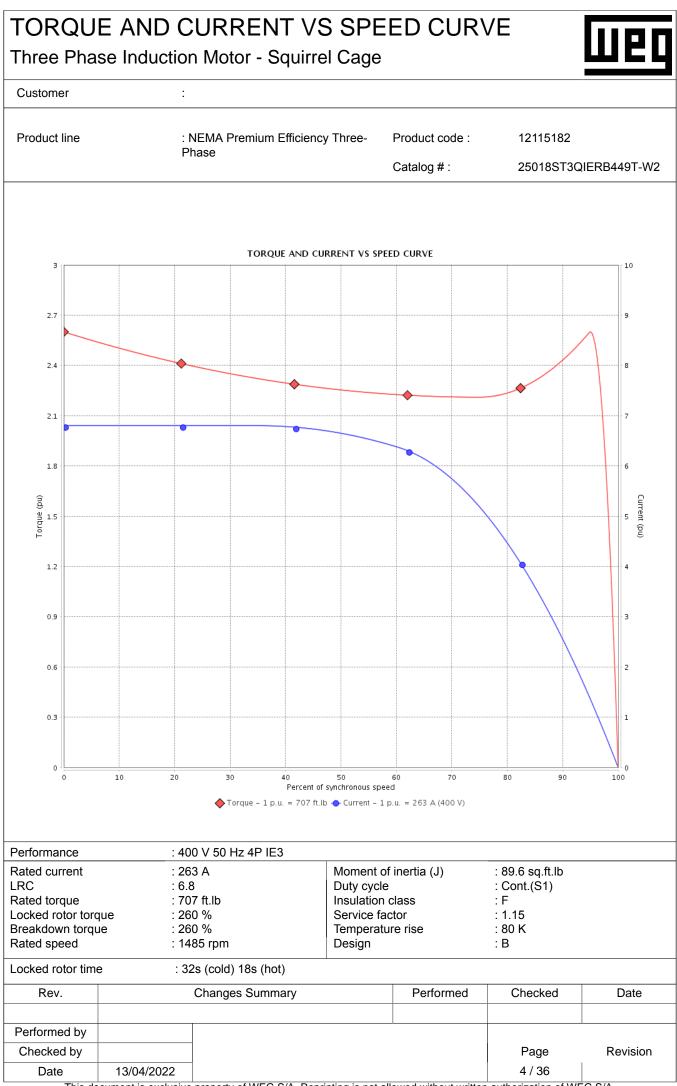
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



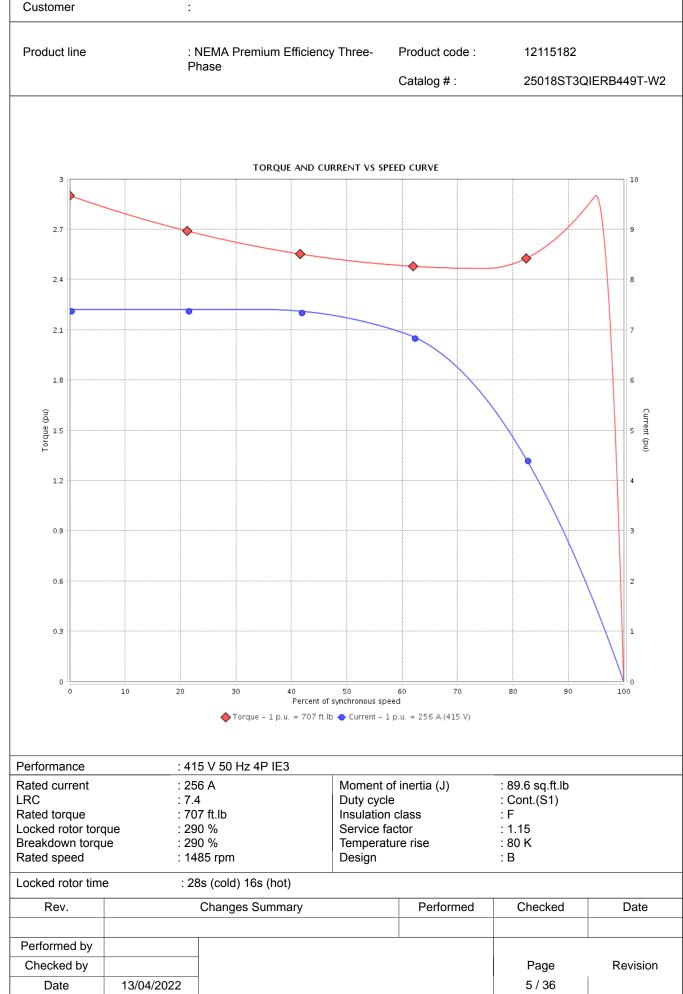
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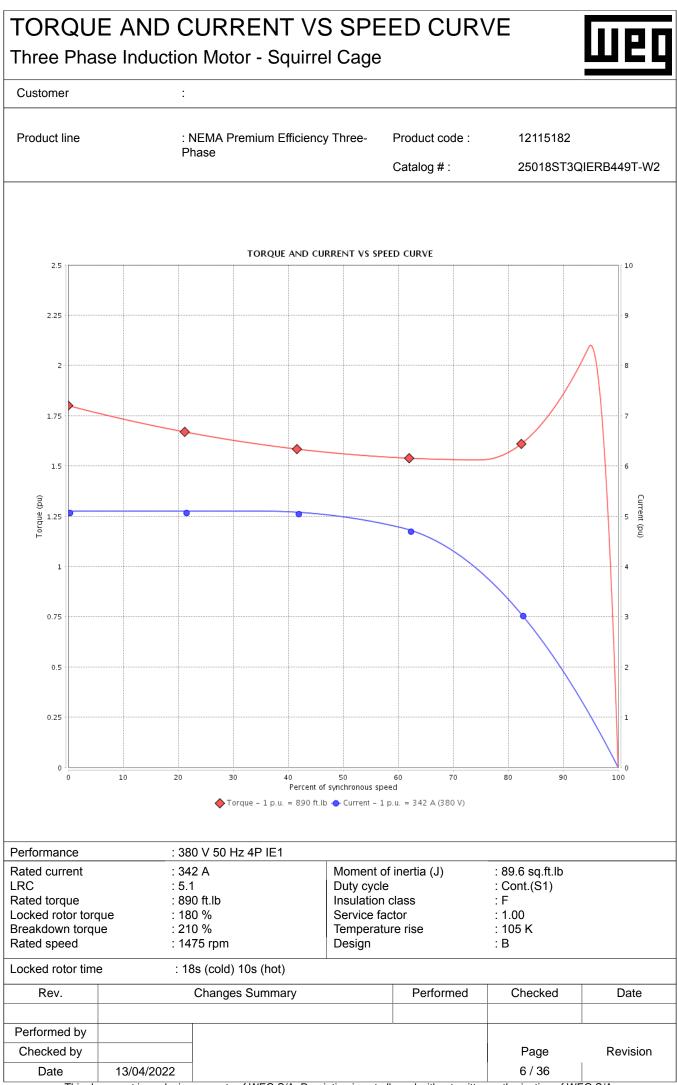
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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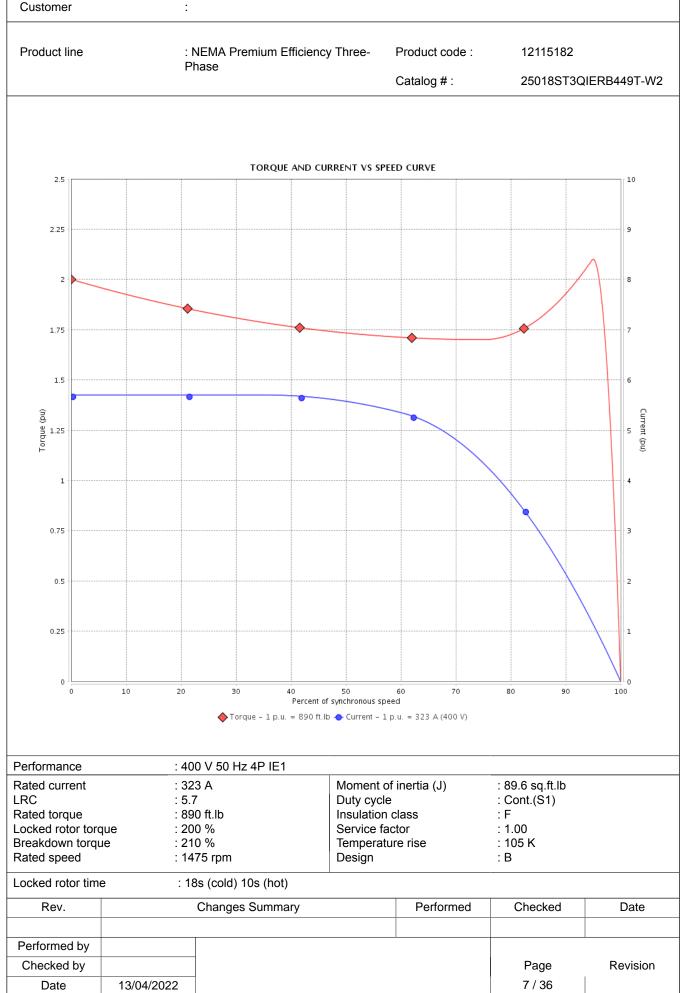
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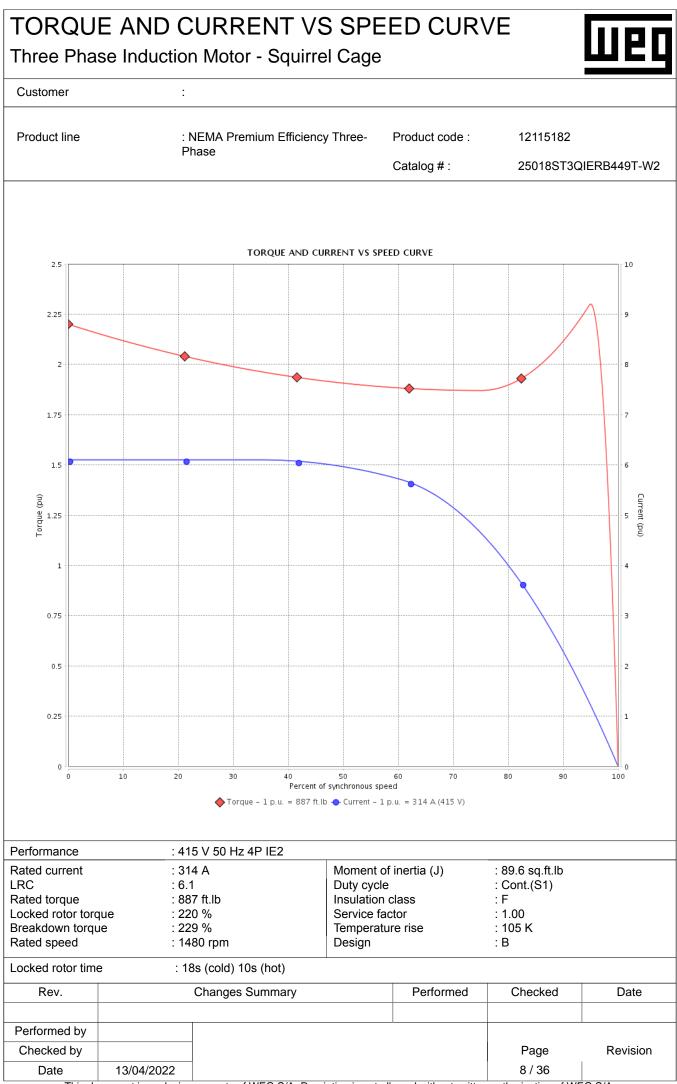
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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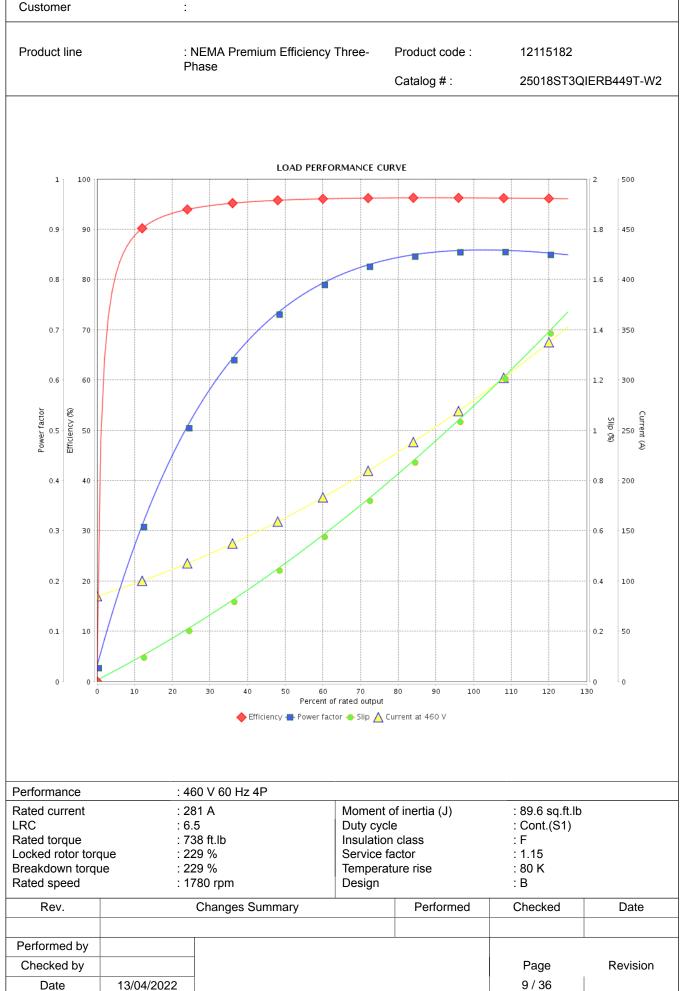


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Three Phase Induction Motor - Squirrel Cage

### Customer



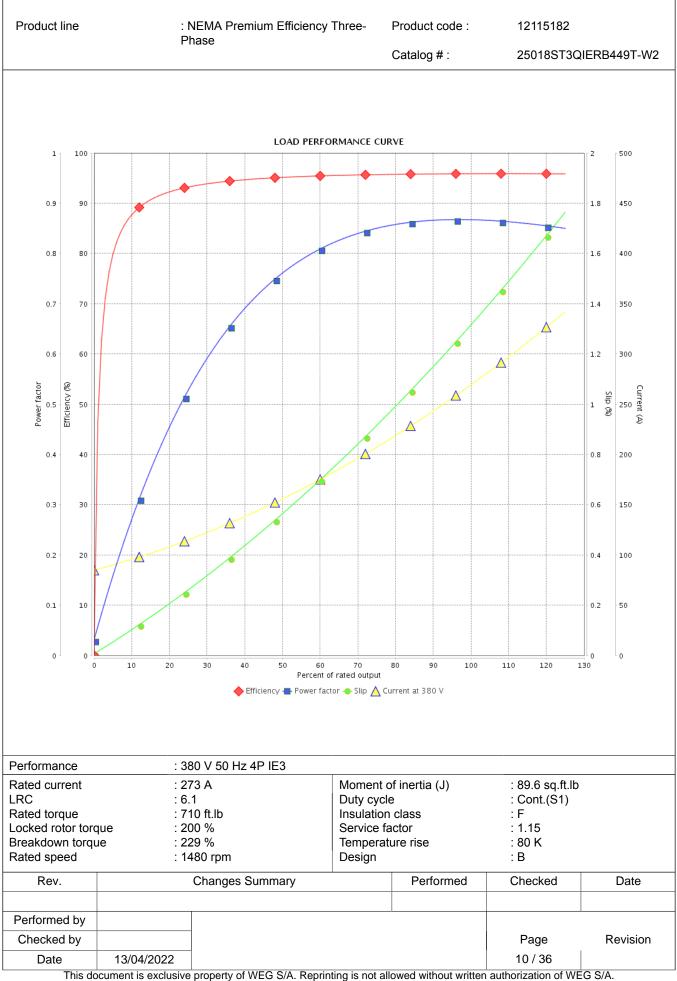
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Three Phase Induction Motor - Squirrel Cage

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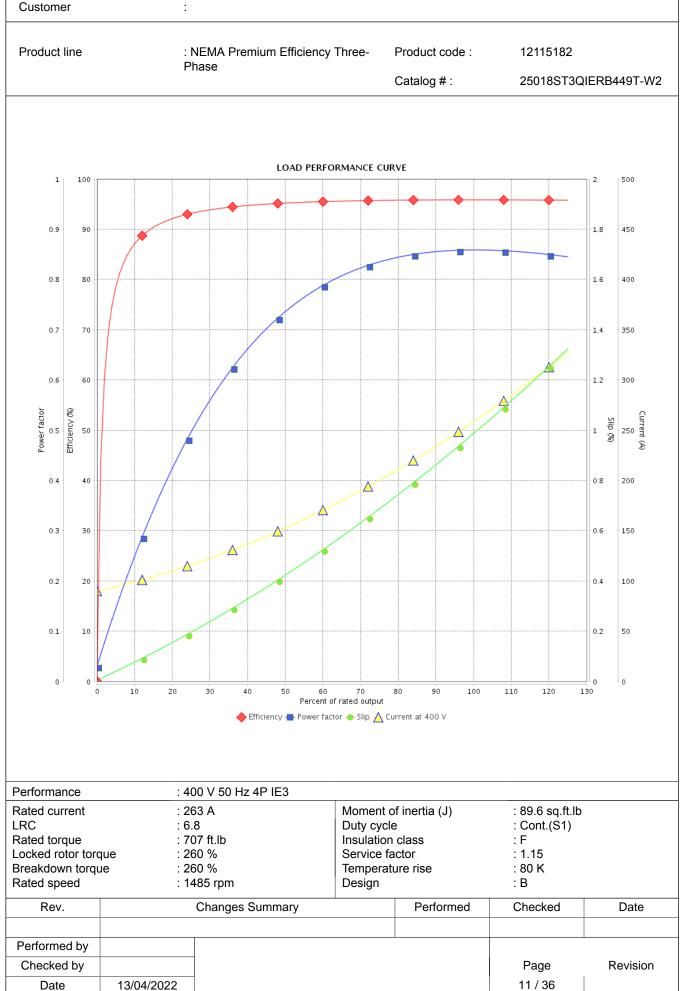


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Three Phase Induction Motor - Squirrel Cage

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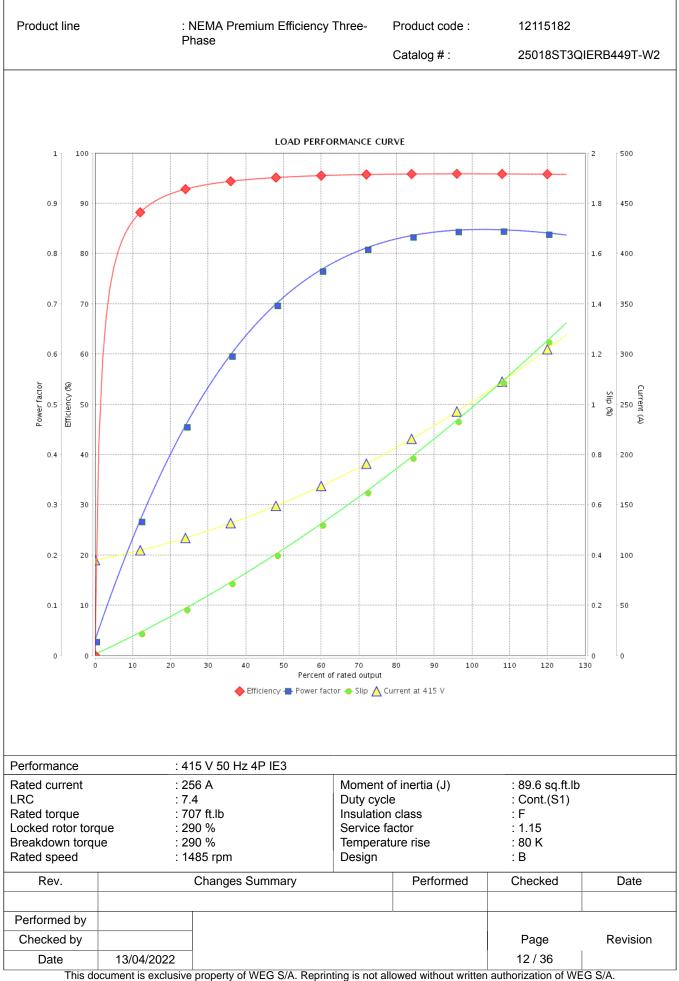
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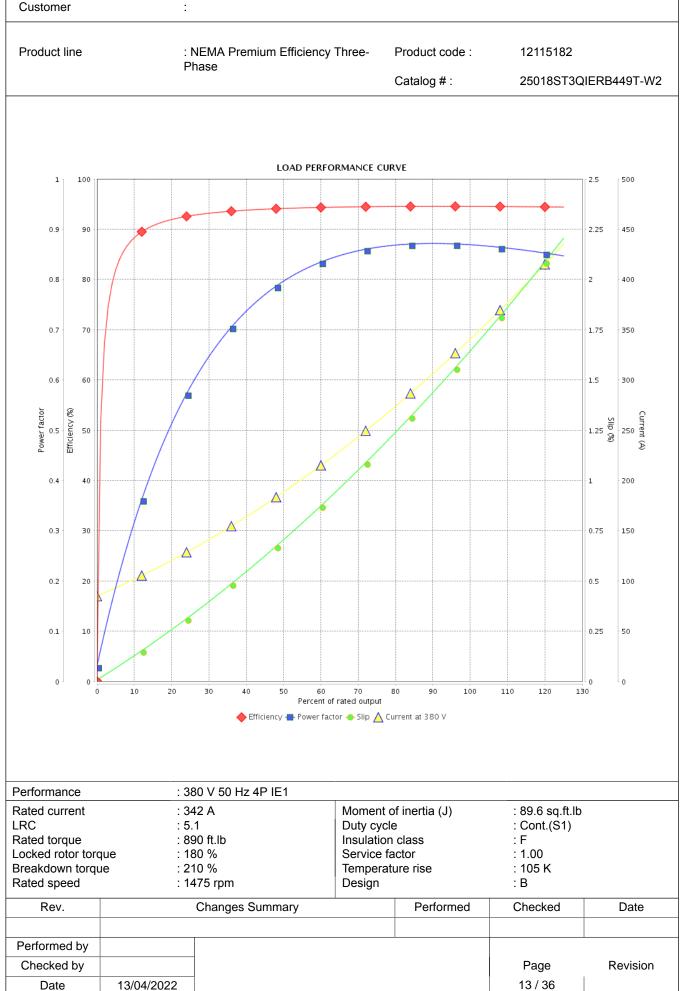


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Three Phase Induction Motor - Squirrel Cage

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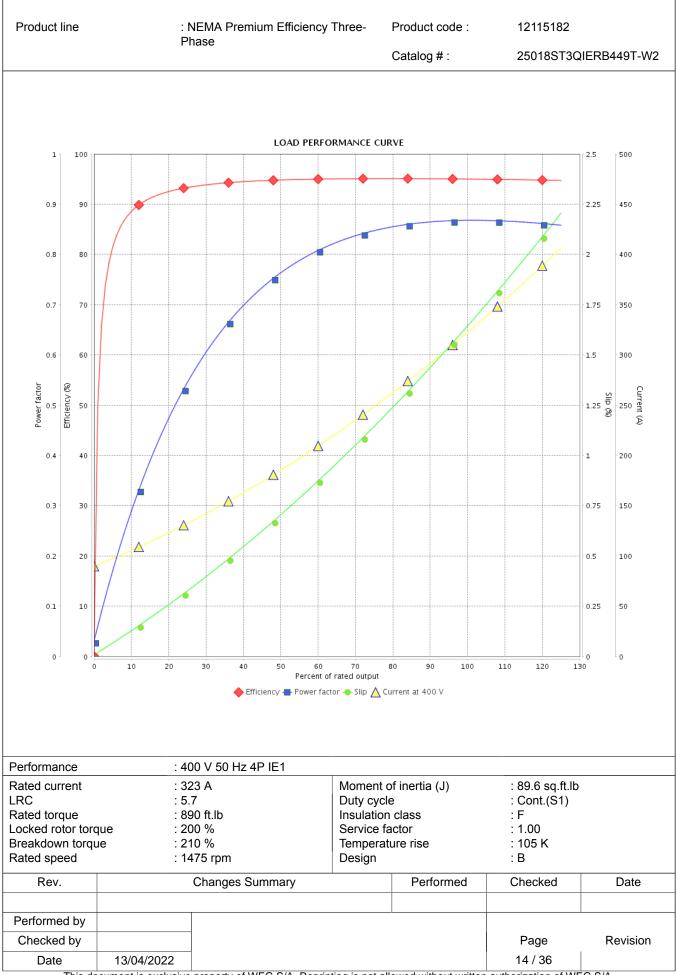
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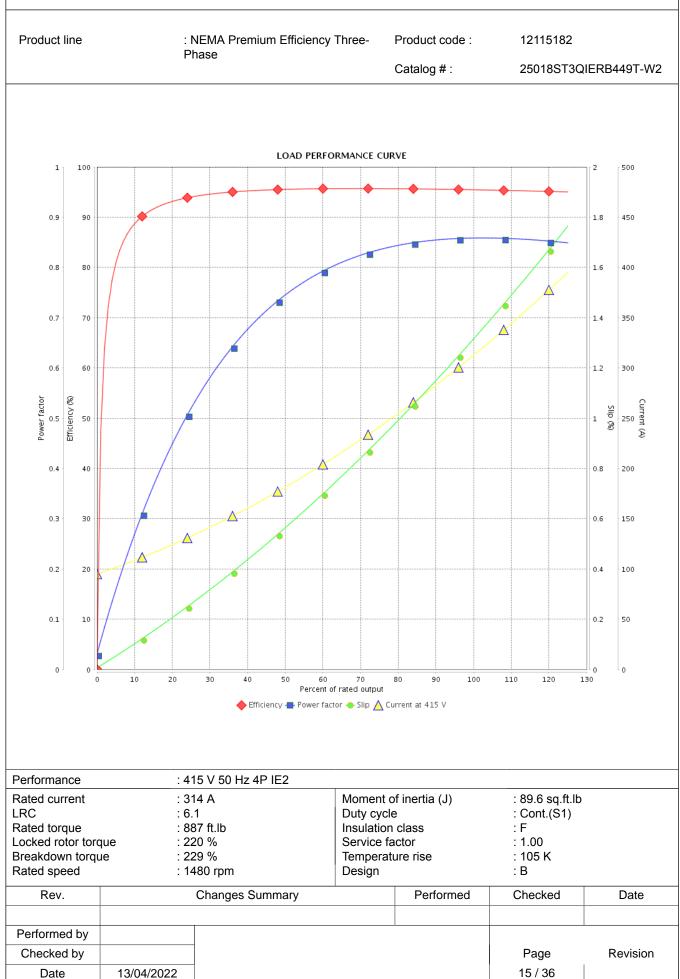
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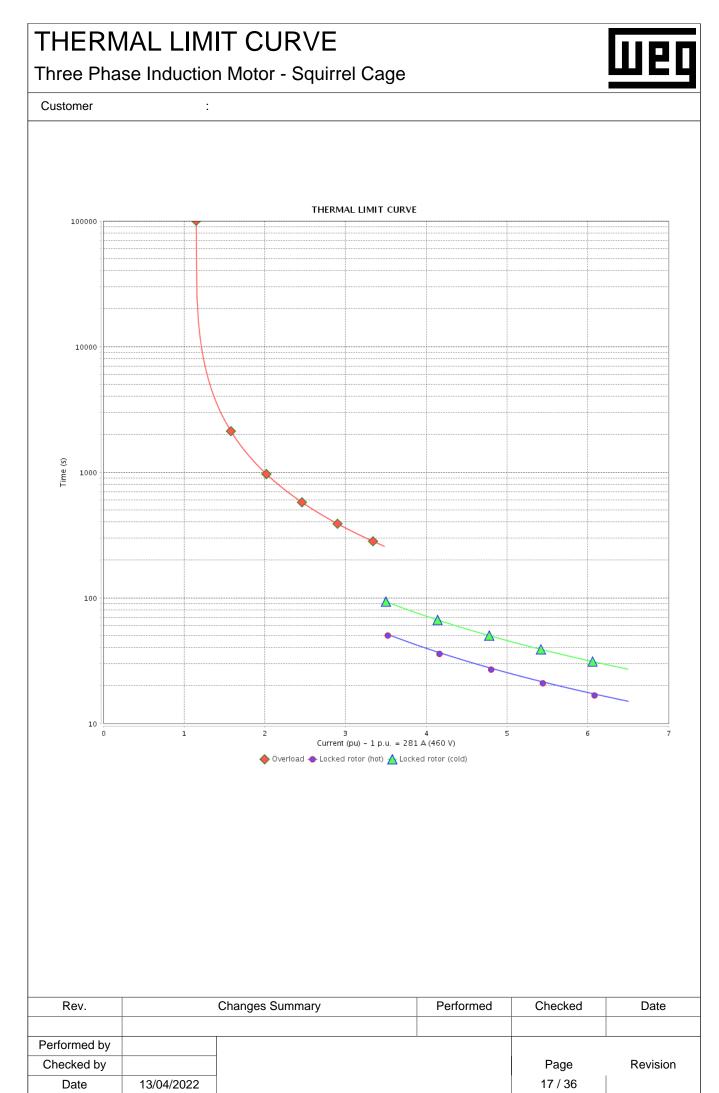
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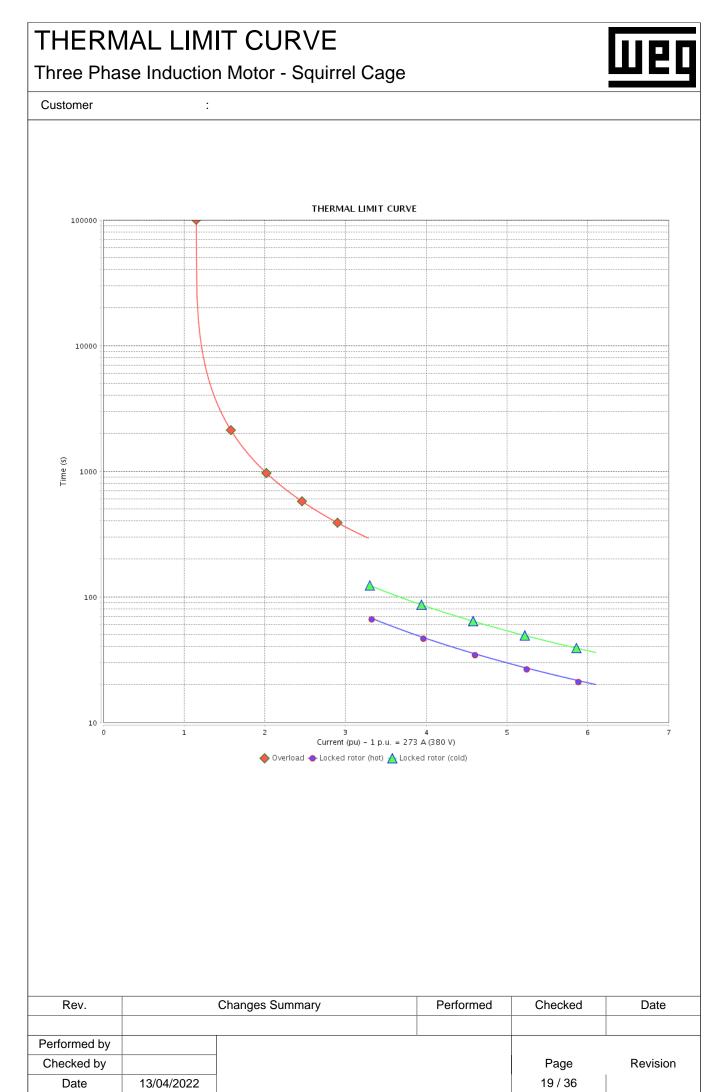
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12115182 25018ST3QIERB449T-W2

Performance	: 4	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	2 que 2	81 A .5 38 ft.lb 29 % 29 % 780 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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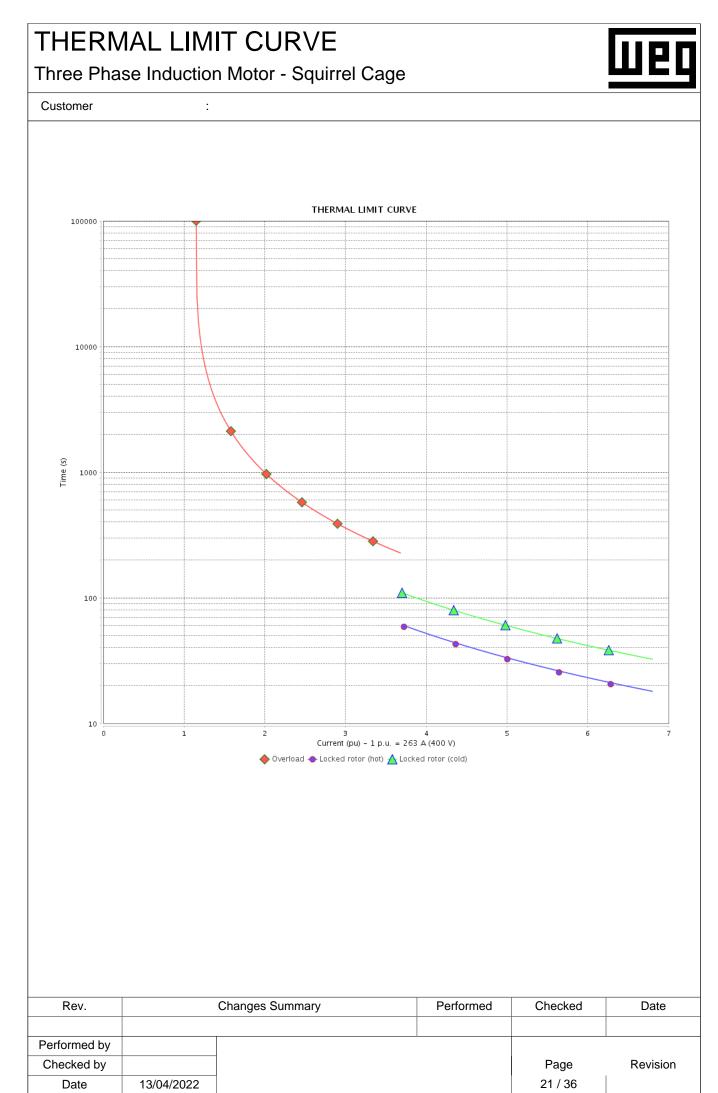
THERMAL LIMIT CURVE						
	duction Motor - Squirrel C	Cage				
Customer	:					
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code :	12115182			
	1 11430	Catalog # :	25018ST3QIERB449T-W2			
	0001/5011 (5.150					
Performance Rated current	: 380 V 50 Hz 4P IE3 : 273 A	Moment of inertia (J)	: 89.6 sq.ft.lb			
LRC	: 6.1	Duty cycle	: Cont.(S1)			

1 chomanee	. 00					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 7 <sup>-</sup> que : 20 ue : 22	73 A 1 10 ft.lb 00 % 29 % 480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 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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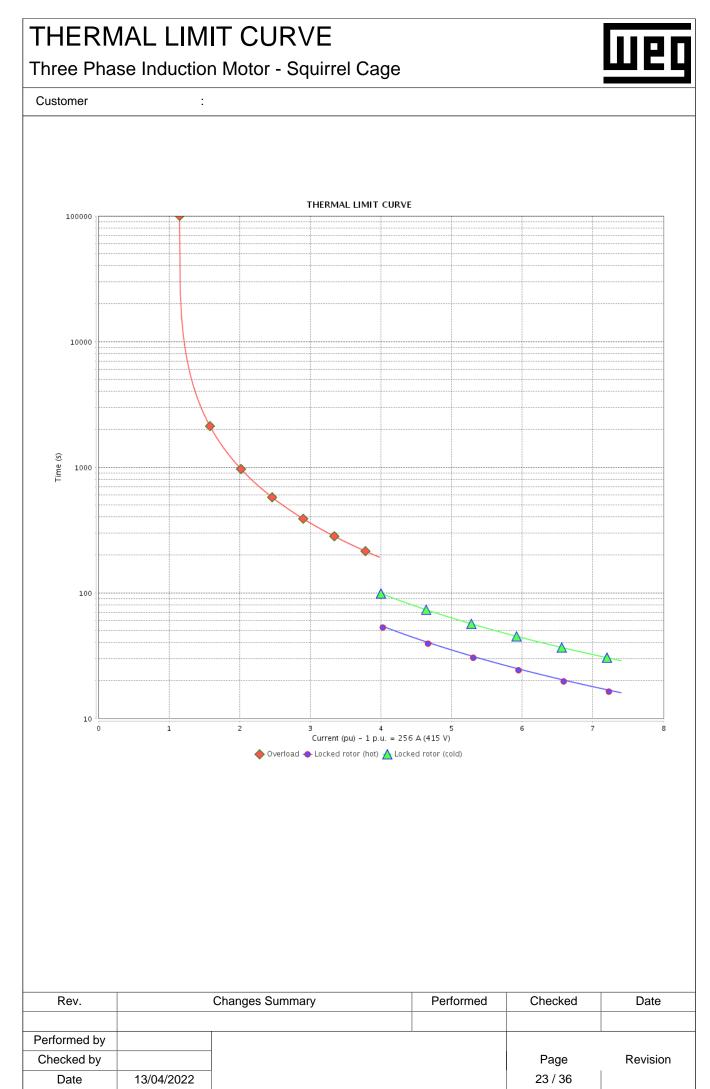
Customer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	12115182
	i nast	Catalog # :	25018ST3QIERB449T-V

Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: ( : 7 que : 2 Je : 2	263 A 5.8 207 ft.lb 260 % 260 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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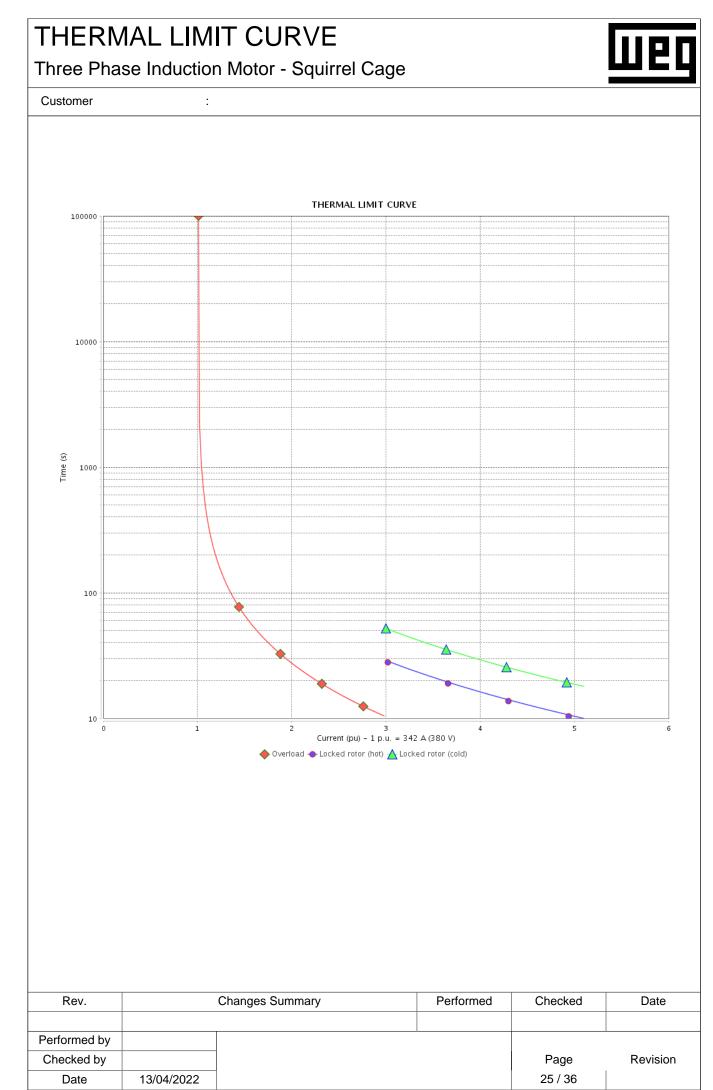
THERMAL LIMIT CURVE						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12115182 25018ST3QIERB449T-W2			
Performance	: 415 V 50 Hz 4P IE3	at of inortia (1)	· 90.6 og ft lb			

Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 7 jue : 2 je : 2	256 A 7.4 207 ft.lb 290 % 290 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
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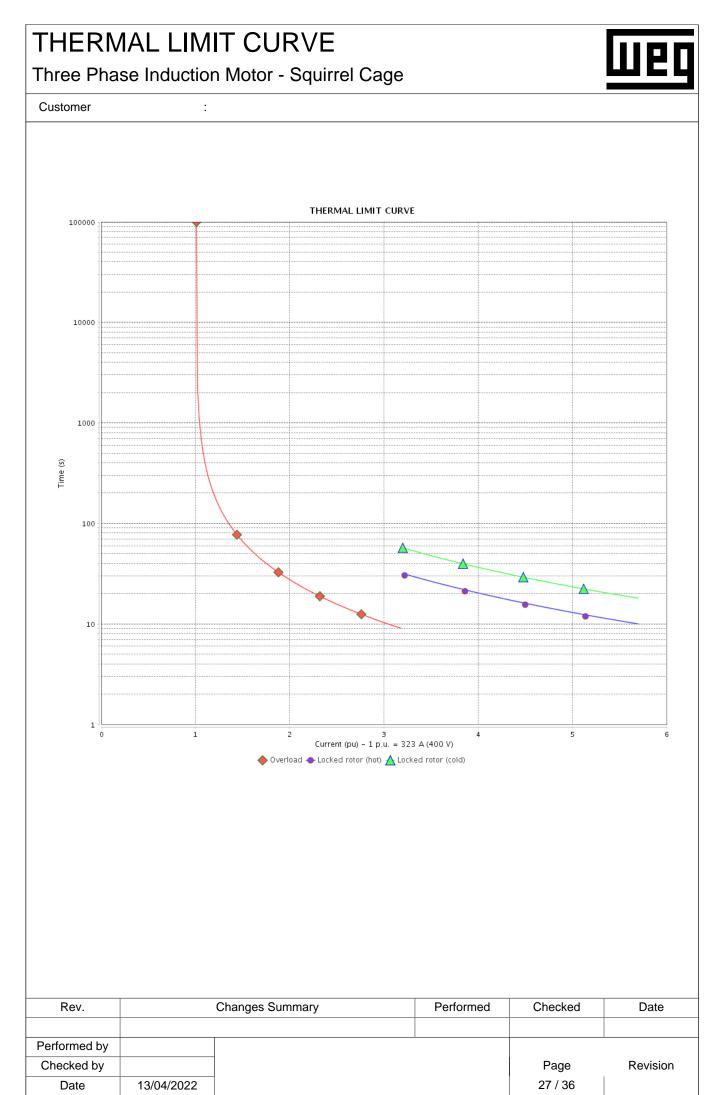
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12115182 25018ST3QIERB449T-W2			

Performance	: 38	80 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 89 que : 11 ie : 2	42 A 1 90 ft.lb 80 % 10 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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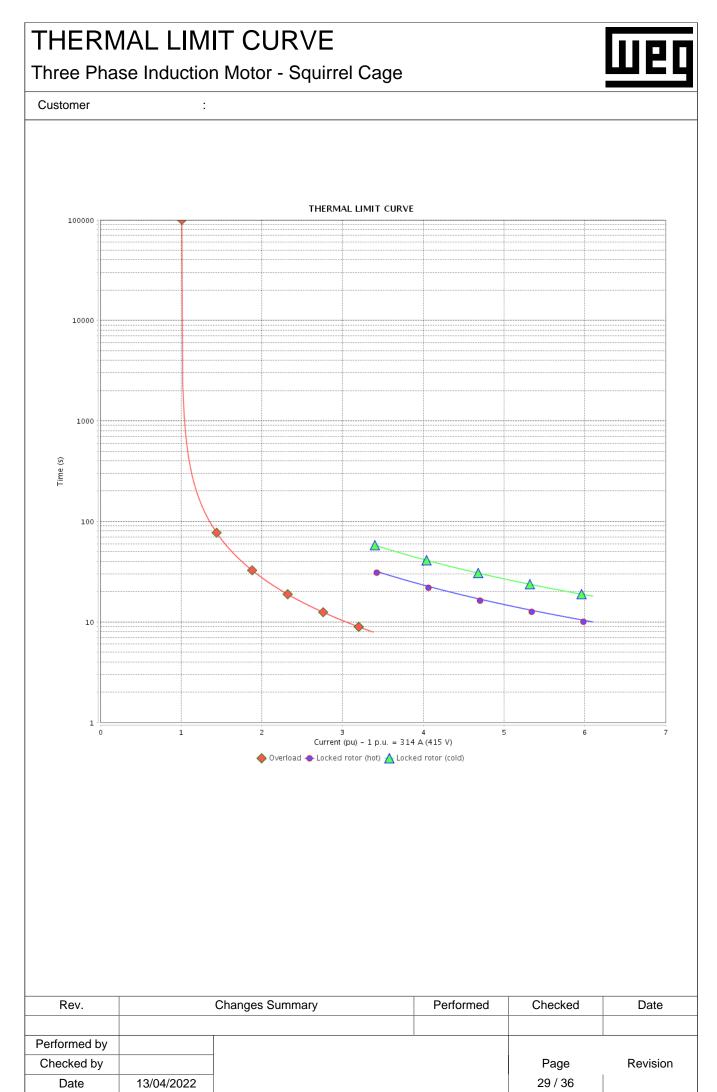
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12115182
		Catalog # :	25018ST3QIERB449T-V

Performance : 400 V 50 Hz 4P IE1		00 V 50 Hz 4P IE1				
LRC: 5Rated torque: 8Locked rotor torque: 2Breakdown torque: 2		23 A 7 90 ft.lb 00 % 10 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan	t					
Cooling constant	t					
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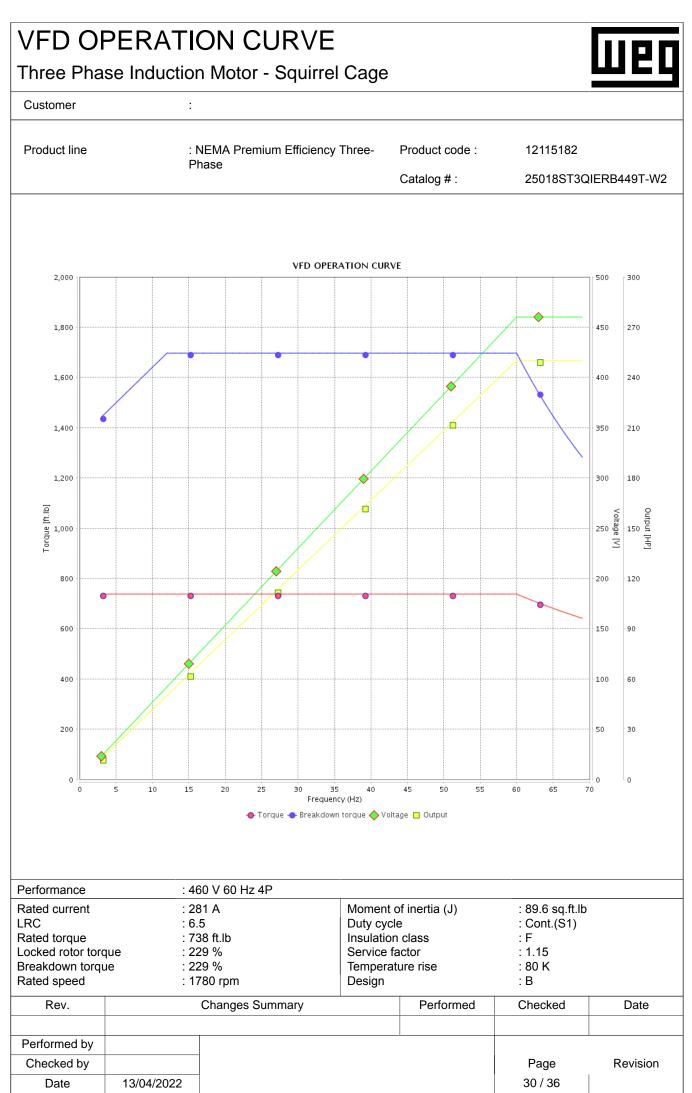


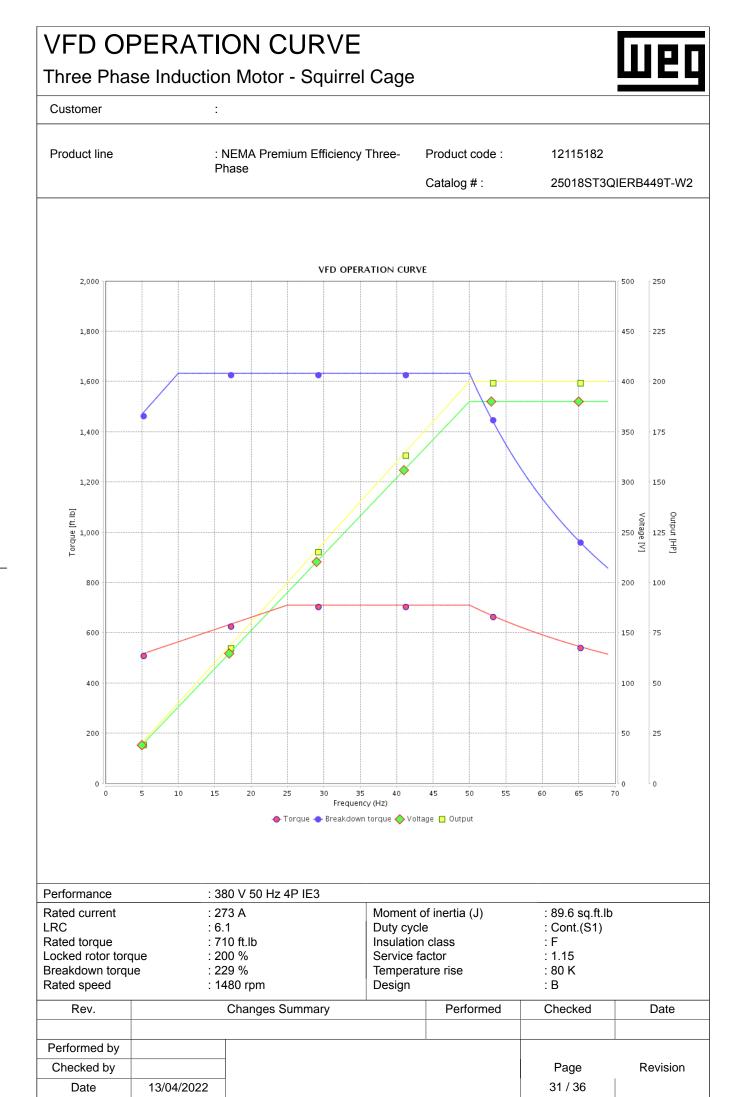
	LIMIT CURVE duction Motor - Squirrel Cag	e	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12115182 25018ST3QIERB449T-W2
Performance	: 415 V 50 Hz 4P IE2	- <b>1</b>	
Rated current	: 314 A Mome	nt of inertia (J)	: 89.6 sq.ft.lb

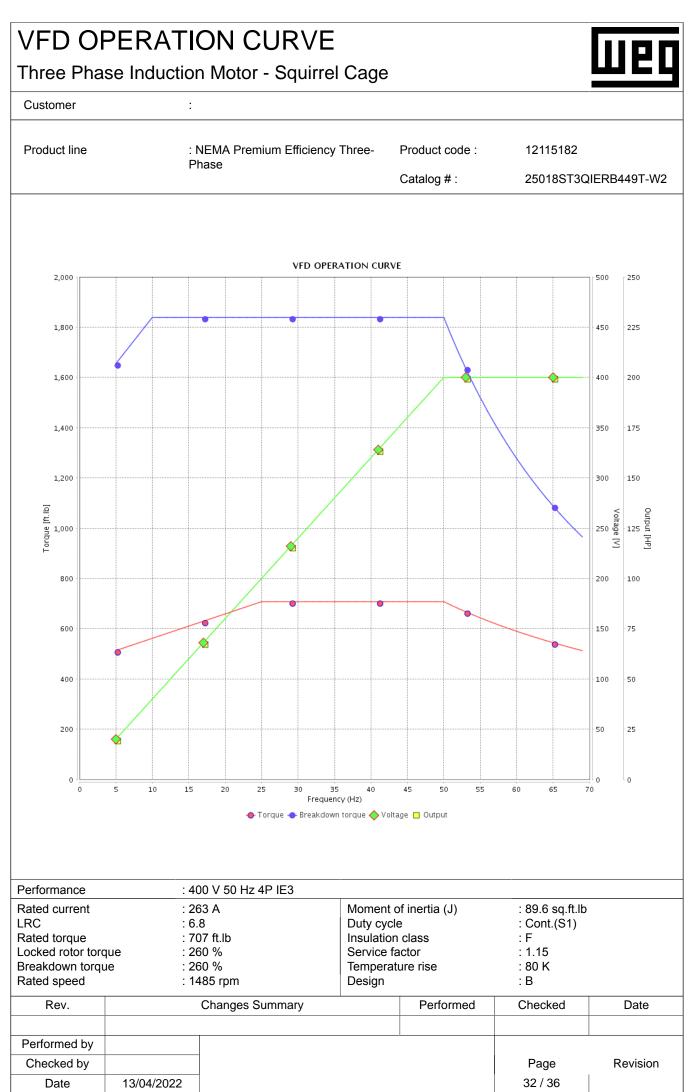
LRC: 6.Rated torque: 88Locked rotor torque: 22Breakdown torque: 22		14 A 1 37 ft.lb 20 % 29 % 480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	i i					
Cooling constant						
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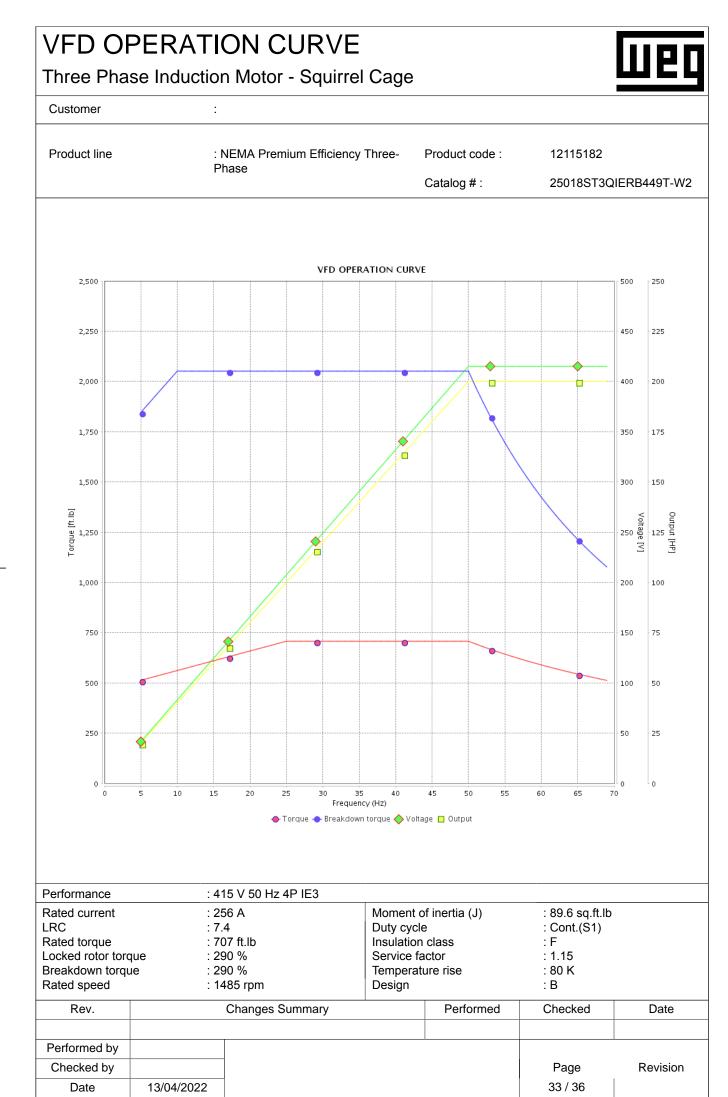


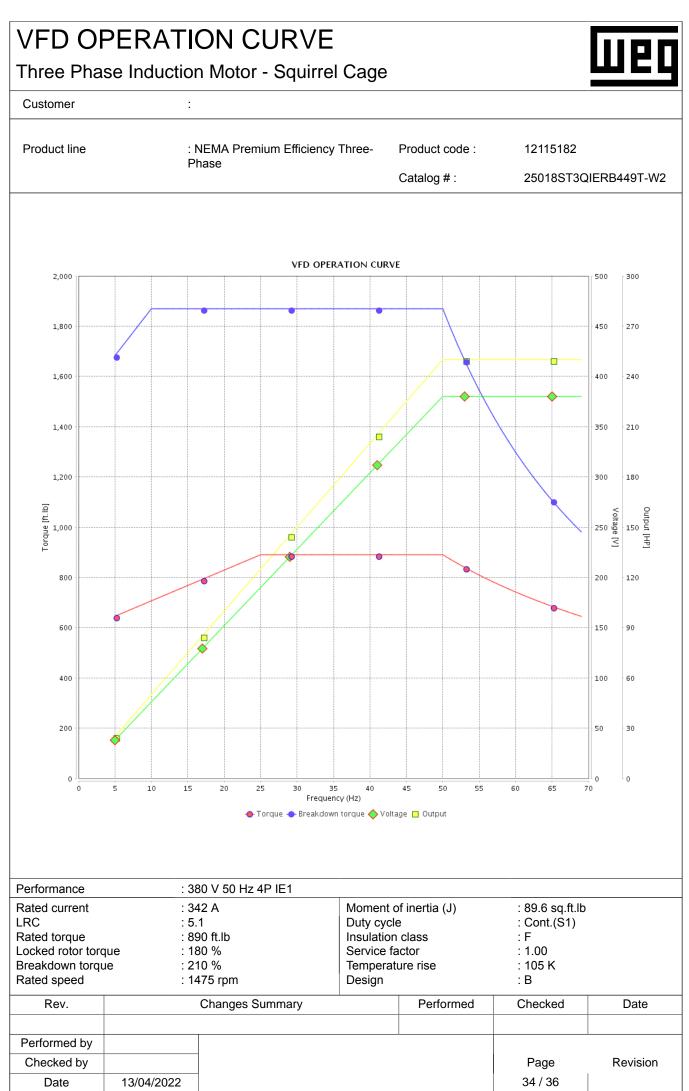
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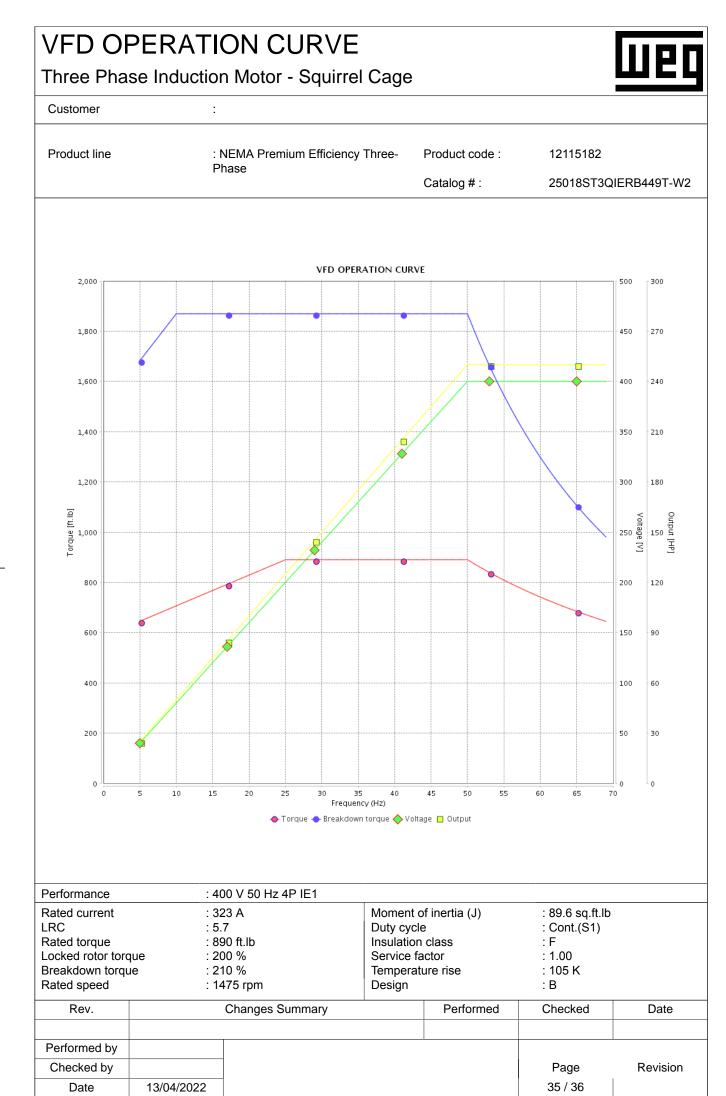


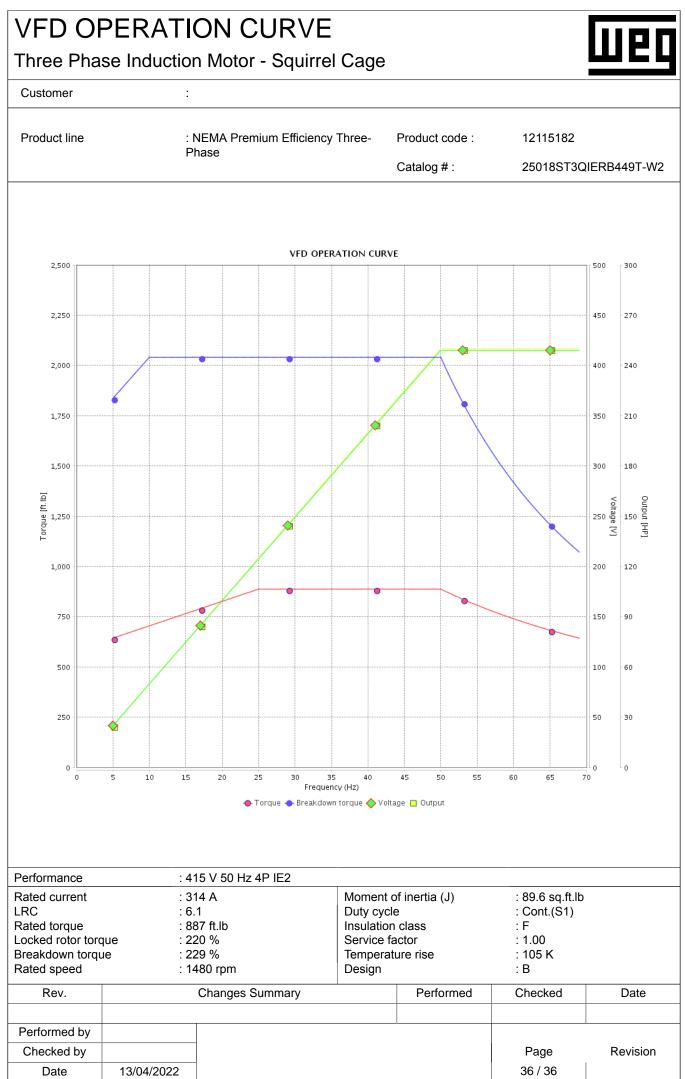




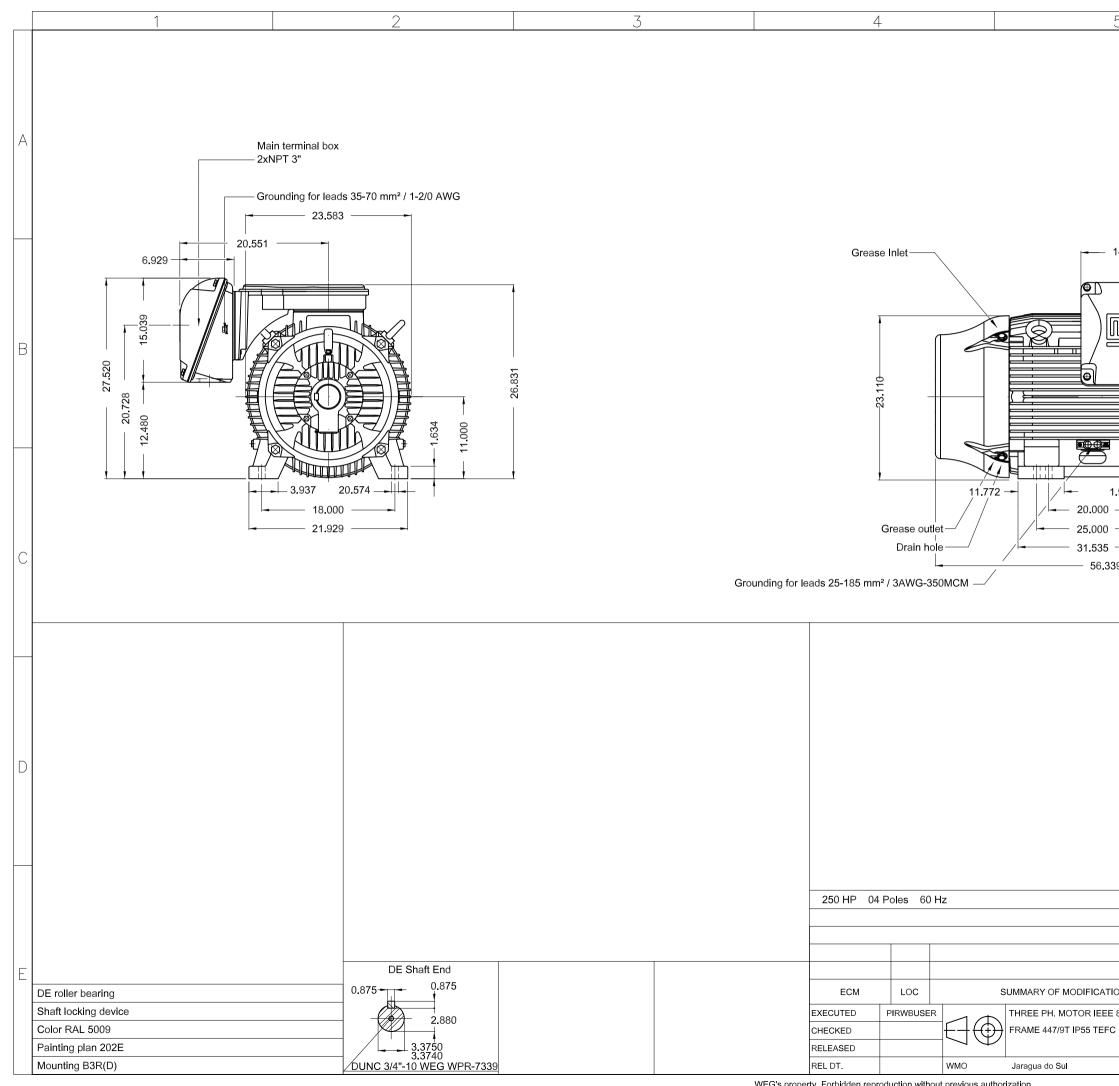








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