# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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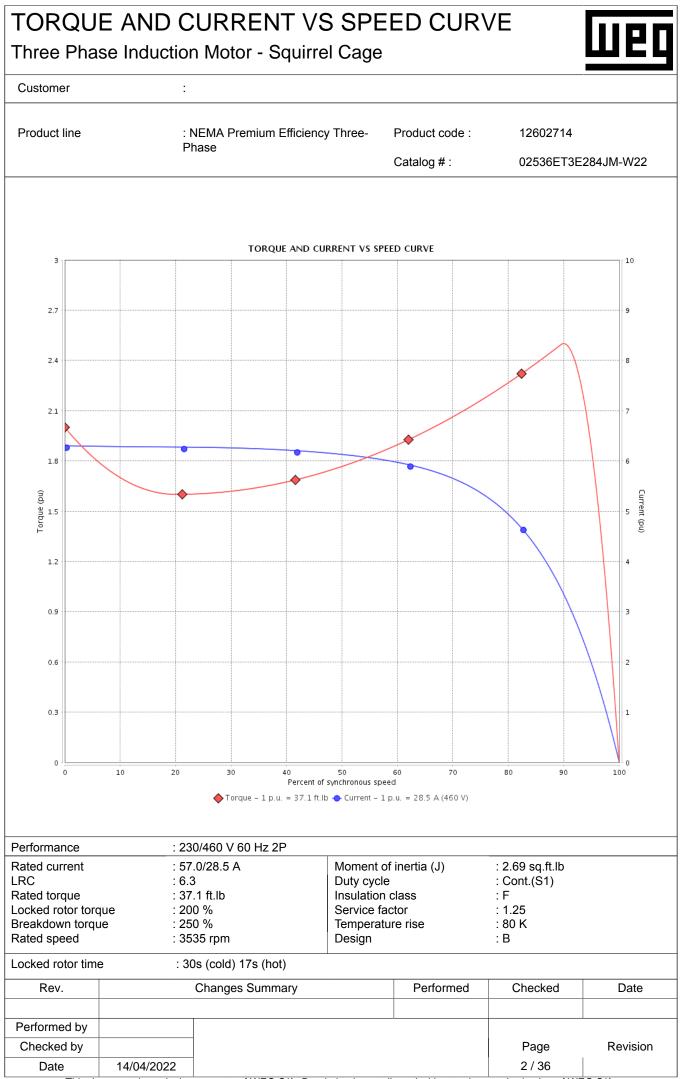
#### Customer

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Product line		: NEMA Premium Efficiency Three- Phase			e- Product code :		2602714	
Insulation class         : F         Mounting         : F-1         Cont (S1)           Duty cycle         : Cont (S1)         Relation'         : Both (CW and CCW)           Attitude         : 1000 m.s.i.         : Starting method         : Direct On Line           Protection degree         : IPS5         20         20         22         2 <th></th> <th></th> <th>Phase</th> <th></th> <th></th> <th>Catalog # :</th> <th>02</th> <th>2536ET3E284</th> <th>JM-W22</th>			Phase			Catalog # :	02	2536ET3E284	JM-W22
Dels         2 <th2< th="">         2         2         2</th2<>	Insulation class Duty cycle Ambient tempera Altitude Protection degre		: F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55		Mou Rot Star App	inting ation <sup>1</sup> ting method rox. weight <sup>3</sup>	: F : E : [ : 4	<sup>-</sup> -1 Both (CW and Direct On Line 115 lb	,
Frequency [Hz]         60         50         50         50         50           Stated voltage [V]         230/460         380         400         415         380         400         415           Rated current [A]         65/028.5         27.6         26.5         25.8         34.9         33.3         31.8           R.C [A]         6.3x(Code [A]         6.5x(Code [A]         6.5x(Code [A]         6.6x(Code [A]         7.40         7.90         8.30         7.40         7.90         8.30         2.67         2.17           Stated speed [RPM]         3535         2930         2940         2945         2910         2.920         2935           Stated torque [%]         1.18         2.33         2.00         1.83         3.00         2.67         2.17           Stated torque [%]         2.00         2.00         2.80         300         190         2.20         240           State torque [%]         2.50         2.40         2.80         300         190         2.20         240           Stexice factor         1.25         1.00	Output [HP]		25	20	20	20	25	25	25
aled voltage [V]         230/460         380         400         415         380         400         415           Rated current [A]         57 0/28.5         27.6         26.5         25.8         34.9         33.3         31.8           R. Amperes [A]         6.3x(Code         6.2x(Code         6.3x(Code H)7.4x(Code H)4.9x(Code E)5.xx(Code F)6.0x(Code         6.3x(Code H)7.4x(Code H)4.9x(Code E)5.xx(Code F)6.0x(Code         6.3x(Code I)7.4x(Code H)4.9x(Code E)5.xx(Code F)6.0x(Code         6.3x(Code I)7.4x(Code H)7.4x(Code H)4.9x(Code E)5.xx(Code F)6.0x(Code         6.3x(Code I)7.4x(Code H)4.9x(Code E)5.xx(Code E)5.xx(Code F)6.0x(Code           Stated speed (FPM)         3535         2930         2940         2845         2910         2202         2935           Stated speed (FPM)         37.1         35.8         35.7         35.7         45.1         44.0         44.7         6.3x(Code I)         10.0         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.0x         1.0x(Code E) (10	Poles								
Parted current [A]         57 0/28.5         27.6         28.5         25.8         34.9         33.3         31.8           R. Amperes [A]         359/180         171         183         191         171         183         191           RC [A]         6.3x(Code         6.2x(Code         6.9x(Code H)7.4x(Code H)4.9x(Code E)5.5x(Code F)6.0x(Code         6.0x(Code         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40									
R. Amperes [A]         359/180         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         171         183         191         740         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.90         8.30         7.40         7.40         4.50         1.41         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40         7.40 <td>• • •</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	• • •								
RC [A]         6.3x(Code G)         6.2x(Code G)         6.3x(Code G)         6.3x(Code G)									
No load current [A]         15.07.50         7.40         7.90         8.30         7.40         7.90         8.30           Rated speed [RPM]         3535         2930         2940         2945         2910         2920         2935           Sing [%]         1.81         2.33         2.00         1.83         3.00         2.67         2.17           Sated forque [ft.lb]         37.1         35.8         35.7         35.7         45.1         45.0         44.7           cocked rot rotrouge [%]         200         200         229         240         160         180         190           Service factor         1.25         1.00         1.0         1.4         (hot)         14s (hot) </td <td> R. Amperes [A] _RC [A]</td> <td></td> <td>6.3x(Code</td> <td>6.2x(Code</td> <td></td> <td></td> <td></td> <td></td> <td></td>	R. Amperes [A] _RC [A]		6.3x(Code	6.2x(Code					
Sated speed [RPM]         3635         2930         2940         2945         2910         2920         2935           Sated forque [ft.lb]         1.81         2.33         2.00         1.83         3.00         2.67         2.17           Sated forque [ft.lb]         37.1         35.8         35.7         35.7         45.1         45.0         44.7           .ocked rotor forque [%]         200         200         229         240         160         180         190           Service factor         1.25         1.00         1.0         1.00		1		,	7 00	0.00	7 40	7.00	0.00
Slip [%]         1         1.81         2.33         2.00         1.83         3.00         2.67         2.17           ated torque [ft.lb]         37.1         35.8         35.7         35.7         45.1         45.0         44.7           cocked rotor torque [%]         200         200         229         240         160         180         190           Service factor         1.25         1.00         1.45         (ht)         145									
Rated forque [ft,lb]         37.1         35.8         35.7         35.7         45.1         45.0         44.7           cocked rotor forque [%]         200         200         229         240         160         180         190           screakdown torque [%]         250         240         280         300         190         220         240           Service factor         1.25         1.00         1.0<		vi]							
Locked rotor torque [%]         200         200         229         240         160         180         190           Bervice factor         1.25         1.00         0.00         0.00         0.		1							
Breakdown torque [%]         250         240         280         300         190         220         240           Service factor         1.25         1.00<		-							
Service factor         1.25         1.00         1.10         1.13         (not)         1.45         (not)         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.0									
Femperature rise         80 K         80 K         80 K         80 K         80 K         80 K         105 K         106 K         114 K         105 K         106 K         105 K         106 K         100 K         100 K         100 K		. [ , 0]							
Locked rotor time         30s (cold)         25s (cold)         25s (cold)         25s (cold)         25s (cold)         25s (cold)         14s (hot)         160         100									
Noise level?         72.0 dB(Å)         67.0 dB(Å)         91.0	_ocked rotor time		30s (cold)	25s (cold)	25s (colo	l) 25s (cold)	25s (cold)	25s (cold)	25s (cold)
25%         91.0         90.2         90.3         89.8         91.0         91.0         91.0           75%         91.7         90.7         91.1         91.1         90.2         91.0         89.5         90.2         91.0         91.0         91.0         91.0         91.0         91.0         91.0         91.0         91.0         91.0	Noise level <sup>2</sup>			. ,	•				67.0 dB(A
Emiciency (%)         75%         91.7         90.7         91.1         91.1         90.2         91.0         91.0           100%         91.7         91.9         91.9         91.9         91.9         89.5         90.2         91.0         91.0           Power Factor         25%         -		25%			<b>`</b>	, , , ,			
100%         91.7         90.7         91.1         91.1         90.2         91.0         91.0           100%         91.7         91.9         91.9         91.9         91.9         91.0         91.0         91.0           Power Factor         50%         0.82         0.79         0.78         0.75         0.85         0.84         0.82           75%         0.87         0.87         0.86         0.85         0.89         0.88         0.90           100%         0.89         0.90         0.89         0.88         0.90         0.89         0.89           Bearing type         :         6311 C3         6211 C3         Foundation loads         Max. traction         : 260 lb           Sealing         :         VRing         VRing         14000 h         17000 h         Max. compression         : 675 lb           Lubricant amount         :         18 g         11 g         Max. compression         : 675 lb           Notes         USABLE @208V 63.0A SF 1.10 SFA 69.3A         These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.           (2) Measured at im and with tolerance of +3dB(A).         :         .         .           (3) Approximate w	$\Box$ ff is is a set $\langle 0/\rangle$	50%	91.0	90.2	90.3	89.8	91.0	91.0	91.0
Power Factor         25%         0.82         0.79         0.78         0.75         0.85         0.84         0.82           75%         0.87         0.87         0.86         0.89         0.88         0.90         0.89         0.88         0.90         0.89	Enciency (%)								
Power Factor         50%         0.82         0.79         0.78         0.75         0.85         0.84         0.82           75%         0.87         0.87         0.87         0.86         0.85         0.89         0.88         0.87           100%         0.89         0.90         0.89         0.88         0.90         0.89 <td< td=""><td></td><td></td><td>91.7</td><td>91.9</td><td>91.9</td><td>91.9</td><td>89.5</td><td>90.2</td><td>91.0</td></td<>			91.7	91.9	91.9	91.9	89.5	90.2	91.0
Power Factor       75%       0.87       0.87       0.86       0.85       0.89       0.88       0.87         100%       0.89       0.90       0.89       0.88       0.90       0.89									
75%     0.87     0.87     0.86     0.85     0.89     0.88     0.90       100%     0.89     0.90     0.89     0.88     0.90     0.89     0.89       Bearing type     :     6311 C3     6211 C3     Max. traction     : 260 lb       Sealing     :     V'Ring     V'Ring     Max. traction     : 260 lb       Lubrication interval     :     14000 h     17000 h     Max. compression     : 675 lb       Notes     USABLE @208V 63.0A SF 1.10 SFA 69.3A     Max. traction     : 675 lb     Max. traction       Notes     USABLE @208V 63.0A SF 1.10 SFA 69.3A     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.     (4) At 100% of full load.       Rev.     Changes Summary     Performed     Checked     Date       Performed by	Power Factor								
Drive end       Non drive end       Foundation loads         Bearing type       :       6311 C3       6211 C3         Sealing       :       V'Ring       V'Ring         Lubrication interval       :       14000 h       17000 h         Lubricant amount       :       18 g       11 g         Lubricant type       :       Mobil Polyrex EM       Max. compression       :         Notes       USABLE @208V 63.0A SF 1.10 SFA 69.3A       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         (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.       (4) At 100% of full load.       Performed       Changes Summary         Rev.       Changes Summary       Performed       Checked       Date									
Bearing type       :       6311 C3       6211 C3         Sealing       :       V'Ring       V'Ring         Lubrication interval       :       14000 h       17000 h         Lubricant amount       :       18 g       11 g         Lubricant type       :       Mobil Polyrex EM       Max. compression       : 675 lb         Notes       USABLE @208V 63.0A SF 1.10 SFA 69.3A       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         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 MG-1.         (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.       Evev       Changes Summary       Performed       Checked       Date         Performed by		100%	0.89				0.90	0.89	0.89
USABLE @208V 63.0A SF 1.10 SFA 69.3A 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         Image: Changes Summary         Image: Changes Summar	Sealing Lubrication inter Lubricant amoun Lubricant type		: 6311 C3 : V'Ring : 14000 h : 18 g	6211 0 V'Rin 17000 11 g	C3 Max g Max h	traction			
(4) At 100% of full load.         Rev.       Changes Summary       Performed       Checked       Date         Performed by	This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate	aces and car ed. lotor from the Im and with t weight subject	ncel the previo e shaft end. colerance of +3	us one, which 8dB(A).	pow	er supply, subjec			
Performed by	(4) At 100% of ful		Changes	Summary		Perform	ed Ch	ecked	Date
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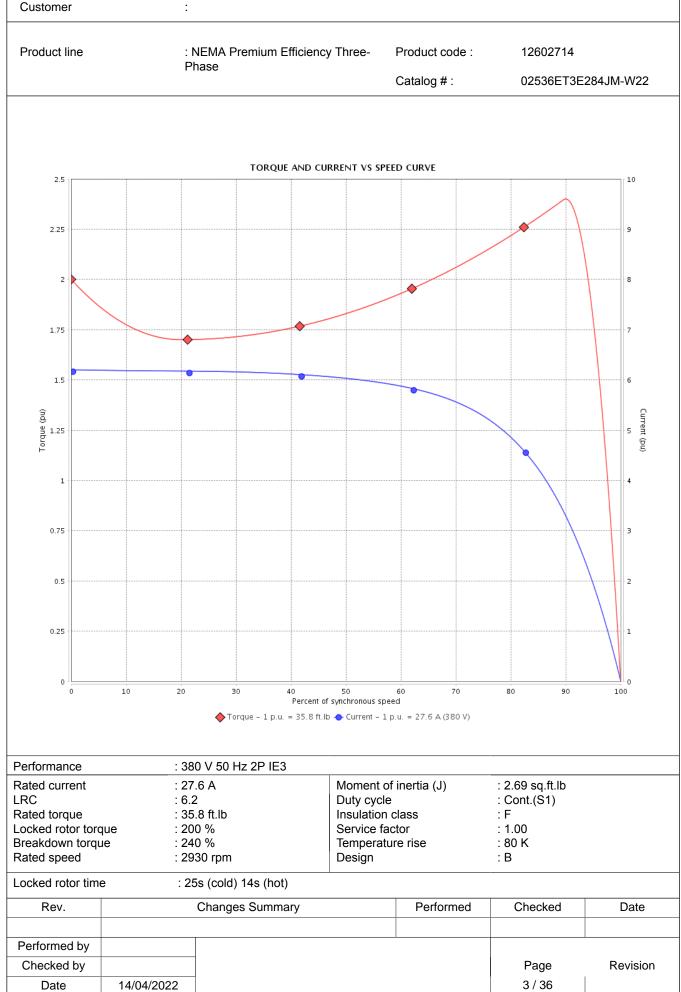
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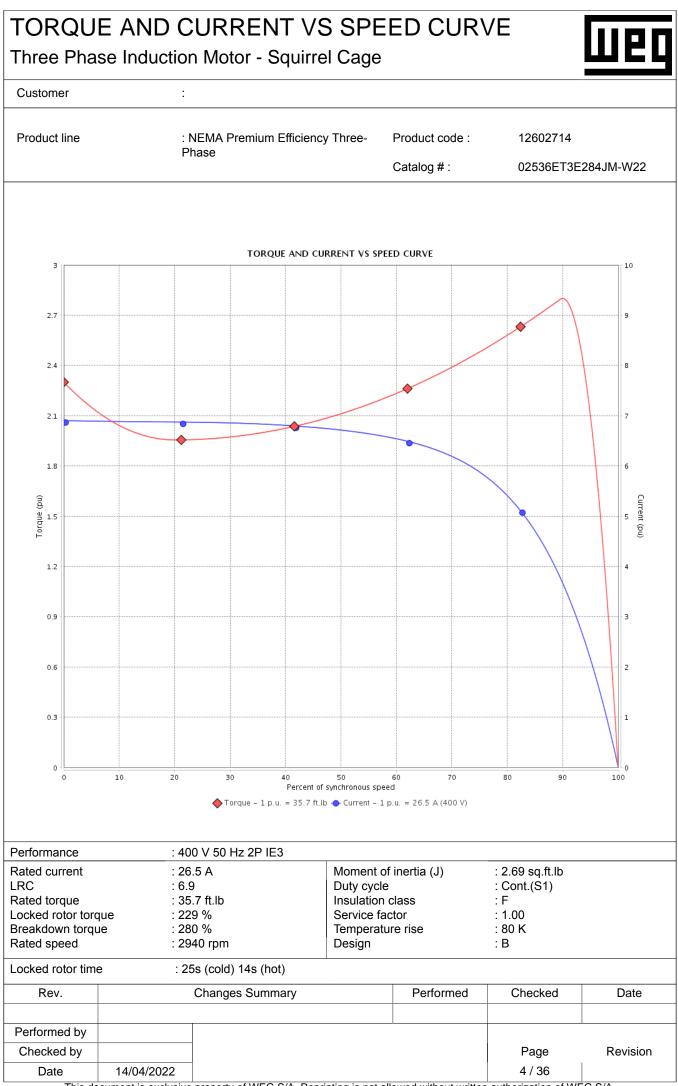
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer

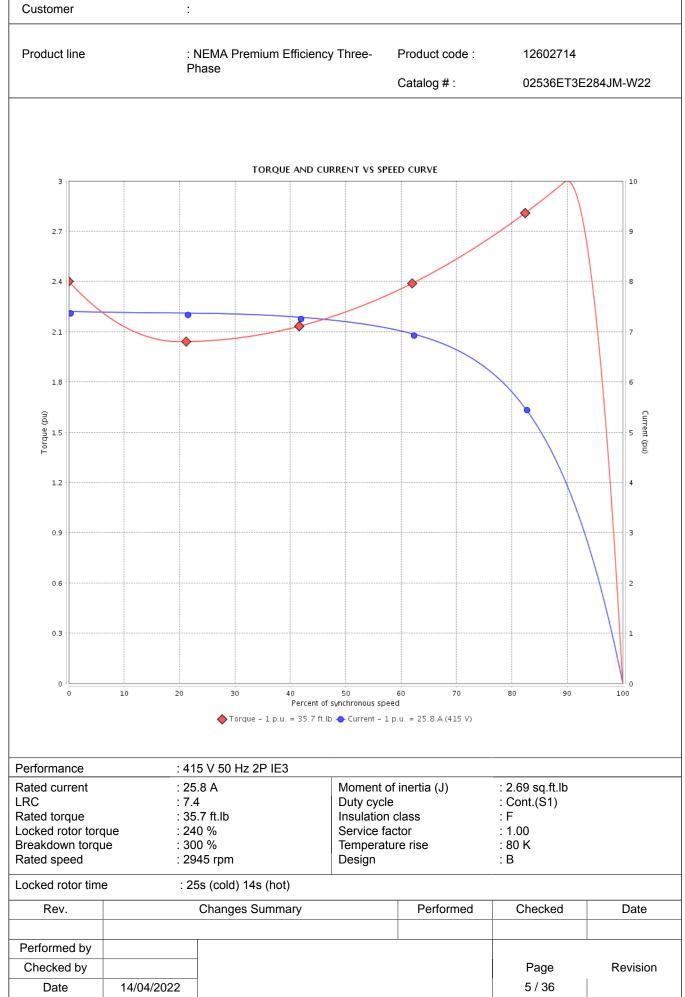


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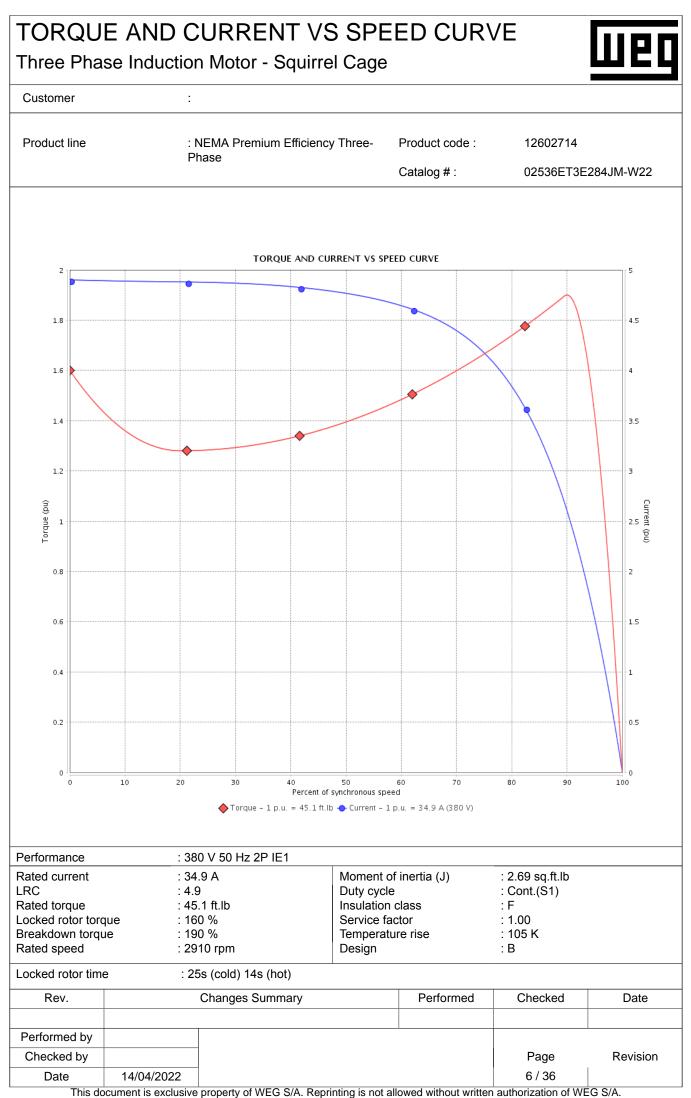


### TORQUE AND CURRENT VS SPEED CURVE

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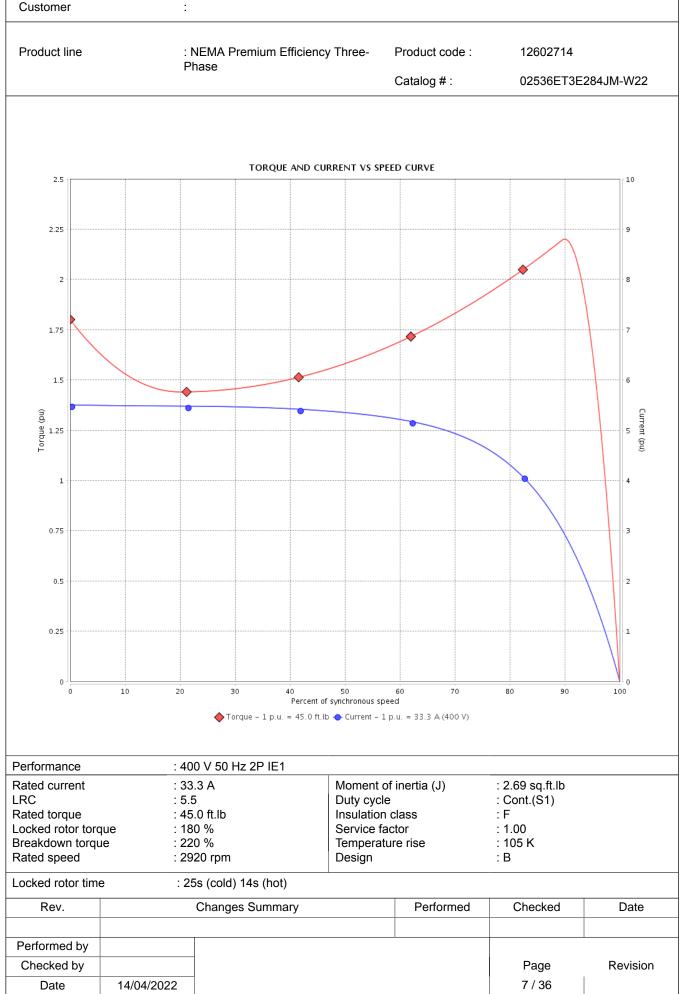


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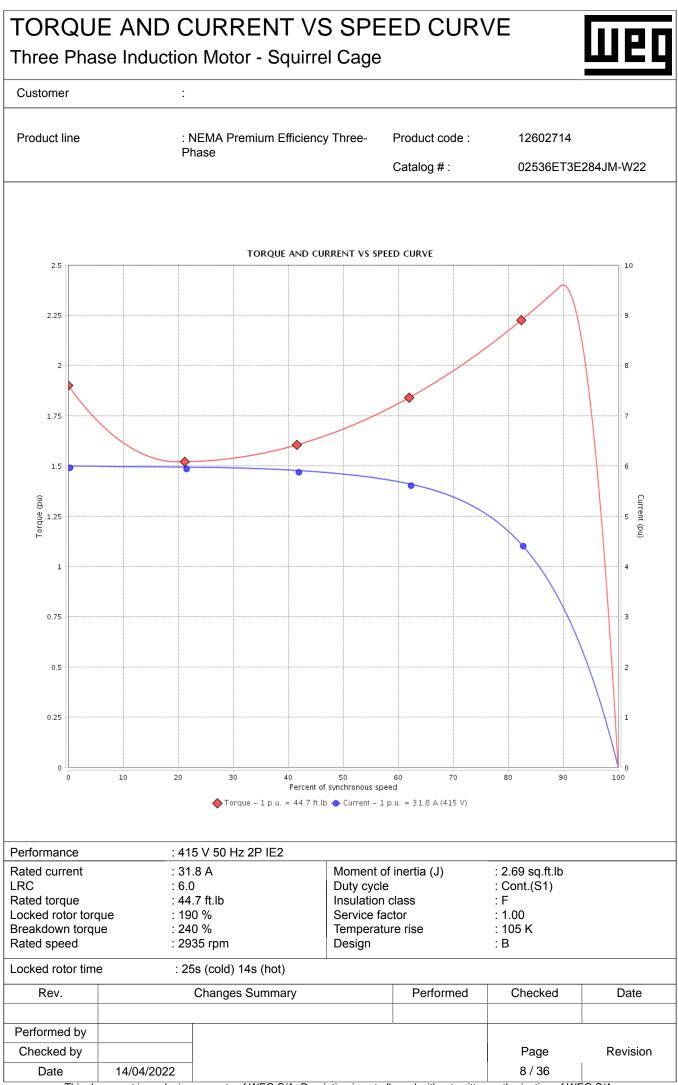
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



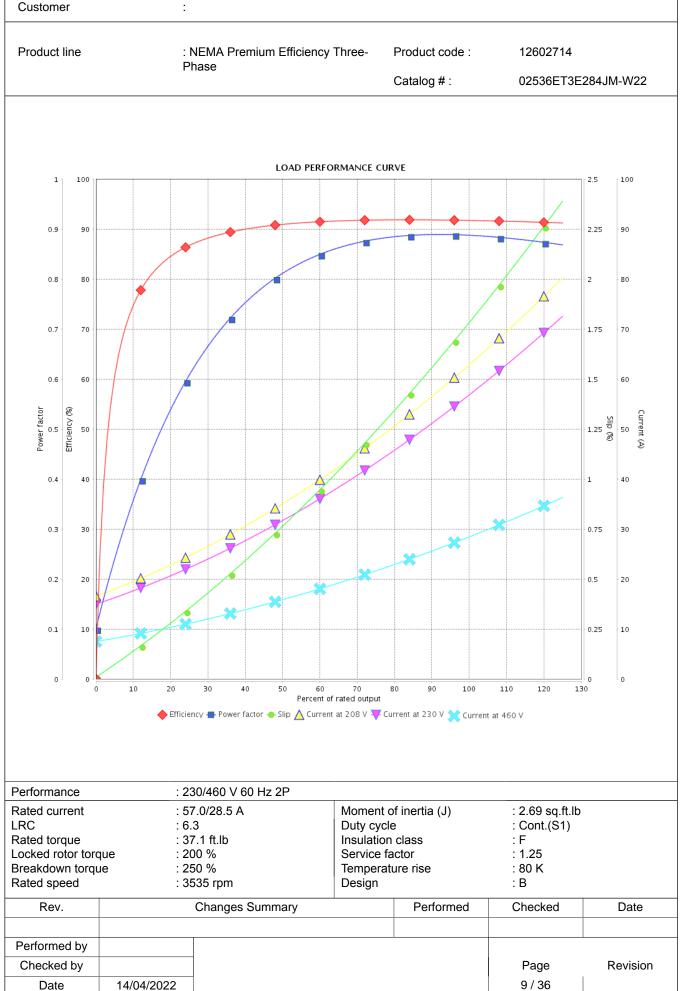


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Three Phase Induction Motor - Squirrel Cage

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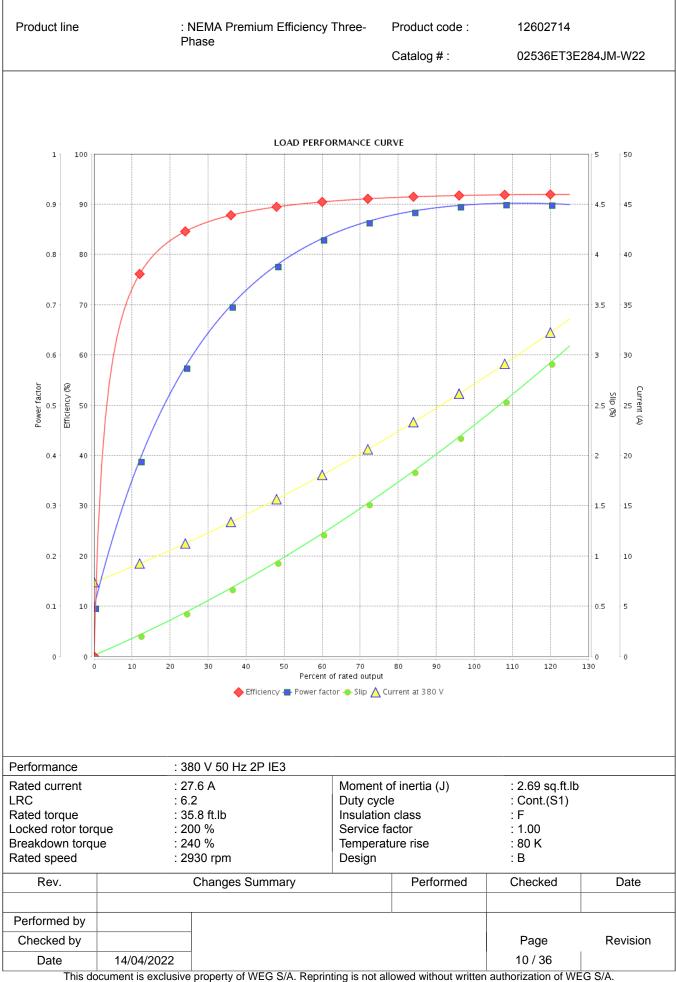
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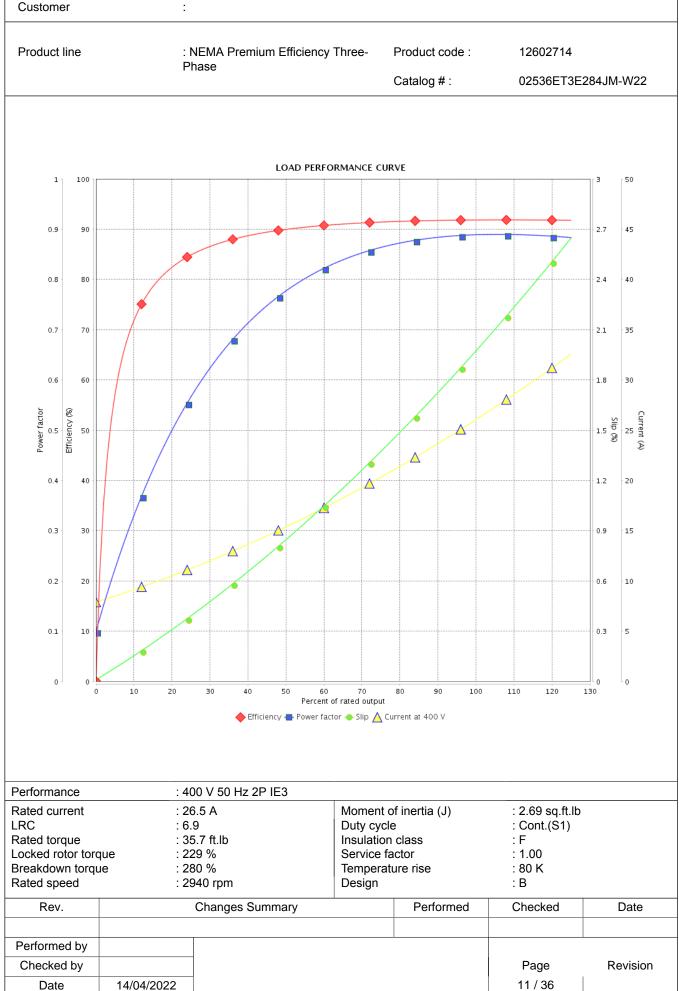


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Three Phase Induction Motor - Squirrel Cage

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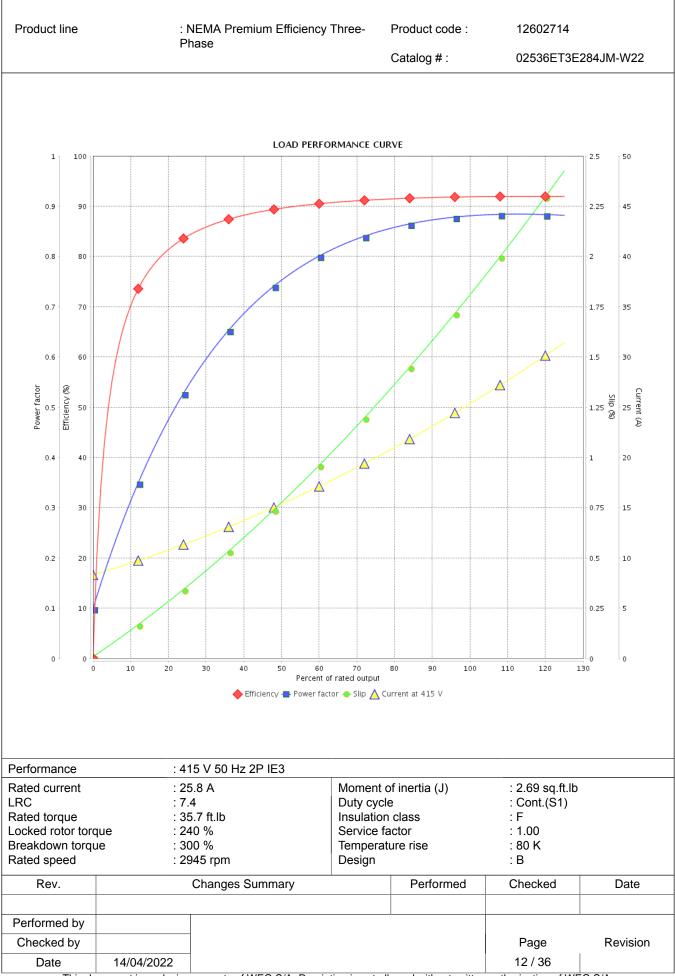
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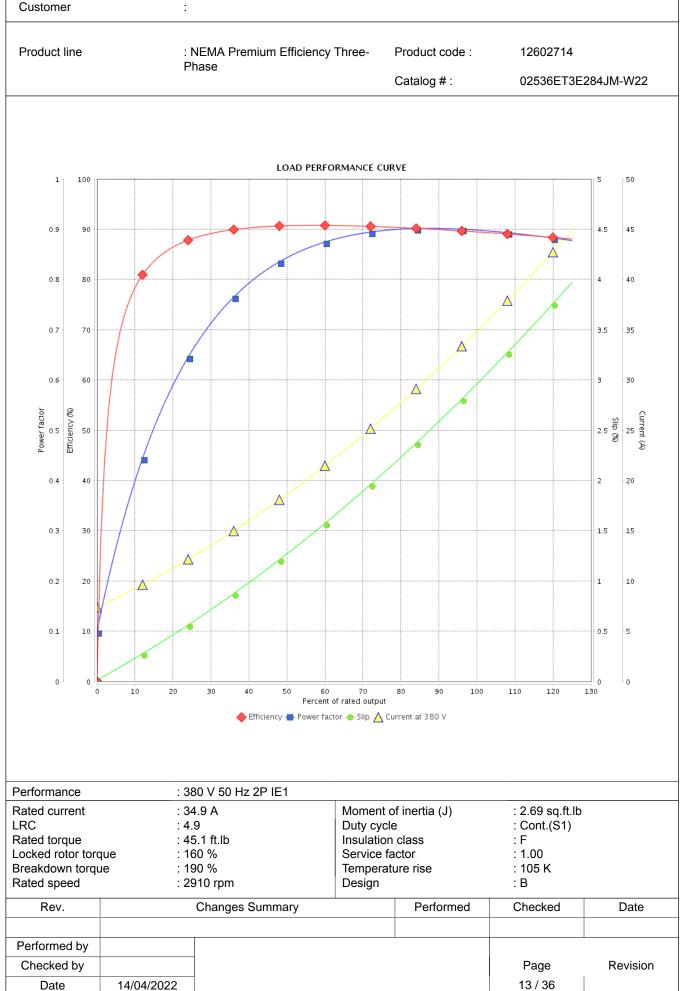


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Three Phase Induction Motor - Squirrel Cage

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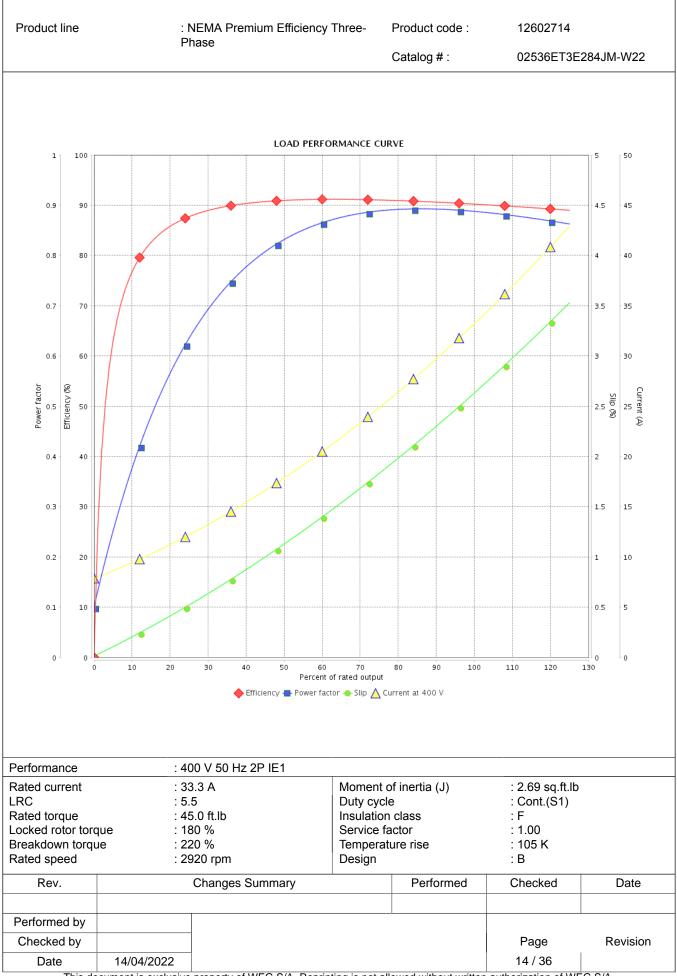
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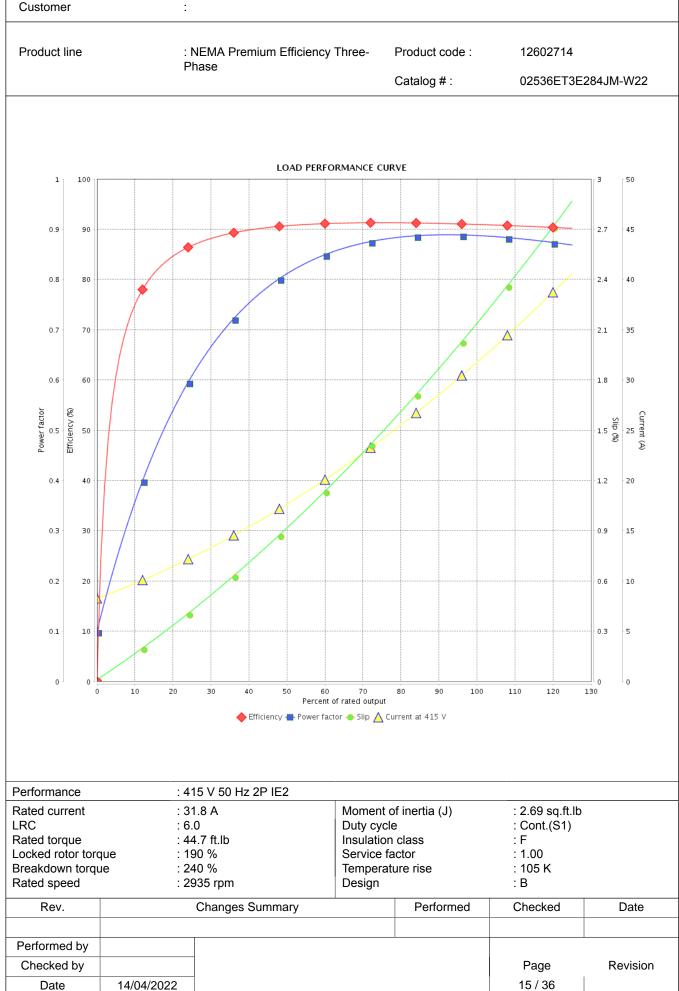


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Three Phase Induction Motor - Squirrel Cage

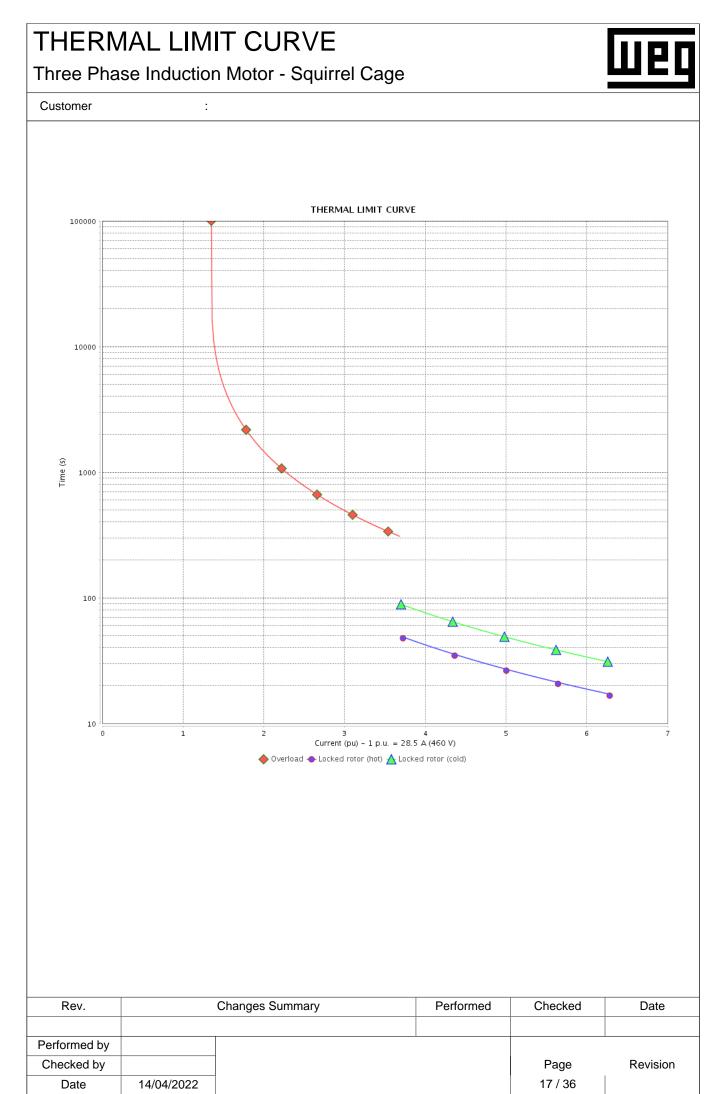
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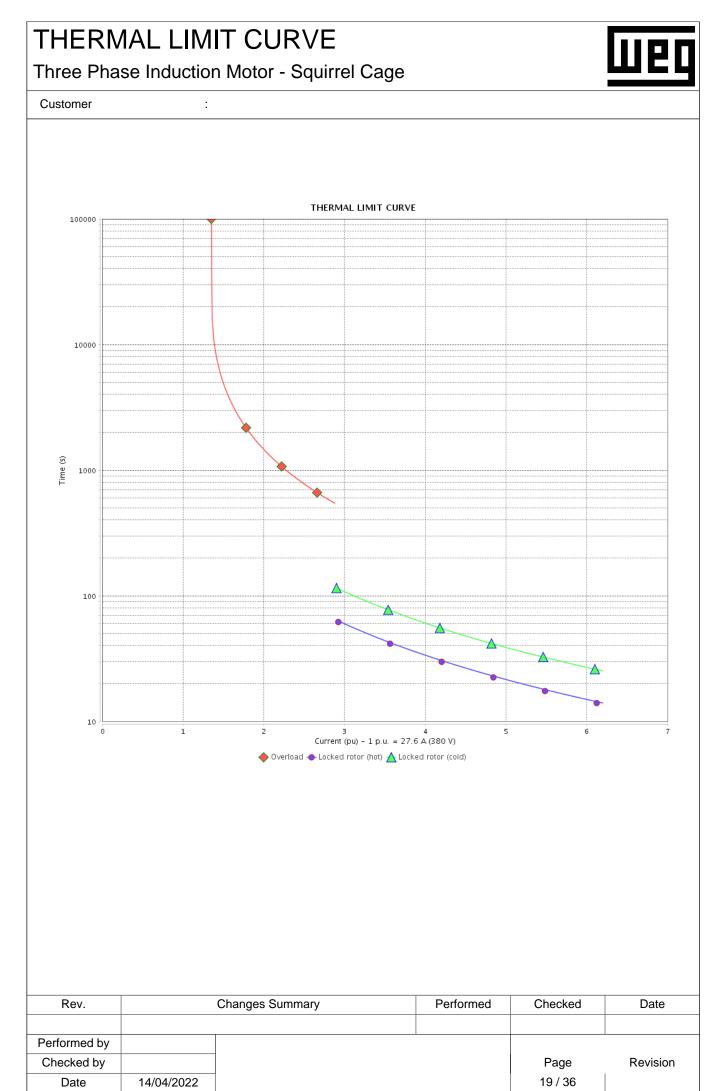
THERMAL L	IMIT CURVE		шед
Three Phase Indu	ction Motor - Squirrel Cage	)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714
	Thase	Catalog # :	02536ET3E284JM-W22

Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 3 que : 2 ue : 2	7.0/28.5 A .3 7.1 ft.lb 00 % 50 % 535 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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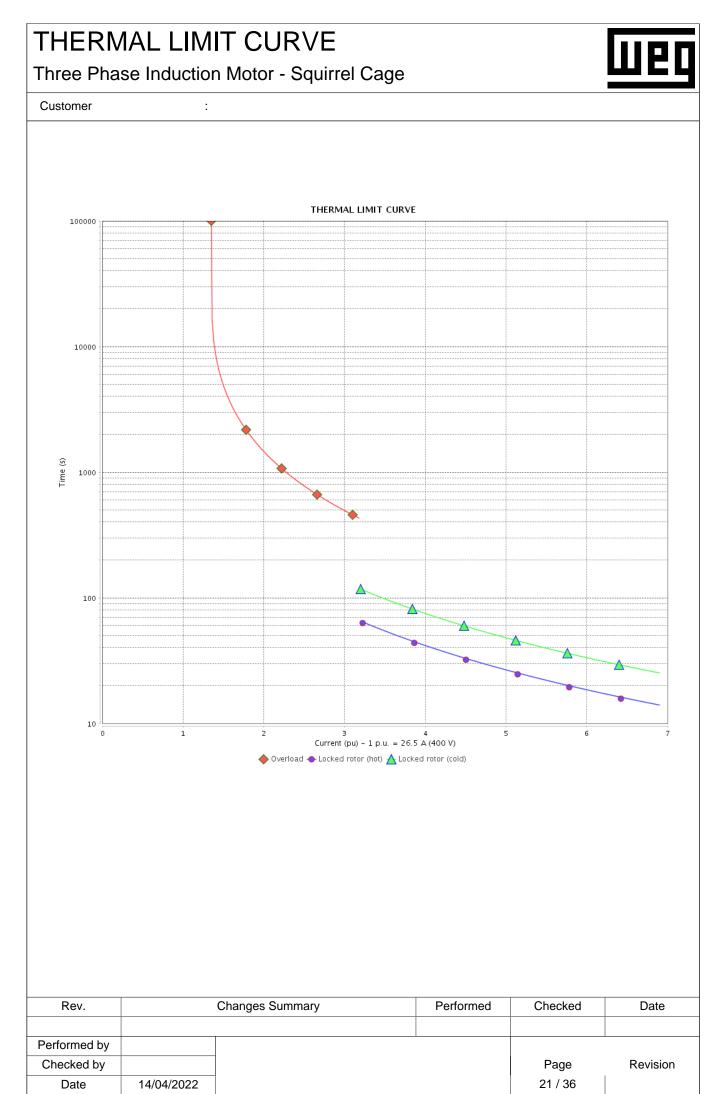
			Шер
Three Phase Induc	ction Motor - Squirrel Cage	)	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714
	Thuse	Catalog # :	02536ET3E284JM-W22

Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 27.6 A : 6.2	Moment of Duty cycl	of inertia (J) e	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque		: 35.8 ft.lb	Insulation		: F `´	
Locked rotor torc	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu	le	: 240 %	Temperat	Temperature rise		
Rated speed		: 2930 rpm	Design	Design		
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summar	у	Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022				18 / 36	
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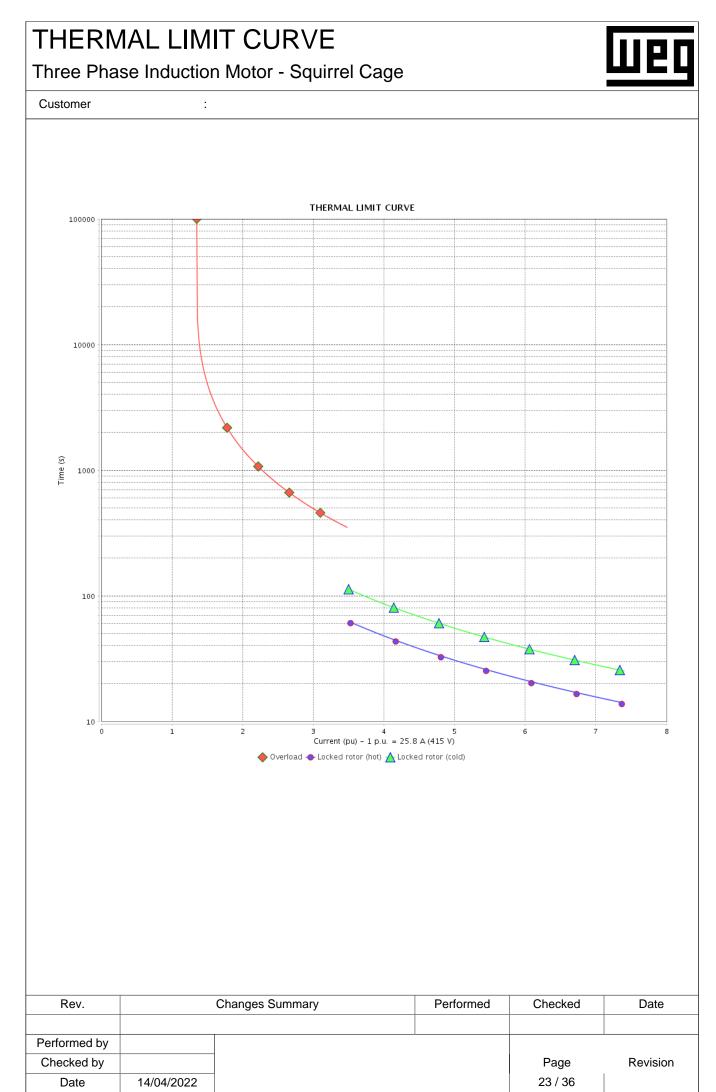
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Three Phase Inc	duction Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714
	- Hase	Catalog # :	02536ET3E284JM-W22

Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constan	: 6 : 3 que : 2 ie : 2 : 2	26.5 A Moment of i		class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant						
Rev.	-	Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
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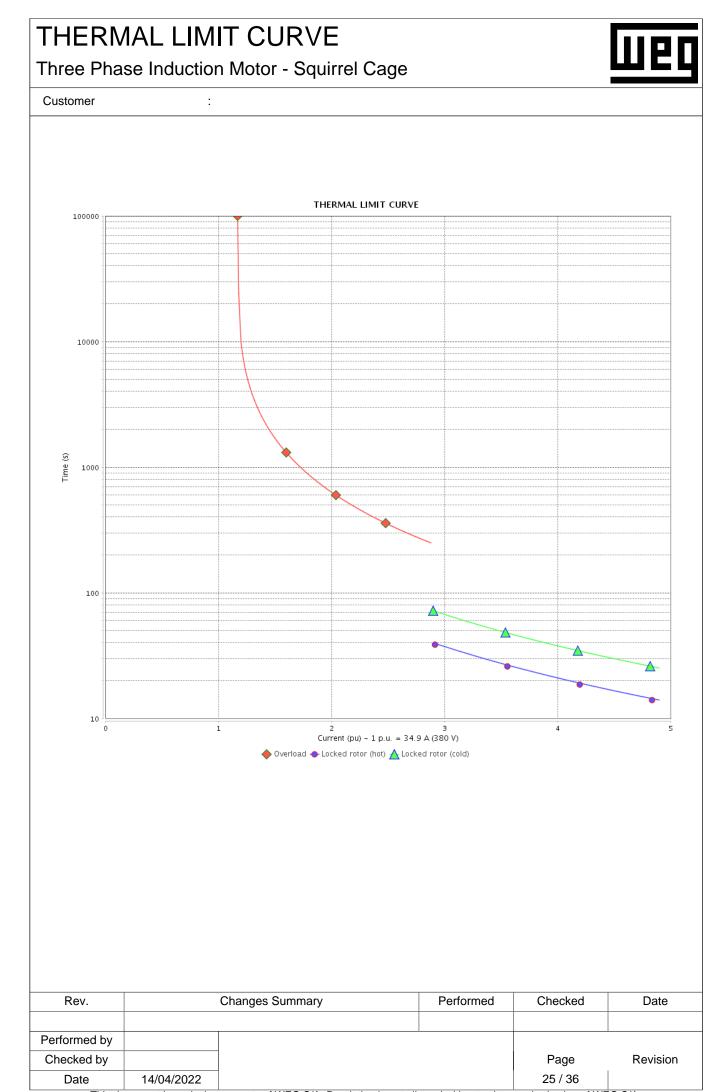
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Three Phase Inc	duction Motor - Squirrel Cage	9	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714
	Thuse	Catalog # :	02536ET3E284JM-W22

Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 25.8 A : 7.4 : 35.7 ft.lb : 240 % : 300 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Date	14/04/2022				22 / 36	
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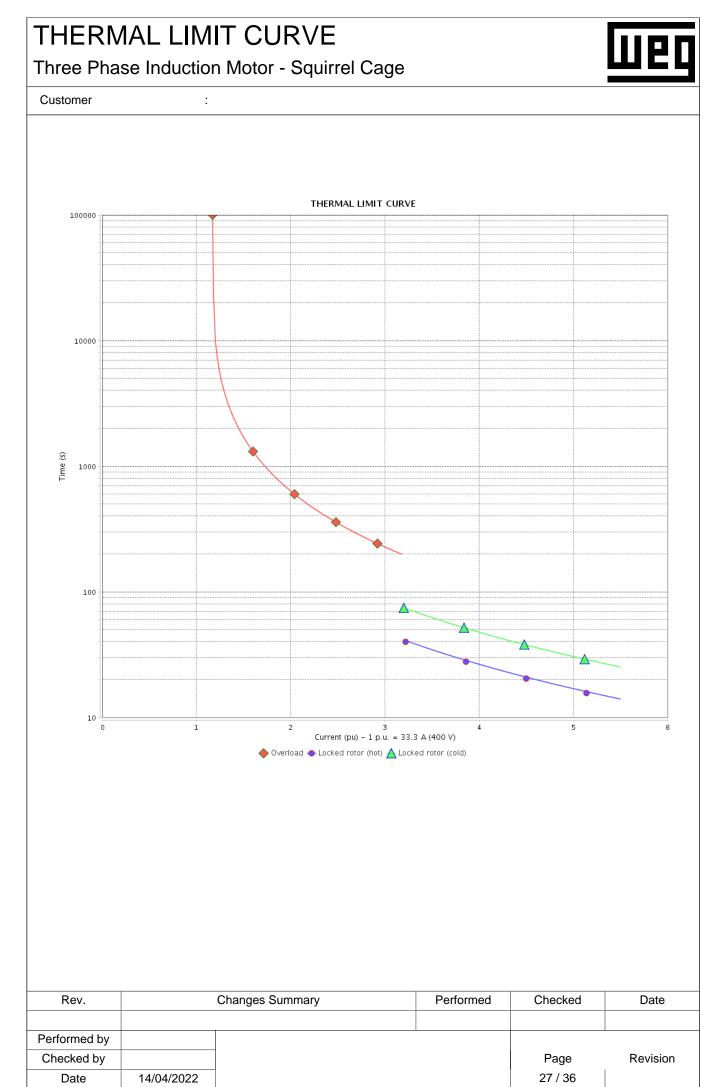
THERMAL LI	MIT CURVE		Шер
Three Phase Induc	tion Motor - Squirrel Cage	1	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	12602714
	Phase	Catalog # :	02536ET3E284JM-W22

Performance	: 3	80 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4 : 4 que : 1 ue : 1	4.9 A .9 5.1 ft.lb 60 % 90 % 910 rpm	AMoment of inertia (J)Duty cycleit.lbInsulation class6Service factor6Temperature rise		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan	t					
Cooling constant	t					
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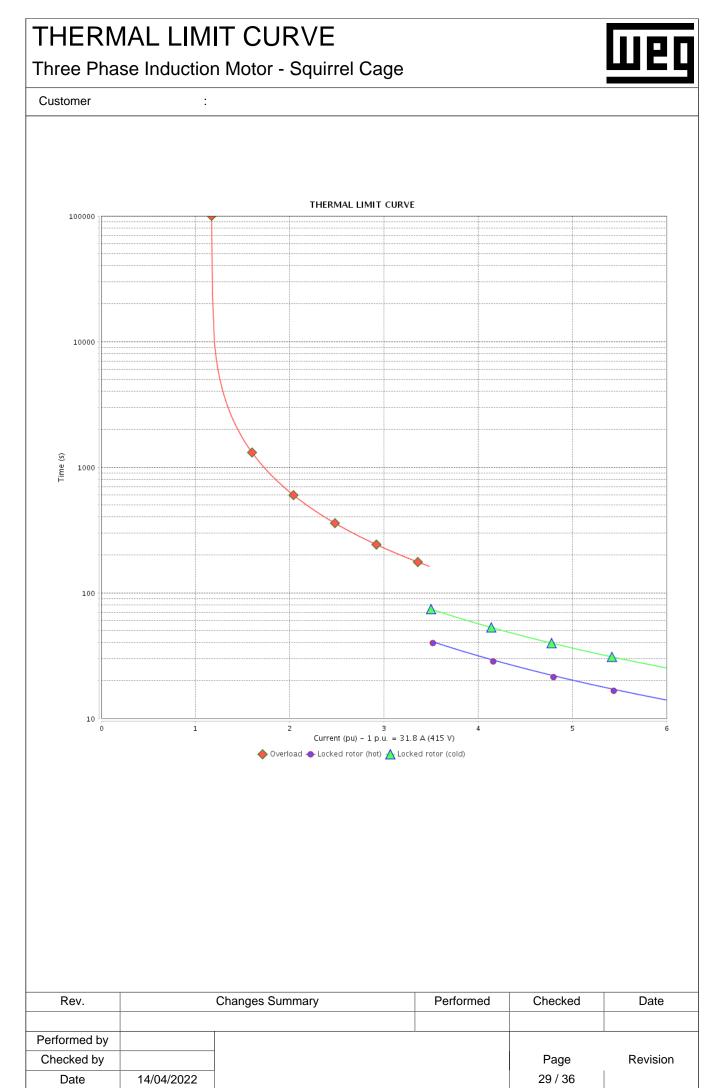
THERMAL L	IMIT CURVE		шед
Three Phase Induc	ction Motor - Squirrel Cage	)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714
	T HOUS	Catalog # :	02536ET3E284JM-W22

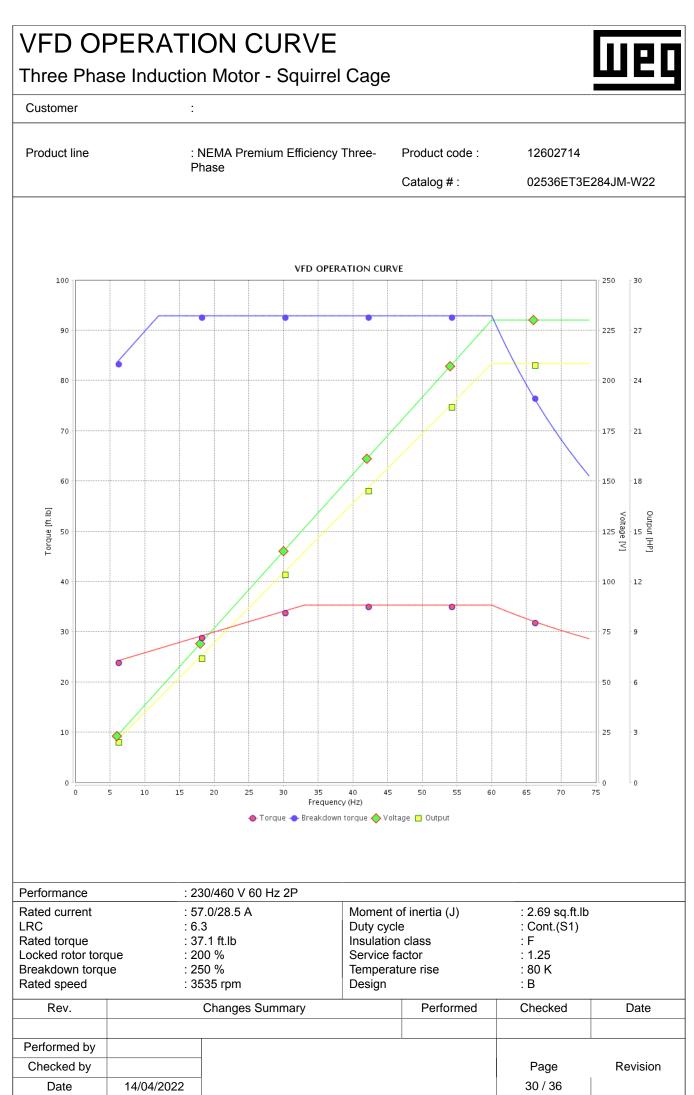
Performance	: 4	400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		33.3 A 5.5 45.0 ft.lb 180 % 220 % 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
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Rev. Changes Summary		Changes Summary		Performed	Checked	Date
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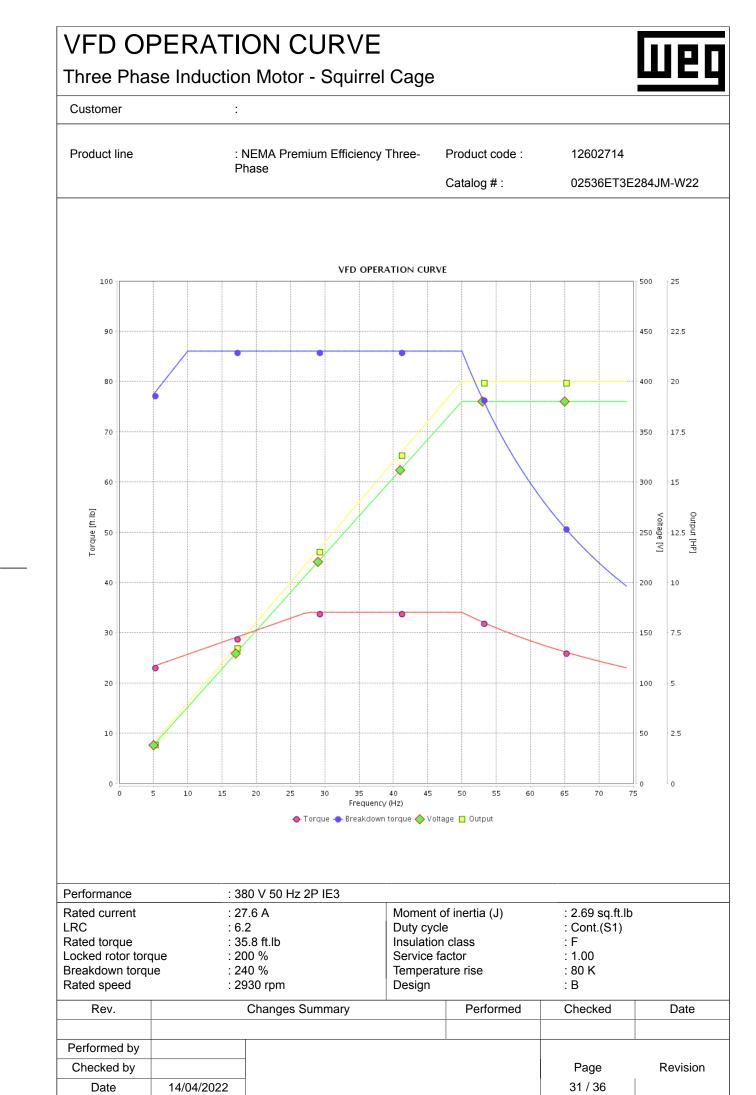


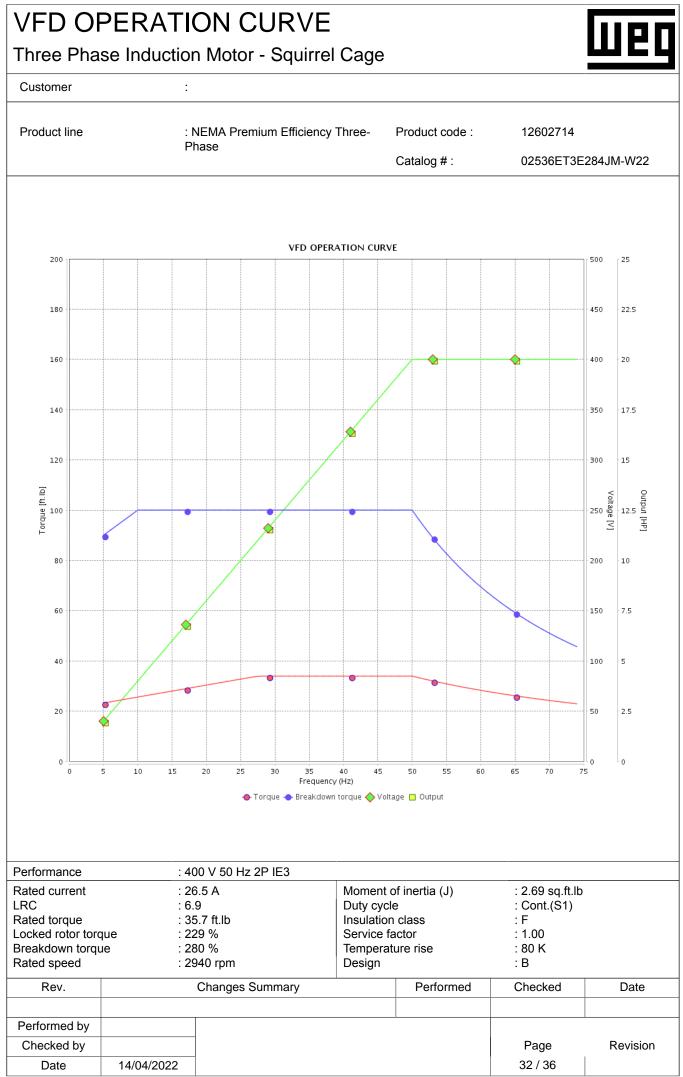
THERMAL LIMIT CURVE				
Three Phase Ind	uction Motor - Squirrel Cage	9		
Customer	:			
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12602714	
	Theor	Catalog # :	02536ET3E284JM-W22	

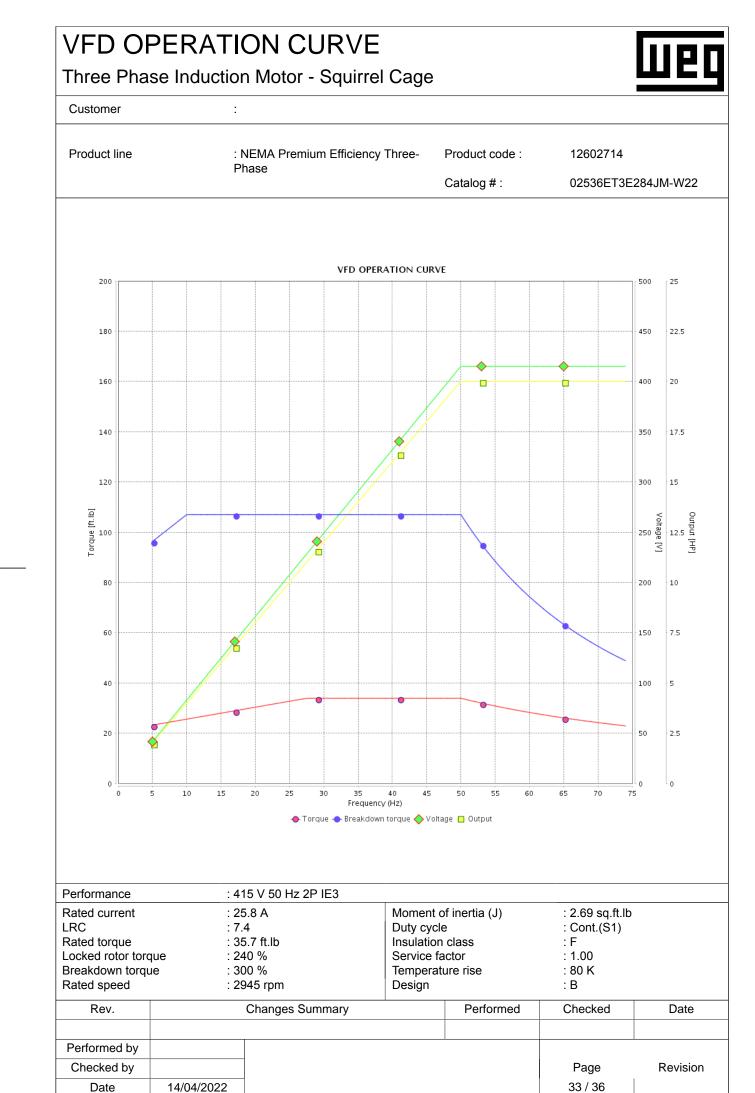
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 31.8 A : 6.0 : 44.7 ft.lb : 190 % : 240 % : 2935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
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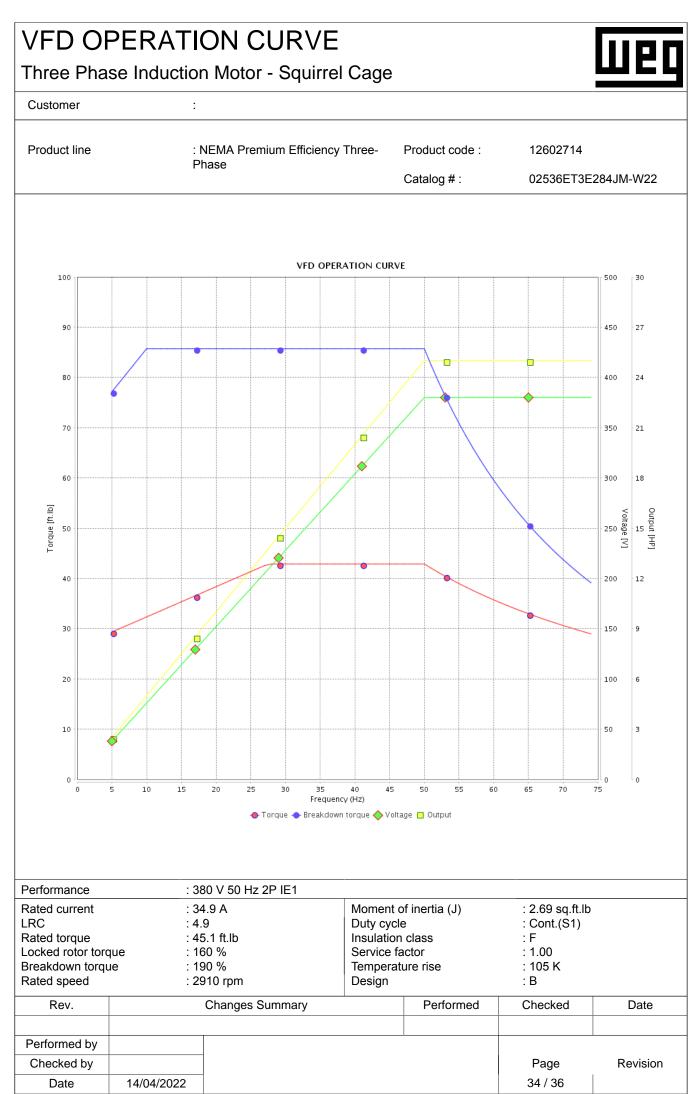


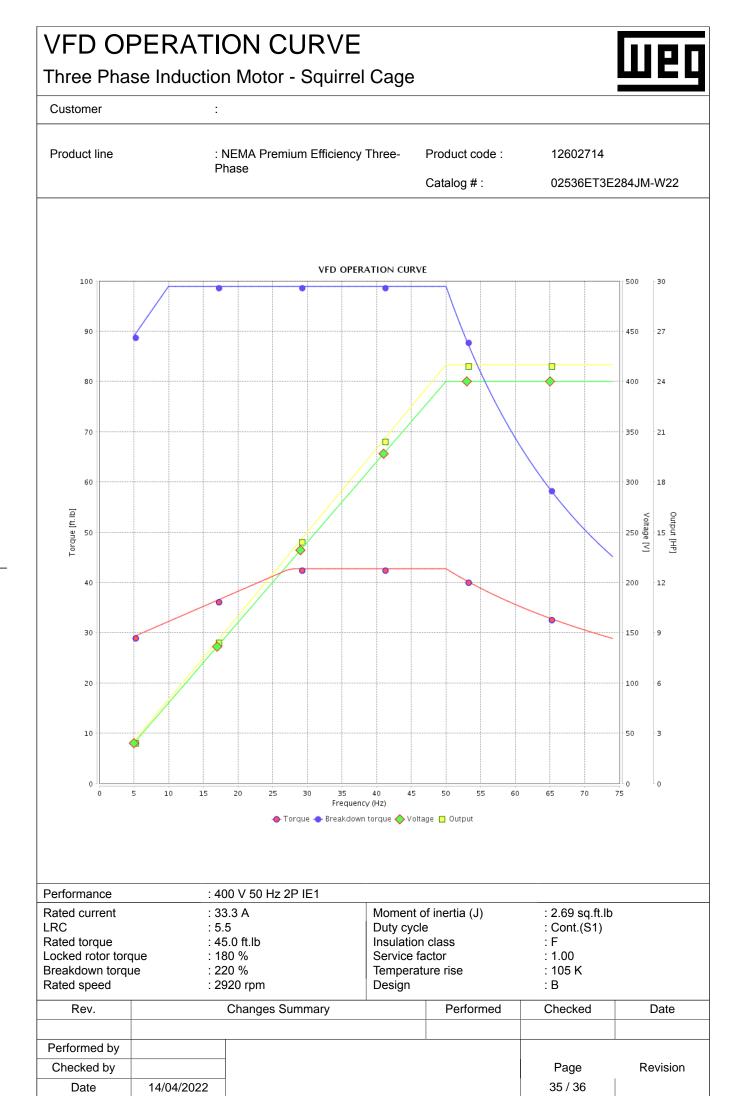


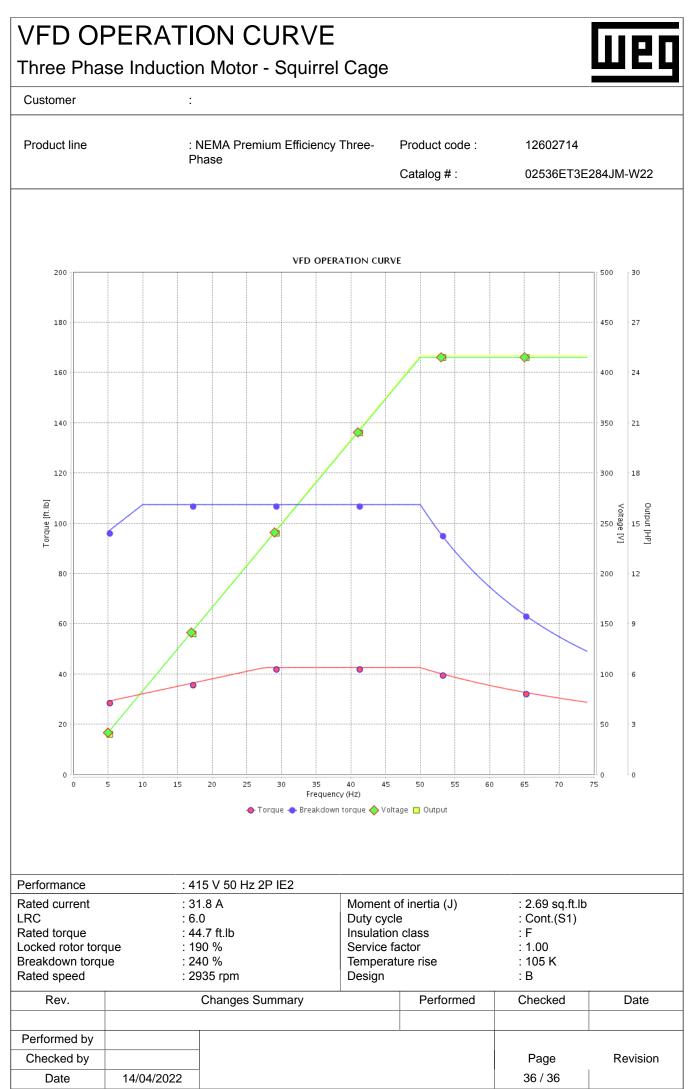


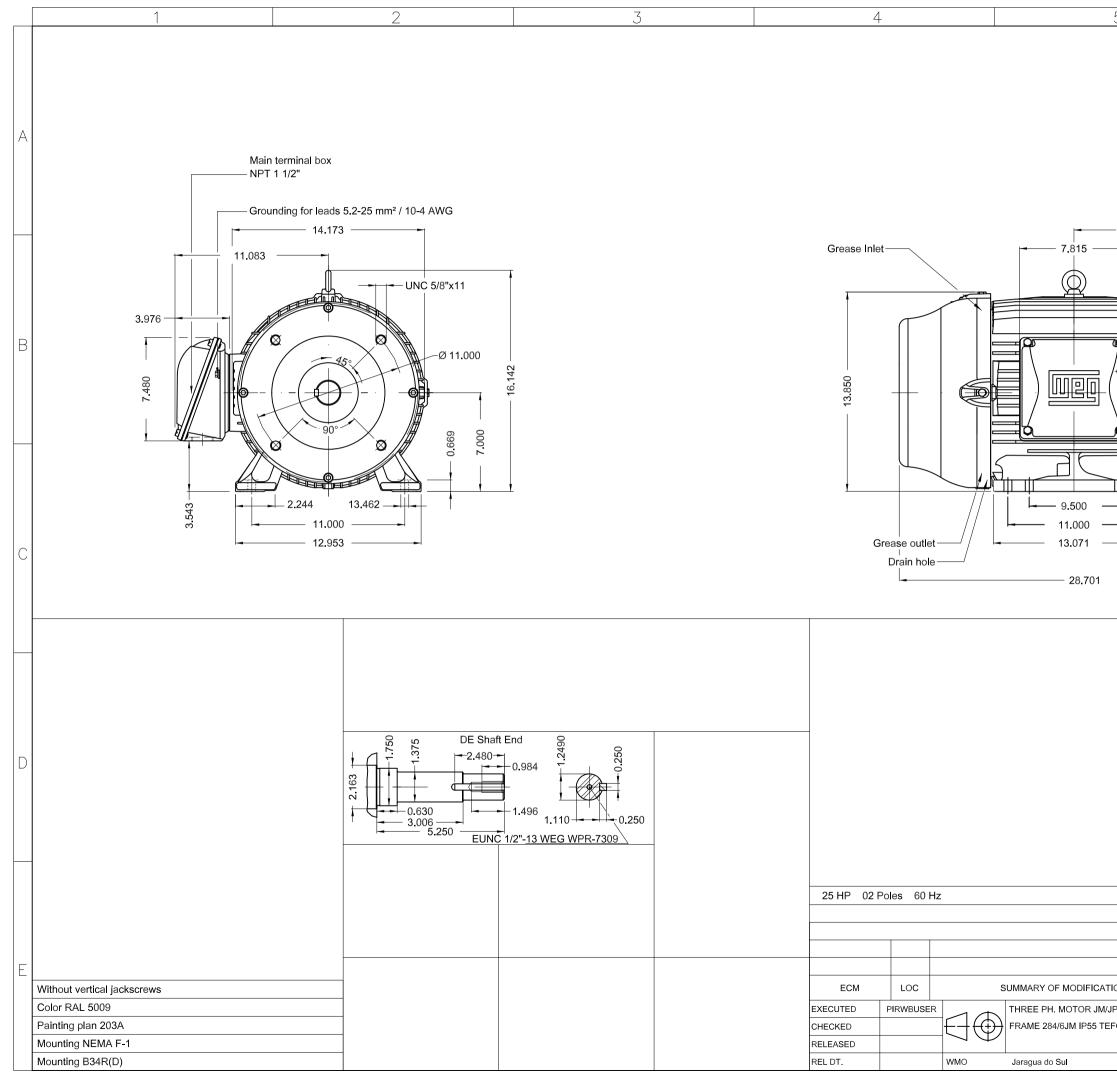












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	CCC029A CTANUM Inverter Duty Motor Severe Duty	CUUS USTED FOR SAFE AREA WOD.TE1BFOXON	For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3 Class I, Zone 2, IIC - T3 Class II, Div 2, Gr. F and G - T4 US Emery Werfine VT 1000:1, CT 20:1, 1.0SF, T3A
MODEL 02536ET3E284JM-W22 MADE IN BRAZIL 12602714	PH 3         FR         284/6JM         HP(kW)         25.0           V         230/460         A         57.6/28.8           NEMA NOM EFF         91.7         %         INS. 0           ENCL TEFC         DUTY         CONT.	RPM         3545         DES         B           CL. F △T         80 K         IP55           AMB. 40°C         72.0/36.0           SFA         69.3	$\begin{array}{c c c c c c c c c c c c c c c c c c c $