DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi	ciency T	Three- Pro	oduct code :	143430	86
		Phase		Ca	atalog # :	00118XT3E143TC	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 69.9 lb : 0.0975 sq.ft.lb	
Output [HP]		: B		1	1		1
Poles		4		4	4		4
Frequency [Hz]		60		50	5		50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		2.86/1.43		1.68	1.0	-	1.59
. R. Amperes [A]		24.6/12.3		11.3	12		12.6
_RC [A]		8.6x(Code M)	6.	7x(Code J)	7.4x(C		7.9x(Code L)
No load current [A]	1.87/0.935		0.924	0.9		1.06
Rated speed [RPN		1760	1	1440	14		1450
Slip [%]	-	2.22	1	4.00	3.3		3.33
Rated torque [ft.lb]	1	2.99	1	3.63	3.0		3.61
Locked rotor torqu		290	1	220	25		280
Breakdown torque		370		250	28		310
Service factor		1.15			1.0		1.00
Temperature rise		80 K			80		80 K
Locked rotor time		32s (cold) 18s (hot)	80 K 36s (cold) 20s (h				36s (cold) 20s (hot)
Noise level ²		51.0 dB(A)	49.0 dB(A)		49.0 0		49.0 dB(A)
	25%	77.3		81.2	80		78.4
	50%	80.0		81.5	81		80.0
Efficiency (%)	75%	82.5	1	82.5	82		82.5
	100%	85.5	82.5		82		84.0
	25%	0.32	1	0.37	0.3		0.32
Devier Fester	50%	0.57		0.65	0.6		0.58
Power Factor	75%	0.70		0.77	0.7		0.72
	100%	0.77		0.82	0.8	30	0.78
Bearing type Sealing Lubrication interval Lubricant amount		: 6205 2RS 620			on	: 63 lb : 132 lb	
Lubricant type		: Mobil Polyrex I	ΞM				
Notes USABLE @208V	3.16A SF 1.	15 SFA 3.64A					
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, w e shaft end. olerance of +3dB(A). ct to changes after	hich				ts with sinusoidal stipulated in NEMA
Rev.		Changes Summary	/		Performed	Checked	Date
Dorformed by							
Performed by						_	_
Checked by						Page	Revision
Date	11/04/202	2				1 / 22	
This day	umont is avai	isive property of WEG S/A	Doprinti	na io not ollow	ad without written	outhorization of	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

-	· ·· ··	Thermal protection			
ID	Application	Туре	Quantity	Sensing Te	
1	Winding	Thermostat - 2 wires	1 x Phase	15:	5°C
Rev.	Chan	ges Summary	Performed	Checked	Date
rformed by					

TORQUE AND CURRENT VS SPEED CURVE

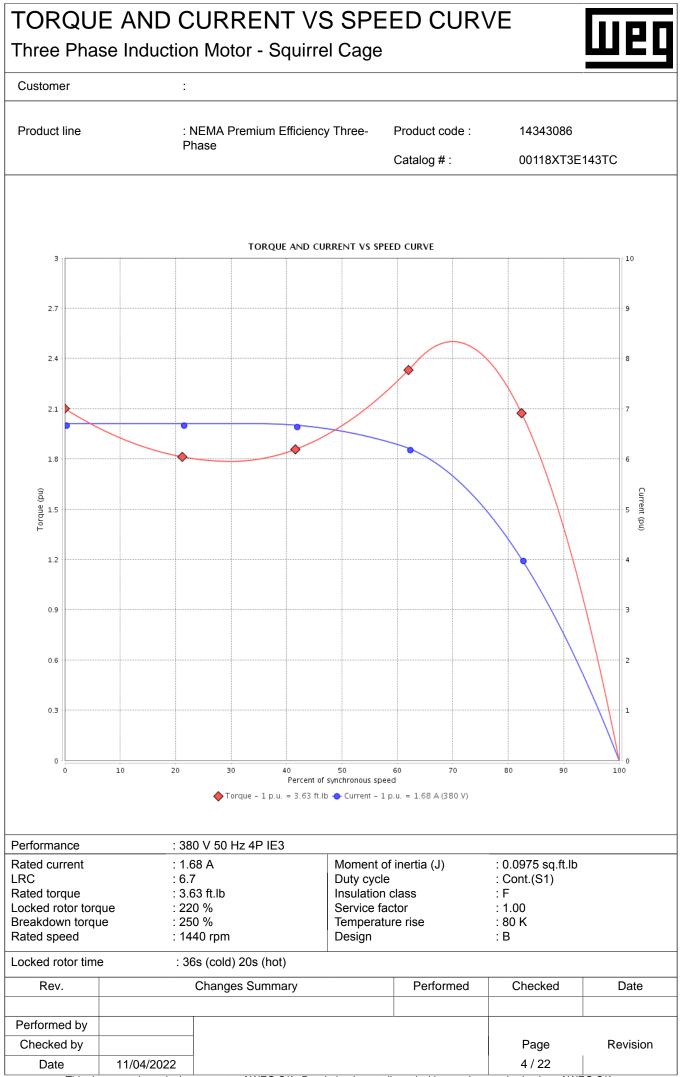
Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	14343086	
	1 11035		Catalog # :	00118XT3E1	43TC
5	TORQUE AND CUR				
4.5	•				
4					8
3.5					7
3					6
(n d)					Curre
(nd) and 2.5					Current (pu)
2					4
1.5					3
1					2
0.5					1
0.5					
0					
0 10	20 30 40 Percent of s ♦Torque - 1 p.u. = 2.99 ft.lb	50 ynchronous spe		80 90	100
	▼ Forque - 1 p.u 2.33 It.ID	🚽 can cht - 1			
Performance	: 230/460 V 60 Hz 4P			-	
Rated current RC	: 2.86/1.43 A : 8.6	Duty cycle		: 0.0975 sq.ft.lb : Cont.(S1)	
Rated torque .ocked rotor torque	: 2.99 ft.lb : 290 %	Insulation Service fa		: F : 1.15	
Breakdown torque Rated speed	: 370 % : 1760 rpm	Temperat Design		: 80 K : B	
ocked rotor time	: 32s (cold) 18s (hot)				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date 11/	04/2022			3/22	



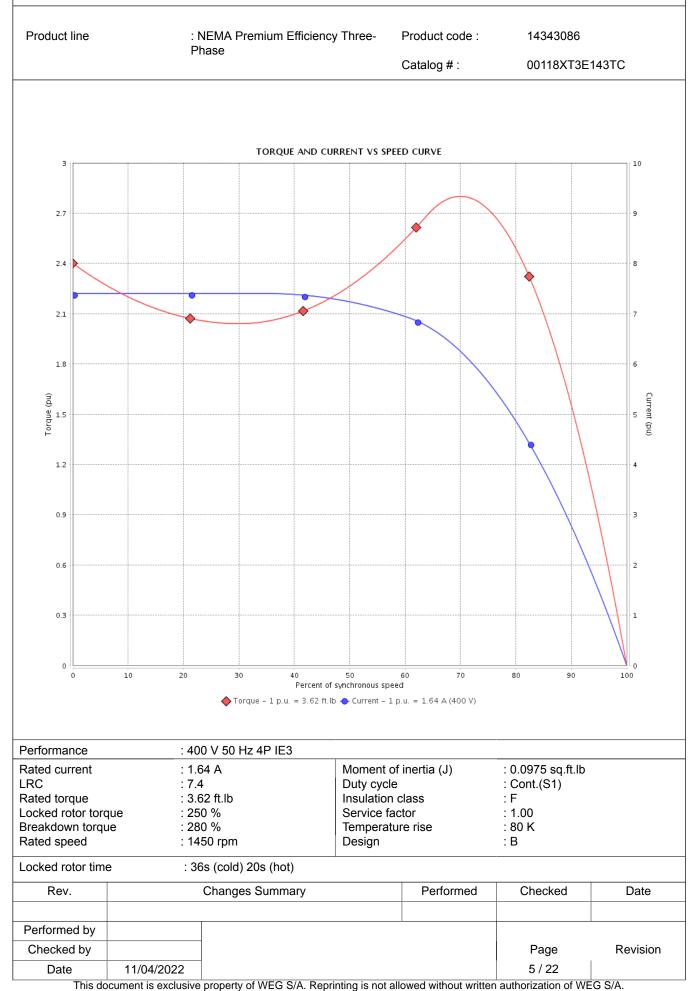
TORQUE AND CURRENT VS SPEED CURVE

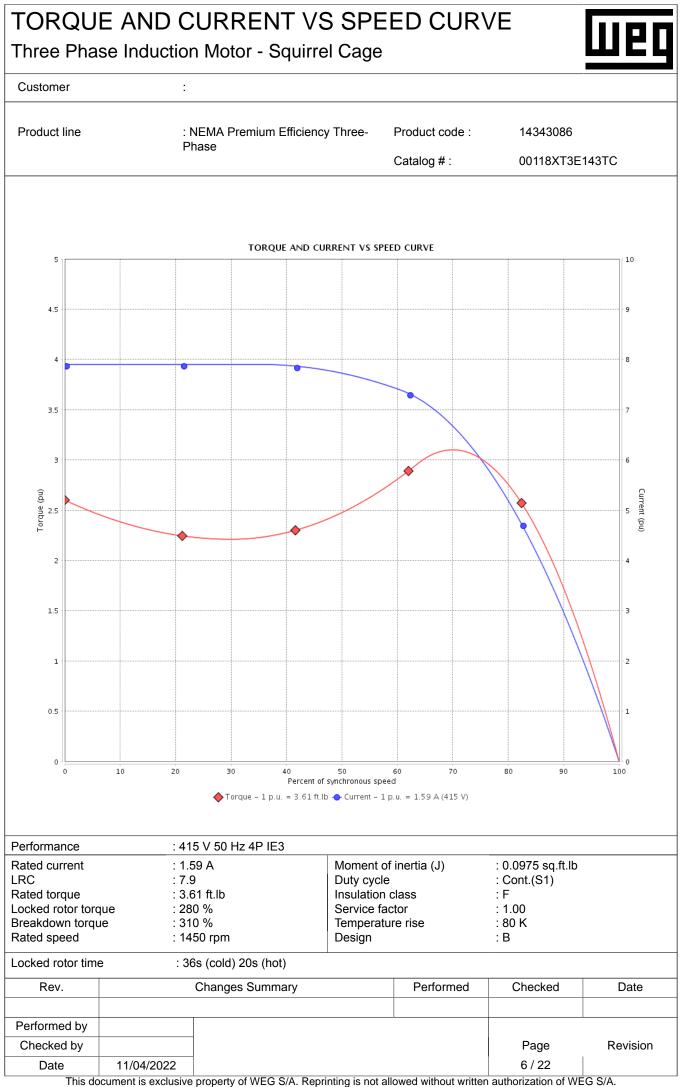
Three Phase Induction Motor - Squirrel Cage

:



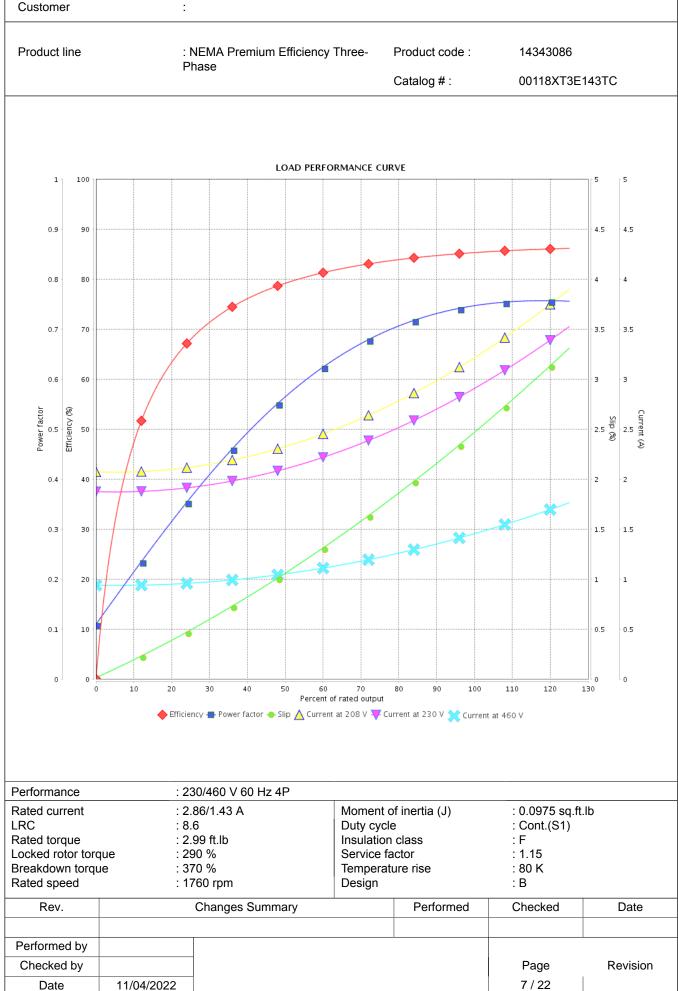






Three Phase Induction Motor - Squirrel Cage

Customer



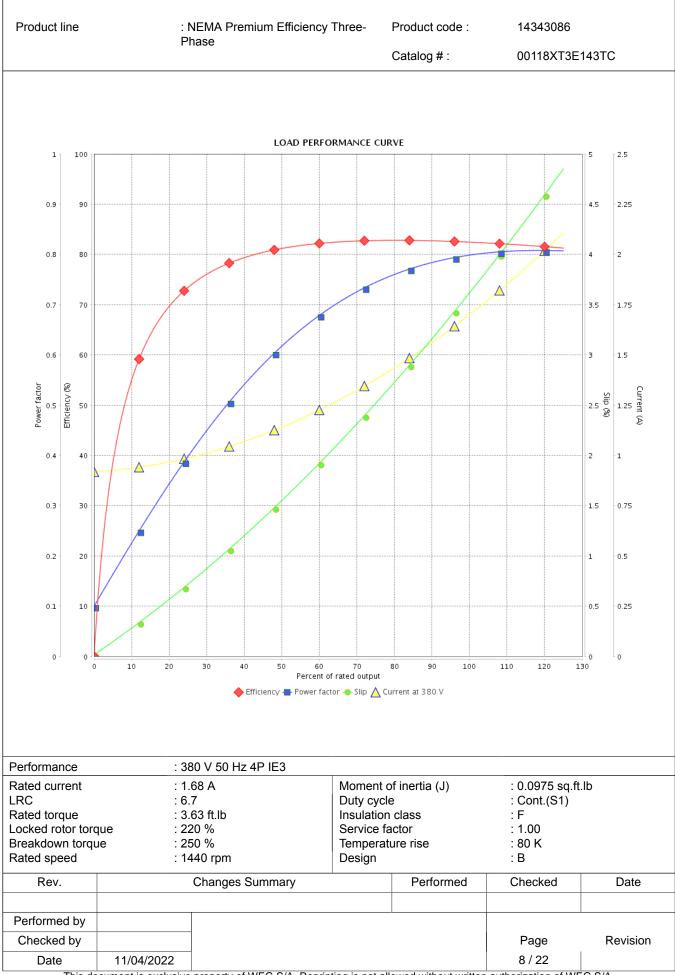
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

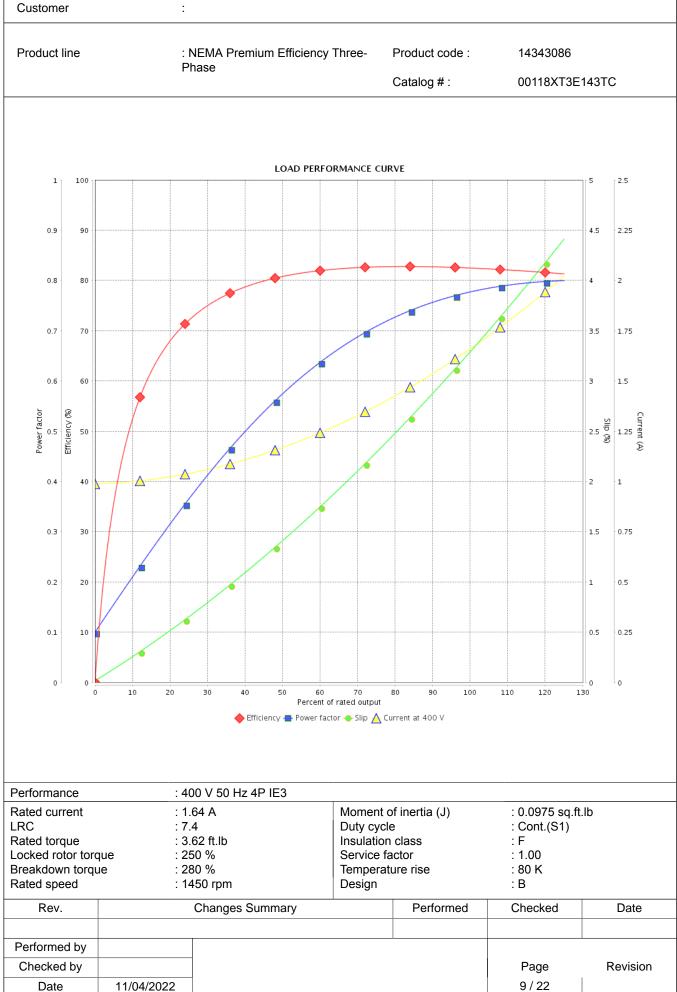


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



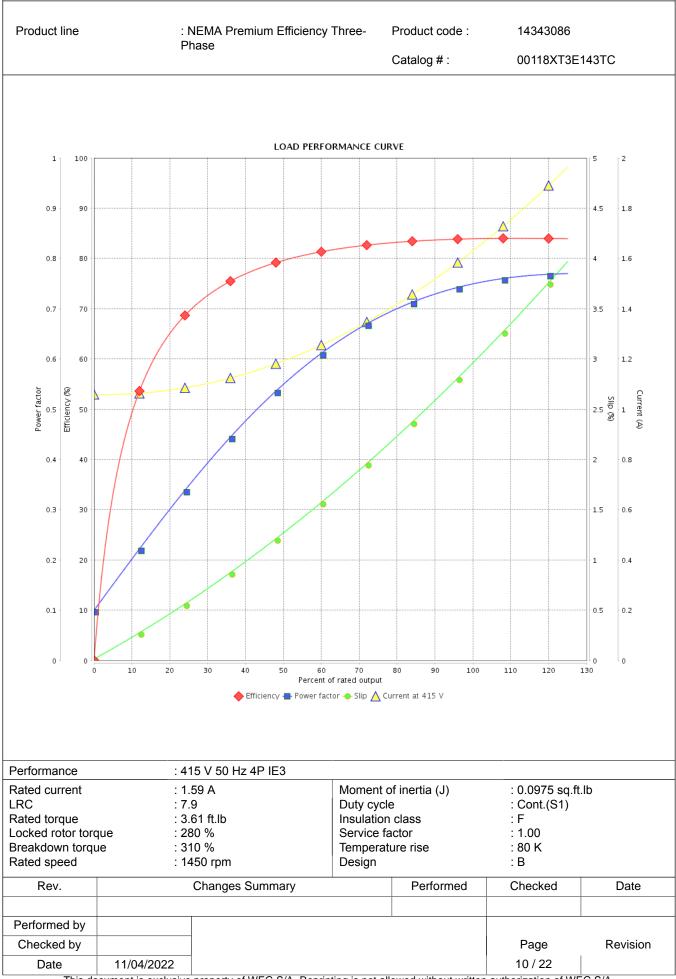
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



Customer



:

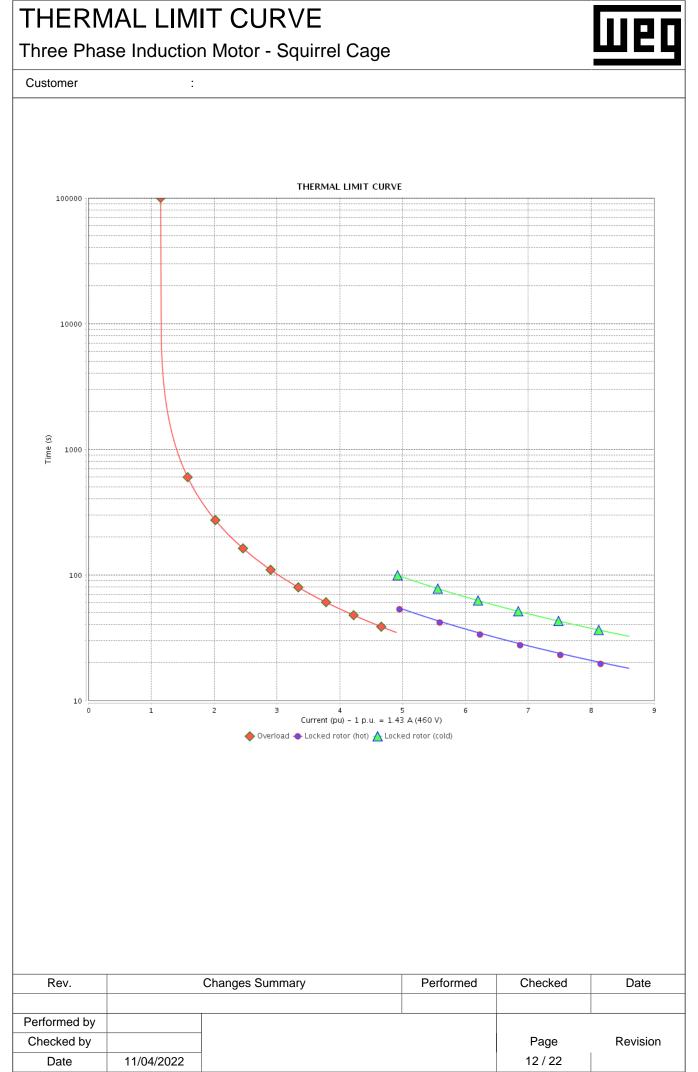
Three Phase Induction Motor - Squirrel Cage

Customer

Phase Catalog # : 00118XT3E143TC	

Шеq

Performance		: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	jue :	2.86/1.43 A 8.6 2.99 ft.lb 290 % 370 % 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0975 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant						
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				11 / 22	
This do	cument is exclus	vive property of WEG S/A. Reprin Subject to cha	nting is not allo ange without n		authorization of WE	G S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

:

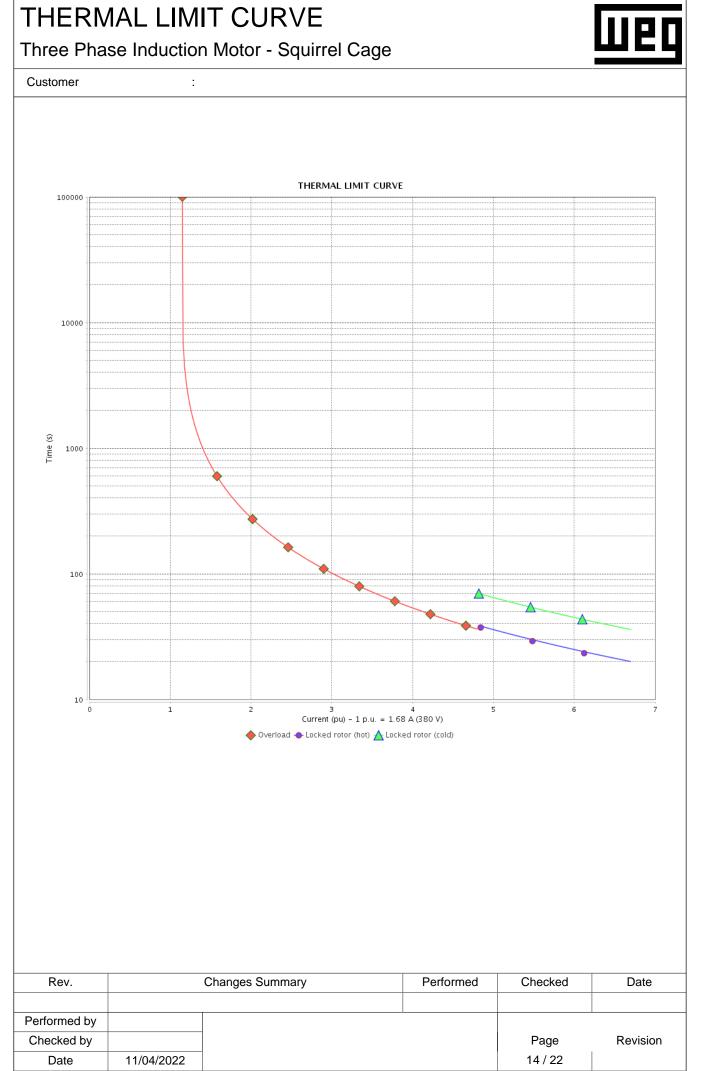
Three Phase Induction Motor - Squirrel Cage

Customer

Diana	ode : 14343086
Phase Catalog #	: 00118XT3E143TC

Шед

Performance	: 38	80 V 50 Hz 4P IE3					
	IRC: 6.7Rated torque: 3.63 ft.lbLocked rotor torque: 220 %Breakdown torque: 250 %		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0975 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant	t						
Cooling constant							
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	11/04/2022				13 / 22		
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.							



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

:

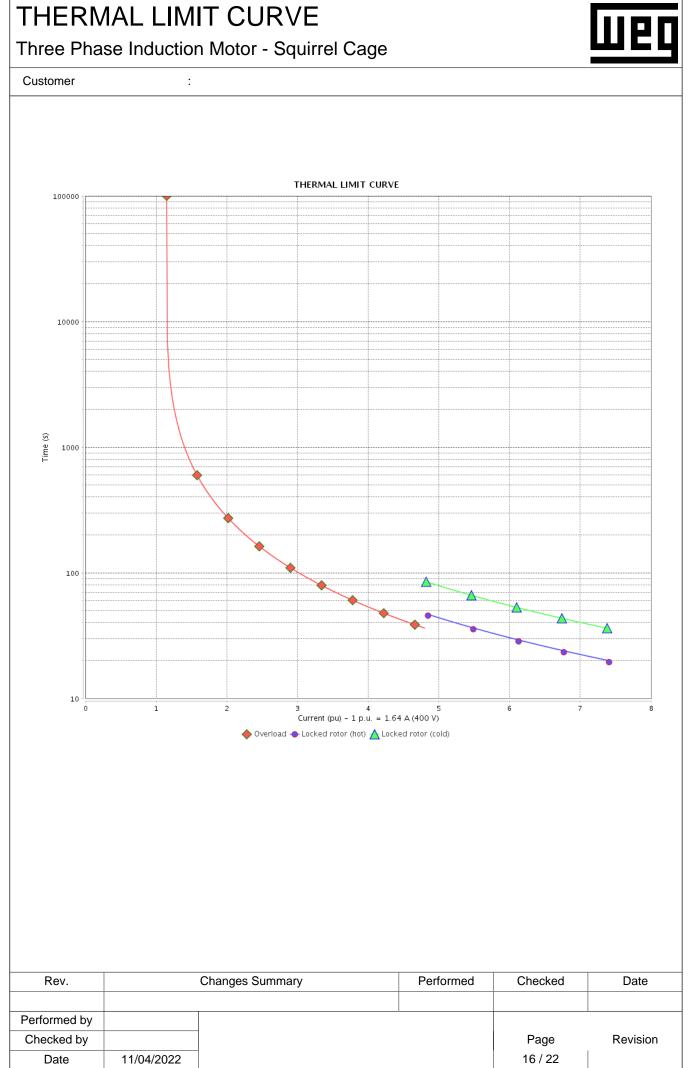
Three Phase Induction Motor - Squirrel Cage

Customer

Product line : NEMA Premium Efficiency Three-		
Phase	Catalog # :	00118XT3E143TC

Шеq

Performance	rmance : 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7.4Duty cyclee: 3.62 ft.lbInsulationr torque: 250 %Service fatorque: 280 %Temperatud: 1450 rpmDesign		class ctor	: 0.0975 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb	
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022	2			15 / 22	
This do	cument is exclus	sive property of WEG S/A. Reprir Subject to cha	-		authorization of WE	G S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

:

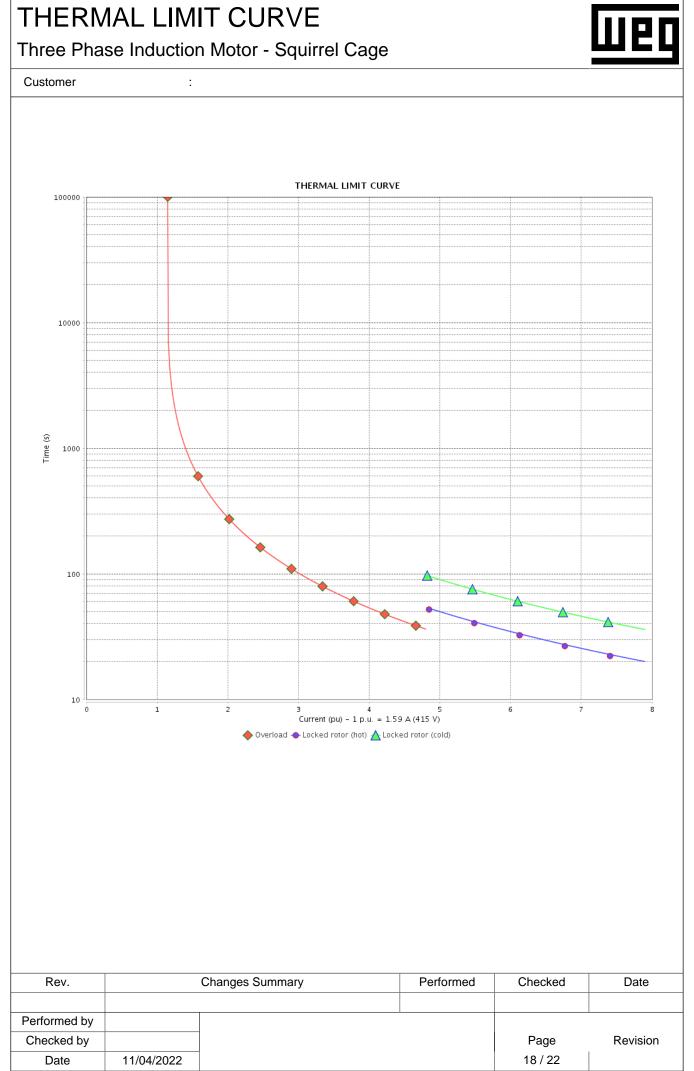
Three Phase Induction Motor - Squirrel Cage

Customer

Catalog # : 00118XT3E143TC	Product line	: NEMA Premium Efficiency Three-	Product code :	14343086
		Phase	Catalog # :	00118XT3E143TC

шеq

Performance	: 4	15 V 50 Hz 4P IE3				
Rated current: 1.59 ALRC: 7.9Rated torque: 3.61 ft.lbLocked rotor torque: 280 %Breakdown torque: 310 %Rated speed: 1450 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0975 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant	t					
Cooling constant	t					
Rev.	Changes Summary		·	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				17 / 22	

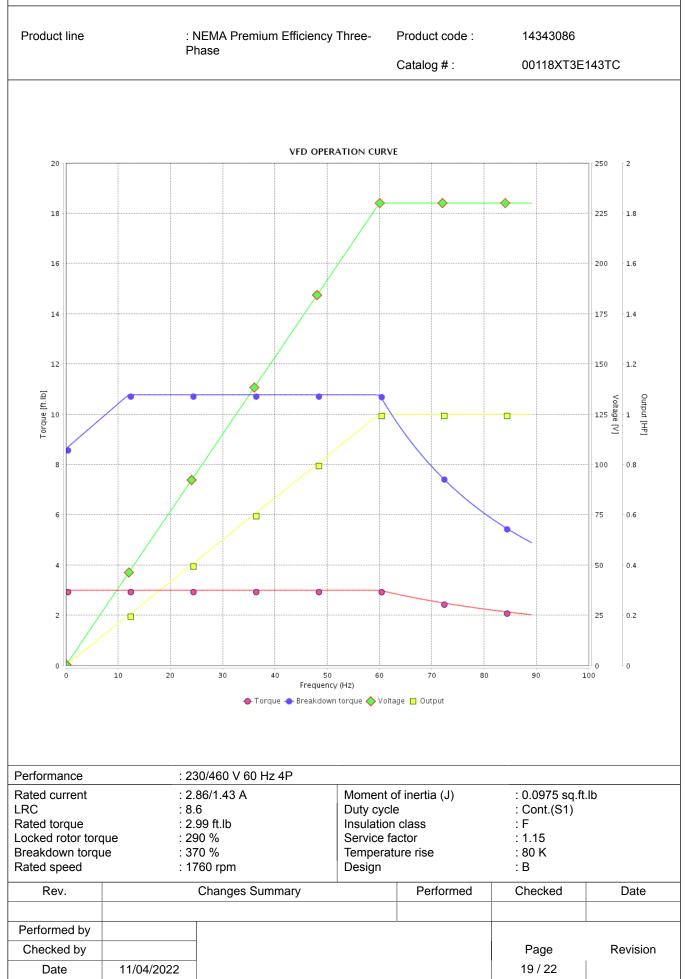


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

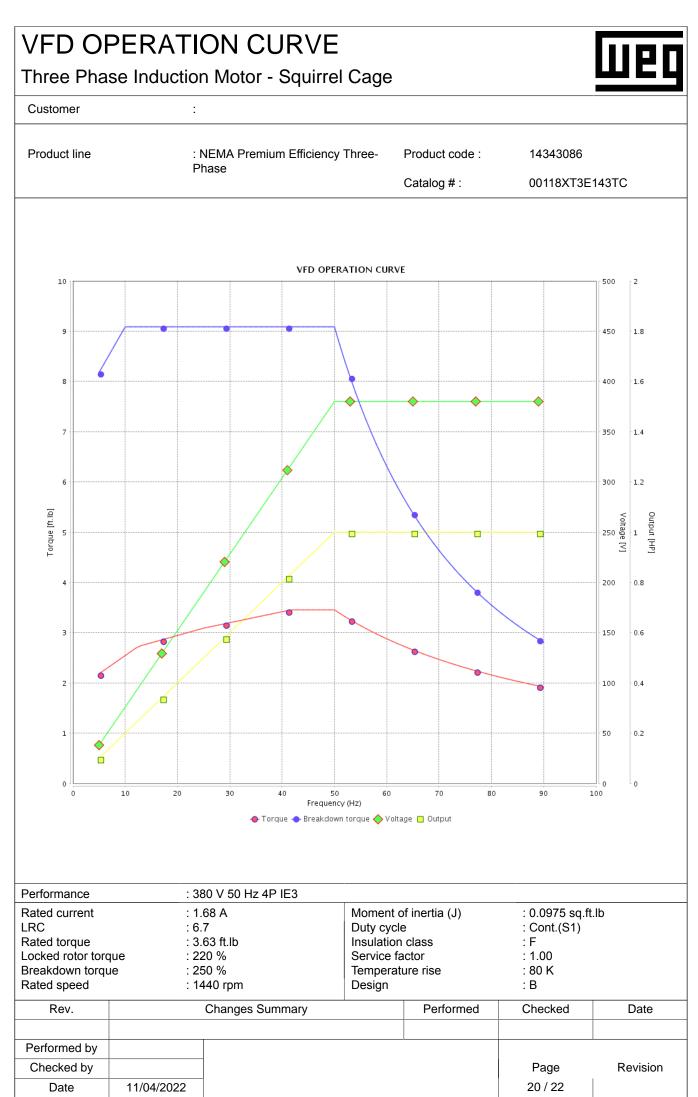


:

Customer



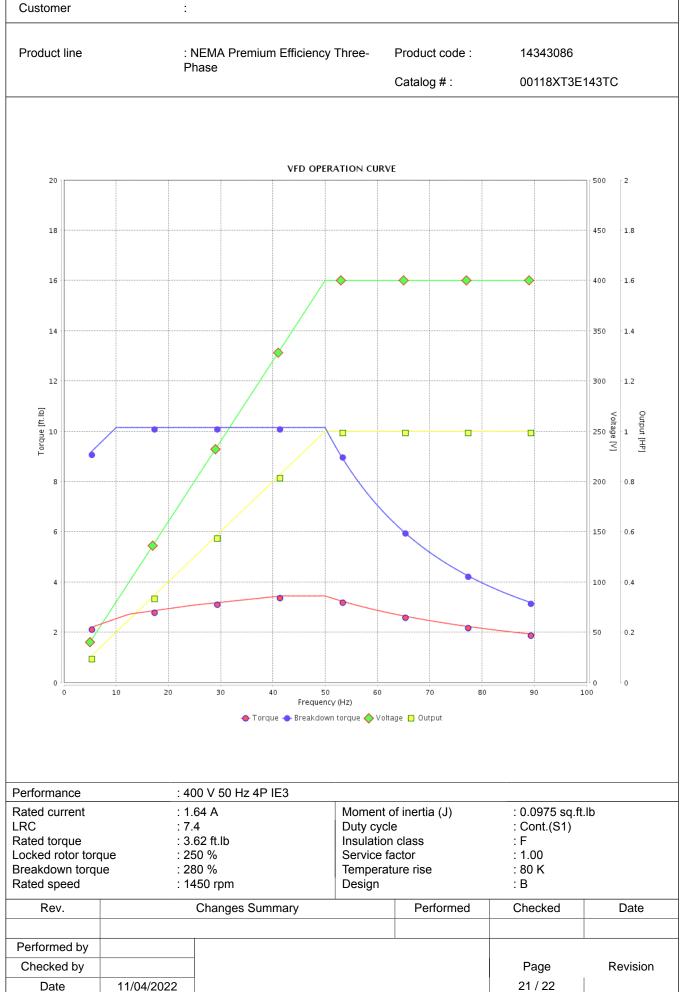
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



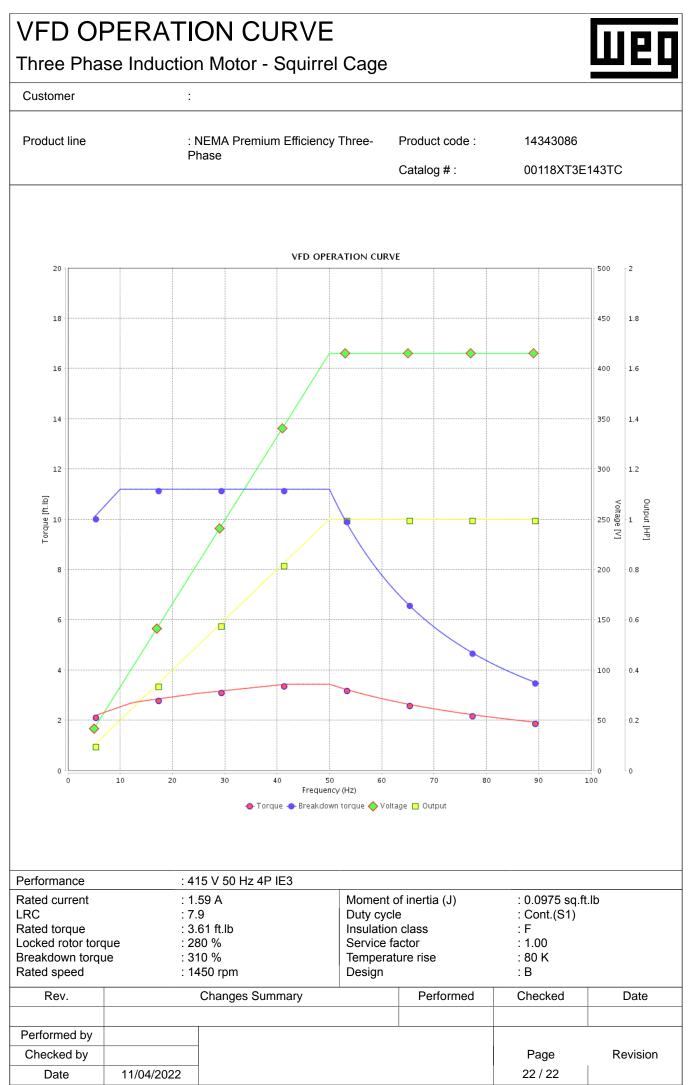
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

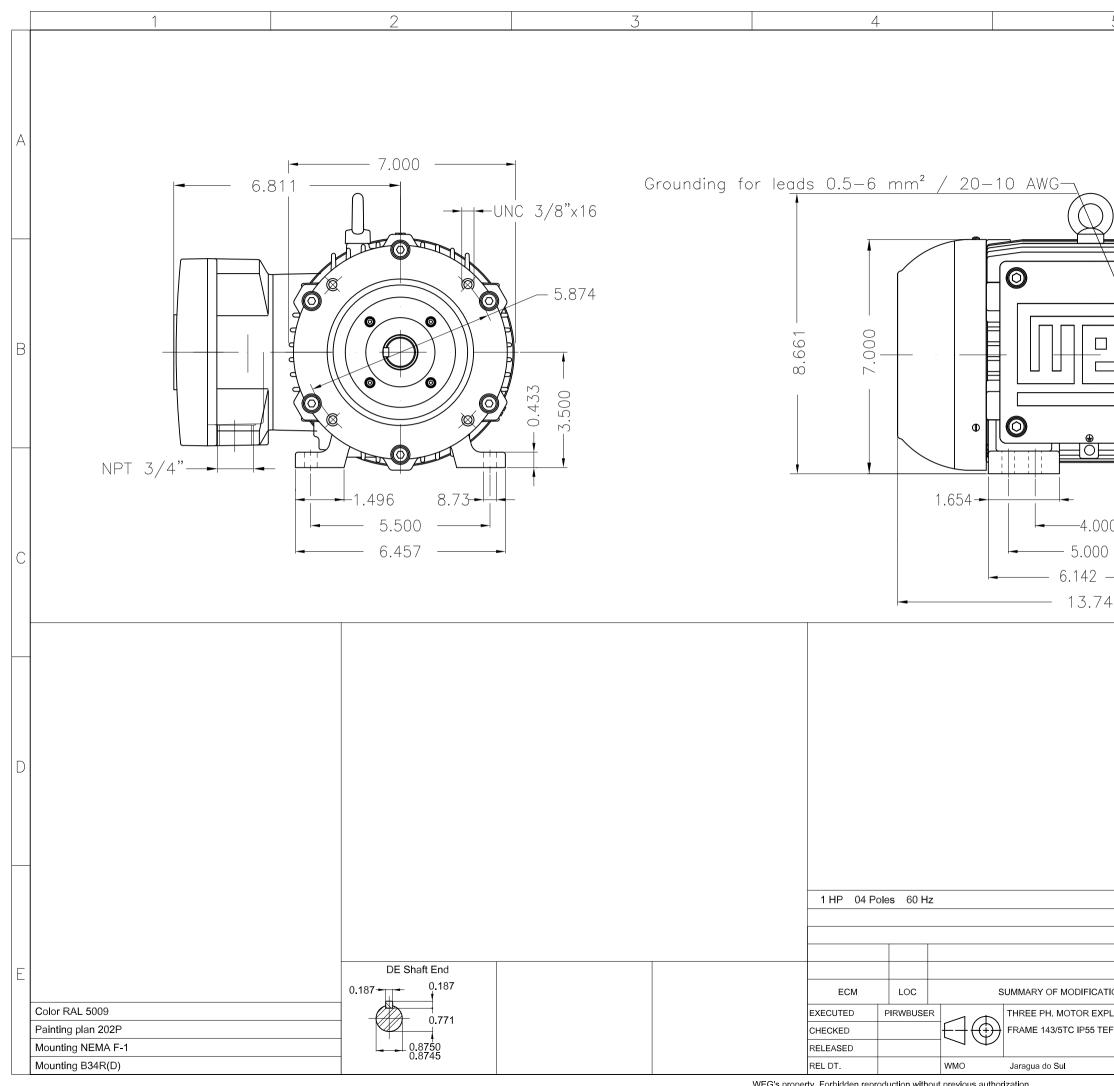
Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



WEG's property. Forbidden reproduction without previous authorization.

5			6		
			1 - 1 [°]		
)	Sin	<u>ger (</u> Ro	otating	Seal)	
		1	_		
		-1.575		- 0(
				6.500	
				Ø	
			Y	Ļ	
		←0.157			
0.571 - - 0	2.250-	—2.125 - — 2.250 -			
10					
					inches
					Dimensions in inches
					Ĩ
					A
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
LOSION PROOF PRE FC	EM. EFF.	PREVI	EW	ШР	A3
Product	t Engineering	SHEET	1 / 1		XME

