

目录

1

S120 授相	叉	3
1.1	S120 系统中有哪些常见的授权	3
1.2	购买授权证书后,如何生成授权密钥(License Key)	3
1.3	存储卡中的授权丢失或忘记授权密钥(License key)该如何找回	6
1.4	生成或找回授权密钥(License Key)后,如何写入存储卡中	7

1 S120 授权

1.1 S120 系统中有哪些常见的授权

目前,S120在用到以下功能的时候需要授权密钥(License Key):

- Performance expansion
 - 轴性能扩展授权,缺少该授权,CU320-2 最多只能带 3 个伺服轴
- Safety extended function
 - 扩展安全授权,缺少该授权,无法使用 S120 扩展安全功能
- High output frequency
 - 高输出频率授权,用来激活一张 CF 卡上所有轴输出频率可以超过 550Hz
- Cogging torque compensation
 - 齿槽转矩补偿授权,用来在低转速时补偿电机齿槽转矩
- Advanced Position Control (APC)
 - 高级位置控制授权,用来通过电机侧和负载侧的状态变量,缓冲负载振动的
 选件

当系统中缺少授权时,驱动器的 RDY-LED 以 2 Hz 的频率进行红色闪烁,同时伴随 F13000 许可不充分故障显示。

有两种方式可以实现以上授权的订购:

- 1. 直接订购带授权的 CF 卡 (附带授权证书, License Key 已被写入 CF 卡)
- 单独订购授权证书,根据授权证书号上网获得授权密钥(License Key)后写入 S120的 CF 卡中

当授权密钥(License Key)被写入 CF 卡后,保存在 CF 卡的 KEYS 文件夹中,该 授权密钥与 CF 卡的序列号(Serial No.)已完成绑定,因此无法将授权再转移到另 一张 CF 卡中。

1.2 购买授权证书后,如何生成授权密钥(License Key)

如果直接订购带授权的 CF 卡,授权密钥在出厂时已经导入 CF 卡并与 CF 卡完成绑定。

1. 打开网址 http://www.siemens.com/automation/license, 点击 Direct Access

图 1-1 点击直接访问

User menu	Home
Direct access Direct access with barcode Customer login Display license key Manage license pool	Welcome to the Web License Manager of Siemens DF MCI The Web License Manager allows you to assign your software licenses online to a target system. You can assign several licenses at the same time. You will obtain a license key which you must target system. Before you can assign your software licenses, your must register using one of the following options: Direct access This access allows you to assign all licenses which are included in the delivery.
	Exect access (barcode scanner). This access has been optimized for operating a barcode scanner. Thus, you can assign all Certificates of License which have been acquired using a barcode scanner.
	Used the customer login to assign all licenses which you have obtained so far.

输入授权证书上的授权证书号(License-No.)和发货单号(Dispatch note No.),点击"Next"。

图 1-2 输入授权证书号和发货单号

Login Identify product Select licenses Assign licenses Generate license	e key
ease enter a license number that you want to assign, as well as the number of the associated delivery note. u will find this information on your Certificate of License, as shown below.	
cense number T-H7IG09375 umber of delivery note 95525216	A DATA DE LA COMUNICACIÓN DE LA
	certificate

3. 输入 CF 卡的硬件序列号,并选择产品类型,使授权与 CF 卡进行绑定,完成后 点击"Next"。

图 1-3 输入 CF 卡硬件序列号

Direct access	CF-Card for S120
Login Identify product Select licenses Assign licenses Generate license key	SIEMENS Convertable Convertable
Product SINAMICS S CU3xx V	Ser. No. T-D9U05943 24.09.2013 04.06.00.08 Disp. Note No. 25180631
For the SINUMERIK product, you have also the possibility to determine the serial number of the hardware from a file:: ath to the keys.txt respectively".alm file	SD-Card for S210 / G12
Alm file Durchsuchen	SINAMICS SIL3054-A400-2A40 SD-ced 512M8 empty 00 00 00 11 25197875 SW-NL - E. D. D. BC 00102 HW-NL - L2082013810055

- 如果已经为该存储卡分配过授权,则会在以下界面中进行显示,不需要再重复分配,若未曾分配,则显示还未对该硬件分配授权(No licenses have been assigned to the hardware yet),此时点击"Next"。
- 图 1-4 查看授权状态

	Login Identify product Select licenses Assign licenses Generate license key	
he following licenses	have been assigned to the hardware.	
Product name:	SINAMICS S CU3xx	
Hardware serial numbe	er: 110820A5	
Machine identifier:		
lo licenses have been a	assigned to the hardware yet.	
Next		
HCAL		

- 5. 在本发货单号下的所有授权都会在以下界面中进行显示(本例中包含了三个授权),从中选择需要分配给当前 CF 卡的授权,选择后点击"Next"。本例中三个授权的类型相同(均为扩展安全授权),当包含多个类型的授权的时候,也可以在本界面中统一进行选择。
- 图 1-5 分配授权

	Login Ider	ntify product	Select licenses	Assign lice	nses Generate lice	ense key
elect the licenses that you want roduct name: SINAMICS	to assign. S S CU3xx	0		0		
lardware serial no.: 110820A5 lachine identifier: 🕕	2					
lardware serial no.: 110820A5 Nachine identifier: ① Current license key <u>Product</u>	9	Quantity	<u>Max quantity</u>	Box	License number	Next

- 6. 在下方界面中可以对已选择分配的授权进行总览,确认无误后,点击"Assign"按 钮将授权永久性的分配给当前的存储卡。如果需要,可以点击"CSV export"将产 品描述和授权证书号导出并保存到本地。
- 图 1-6 确认授权

the product. If you	censes As	sign licenses • hese licenses	Generate lice	nse key	
the product. If you	continue,	hese licenses			
			will be assigne	ed.	
Liconso No					
T-H7IG09375					
1-1					
	License No. T-H7IG09375 1 - 1	License No. T-H7/G09375 1 - 1	License No. T-H7IG09375	License No. T-H7IG09375	License No. T-H7IG09375

7. 至此,授权密钥就生成了,可以选择多种格式对授权密钥进行保存。

图 1-7 生成授权密钥

User menu	Direct access			
 Direct access Direct access with barcode Customer login Display license key Manage license pool 	A license key has been The name of the license k FSXX.LAKP.LA Enter the license key on y The license key can be to Save the license key Save the license key Save the license key The license key	Login Identi denerated on the basis of ey is: our target system. itored in a file: n SIN++SINAMICS S CU3 keys.txt in PDF format assigned to the hardware	Ity product Select licenses Assign licenses Ger	
	Assignment date	Order No. (MLFB)	Product	Licenses
	03-NOV-16	6SL3074-0AA10-0AA0	SINAMICS Safety Integrated Extended Functions	T-H7IG09375
	CSV export			1-1

存储卡中的授权丢失或忘记授权密钥(License key)该如 1.3 何找回

如果存储卡中的授权丢失(例如,在固件升级或清空存储卡时没有保存 KEYS 文件 夹中的内容)或忘记授权密钥,可以通过以下方式进行找回。

1. 打开网址 http://www.siemens.com/automation/license, 点击"Display license key"。

图 1-8 显示授权密钥

User menu	Home
Direct access Direct access with barcode Direct access with barcode Display license key manage nearce prov	Welcome to the Web License Manager of Siemens DF MCI The Web License Manager allows you to assign your software licenses online to a target system. You can assign several licenses at the same time. You will obtain a license key which you must tarsfer to your target system. Before you can assign your software licenses, you must register using one of the following options: Direct access: This access allows you to assign all licenses which are included in the delivery.
	Direct access (barcode scanner): This access has been optimized for operating a barcode scanner. Thus, you can assign all Certificates of License which have been acquired using a barcode scanner.
	Customer login: If you have a personal access, you can use the customer login to assign all licenses which you have obtained so far:

2. 在下方界面中,只需要根据存储卡上的铭牌,输入存储卡的硬件序列号

(Hardware serial number), 点击"Display license key"。

图 1-9 输入硬件序列号

Display license key			
This information function is use	d to display the lice	nse key generated last. Only if an assignme	ent has already been made can the license key be displayed.
Please fill in one of the two fields			Della sello se a
Hardware serial number	110820A5		CF-Card for S120
License no.			
Machine identifier			6SL3054-0EG00-1BA0-Z
Display license key Re	eset		Z=F01 SINAMICS S120 SW 4.6 HF8
		SD Cord for S210 / G120	HW Ser No 11082045
		SINAMICS	Ser. No. T-D9IJ05943
		6SL3054-4AG00-2AA0	24.09.2013
		00.00.00.01	04.06.00.08
		25197675	Disp. Note No. 25180631
		SW-N.: ST-DOBC00102	

- 3. 在以下界面中重新显示当前的授权密钥并可以选择多种方式对授权密钥进行保存。
- 图 1-10 显示授权信息

Only if an assignment has alre	ed to display the license key generated last. ady been made can the license key be displayed.
Please fill in one of the two field	s.
Hardware serial number	110820A5
License no.	
Machine identifier	
Display license key R	eset
License key: FSXX-LAKP-LA The license key can be stored • Save the license key in SIN • Save the license key in leve	in a file: +≤SINAMICS \$ CU3xx+110820A5+incl_kev.alm tot
License key: FSXX-LAKP-LA The license key can be stored Save the license key in SIN- Save the license key in keys Save the license report in Pl	in a file: +≤INAMICS S CU3xx+110820A5+incl_kev.alm LM DE format
License key: FSXX-LAKP-LA The license key can be stored Save the license key in SIN- Save the license key in keys Save the license report in PI Further, you can obtain a licen- Tearth editorse	in a file: ++SINAMICS S CU3xx+110820A5+incl_key.alm DEF format se report including a compilation of all assigned licenses via e-ma

- 1.4 生成或找回授权密钥(License Key)后,如何写入存储卡 中
 - 1. 方法一:通过 Starter 或 Scout 软件,驱动设备在线情况下向 CF 卡中写入授权:

图 1-11 Starter 软件写入授权

	t single drive unit		
8.44	Open HW configuration		
->	Cut		
	Сору		
·>	Paste		
1	Delete		
÷ 🗋	Rename		
÷	Compare		
⊕ C M	Diversity of the second s		
	Tarnat device		
	Load to file system		
	Expert +		
	Check consistency		
	Save and compile changes		
	Save and recompile all		
	Drive unit write protection		
	Drive unit know-how protection		
	Web server		
	Overview		
		Display/enter license key	
	Communication Communication STARTER/Startdrive	Display/enter license key Enter your assigned license key here	
->	Overview Communication Topology Licenses	Display/enter license key Enter your assigned license key here Custent license key:	

- 方法二:通过网络服务器的许可证一览页面可以查看当前的许可证密钥,并且视 需要输入新的许可证密钥。
 - a. 在导航中选择"系统>许可证",将显示许可证一览页面。

图 1-12 许可证

Overall License status: Under-licensed	Trial peri	od: Trial License Mode not active		Activate Trial License Mode
System reaction:License warning active	Memory card se numb	rial 000060055348A1000155	Сору	Show/enter License Key
Function demanding a license	Existing / requested licenses	Licensing state	Remaining operation time	Remarks
Performance Option more info	🗸 1 of 1	Single license	unlimited	
Extended Safety more info	0 of 4	No license	none	
Advanced Position Control (APC) more info	1 of 2	Insufficient single licenses	unlimited	Mismatch in License amounts
High Output frequency more info	12 of 1	Single license	unlimited	Mismatch in License amounts

b. 点击许可证一览页面下的按钮"显示/输入许可证密钥"。

在弹出对话框的上栏中能够看到驱动的当前许可证密钥(若已存在)。

图 1-13 显示/输入许可证

isplayieller incense key		
Enter your assigned license key here		
Current license key		
New license key	le le	
		 -

- c. 为了使用新的许可证密钥,将其输入"新的许可证密钥"一栏(示例: E1MQ-4BEA)。
- d. 点击"激活"按钮激活刚刚输入的许可证密钥。关闭对话框,新的许可证密钥 会在下一次启动时生效。

3. 方法三:通过 PC 直接写入 CF 卡

将 CF 卡插入电脑中,通过路径"CF 卡盘符/Keys/SINAMICS/KEYS.TXT"直接写入授 权密钥,如下图所示:

图 1-14 PC 写入 CF 卡

ne	Änderungsdatum	Тур	Größe
KEYS.TXT	02.12.2014 08:33	Textdokument	1 KB