

其他产品 / Further products

金米勒电气(上海)有限公司
上海市浦东新区浦东南路 855 号
世界广场 23CD 单元
邮编: 200120
电话: +86 21 5836 9078
传真: +86 21 6888 6978
http://www.jeanmueller.cn
e-mail: info@jeanmueller.cn

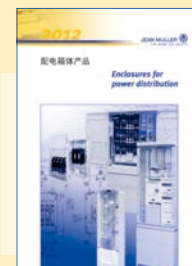
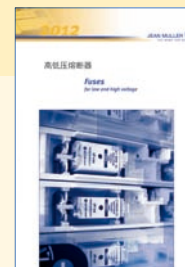


低压高分断配电系统产品 Current distribution components for NH systems

低压高分断条形熔断器底座 / NH strip-fuseways
低压高分断条形熔断器式隔离开关 / NH strip-type fuse-switch-disconnectors
低压高分断熔断器式隔离开关 / NH fuse-switch-disconnectors
C|O|S|I|M|O® / C|O|S|I|M|O®
端子 / Terminals

高低压熔断器 / Fuses for low and high voltage

低压高分断熔断器 / NH fuse-links
光伏熔断器 / Fuses für photovoltaic applications
半导体保护熔断器 / Fuse-links for semiconductor protection
低压高分断熔断器底座 / NH fuse-bases
D 型熔断器 / D-type fuses
IKUS 高压高分断熔断器 / IKUS HV HRC fuse-links



配电箱 / Enclosures for power distribution

客户技术支持 / Consumer supply technology
电缆分支箱 / Cable distribution cabinets
电流互感器箱体 / Current transformer cabinets
仪表及路灯技术 / Metering- & street lighting technology
光伏应用 / Photovoltaic applications

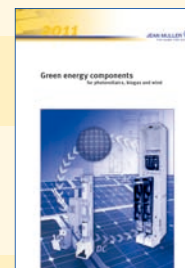
绿色能源产品 / Green energy components

直流配电及保护产品
DC distribution- & protection components
交流配电及保护产品
AC distribution- & protection components



标准低压配电盘 Standardised low voltage distribution panels

电源柜及控制柜集成
Power switchgear and controlgear assemblies



印刷 / Print 06/2014
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出版 / *Published by*

JEAN MÜLLER

Jean Müller GmbH
Elektrotechnische Fabrik
H.J.-Müller-Straße 7
D-65343 Eltville am Rhein
www.jeanmueller.de

图片 / *Photo credits*

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印刷 / *Print 01/2014*

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JEAN MÜLLER – 电流是如何分配的

JEAN MÜLLER – This is how current is distributed



传统和发展，一直与金米勒紧密相连。金米勒公司总部利用先进的生产设备，于1897年成立于莱茵河畔的埃特威勒。

当时，传统的熔断器方案是我们的主营业务。而今天，我们提供电子监控及能源管理系统，低压配电盘，开关柜集成，并越来越多的致力于安全配电的元件。

金米勒是安全性和操作可靠性的产品代表。毋庸置疑：作为一个面向未来的企业，我们仍一贯坚持质量及创新精神。并根据客户的需求，定制高技术含量的电流分配方案。

With JEAN MÜLLER, tradition and progress are closely intertwined. Our company's headquarters and state of the art production facility are thus located in Eltville am Rhein, where our company was founded in the year 1897.

At the time, classical fuses were our basis. Today, we offer electronic monitoring and power management systems, low voltage switchgears, switchgear assemblies and many more components for the safe distribution of current.

Products bearing the seal JEAN MÜLLER stand for safety and reliability in operation and handling worldwide. No wonder: as a future-oriented commercial enterprise, we have consistently committed ourselves to quality and innovation. The result is high-tech solutions tailored to the needs of our customers for the electrical distribution of current.

无论设计，制造或者操作，每个高新技术的背后总能看到我们员工的身影

Construction, manufacture or operation, you name it: we also always see people at the center of every demanding technology.

我们的宗旨是“安全为本”。全球共有超过600名员工，都以一个高度忠诚的方式，将此宗旨作为日常生活的座右铭。按我们客户的经验来说，我们拥有专业的顾问，坦诚的沟通方式，个性化的解决方案，并拥有研发新产品的发展途径。特别是深入的产品知识和深厚的专业知识是我们令客户不断形成深刻印象的基础。

We are "THE NAME FOR SAFETY". Over 600 employees worldwide enact this motto on daily basis – in a highly committed manner too. Our customers experience this in our special consultancy competence, open communication, the preparation of individual solutions, in the services that we offer or the development of innovative product approaches. In-depth knowledge and profound product know-how constantly form the basis of our impressive results.

众多的证书也证明了这个标准。客户把我们的产品安装在电柜中后，也都通过了型式试验。

Numerous certificates confirm this standard. Our products are also type-tested – in the switchgear assemblies of our customers as well.

是的，在金米勒，您的愿望永远是我们关注的重点。我们可以如此承诺，是因为我们的产品范围及服务非常广泛。

Yes, at JEAN MÜLLER, your wishes are firmly in focus at all times. This is possible because the range of our products and service provisions are very comprehensive. Combined with our well-known huge vertical range of production, brand new opportunities are opened for your flexibility.

考虑到您所需要的灵活性，并结合我们熟知的垂直范围类的产品，现在，为您开启使用全新产品的机会。



专为电流分配而设计的模块化的及灵活的熔断器隔离开关

Modular and flexible fuse switch strips for power distribution.



SASILplus – 智能能量管理系统

SASILplus – Intelligent Energy Control System



在米勒，精密的检查及调节都是通过有经验的员工魔力般的眼睛及双手来实现的。

At JEAN MÜLLER, detailed inspection and adjustments are performed by experienced employees with almost magic eyes and hands.



PLVario, 是用于获取及记录电气数据的模块化的系统，为低压系统提供更多透明度。

PLVario, the modular system for capturing and recording electronic data provides more transparency in the operation of low voltage systems.



通过RJ45连接器来实现的总线系统，可以拥有独立的接线空间并降低接线错误的风险。

The integrated BUS system with RJ45 connectors guarantees wiring without the risk of a mix-up and spatially separates control lines.



作为传统的开关技术及现代化电力数据采集系统间的创新型连接产品：SASILplus+PLVario。它使米勒进入一个更新，更高的条形抽拉式技术领域。

The innovative link of classical switch technology and modern power data-acquisition system has a name: SASILplus with PLVario. This has enabled JEAN MÜLLER to set a new and higher standard in the push and plug-insert technology in strip form.

秘诀在于：无论手动启动或者电机驱动，与操作人员无关的快速动作方式保证了明确的通断动作，因此，这是一种非常安全的控制方式，短路能力可达120kA。

The secret: a manually driven or motor-driven, user-independent snap-action mechanism guarantees a clearly defined switching speed and thereby, an absolutely safe operation up to a switching capacity of 120kA.

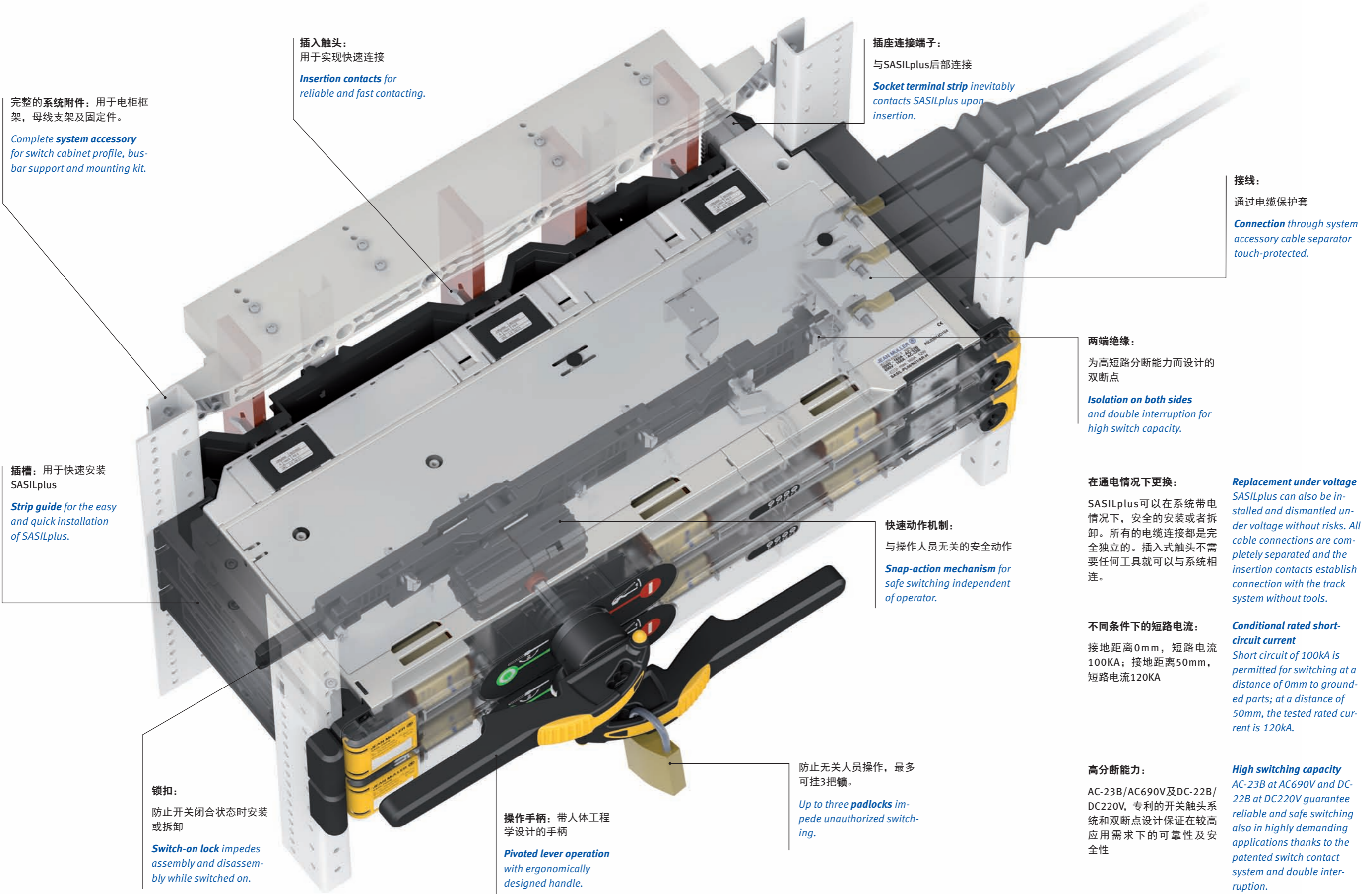
根据熔断器DIN或者BS标准，右出线或者左出线，2极，3极，4极的设计以及通过PLVario智能测量数据收集系统，SASILplus系列的刀熔开关展现了一种全新的灵活性更强的系统。易于改装的丰富配件包，扩大了自动远程控制及智能电网的应用范围。

With the fuse links in accordance with DIN or BS, right-left applicability and 2-, 3- or 4-pole design and the integrated measurement data-acquisition system in the PLVario system, the switch disconnector of the SASILplus series unfolds a new dimension of flexibility in systems planning. An extensive package with easily retrofittable accessory expands the range of applicability options up until automated remote switching and Smart Grid solutions.



深思熟虑的细节-确保安全

Details well thought-out for guaranteed safety



完整的系统附件：用于电柜框架，母线支架及固定件。
Complete system accessory for switch cabinet profile, bus-bar support and mounting kit.

插入触头：
用于实现快速连接
Insertion contacts for reliable and fast contacting.

插座连接端子：
与SASILplus后部连接
Socket terminal strip inevitably contacts SASILplus upon insertion.

接线：
通过电缆保护套
Connection through system accessory cable separator touch-protected.

插槽：用于快速安装 SASILplus
Strip guide for the easy and quick installation of SASILplus.

两端绝缘：
为高短路分断能力而设计的双断点
Isolation on both sides and double interruption for high switch capacity.

快速动作机制：
与操作人员无关的安全动作
Snap-action mechanism for safe switching independent of operator.

在通电情况下更换：
SASILplus可以在系统带电情况下，安全的安装或者拆卸。所有的电缆连接都是完全独立的。插入式触头不需要任何工具就可以与系统相连。

Replacement under voltage SASILplus can also be installed and dismantled under voltage without risks. All cable connections are completely separated and the insertion contacts establish connection with the track system without tools.

不同条件下的短路电流：
接地距离0mm，短路电流100KA；接地距离50mm，短路电流120KA

Conditional rated short-circuit current Short circuit of 100kA is permitted for switching at a distance of 0mm to grounded parts; at a distance of 50mm, the tested rated current is 120kA.

锁扣：
防止开关闭合状态时安装或拆卸
Switch-on lock impedes assembly and disassembly while switched on.

操作手柄：带人体工程学设计的手柄
Pivoted lever operation with ergonomically designed handle.

防止无关人员操作，最多可挂3把锁。
Up to three padlocks impede unauthorized switching.

高分断能力：
AC-23B/AC690V及DC-22B/DC220V，专利的开关触头系统和双断点设计保证在较高应用需求下的可靠性及安全性

High switching capacity AC-23B at AC690V and DC-22B at DC220V guarantee reliable and safe switching also in highly demanding applications thanks to the patented switch contact system and double interruption.

最佳的附件及智能电子产品

Optimally aligned accessory and intelligent electronics

分闸状态时, SASILplus的面板可以打开或者拆卸

The cover of SASILplus can be opened and removed only when switched off.

熔芯手柄, 用于拆卸熔芯

Fusehandle for the removal of NH fuse links.

电表, 例如动铁式或双金属片式
示范插图, 不能同时使用

Power measuring devices such as moving iron measuring devices and bimetal measuring devices. Exemplary illustration. Combination not possible.

PLVario-Net, 是PLVario系统, 数据收集及网络服务器的中心单元

PLVario-Net central unit in PLVario system, data collector and web server.

PLVario-EM3 用于收集
PLVario系统的测量数据

PLVario-EM3 module for acquisition measurement data in the PLVario system.

CAN-Bus 通过RJ45连接头
实现快速且无差错连接

CAN-Bus on RJ45 connector for quick and error-free cable-routing.

连接模块
作为电流互感器及开关位置指示的通讯界面

Connector strip as interface for transformer currents and switch position indicator.

熔芯监控

通过4个LED精确显示每相状态

Fuse monitoring with phase-accurate display through four LEDs.

电子模块EE07

用于PLVario系统收集测量数据, 集成预制线并且已完成测试

Electronic module EE07 for the acquisition of measurement data in the PLVario system, completely wired and tested.

插拔工具

用于开关在电柜中的安装及拆卸

Extraction tool for the removal of the strip from the cabinet.

电流互感器

用于电子模块(200mA)或者二次侧1A/5A的标准电流互感器

Current transformers for electronic module (200mA) or standard current transformers with 1A/5A secondary current.

SASILplus:具有多种设计方案的灵活性系统

SASILplus: System flexibility in several designs

从众多的设计和可变的安装方式中可以看出SASILplus系统的灵活性。

根据不同的需求，开关本体可选2极，3极或4极，电缆连接可选右边或左边。进一步的应用方案通过单体，双体或者耦合开关，以及手动或远程电动操作方式实现。所有情况下，不仅拥有广泛的配件可供选择，它的加装也非常容易。

The distinctive system flexibility of SASILplus can also be seen in the numerous designs and installation variations. Depending on demands, a basic device is available 2-, 3-, or 4-pole, cable connections can be run right or left. Further application scenarios are solved through the designs with single, double or interconnecting strips as well as manually or remote-controlled switching. And for all cases, not only extensive accessories are available, it generally can be retrofitted very easily.



SASILplus-MOT
带电子驱动，用于远程控制及耦合

SASILplus-MOT
with electrical drive for the remote-control of outgoing and coupling strip.



SASILplus 尺寸 00
仅有50mm高，非常紧凑

SASILplus size 00
Only 50mm high; particularly low-profile body.



SASILplus 尺寸 1
三相熔断器可以使用英标 BS-88-2 最大到 AC690V

SASILplus size 1
with three fuse links in accordance with British standard BS-88-2 up to AC690V.



SASILplus 尺寸 2/尺寸 3
特别紧凑的结构，仅150mm

SASILplus size 2/size 3
specially low in structural form, only 150mm.



SASILplus 尺寸 3
双体开关由两个150mm高度组成，使用同一个手柄，操作电流1000A

SASILplus size 3
two strips with 150mm height of modules with joint drive, rated operating current 1000A.

2-/3-/4-极设计

SASILplus熔断器式隔离开关拥有2极，3极，4极系列标准产品。可以应用于AC690V/DC440V。

Design 2-, 3-, 4-poled

All SASILplus standard devices are designed as 2-, 3-, 4-pole switch disconnectors with fuse links. They are suited for application of up to AC690V/DC440V.



60mm-母线系统

与标准产品(185mm)相比，专为60mm母线系统设计

60mm busbar system

Designs for 60mm busbar systems are also available in deviation from the standard design (185mm).



耦合开关

SASILplus耦合系统可以在较小的空间里分隔不同的母线

Interconnecting strips

SASIL plus interconnecting strips enable the separation of busbars in tight spaces.

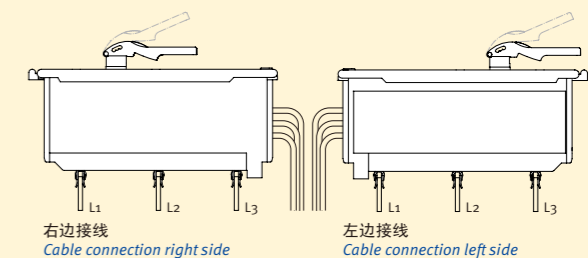


右/左连接

为节省空间，电缆接线端可以在右边或者左边

Connection right/left

To save space, cable connections can be laid right or left.

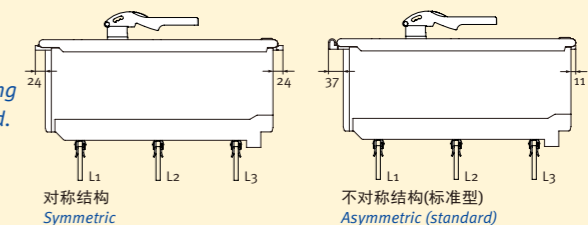


对称/不对称结构

按照柜体结构选用合适的开关

Symmetric/asymmetric

An adequate installation system is chosen depending on the switch cabinet used.





SASILplus可以为各类商品交易会，科技类项目，大型项目及工业生产提供舒适的，可靠的供电

SASILplus ensures comfortable and reliable power supply for trade fair and event technology, for big events as well as for industrial production.

SASILplus可以安全，舒适及精确的应用于低压配电控制系统及功耗测量

Control system of the low voltage distribution and also consumption measurement are performed safely, comfortably and precisely with SASILplus.



现在手机，电脑，平板电脑及其他小型电器在我们的生活中是必不可少的。SASILplus有助于保障其电力供应。

Cellular phones, computers, tablets and other electrical gadgets are now indispensable in day-to-day life. SASILplus contributes to the safeguard of power supply.



在现代社会蓬勃发展的过程中，基础设施，交通控制系统和交通流的控制的可靠性具有重要意义。SASILplus就可以提供此类安全保障。

A modern society thrives on its infrastructure – of major significance in the process: reliable traffic control systems and control of transport flow. SASILplus provides safety.

SASILplus的世界：更多的应用领域

The world of SASILplus: even more areas of application



电力是我们日常生活的基石 – 通过新型的网络，例如智能电网，产生及分配的电力具有重大意义。SASILplus 支持基于需要的自动切换，并确保操作的可靠性。

Power forms the cornerstone of our day-to-day life – its generation and distribution through existing as well as new intelligent grids such as Smart Grids are thus of immense significance. SASILplus supports the need-based and automated switching and ensures reliable operation.



对于金米勒来说，保护操作人员及设备的安全都是安全操作的一部分。

For JEAN MÜLLER, the protection of operating employees as well as the active and passive safety of devices and systems is an integral part of safe operation.



感谢SASILplus，大都市、城市、市政团体等不仅涌动着生命，医院、行政大楼、博物馆等所需的电力也在涌动着。

Metropolises, cities and municipal communities are not only pulsating with life, the necessary power for the operation of hospitals, administrative buildings, museums etc. is also pulsating thanks to SASILplus.

SASILplus 3- 极 SASILplus 3-pole



由于其不同的应用选择，3 极熔断器式隔离开关 SASILplus 代表质量的可靠和创新。3 极母线系统有 185mm 和 60mm 两个类型可供选择。

专利的触头系统具有高短路耐受能力。因此，SASILplus 不仅代表电气接触系统的安全性，而且还代表操作的安全性。综合管理单元的作用机理确保在切换过程中保持最佳。该系统具有广泛的附件，从开关位置指示器和熔断器监测延伸到电气数据采集。

值得信赖的优势

2 种基本型可选

- 短路耐受能力达到 55kA (普通分断能力)
- 短路耐受能力达到 120kA¹⁾ (高分断能力)

2 种母线系统可选

- 185mm 母线系统
- 60mm 母线系统

紧凑型结构

- 模数化设计 (25mm)
- 尺寸 00 = 50mm 高 (2 个模数)
- 尺寸 1 = 75mm 高 (3 个模数)
- 尺寸 2/3 = 150mm 高 (6 个模数)

模数化的设计及智能化的附件

- 预装的或可以加装的附件
- 封闭式的端子接线区域
- 安全插入式的插槽导轨
- 标准尺寸型附件

1) 接地距离 50mm

Thanks to its diverse usage options, the 3-pole switch disconnecter with fuses SASILplus stands for quality paired with reliability and innovation. The 3-pole versions are available for both 185mm and 60mm busbar systems. High short-circuit withstand and high switching capacity are made possible by the patented contact system. SASILplus thus stands for safety not only in the electrical contact system but also in the handling. The integrated snap-action mechanism ensures that the switching process is always optimised. The system is rounded up with extensive accessories ranging from the position indicator and fuse monitoring to the electrical data acquisition.

Convincing advantages

2 basic types available

- Short-circuit withstand up to 55kA (normal switching capacity)
- Short-circuit withstand up to 120kA¹⁾ (high switching capacity)

2 busbar systems available

- 185mm busbar system
- 60mm busbar system

Compact construction

- Versions in module dimensions (25mm)
- Size 00 = 50mm high (2 modular units)
- Size 1 = 75mm high (3 modular units)
- Size 2/3 = 150mm high (6 modular units)

Modular design and intelligent accessories

- Accessories are integrated or retrofittable
- No open wiring in the terminal area
- Strip guide for safe plug-in
- Accessories integrated in standard cover size

1) Distance to grounded parts 50mm

右边电缆出线，3 极，普通分断能力 / Outgoing strips with cable connection right side, 3-pole, normal switching capacity

尺寸 Size	I _e [A]	额定条件下短路电流 Rated conditional short-circuit current [kA]		型号 Type	订货号 Article-No.
		400/500V	690V		

不带附件 / without accessories

00	160	55	SASIL-PL00/N31/AR-H	A5L030100000
1	250		SASIL-PL1/N31/AR-H	A1L030100000
2	400		SASIL-PL2/N31/AR-H	A2L030100000
3	630		SASIL-PL3/N31/AR-H	A3L030100000

带 1 个电流互感器及接插件 / with 1 current transformer and plug-in connector

00	160	55	SASIL-PL00/N31/AR-H/1W150-1S/SKL	A5L03011F107
1	250		SASIL-PL1/N31/AR-H/1W250-1S/SKL	A1L03011H107
2	400		SASIL-PL2/N31/AR-H/1W400-1S/SKL	A2L03011K107
3	630		SASIL-PL3/N31/AR-H/1W600-1S/SKL	A3L03011M107

带 1 个电流互感器及测量设备 / with 1 current transformer and measuring device

00	160	55	SASIL-PL00/N31/AR-H/1W150-1M/MD	A5L03011F101
1	250		SASIL-PL1/N31/AR-H/1W250-1M/MD	A1L03011H101
2	400		SASIL-PL2/N31/AR-H/1W400-1M/MD	A2L03011K101
3	630		SASIL-PL3/N31/AR-H/1W600-1M/MD	A3L03011M101

带 3 个电流互感器及接插件 / with 3 current transformers and plug-in connector

00	160	55	SASIL-PL00/N31/AR-H/3W150-1S/SKL	A5L03012F107
1	250		SASIL-PL1/N31/AR-H/3W250-1S/SKL	A1L03012H107
2	400		SASIL-PL2/N31/AR-H/3W400-1S/SKL	A2L03012K107
3	630		SASIL-PL3/N31/AR-H/3W600-1S/SKL	A3L03012M107

带 3 个电流互感器，测量设备及接插件

with 3 current transformers, measuring device and plug-in connector

00	160	55	SASIL-PL00/N31/AR-H/3W150-1MS/SKL/MD	A5L03012F104
1	250		SASIL-PL1/N31/AR-H/3W250-1MS/SKL/MD	A1L03012H104
2	400		SASIL-PL2/N31/AR-H/3W400-1MS/SKL/MD	A2L03012K104
3	630		SASIL-PL3/N31/AR-H/3W600-1MS/SKL/MD	A3L03012M104

带熔断器监控 ES07 及辅助触点 / with fuse monitoring ES07 and auxiliary switch

00	160	55	SASIL-PL00/N31/AR-H/SKL/NC+NO/ES07	A5L030100026
1	250		SASIL-PL1/N31/AR-H/SKL/NC+NO/ES07	A1L030100026
2	400		SASIL-PL2/N31/AR-H/SKL/NC+NO/ES07	A2L030100026
3	630		SASIL-PL3/N31/AR-H/SKL/NC+NO/ES07	A3L030100026

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右边电缆出线，3极，高分断能力 / *Outgoing strips with cable connection right side, 3-pole, high switching capacity*

尺寸 Size	I _n [A]	额定条件下短路电流 Rated conditional short-circuit current [kA]		型号 Type	订货号 Article-No.
		400/500V	690V		

不带附件 / *without accessories*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H	A5L230100000
1	250			SASIL-PL1/H31/AR-H	A1L230100000
2	400			SASIL-PL2/H31/AR-H	A2L230100000
3	630			SASIL-PL3/H31/AR-H	A3L230100000

带 1 个电流互感器及接插件 / *with 1 current transformer and plug-in connector*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H/1W150-1S/SKL	A5L23011F107
1	250			SASIL-PL1/H31/AR-H/1W250-1S/SKL	A1L23011H107
2	400			SASIL-PL2/H31/AR-H/1W400-1S/SKL	A2L23011K107
3	630			SASIL-PL3/H31/AR-H/1W600-1S/SKL	A3L23011M107

带 1 个电流互感器及测量设备 / *with 1 current transformer and measuring device*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H/1W150-1M/MD	A5L23011F101
1	250			SASIL-PL1/H31/AR-H/1W250-1M/MD	A1L23011H101
2	400			SASIL-PL2/H31/AR-H/1W400-1M/MD	A2L23011K101
3	630			SASIL-PL3/H31/AR-H/1W600-1M/MD	A3L23011M101

带 3 个电流互感器及接插件 / *with 3 current transformers and plug-in connector*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H/3W150-1S/SKL	A5L23012F107
1	250			SASIL-PL1/H31/AR-H/3W250-1S/SKL	A1L23012H107
2	400			SASIL-PL2/H31/AR-H/3W400-1S/SKL	A2L23012K107
3	630			SASIL-PL3/H31/AR-H/3W600-1S/SKL	A3L23012M107

带 3 个电流互感器，测量设备及接插件

with 3 current transformers, measuring device and plug-in connector

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H/3W150-1MS/SKL/MD	A5L23012F104
1	250			SASIL-PL1/H31/AR-H/3W250-1MS/SKL/MD	A1L23012H104
2	400			SASIL-PL2/H31/AR-H/3W400-1MS/SKL/MD	A2L23012K104
3	630			SASIL-PL3/H31/AR-H/3W600-1MS/SKL/MD	A3L23012M104

带熔断器监控 ES07 及辅助触点 / *with fuse monitoring ES07 and auxiliary switch*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H31/AR-H/SKL/NC+NO/ES07	A5L230100026
1	250			SASIL-PL1/H31/AR-H/SKL/NC+NO/ES07	A1L230100026
2	400			SASIL-PL2/H31/AR-H/SKL/NC+NO/ES07	A2L230100026
3	630			SASIL-PL3/H31/AR-H/SKL/NC+NO/ES07	A3L230100026

1) 接地距离 0mm / *Distance to grounded parts 0mm*

2) 接地距离 50mm / *Distance to grounded parts 50mm*

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举例 1: 开关柜 / *Sample 1: switchgear cabinet*

熔断器式隔离开关 -SASILplus 尺寸 00, 1, 3, 右边电缆出线, 安装在 185mm 母线系统上

Switch-disconnector-fuses – SASILplus size 00, 1, 3

with cable connection compartment on right side in combination with device mounting module on 185mm busbar system



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SASILplus 4- 极 SASILplus 4-pole



4 极 SASILplus 的每个极数都与标准 SASILplus 隔离开关的质量相同，不需要改变或调整控制柜的设计。可应用在比荷卢国家，也可以应用在需要 4 极网络的数据处理中心。SASILplus 不仅可以用于通断还可以用于间断观察中性点。在这种情况下，中性点位于 L2 和 L3 相之间。因此很容易用熟悉的 3 极系统来实现组装完整的系统。系统配件也可以用在在这里，还可以使用一个外部的互感器来测量中性点的电流。

值得信赖的优势

功能原理

- 第四极（不带熔断器）是通过扩展一个结构相同的壳体来实现的
- 两个基本型条形元件都使用普通的驱动方式
- N 相提前接通
- N 相延迟断开
- N 相与其他相有相同的横截面

2 种基本类型可选

- 短路耐受能力达到 55kA (普通分断能力)
- 短路耐受能力达到 100kA¹⁾ (高分断能力)

N 极的位置

- 右边端子接线型 L1-L2-N-L3

安装在不同的柜体系统中

- 3 极和 4 极开关可以安装在同一个馈线系统中
- 适合所有已经安装 3 极 SASILplus 的机柜

附件

- 预置的或可以加装的附件

1) 接地距离 0mm

The 4-pole SASILplus enables all-pole disconnection in the usual SASILplus quality without the need to change or adapt the design of the control cabinet. Applications in the Benelux states and also in data processing centres require 4-pole networks. SASILplus is available for these applications both with switchable and loopthroughed neutral conductors. In this case the neutral conductor lies between the L2 and L3 phases. Therefor assembly in the complete system is easily achieved in the familiar 3-pole system. The system accessories can also be used here and it is further possible to measure the current in the neutral conductor using an additional transformer.

Convincing advantages

Principle of function

- Extension of a structurally identical enclosure for the 4th pole (without fuse)
- Common drive for both basic strip elements
- N advanced switch-on
- N lagging switch-off
- Identic cross-section of N-conductor and phase conductor

2 basic types available

- Short-circuit withstand up to 55kA (normal switching capacity)
- Short-circuit withstand up to 100kA¹⁾ (high switching capacity)

Position of N-conductor

- Cable terminal right side L1-L2-N-L3

Mounting in different cabinet systems

- Mounting combination of 3- and 4-pole devices in one outgoing feeder
- Appropriate for all cabinet systems in which 3-pole SASILplus can already be used

Accessories

- Accessories are integrated or retrofittable

1) Distance to grounded parts 0mm

右边电缆出线，4 极，普通分断能力 / Outgoing strips with cable connection right side, 4-pole, normal switching capacity

尺寸 Size	I _n [A]	额定条件下短路电流 Rated conditional short-circuit current [kA]		型号 Type	订货号 Article-No.
		400/500V	690V		

不带附件 / without accessories

00	160	55	SASIL-PL00/N41/AR-H	A5L040100000
1	250		SASIL-PL1/N41/AR-H	A1L040100000
2	400		SASIL-PL2/N41/AR-H	A2L040100000
3	630		SASIL-PL3/N41/AR-H	A3L040100000

带 1 个电流互感器及接插件 / with 1 current transformer and plug-in connector

00	160	55	SASIL-PL00/N41/AR-H/1W150-1S/SKL	A5L04011F107
1	250		SASIL-PL1/N41/AR-H/1W250-1S/SKL	A1L04011H107
2	400		SASIL-PL2/N41/AR-H/1W400-1S/SKL	A2L04011K107
3	630		SASIL-PL3/N41/AR-H/1W600-1S/SKL	A3L04011M107

带 1 个电流互感器及测量设备 / with 1 current transformer and measuring device

00	160	55	SASIL-PL00/N41/AR-H/1W150-1M/MD	A5L04011F101
1	250		SASIL-PL1/N41/AR-H/1W250-1M/MD	A1L04011H101
2	400		SASIL-PL2/N41/AR-H/1W400-1M/MD	A2L04011K101
3	630		SASIL-PL3/N41/AR-H/1W600-1M/MD	A3L04011M101

带 3 个电流互感器及接插件 / with 3 current transformers and plug-in connector

00	160	55	SASIL-PL00/N41/AR-H/3W150-1S/SKL	A5L04012F107
1	250		SASIL-PL1/N41/AR-H/3W250-1S/SKL	A1L04012H107
2	400		SASIL-PL2/N41/AR-H/3W250-1S/SKL	A2L04012K107
3	630		SASIL-PL3/N41/AR-H/3W600-1S/SKL	A3L04012M107

带 3 个电流互感器，测量设备及接插件

with 3 current transformers, measuring device and plug-in connector

00	160	55	SASIL-PL00/N41/AR-H/3W150-1MS/SKL/MD	A5L04012F104
1	250		SASIL-PL1/N41/AR-H/3W250-1MS/SKL/MD	A1L04012H104
2	400		SASIL-PL2/N41/AR-H/3W400-1MS/SKL/MD	A2L04012K104
3	630		SASIL-PL3/N41/AR-H/3W600-1MS/SKL/MD	A3L04012M104

带熔断器监控 ES07 及辅助触点 / with fuse monitoring ES07 and auxiliary switches

00	160	55	SASIL-PL00/N41/AR-H/SKL/NC+NO/ES07	A5L040100026
1	250		SASIL-PL1/N41/AR-H/SKL/NC+NO/ES07	A1L040100026
2	400		SASIL-PL2/N41/AR-H/SKL/NC+NO/ES07	A2L040100026
3	630		SASIL-PL3/N41/AR-H/SKL/NC+NO/ES07	A3L040100026

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右边电缆出线，4极，高分断能力 / *Outgoing strips with cable connection right side, 4-pole, high switching capacity*

尺寸 Size	I _n [A]	额定条件下短路电流 Rated conditional short-circuit current [kA]		型号 Type	订货号 Article-No.
		400/500V	690V		

不带附件 / *without accessories*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H	A5L240100000
1	250			SASIL-PL1/H41/AR-H	A1L240100000
2	400			SASIL-PL2/H41/AR-H	A2L240100000
3	630			SASIL-PL3/H41/AR-H	A3L240100000

带 1 个电流互感器及接插件 / *with 1 current transformer and plug-in connector*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H/1W150-1S/SKL	A5L24011F107
1	250			SASIL-PL1/H41/AR-H/1W250-1S/SKL	A1L24011H107
2	400			SASIL-PL2/H41/AR-H/1W400-1S/SKL	A2L24011K107
3	630			SASIL-PL3/H41/AR-H/1W600-1S/SKL	A3L24011M107

带 1 个电流互感器及测量设备 / *with 1 current transformer and measuring device*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H/1W150-1M/MD	A5L24011F101
1	250			SASIL-PL1/H41/AR-H/1W250-1M/MD	A1L24011H101
2	400			SASIL-PL2/H41/AR-H/1W400-1M/MD	A2L24011K101
3	630			SASIL-PL3/H41/AR-H/1W600-1M/MD	A3L24011M101

带 3 个电流互感器及接插件 / *with 3 current transformers and plug-in connector*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H/3W150-1S/SKL	A5L24012F107
1	250			SASIL-PL1/H41/AR-H/3W250-1S/SKL	A1L24012H107
2	400			SASIL-PL2/H41/AR-H/3W400-1S/SKL	A2L24012K107
3	630			SASIL-PL3/H41/AR-H/3W600-1S/SKL	A3L24012M107

带 3 个电流互感器，测量设备及接插件

with 3 current transformers, measuring device and plug-in connector

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H/3W150-1MS/SKL/MD	A5L24012F104
1	250			SASIL-PL1/H41/AR-H/3W250-1MS/SKL/MD	A1L24012H104
2	400			SASIL-PL2/H41/AR-H/3W400-1MS/SKL/MD	A2L24012K104
3	630			SASIL-PL3/H41/AR-H/3W600-1MS/SKL/MD	A3L24012M104

带熔断器监控 ES07 及辅助触点 / *with fuse monitoring ES07 and auxiliary switch*

00	160	100 ¹⁾ (120 ²⁾)	80 ¹⁾	SASIL-PL00/H41/AR-H/SKL/NC+NO/ES07	A5L240100026
1	250			SASIL-PL1/H41/AR-H/SKL/NC+NO/ES07	A1L240100026
2	400			SASIL-PL2/H41/AR-H/SKL/NC+NO/ES07	A2L240100026
3	630			SASIL-PL3/H41/AR-H/SKL/NC+NO/ES07	A3L240100026

1) 接地距离 0mm / *Distance to grounded parts 0mm*

2) 接地距离 50mm / *Distance to grounded parts 50mm*

举例 2: 开关柜 / *Sample 2: switchgear cabinet*

熔断器式隔离开关 -SASILplus 尺寸 1, 右边电缆出线, 安装在 185mm 母线系统上

Switch-disconnector-fuses – SASILplus size 1 with cable connection compartment on right side on 185mm busbar system



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SASILplus 2- 极 SASILplus 2-pole



2 极 SASILplus 直流产品可以应用于典型的 SASILplus 系统。直流网络，最大到 DC440V 经常依赖于不间断电源的环境，如数据处理中心和发电厂。SASILplus 可应用于该方案的 2 极设计。久经考验的功能在这里实现，如熔断器监测和本地显示以及典型的高短路强度为 35kA 直流应用。与快速动作机制相结合，使 SASILplus 直流应用更加安全和舒适。

The 2-pole SASILplus makes it possible to use the typical diversity of a SASILplus also for DC applications. DC Networks up to DC440V are frequently relied on in the environment of uninterrupted power supplies, such as in data processing centres and power plants. SASILplus is available in the 2-pole design for this application. The proven functions such as fuse monitoring and local display are implemented here as well as the typical high short-circuit strength of 35kA for DC applications. Combined with the snap-action mechanism, switching in direct current applications is SASILplus safe and comfortable.

值得信赖的优势

- 使用 DC 系统，最大到 DC440V
- 母线系统间距为 370mm(2 x 185mm)
- 与 3 极 SASILplus 尺寸相同
- 全系列尺寸可选

附件

- 位置指示器可以是预置的或者加装的
- 工厂预带分流器和动圈式仪表的测量设备
- 电子式熔断器监控模块 (ES09) 仅可以由工厂预置

开关容量

- 高分断能力 (35kA)
- 使用类别 DC-22B/DC220V; DC-21B/DC440V

Convincing advantages

- Use in DC system up to DC440V
- For busbar systems with 370mm distance (2 x 185mm)
- Same dimensions as 3-pole SASILplus
- All sizes available

Accessories

- Position indicator is integrated or retrofittable
- Measurement with shunt about possible moving-coil instrument is factory-adjusted
- Electronic fuse monitoring (ES09) can only be factory fitted

Switching capacity

- High switching capacity (35kA)
- Utilization category DC-22B up to DC220V; DC-21B up to DC440V

右边电缆出线，2 极 Outgoing strips with cable connection right side, 2-pole

尺寸 Size	I _n [A]	额定条件下短路电流 Rated conditional short-circuit current [kA]		型号 Type	订货号 Article-No.
		220V	440V		

不带附件 / without accessories

00	160	35	SASIL-PL00/H21/AR-H	A5L220100000
1	250		SASIL-PL1/H21/AR-H	A1L220100000
2	400		SASIL-PL2/H21/AR-H	A2L220100000
3	630		SASIL-PL3/H21/AR-H	A3L220100000

带辅助触点 / with auxiliary switch

00	160	35	SASIL-PL00/H21/AR-H/NC+NO/SKL	A5L220100013
1	250		SASIL-PL1/H21/AR-H/NC+NO/SKL	A1L220100013
2	400		SASIL-PL2/H21/AR-H/NC+NO/SKL	A2L220100013
3	630		SASIL-PL3/H21/AR-H/NC+NO/SKL	A3L220100013

带 1 个分流器和动圈式仪表 / with 1 shunt and moving-coil ammeter

00	160	35	SASIL-PL00/H21/AR-H/1SH150-60M/MDS	A5L2201SF401
1	250		SASIL-PL1/H21/AR-H/1SH250-60M/MDS	A1L2201SH401
2	400		SASIL-PL2/H21/AR-H/1SH400-60M/MDS	A2L2201SK401
3	630		SASIL-PL3/H21/AR-H/1SH600-60M/MDS	A3L2201SM401

带辅助触点及电压接头 / with auxiliary switch and voltage tap

00	160	35	SASIL-PL00/H21/AR-H/NC+NO/UF/SKL	A5L220100084
1	250		SASIL-PL1/H21/AR-H/NC+NO/UF/SKL	A1L220100084
2	400		SASIL-PL2/H21/AR-H/NC+NO/UF/SKL	A2L220100084
3	630		SASIL-PL3/H21/AR-H/NC+NO/UF/SKL	A3L220100084

带熔断器监控 ES09 / with fuse monitoring ES09

00	160	35	SASIL-PL00/H21/AR-H/SKL/ES09	A5L220100048
1	250		SASIL-PL1/H21/AR-H/SKL/ES09	A1L220100048
2	400		SASIL-PL2/H21/AR-H/SKL/ES09	A2L220100048
3	630		SASIL-PL3/H21/AR-H/SKL/ES09	A3L220100048

带熔断器监控 ES09 及辅助触点 / with fuse monitoring ES09 and auxiliary switch

00	160	35	SASIL-PL00/H21/AR-H/SKL/NC+NO/ES09	A5L220100049
1	250		SASIL-PL1/H21/AR-H/SKL/NC+NO/ES09	A1L220100049
2	400		SASIL-PL2/H21/AR-H/SKL/NC+NO/ES09	A2L220100049
3	630		SASIL-PL3/H21/AR-H/SKL/NC+NO/ES09	A3L220100049

电缆连接及其他型号请来电话咨询 / For cable connection or further versions on request

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SASILplus 的配置 Configuration of a SASILplus



SASILplus 的型号由 16 个独立的位置符组成，每个位置符分别描述一个关于 SASILplus 的不同性能或特征。由独立位置符组成的这个组合能够尽可能简单的描述一个 SASILplus 的规格要求。

配置方式

SASIL plus 是为了今后的应用而特别设计的。因此配置也被设计的直观清晰。

基于尺寸和级数，关于 SASIL plus 的每个位置符的性能或特征，均在相关区域进行了解释，并且定义了其缩写，写在相应的型号说明的位置上。

这些由性能特征组合成的型号是为了使 SASIL plus 更便于今后的使用。

The type designation code of SASILplus consists of 16 separate positions. Each of these positions describes a different property or feature of SASILplus. The combination of the separate positions makes it easily possible to design a SASILplus in accordance with the required specifications.

Configuration process

A SASILplus is purposefully designed for its later application. The configuration is accordingly designed to be intuitive and clear.

Based on the size or number of poles, every possible property or feature of the SASILplus is explained in the associated area and defined by an abbreviation entered in the type designation code position provided for this. By the combination of these properties and features the type designation code for SASILplus is created to be later adopted to your application.

配置举例 / Example of a configuration

下面的例子展示一个型号是如何被定义的：The following example shows how a type designation code is compiled:

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

SASILplus 的特点及订货举例

Features and executions of an order example SASILplus

位置 Position	特点 Features	典型 Model	页码 Page
1	外形框架 /Construction	标准 (非对称结构)/Standard (asymmetrical)	34
2	安装尺寸 /Installation size	DIN NH- 尺寸 00/DIN NH size 00	36
3	分断能力 /Switching capacity	高分断 /High AC-23B (690V)	38
4	极数 /Number of poles	3- 极 /3-pole	40
5	母线系统 /Busbar system	185-10mm	40
6	接线方式 /Version	左侧出线 Outgoing strip connection left	42
7	驱动方式 /Mode of drive	手动 /Manual actuation	44
8	CT 数量 Number of current transformers	3 只 CT/Current transformers	46
9	CT 精度分类 Precision of Class of the current transformers	0.5 级, 已认证, 不含证书 Class 0,5, certified, without certificate	48
10	CT 一次侧电流 /Primary current of the current transformers	150A	50
11	CT 二次侧电流 /Secondary current of the current transformers	1A	50
12	CT 接线 Wiring of the current transformers	CT 接测量设备并带连接线 Current transformer wiring on measuring device and plug connector	52
13	用于辅助信号的条形连接器 Connector strip for wiring of auxiliary current	条形连接器 /Connector strip	52
14	测量仪表 /Measuring devices	双金属测量, 带指针, 设置时间 8 分钟 Bimetallic instrument, with drag indicator, setting time 8min.	54
15	位置指示辅助开关 Auxiliary switch for position indication	1 常开 /1 make contact	54
16	电子模块 /Electronic modules	熔断器电子监测器, 自供电 Electronic fuse monitoring, self-supply	56

下面是这个 SASIL plus 的最终订货型号:

The following order type code thus results for the SASILplus example:

SASIL-PL00/H31/AL-H/3WVB150-1/MS-SKL/MB8/NOES07

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1	外形框架 Construction	L	标准结构 (非对称 /Asymmetrical)	34
		S	对称结构 /Symmetrical	
2	安装尺寸 Installation size	00	DIN NH- 尺寸 00/DIN NH size 00	36
		1	DIN NH- 尺寸 1/DIN NH size 1	
		2	DIN NH- 尺寸 2/DIN NH size 2	
		3	DIN NH- 尺寸 3/DIN NH size 3	
		00-1000V	DIN NH- 尺寸 00, 1000V/DIN NH size 00, 1000V	
		3-1000A	DIN NH- 尺寸 3, 1000A/DIN NH size 3, 1000A	
		800A/LTS	隔离开关 /Disconnecter 800A	
		BSA3	英国标准 A3 (63A)	
		BSBX	英国标准 BX (125A)	
		BSB1	英国标准 B1(100A)	
		BSB2	英国标准 B2 (200A)	
BSB4	英国标准 B4 (400A)			
BSB6	英国标准 B6 (600A)			
3	分断能力 Switching capacity	N	普通分断 /Normal AC-23B (400V)	38
		H	高分断 /High AC-23B (690V)	
4	极数 Number of poles	2	2-极 /2-pole	40
		3	3-极 /3-pole	
		4	4-极 /4-pole	
		6	6-极 (2 x 3-极) /6-pole (2 x 3-pole)	
5	母线系统 Busbar system	1	185-10	40
		6	60-5	
6	进出线方式 Version	AR	出线开关右侧接线 (与底部接线一致 (AU)) /Outgoing strip connection right (corresponds to connection bottom)	42
		ER	进线开关右侧接线 /Power supply strip connection right	
		ARD	双并出线开关右侧接线 Outgoing strip with connection right as double strip	
		KR	耦合开关右侧接线 (AR) /Coupling strip connection right	
		AL	出线开关左侧接线 (与顶部接线一致 (AO)) /Outgoing strip connection left (corresponds to connection top)	
		EL	进线开关左侧接线 (AL) /Coupling strip connection left	
		ALD	双并出线开关左侧接线 Outgoing strip with connection left as double strip	
		KL	耦合开关左侧接线 /Coupling strip connection left	
7	驱动模式 Mode of drive	H	手动驱动 /Manual actuation	44
		M	电动驱动 /Motor drive	
8	CT 数量 Number of current transformer	*	无 CT /Without current transformer	46
		1	1 个 CT /Current transformer	
		3	3 个 CT /Current transformers	
		4	4 个 CT /Current transformers	
		6	3+3 个 CT /Current transformers	
		8	4+4 个 CT /Current transformers	
		3+1	3 个 3 相 /3-pole /1 个 N 相 /4-pole	
		4+1	4 个 3-相 /3-pole /1 个 N-相 /N-Pole (4-极 /4-pole)	

SASIL-P ...				页码 Page
9	CT 精度类型 Precision of category of the current transformers	W	等级 1 (50A 时等级 3) /Class 1 (Class 3 at 50A)	48
		WV	等级 0.5, 有批准证书 Class 0.5 with approval certificate	
		WVB	等级 0.5, 有合格证, 无检验证书 Class 0.5, certified, without calibration certificate	
		WVE	等级 0.5, 有合格证, 有检验证书 Class 0.5, certified, with calibration certificate	
		WVM	等级 0.5, 有合格证, 有检验证书, 有测量数据指示 Class 0.5, certified, with calibration certificate, with indication of measured data	
		WVS	等级 0.5S, 有批准证书 Class 0.5S with approval certificate	
		WVSB	等级 0.5S, 有合格证, 无检验证书 Class 0.5S, certified, without calibration certificate	
		WVSE	等级 0.5S, 有合格证, 有检验证书 Class 0.5S, certified, with calibration certificate	
		WVSM	等级 0.5S, 有合格证, 有检验证书, 有测量数据指示 Class 0.5S, certified, with calibration certificate, with indication of measured data	
		WZ	等级 0.2, 有批准证书 Class 0.2 with approval certificate	
		WZB	等级 0.2, 有合格证, 无检验证书 Class 0.2, certified, without calibration certificate	
		WZE	等级 0.2, 有合格证, 有检验证书 Class 0.2, certified, with calibration certificate	
		WZM	等级 0.2, 有合格证, 有检验证书, 有测量数据指示 Class 0.2, certified, with calibration certificate, with indication of measured data	
		WZS	等级 0.2S, 有批准证书 Class 0.2S with approval certificate	
		WZSB	等级 0.2S, 有批准证书, 有合格证, 无检验证书 Class 0.2S with approval certificate, certified, without calibration certificate	
		WZSE	等级 0.2S, 有批准证书, 有合格证, 有检验证书 Class 0.2S with approval certificate, certified, with calibration certificate	
WZSM	等级 0.2S, 有批准证书, 有合格证, 有检验证书, 有测量数据指示 Class 0.2S with approval certificate, certified, with calibration certificate, with indication of measured data			

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10	CT 一次侧电流 Primary current of the current transformers	50	50A	50
		60	60A	
		75	75A	
		100	100A	
		125	125A	
		150	150A	
		200	200A	
		250	250A	
		300	300A	
		400	400A	
		500	500A	
		600	600A	
		SH150	DC150A 分流 /Shunt	
SH250	DC250A 分流 /Shunt			
SH400	DC400A 分流 /Shunt			
SH600	DC600A 分流 /Shunt			
11	CT 二次侧电流 Secondary current of the current transformers	1	1A	50
		5	5A	
		0.2	0.2A (只有 /only EE07)	
		60	DC60mV 分流 /Shunt	
12	CT 接线 Wiring of the current transformers	S	CT 与条形连接器相接, 用于外部接线 Current transformer wiring on connector strip for external connection	52
		SN	CT 接条形连接器, 4 极 (N 相) /Current transformer wiring on connector strip 4-pole (N-Conductor)	
		M	CT 接测量仪表 Current transformer wiring on measuring device	
		MS	CT 接测量仪表与条形连接器 /Current transformer wiring on measuring device and connector strip	
		M+S	CT 接测量仪表与条形连接器 (3+1CT) Current transformer wiring on measuring device and connector strip (3+1 current transformers)	
		EE	内部集成在电路板 EE 上 Internal wiring on circuit board EE	
		KV	预置可将 CT、测量仪表和辅助开关连接到条形连接器插头的电缆 /Cable prepared for mounting of current transformers, measuring devices and auxiliary switches with plug connector strip (SKL)	
13	用于辅助信号的条形连接器 Connector strip for wiring of auxiliary current	*	开关无附件和内部测量与指示 / Strips without device accessories and internal measurement and indication	52
		SKL	3 相电路测量, 安装辅助开关, 有电子模块, 以及需连接外部的单相电路测量的情况都必须配条形连接器 Connector strip is necessary for 3-pole current measurement, mounting of auxiliary switches, electronic modules, furthermore for 1-pole current measurement with external clamp connection	

SASIL-P ...			页码 Page	
14	测量仪表 Measuring devices	*	无测量仪表 /Without measuring device	54
		MD	动铁式测量仪表 /Moving iron measuring device	
		MDS	动圈式测量仪表 /Moving coil measuring device	
		MB8	双金属测量, 带指针, 设置时间 8 分钟 Bimetallic instrument, with drag indicator, setting time 8min.	
		MB15	双金属测量, 带指针, 设置时间 15 分钟 Bimetallic instrument, with drag indicator, setting time 15min.	
		15	位置指示辅助开关 Auxiliary switch for position indication	
NC	1 常闭 /1 break contact			
NO	1 常开 /1 make contact			
NC+NO	1 常开 1 常闭 /1 make and 1 break contact			
16	电子模块 Electronic modules	*	无电子模块 /Without electronic modules	56
		ES07	熔断器电子监测, 自供电 Electronic fuse monitoring, self-supply	
		EE07	电子监测模块 EE07, 能量管理系统 PLVario-NET Electronic monitoring module EE07 for energy management system PLVario-NET	
		ES08	熔断器电子监测, 外部供电 Electronic fuse monitoring, separate-supply	
		ES09	熔断器电子监测, 仅用于直流, 外部供电 Electronic fuse monitoring, just for DC applications, separate-supply	
		UA	输出端电压量 /Voltage tap output	
		UE	输入端电压量 /Voltage tap input	
		UE+UA	输入端电压量与输出端电压量 Voltage tap input and voltage tap output	
		UF	熔断器输入端与熔断器输出端之间的电压量 Voltage tap at the fuse-output and voltage tap at the fuse-input	

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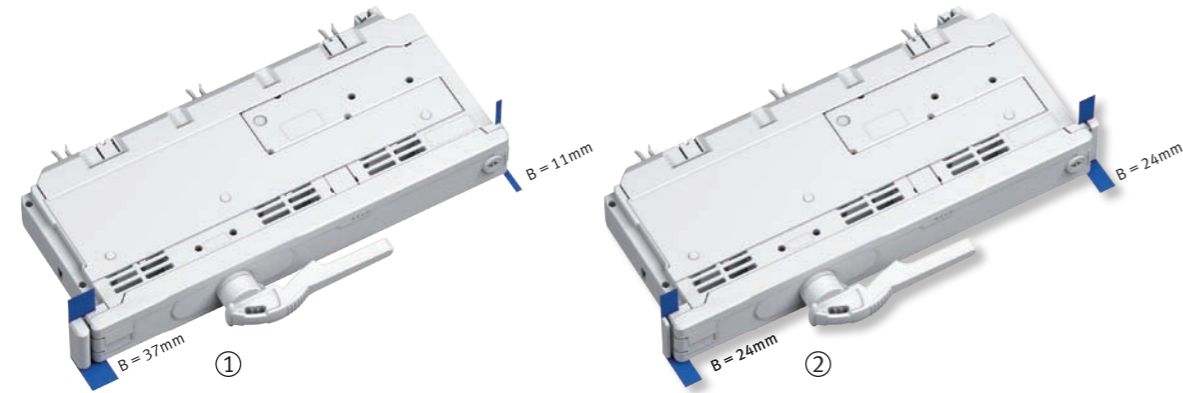
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位置 1: 外形框架 / Construction



SASILplus 是一个熔断器隔离开关, 符合 IEC 60947-3 和 (DIN) EN 60947-3 在 NH 或 BS 型熔断器的安装方面的设计标准。

SASILplus is a switch disconnecter with fuses in accordance to IEC 60947-3 and (DIN)EN 60947-3 in a strip design for the mounting of NH or BS fuse links.

位置 1 型号说明

适应性

- 非对称型标准外壳设计, 与之前的 SASILclassic 版本在结构上是兼容的。
- 对称型外壳是为市面上的箱体系统额外设计的。

Type designation code position 1

Flexibility

- *Asymmetrical standard housing design, mechanically compatible with the SASILclassic predecessor model*
- *Symmetrical housing design for additional cabinet systems on the market.*

SASILplus 其他设计特点

安全性

- SASIL plus 只能在开关断开的情况下被取出。
- 开关隔离熔断器的前后两端, 所以整个熔断器是不带电的。
- 旋转把手控制其操作方向。
- 防触摸设计, 通过大量的附件, 如母排盖罩和电缆绝缘套等, 能实现最合理的 4b 形式的内部细分的可能性。

Additional design features of SASILplus

Safety

- *SASILplus can only be opened in switched-off condition*
- *The fuse links are potential-free as the switchgear disconnects before and after the fuse link*
- *Standard operating direction due to pivoted lever activation*
- *Touch-proof design achieved by extensive accessories such as busbar cover and cable compartment cover, making the form 4b of the interior subdivision possible.*

框架订货信息 / Order information construction

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

外形框架
Construction

位置 1 的型号代码是关于 SASILplus 的外形架构标准, 可以从下面选项中选择, 确定外形框架:

Position 1 of the type code stands for the construction of the SASILplus. To determine the construction, you can choose from the following choices:

外形框架 / Construction

L	标准结构 (同SASILclassic一样-非对称结构) Standard (Same as SASILclassic – asymmetrical) LONG version	①
S	对称结构 (用于对称尺寸安装的箱体) Symmetrical (For cabinets with symmetrical-installation-dimensions)	②

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位置 2: 安装尺寸 / Installation size



SASIL plus 可使用尺寸 00 到 3 号的 NH 型熔断器以及具有相同外形尺寸的英国市场用的熔断器。

位置 2 型号说明

通用性

- NH- 型熔断器 尺寸 00-3
- NH- 型熔断器 尺寸 00/1000V
- NH- 型熔断器 尺寸 3 (SASILplus AC1000A)
- 隔离开关, 800A
- BS- 型熔断器

其他设计特点

模块化紧凑型设计

- 快速操作归功于抽屉与插拔式技术
- 多样化的 25mm 网格尺寸
 - 50mm 高 SASIL plus 尺寸 00
 - 75mm 高 SASIL plus 尺寸 1
 - 150mm 高 SASIL plus 尺寸 2/3
- 使用一个匹配的条状导轨, 使其安装非常简单
- 安全插件: 这个插件让开关只能在其断开情况下进行插入和拔出的操作
- 直接可靠地接触到分布母线上

SASILplus is available for NH fuse links in sizes 00 up to 3 and additional common types of construction for the british market.

Type designation code position 2

Universal

- NH fuse links size 00-3
- NH fuse links size 00/1000V
- NH fuse links size 3 (SASILplus AC1000A)
- Switch disconnecter, 800A
- BS fuse links

Additional design features

Modular compact design

- Quick handling due to drawer and plug-in technology
- Multifaceted due to 25mm grid dimension
 - 50mm SASILplus size 00
 - 75mm SASILplus size 1
 - 150mm SASILplus size 2/3
- Extremely easy installation using a precisely fitted strip guide
- Safe installation: the strip can only be installed and removed in the switched-off condition
- Reliable direct contacting on field distribution busbars

安装尺寸订货信息 / Order information installation size

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
举例 Example	SASIL-P	L 00/	H 3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07	

↑
安装尺寸
Installation size

位置 2 的型号代码是关于 SASILplus 的安装尺寸, 可以从下面选项中选择, 确定安装尺寸:

Position 2 of the type code stands for the installation size of the SASILplus. To determine the installation size, you can choose from the following choices:

安装尺寸 / Installation size

00	DIN NH-尺寸00 (高度50mm)/DIN NH size 00 (height 50mm)
1	DIN NH-尺寸1 (高度75mm)/DIN NH size 1 (height 75mm)
2	DIN NH-尺寸2 (高度150mm)/DIN NH size 2 (height 150mm)
3	DIN NH-尺寸3 (高度150mm)/DIN NH size 3 (height 150mm)
00-1000V	DIN NH-尺寸 国标 AC1000V/160A (高度150mm) DIN NH size gB AC1000V/160A (height 150mm)
3-1000A	DIN NH-尺寸3 (高度300mm) 设计为1000A DIN NH size 3 (height 300mm) design for 1000A
800A/LTS	隔离开关 800A (高度 150mm)/Switch disconnecter 800A (height 150mm)
-BSA3	英国标准 A3 (63A) 高度/height 50mm
-BSBX	英国标准 BX (125A) 高度/height 75mm
-BSB1	英国标准 B1 (100A) 高度/height 75mm
-BSB2	英国标准 B2 (200A) 高度/height 150mm
-BSB4	英国标准 B4 (400A) 高度/height 150mm
-BSB6	英国标准 B6 (600A) 高度/height 150mm (仅使用 LAWSON-熔断器/only LAWSON-fuses)

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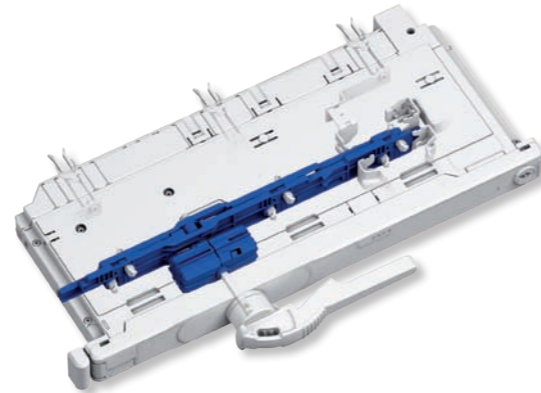
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位置 3：分断能力 / *Swiching capacity*



SASIL plus 将以其卓越的技术参数来证明自己。拥有专利的触头系统和双断点特性，是保证其性能和耐久性的基础。

位置 3 型号说明

性能强大

- 普通分断能力，用 N 表示
- AC690V 短路电流能力 55kA
- AC400V 使用类型 AC-23B

高分断能力，用 H 表示

- AC500V, 0mm 接地距离时，短路电流能力 100kA
- AC690V 使用类型 AC-23B
- DC220V 使用类型 DC-22B
- DC440V 使用类型 DC-21B

其他设计特点

耐用性

- 取得专利的低损耗接触系统使得产品具有很长的寿命。
- AC500V, 50mm 接地距离时，短路电流能力 120kA

注意

DIN EN 60947-3 依据 2012-09 标准：触头在短路能力试验（试验 IV）之后，不可以粘连。金米勒的产品是根据这个标准进行设计的。触头的短路耐受能力符合在电源接通时和不带电时的短路试验，这也是试验 IV 的一个部分。

SASILplus will convince with its outstanding technical parameters. The patented contact system and the double-break-feature are the basis for performance and durability.

Type designation code position 3

Powerful

- Normal switching capacity, design N
- 55kA short-circuit current at AC690V
- AC-23B at AC400V

High switching capacity, design H

- 100kA short-circuit current at AC500V at 0mm distance to grounded parts, AC500V
- AC-23B at AC690V
- DC-22B at DC220V
- DC-21B at DC440V

Additional product features

Durable

- Long product lifetime due to the patented low-wear contact system.
- 120kA short-circuit current at 50mm distance from the grounded parts, AC500V

Note

In accordance to DIN EN 60947-3: 2012-09 the contact must not stick after the test of the short-circuit activation capacity (test sequence IV). JEAN MÜLLER devices are designed accordingly. The short-circuit withstand in contrast conforms to a short-circuit test in the closed position and does not stress the switch contact. It is a component of test sequence IV.

分断能力订货信息

Order information swiching capacity

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

↑
分断能力
Swiching capacity

位置 3 的型号代码是关于 SASILplus 的分断能力，可以从下面选项中选择，确定分断能力：

Position 3 of the type code stands for the swiching capacity of the SASILplus. To determine the swiching capacity, you can choose from the following choices:

分断能力 / *Swiching capacity*

N	普通分断 / <i>Normal</i> (AC-23B (AC400V)/ 最大 55kA)
H	高分断 / <i>Heigh</i> (AC-23B (AC690V)/ 最大 120kA)

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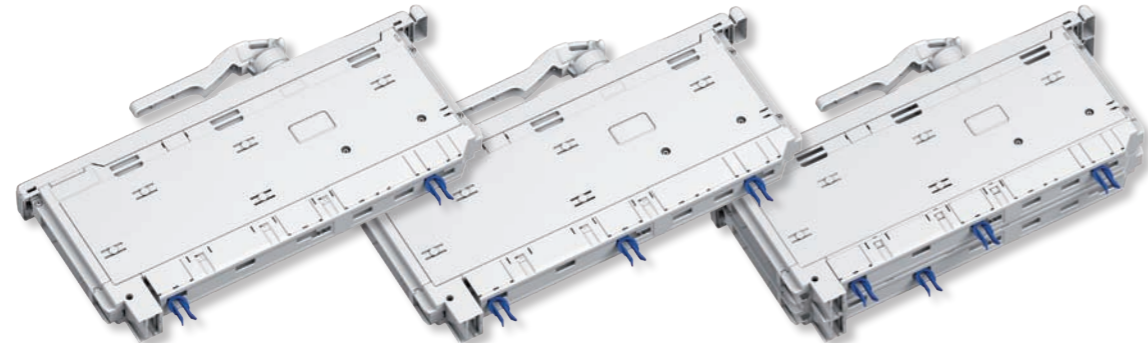
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位置 4 + 5: 极数与母线系统

Number of poles and busbar system



SASIL plus 系统多样化。有 2 级、3 级、4 级结构，而且还可以应用于 185mm 和 60mm 的母线系统上。

The SASILplus system is versatile. Versions for 2-pole, 3-pole and 4-pole construction are also available as well as for the 185mm and 60mm busbar systems.

位置 4+5 型号说明

多样化

直流应用

2 级 SASIL plus

- 370mm (2X185mm) 母线系统
- 电压达到 DC440V

交流应用

- 185mm 与 60mm 母线系统
- 电压达到 AC690V

3 级 SASIL plus

- 特殊型号电压达到 AC1000V

4 级 SASIL plus

- N 相在 L2 和 L3 相之间
- 3 与 4 级的开关可以混合装配
- N 相会提前通电和滞后断电
- N 相可以接 CT

其他系统部件

完整性

SASIL plus 系统的附件范围很广。从外壳部分的安装工具，到母线支架和固定原理，再到根据客户要求定制的安装方案及各自的附件系统等，金米勒都是您的合作伙伴。

Type designation code positions 4 + 5

Versatile

DC applications

2-pole SASILplus

- Busbar system 370mm (2 x 185mm)
- Up to DC440V

AC applications

- 185mm and 60mm busbar system
- Up to AC690V

3-pole SASILplus

- Special type up to AC1000V

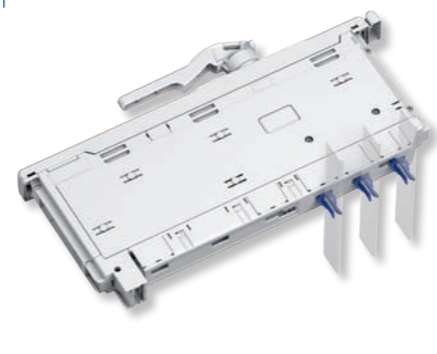
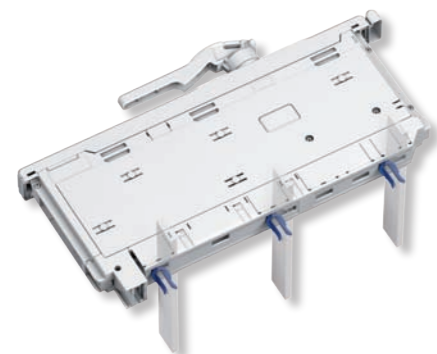
4-pole SASILplus

- Neutral pole between L2 and L3
- 3- and 4-pole mixed assembly is possible
- Neutral advanced switch-on and lagging switch-off
- Current transformer in N is possible

Additional system components

Complete

The SASILplus system has a wide range of accessories. JEAN MÜLLER is your partner for all applications ranging from enclosure section construction kits to type-tested busbar supports and fixing elements through to installation solutions customised for the respective enclosure system.



极数与母线系统订货信息

Order information number of poles and busbar system

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07
				极数 Number of poles	母线系统 Busbar system												

位置 4 的型号代码是关于 SASILplus 的极数，可以从下面选项中选择，确定极数：

Position 4 of the type code stands for the number of poles of the SASILplus. To determine the number of poles, you can choose from the following choices:

极数 / Number of poles

2	2 极 / 2-pole
3	3 极 / 3-pole
4	4 极 (2 倍高度) / 4-pole (double height)
6	2 x 3 极 (双开关) / 2 x 3-pole (double strip)

位置 5 的型号代码是 SASILplus 所用的母线系统，可以从下面选项中选择，确定母线系统：

Position 5 of the type code stands for the busbar system of the SASILplus. To determine the busbar system, you can choose from the following choices:

母线系统 / Busbar system

1	母排间距为 185mm，母排厚度为 10mm 185mm Busbar distance and busbar thickness 10mm
6	母排间距为 60mm，母排厚度为 5mm 60mm Busbar distance and busbar thickness 5mm

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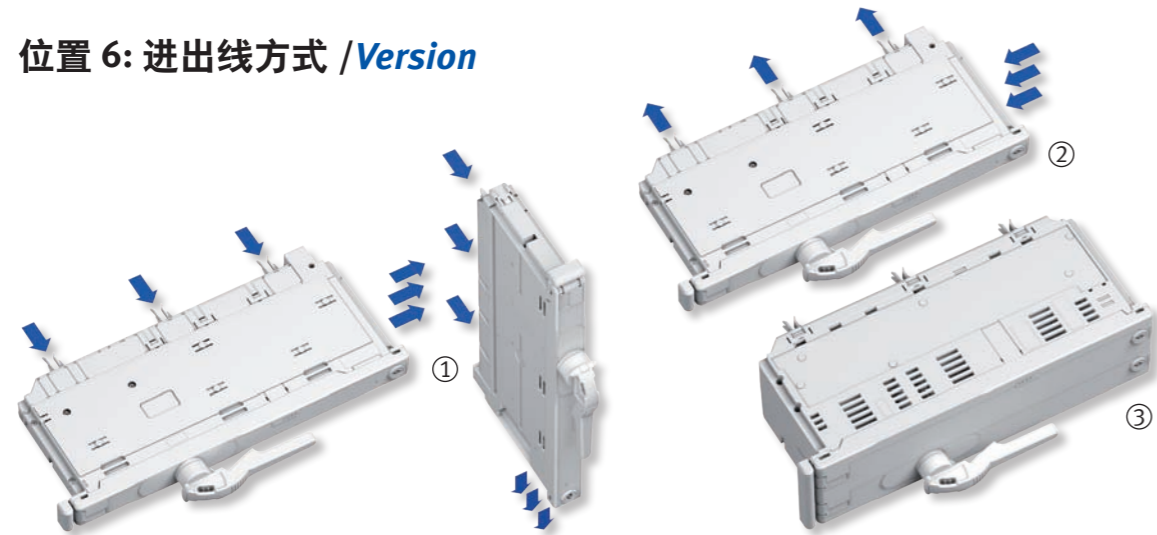
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位置 6: 进出线方式 / Version



SASIL plus 系统应用范围很广。它由大量不同开关型号来确定。无论它是出线开关、进线开关、双并开关或是耦合开关，SASIL plus 都能够为每一个应用提供最佳的解决方案。

The SASILplus system offers an extensive range of applications. This is ensured by the vast number of different strip types. It doesn't matter whether it is an outgoing strip, feeding strip, double strip or coupling strip. SASILplus offers a suitable solution for every application.

位置 6 型号说明

- 出线开关
- 进线开关 (转换电流方向)
- 双并开关从尺寸 2 开始, 是两个单独的出线开关
- 耦合开关可以连接 / 断开两段母线系统

- 所有开关都是右侧 / 左侧电缆连接
- 所有开关都可以水平与垂直安装

其他设计特点

安装简单

- 刚好沿着条型导轨进行安装
- 弹性触指与母线可靠接触
- 只有在系统断开时才允许装入 / 拆出操作

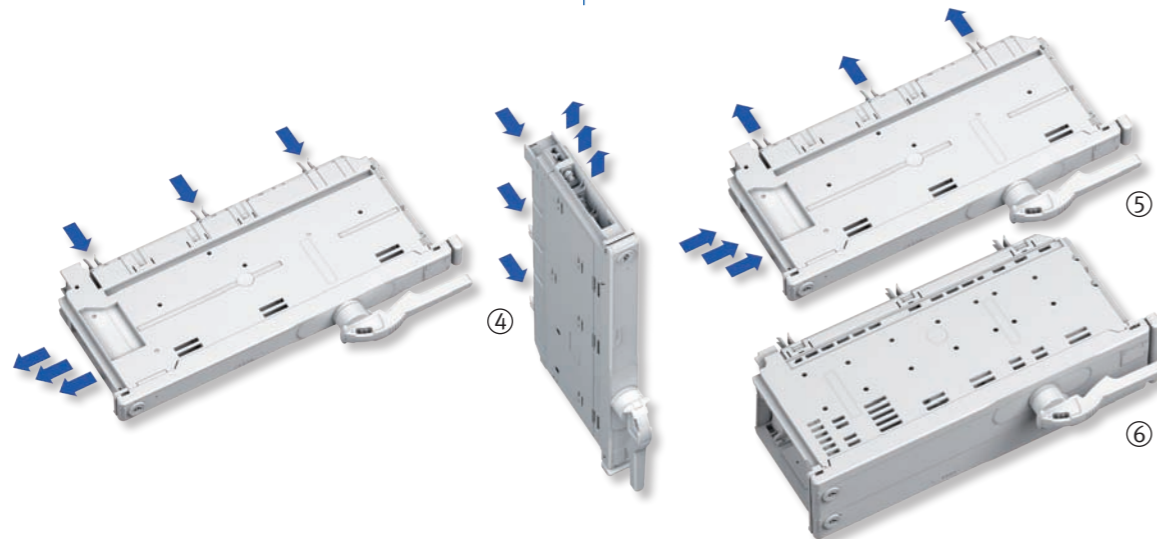
Type designation code position 6

- Outgoing strip
- Feeding strips (reversed current direction)
- Double strips starting at size 2 for two separate outgoings
- Coupling strips for the connection/separation of double busbar systems
- All strips are available with right/left cable connection
- All strips can be installed both horizontally and vertically.

Additional product features

Easy to install

- Installation guided by precisely fitted strip guide
- Reliable contacting with the busbar using plug-in contacts
- Installation/disassembly only possible when the system is shut-off



进出线方式订货信息 Order information Version

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

进出线方式
Version

位置 6 的型号代码是关于 SASILplus 的进出线方式, 可以从下面选项中选择, 确定进出线方式:

Position 6 of the type code stands for the version of the SASILplus. To determine the version, you can choose from the following choices:

进出线方式 / Version

AR	出线开关右侧接线 (与底部接线一致 (AU)) Outgoing strip connection right (corresponds to connection bottom)	①
ER	进线开关右侧接线 / Feeding strip connection right	②
ARD	双并出线开关右侧接线 Outgoing strip with connection right as double strip	
KR	耦合开关右侧接线 (AR) / Coupling strip connection right	③
AL	出线开关左侧接线 (与顶部接线一致 (AO)) Outgoing strip connection left (corresponds to connection top)	④
EL	进线开关左侧接线 (AL) / Feeding strip connection left	⑤
ALD	双并出线开关左侧接线 Outgoing strip with connection left as double strip	
KL	耦合开关左侧接线 / Coupling strip connection left	⑥

SASILplus-MOT 系列开关只有右侧接线 / SASILplus-MOT only with connection right!

电缆连接扭矩请见 A-99 页 / Torque wire connection see page A-99

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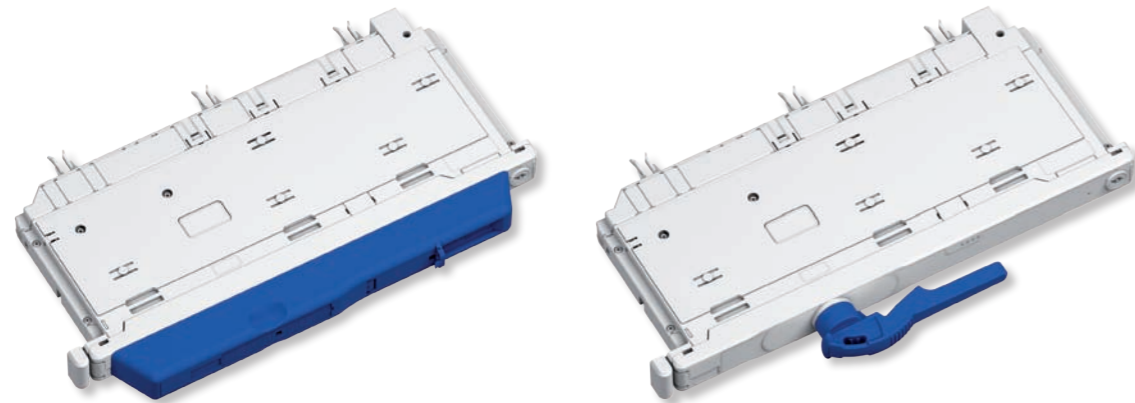
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位置 7：驱动模式 / Mode of drive



通过工厂配置的马达设备，SASIL plus-MOT 是远程控制开关。外接 DC24V 电源，几乎能够触发所有控制系统。SASIL plus-MOT 可以应用于 2 级和 3 级系统。

Thanks to its factory-installed motor drive, the SASILplus-MOT is the device for remote-controlled switching. External activation (DC24V) can be triggered on a contact from nearly every control system. SASILplus-MOT is available for the 2- and 3-pole systems.

位置 7 型号说明

- 就地操作：手动操作
- 自动操作：电动驱动

Type designation code position 7

- For onsite operation: manual actuation
- Automated switching: motor drive

其他设计特点

安全性

熔断器隔离开关只能由受过专门训练的人员来进行分合闸操作。而 SASIL plus 可以由用户自己操作，更加安全，因为它具有独立的弹簧储能机构，确保提供最佳的速度和力量。

Additional design features

Safety

With good reason, fused switchgear such as disconnectors and strips may only be operated by trained personnel. SASILplus clearly offers more safety with its user-independent snap-action mechanism since the design ensures that switching will always be done with the optimal speed and force.

此外，电机驱动器使 SASIL plus 开关可以远程控制。

The attached motor drive transforms the SASILplus into remote-controlled switchgear.

双向显示

SASIL plus-MOT 显示状态和故障信息。若配备 EE07 模块就可以显示相电流、相电压等参数。

2-line display

SASILplus-MOT displays status and error messages. In the version with the monitoring module EE07 values as the phase currents and the voltage will be displayed.

驱动模式订货信息

Order information mode of drive

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

↑
驱动模式
Mode of drive

位置 7 的型号代码是关于 SASILplus 的驱动模式，可以从下面选项中选择，确定驱动模式：

Position 7 of the type code stands for the mode of drive of the SASILplus. To determine the mode of drive, you can choose from the following choices:

驱动模式 / Mode of drive

H	手动驱动 / Manual actuation
M	<ul style="list-style-type: none"> · 电动驱动 (SASILplus-MOT)* / Motor drive (SASILplus-MOT)* · 外部 DC24V 电源 / External voltage supply DC24V · DC24V 开关脉冲持续时间为 0.3S 以上 <i>Pulse duration of the DC24V switching pulse min. 0,3s or permanent contact</i> · 只有在配合熔断器监测 ES08 或电能记录模块 EE07 时使用 <i>Only in conjunction with fuse monitoring ES08 or energy data logging EE07</i>

* 只有右侧接线 / *Just connection right

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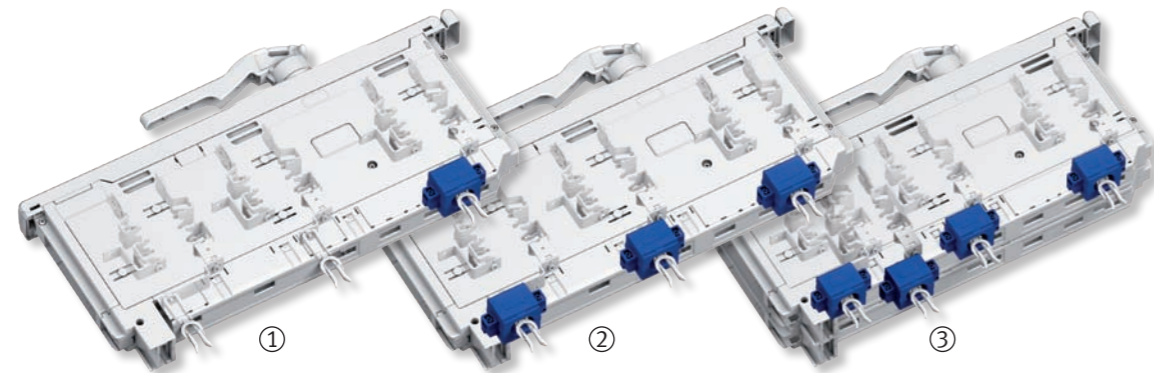
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位置 8: 电流互感器 (CT) 数量 / Number of current transformers



SASIL plus 可以内置或外加 CT，这些触点可通过预组装的电缆线束（附件）连接到接插件。

CT 位置

1 个 CT	L1			
3 个 CT	L1	L2	L3	
4 个 CT	2 x L1	L2	L3	
3+1 个 CT	L1	L2	L3	N

当 SASIL plus 内置双金属测量仪表并需额外连接到更高端系统时，推荐安装 4 个 CT。如果只使用 3 个 CT，L1 被环绕通过时，会由于双金属测量仪表的内部电流损耗而产生测量误差。在 L1 相采用两个独立的 CT，可以避免这个测量误差。

其他设计特点

安全性

插入的 CT 是插接接触，不需要额外螺丝将其连接到主回路，因此无附加的电气连接。

CT 与电缆束完全集成在设备上，不与任何外部布线交叉。

SASILplus can be equipped or retrofitted with current transformer (CT). These are inserted via the plug-in contacts and wired using prepared cable harnesses (accessory).

Current transformer positions

1 current transformer	L1			
3 current transformers	L1	L2	L3	
4 current transformers	2 x L1	L2	L3	
3+1 current transformers	L1	L2	L3	N

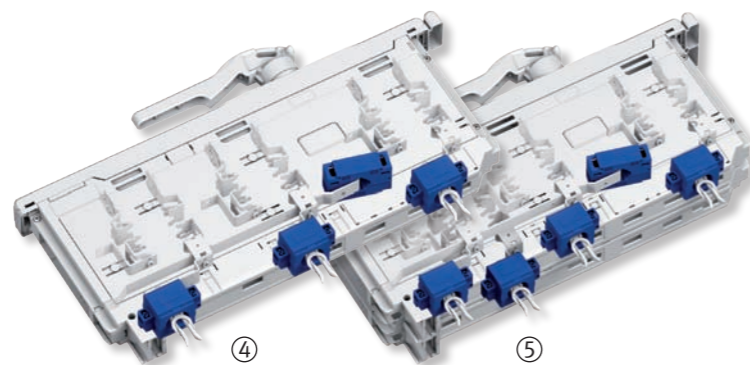
The installation of 4 current transformers is recommended when using a bimetal measurement device installed in the SASILplus and an additional connection to the higher-ranking system. A measurement error can occur due to the internal current consumption of the bimetal measurement device if L1 is looped through when only 3 current transformer are used. This measurement error can be prevented by using two independent current transformers in L1.

Additional design features

Safety

The insertion of the current transformers using the plug-in contacts does not require any additional screw connections in the main circuit and therefore no additional electrical connection.

Current transformers and cable harnesses are fully integrated in the device and do not cross any external wiring.



电流互感器 (CT) 数量订货信息

Order information number of current transformers

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

CT 数量
Number of current transformers

位置 8 的型号代码是关于 SASILplus 的 CT 数量，可以从下面选项中选择，确定 CT 数量：

Position 8 of the type code stands for the number of current transformers of the SASILplus. To determine the number of current transformers, you can choose from the following choices:

CT 数量 / Number of current transformers

*	无 CT / No current transformer
1	1 个 CT 在 L1 上 / 1 current transformer in L1 ①
3	3 个 CT / 3 current transformers (L1, L2, L3) ②
4 ¹⁾	4 个 CT / 4 current transformers (L1 (2x), L2, L3) ④
6	6 个 CT (L1 (2x), L2 (2x), L3 (2x), 仅适用于双并开关) 6 current transformers (L1 (2x), L2 (2x), L3 (2x), only double strip)
8	8 个 CT (L1 (4x), L2 (2x), L3 (2x), 仅适用于双并开关) 8 current transformers (L1 (4x), L2 (2x), L3 (2x), only double strip)
3+1	4 个 CT / 4 current transformers (L1, L2, L3, N) ③
4+1 ¹⁾	5 个 CT / 5 current transformers (L1 (2x), L2, L3, N) ⑤

* 省略不写 / Field will not filled
1) 只工厂供货 / Only factory-provided

例如 / Example: SASIL-PL/N31/AR-H

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位置 9：电流互感器（CT）精度类型 Precision of category of the current transformers



用于 SASIL plus 的 CT 具有多种精度等级。此精度等级描述了在（DIN IEC 60044-1）标准指定范围内的测量偏差。

Current transformers are available for SASILplus in various accuracy classes. The accuracy class describes the defined tolerances (DIN IEC 60044-1) of the measurement deviations.

位置 9 型号说明

- 产品特点
- 精度等级从 0.2S 级到 3 级
 - 有或没有批准符号
 - 有或没有校准证书
 - 有或没有最终测量指示

Type designation code position 9

Features

- Accuracy classes of class 0.2S up to 3
- With or without approval symbol
- With or without calibration certificate
- With or without indication of the final inspection measurements

其他设计特点

CT 的 0.2S...3 精确等级的误差容许值均符合 DIN IEC 60044-1 标准。

Additional design features

Error tolerances for current transformer of classes 0.2S ... 3 in accordance to DIN IEC 60044-1

精度类型 Precision of category	电流误差 / Current error $\pm \Delta_i$ bei					角差 / Error angle $\pm \Delta_r$ bei				
	1,2I _n 1,0I _n	0,2I _n	0,1I _n	0,05I _n	0,01I _n	1,2I _n 1,0I _n	0,2I _n	0,1I _n	0,05I _n	0,01I _n
	[%]					[min]				
0,2	0.2	0.35	-	0.75	-	10	15	-	30	-
0,2S	0.2	0.2	-	0.35	0.75	10	10	-	15	30
0,5	0.5	0.75	-	1.5	-	30	45	-	90	-
0,5S	0.5	0.5	-	0.75	1.5	30	30	-	45	90
1	1	1.5	-	3	-	60	90	-	180	-
3	3	-	-	-	-	120	-	-	-	-

电流互感器（CT）精度类型订货信息

Order information precision of category of the current transformers

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

CT 精度类型
Precision of category of the current transformers

位置 9 的型号代码是关于 SASILplus 的 CT 精度，可以从下面选项中选择，确定 CT 精度：

Position 9 of the type code stands for the precision of the current transformers of the SASILplus. To determine the precision of the current transformers, you can choose from the following choices:

CT 精度类型 / Precision of current transformers

	等级 Class	批准证书 Approval certificate	合格证 Certified	合格证，校准证书 Certified, with calibration certificate	测量数据指示 With indication of measured datas
W	1*	-	-	-	-
WV	0.5	x	-	-	-
WVB	0.5	x	x	-	-
WVE	0.5	x	-	x	-
WVM	0.5	x	-	x	x
WVS	0.5S	x	-	-	-
WVSB	0.5S	x	x	-	-
WVSE	0.5S	x	-	x	-
WVSM	0.5S	x	-	x	x
WZ	0.2	x	-	-	-
WZB	0.2	x	x	-	-
WZE	0.2	x	-	x	-
WZM	0.2	x	-	x	x
WZS	0.2S	x	-	-	-
WZSB	0.2S	x	x	-	-
WZSE	0.2S	x	-	x	-
WZSM	0.2S	x	-	x	x

* 初级电流 50A → 等级 3 / With primary current 50A → Class 3

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位置 10+11: 电流互感器 (CT) 的初级和次级电流 Primary and secondary current of the current transformers



根据 SASIL plus 的大小, 提供各种初级和次级电流的 CT。这个 2 级的 SASIL plus 是个特例, 装有一个分流和动圈式测量装置用于测量直流电流。

In accordance with the SASILplus size, current transformers are provided with various primary and secondary currents. The 2-pole SASILplus is a special case. A shunt and a moving coil measurement device are used to measure the DC currents.

位置 10+11 型号说明

- 初级电流从 AC50A 到 AC600A
- 分离器从 DC150A 到 DC600A

Order type code positions 10 + 11

- Primary currents from AC50A to AC600A
- Shunts for DC150A up to DC600A

其他设计特点

SASIL plus 可以在出厂时配备电子数据采集模块。它们与次级电流为 200mA 的 CT 匹配。这些 CT 只与 EE07 模块连接。

Additional design features

SASILplus can also be factory-equipped with electronic measurement data recording. These electronics are precisely tuned to current transformers with a secondary current of 200mA. These current transformers are only available in connection with the EE07 module.

电流互感器 (CT) 的初级和次级电流订货信息 Order information primary and secondary current of the current transformers

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

CT 一次侧电流 CT 二次侧电流
Primary current of the CT Secondary current of the CT

位置 10 的型号代码是关于 SASILplus 的 CT 初级电流, 可以从下面选项中选择, 确定 CT 初级电流大小:

Position 10 of the type code stands for the primary current of the current transformers of the SASILplus. To determine the primary current of the current transformers, you can choose from the following choices:

CT 初级电流 / Primary current of the current transformers

	适用尺寸 / Available for size	尺寸 / Size 00	尺寸 / Size 1	尺寸 / Size 2	尺寸 / Size 3
50	50A (等级 / Class 3)	x	-	-	-
60	60A	x	-	-	-
75	75A	x	-	-	-
100	100A	x	x	-	-
125	125A	x	x	-	-
150	150A	x	x	x	-
200	200A	-	x	x	-
250	250A	-	x	x	x
300	300A	-	-	x	x
400	400A	-	-	x	x
500	500A	-	-	-	x
600	600A	-	-	-	x
SH150	DC150A 分流 / Shunt	x	-	-	-
SH250	DC250A 分流 / Shunt	-	x	-	-
SH400	DC400A 分流 / Shunt	-	-	x	-
SH600	DC600A 分流 / Shunt	-	-	-	x

位置 11 的型号代码是关于 SASILplus 的 CT 次级电流, 可以从下面选项中选择, 确定 CT 次级电流大小:

Position 11 of the type code stands for the secondary current of the current transformers of the SASILplus. To determine the secondary current of the current transformers, you can choose from the following choices:

CT 次级电流 / Secondary current of the current transformers

1	1A
5	5A
0.2	0.2A (仅用于电子监测模块 EE07)* 0.2A (only for electronic monitoring module EE07)*
60	DC60mV 分流 / Shunt

* 初级电流 60A 和 70A 的等级为 1, 从 100A 起等级为 0.5 (无批准证书)
With primary current 60A and 70A class 1, from 100A class 0,5 (without approval certificate)

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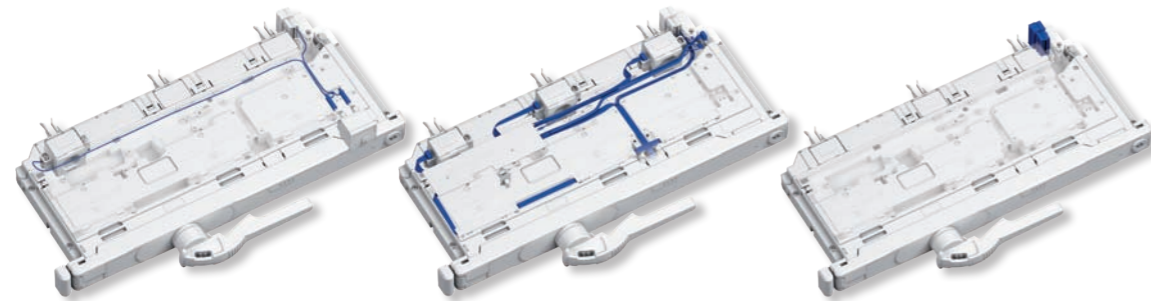
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位置 12+13: SASIL plus 的电流互感器 (CT) 布线和辅助电路接线 Wiring of the current transformers of the SASILplus and connector strip for wiring of auxiliary current



CT 有多种接线方式, 例如, 可以直接接在条形连接器或测量设备上。

辅助电流连接到条形连接器上, 例如 CT、开关位置指示、SASIL plus-MOT 的控制连接。

位置 12 型号说明

- CT 接到条形连接器和测量设备上
- 内部接线 EE
- 为以后改装而准备的电缆束 (不含电子模块的完整装配)

位置 13 型号说明

- 条形连接器

其他设计特点

相应的预安装电缆束都被列在附件里。能源数据记录不能被改造, 它由工厂预置并 100% 做了最终检查。

The current transformers can be wired in various ways such as directly on the connector strip or the measurement device.

The auxiliary current is wired on the connector strip, for example current transformer, position indicators, activation contacts for SASILplus-MOT.

Type designation code position 12

- Current transformer wiring on the connector strip and measurement device
- Internal wiring for EE
- Prepared cable harness for later retrofitting (complete assembly without electronic module)

Type designation code position 13

- Connector strip

Additional design features

The corresponding pre-assembled cable harnesses are listed in the accessories. The energy data recording cannot be retrofitted; it is delivered from the factory and undergoes a 100% final inspection.

SASIL plus 的电流互感器 (CT) 接线和辅助电路接线订货信息 Order information wiring of the current transformers of the SASILplus and connector strip for wiring of auxiliary current

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

CT 接线 用于辅助信号的条形连接器
Wiring of the current transformers Connector strip for wiring of auxiliary current

位置 12 的型号代码是关于 SASILplus 的 CT 接线, 可以从下面选项中选择, 确定 CT 接线方式:

Position 12 of the type code stands for the wiring of the current transformer of the SASILplus. To determine the wiring of the current transformers, you can choose from the following choices:

CT 接线 /Wiring of the current transformers

S	CT 接到条形连接器再接到外部 Current transformer wiring on connector strip for external connection
SN	CT 接到条形连接器, 4 极 (N-相) Current transformer wiring on connector strip 4-pole (N-Conductor)
M	CT 接到测量仪表上 /Current transformer wiring on measuring device
MS	CT 接到测量仪表和条形连接器上 (3 极开关, L1 相 CT 接到测量仪表上) Current transformer wiring on measuring device and connector strip (3-pole strip, current transformer L1 is wired to measuring device)
M+S	CT 接到测量仪表和条形连接器上 (仅适用于有 4 个 CT 的 3 极开关)* Current transformer wiring on measuring device and connector strip (only for 3-pole strip with 4 current transformers)*
EE	内部接线集成到 EE 电路板上 /Internal wiring on circuit board EE
KV	预置可将 CT, 测量仪表和辅助开关连接到条形连接器插头的电缆 Cable prepared for mounting of current transformers, measuring devices and auxiliary switches with plug connector

*3 极开关, L1 相的第 4 个 CT 接到测量仪表上 /3-pole strip, 4th current transformer L1 for measuring device

位置 13 的型号代码是关于 SASILplus 的辅助电路接线连接器, 可以从下面选项中选择, 确定辅助电路接线连接器情况:

Position 13 of the type code stands for the connector strip for wiring of auxiliary current of the SASILplus. To determine the connector strip for wiring of auxiliary current, you can choose from the following choices:

辅助电路接线连接器 /Connector strip for wiring of auxiliary current

*	开关无附件和内部测量与指示 Strips without device accessories and internal measurement and indication
SKL	3 相电路测量, 安装辅助开关, 有电子模块, 以及需连接外部的单相电路测量的情况都必须配条形连接器 Connector strip is necessary for 3-pole current measurement mounting of auxiliary switches, electronic modules, furthermore for 1-pole current measurement with external clamp connection

* = 省略不写 /Field will not filled

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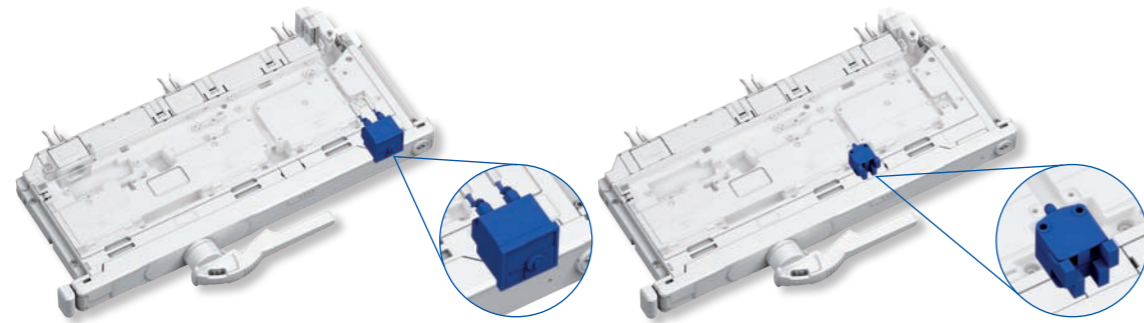
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位置 14+15：测量仪表与位置指示

Measuring devices and position indication



为了在一定区域内快速确定系统的状态，可以在 SASILplus 的面罩后面安装一个测量仪表。通过内部使用微动开关可以监测开关位置，如果设备不带电就会给出一个信号。

位置 14 型号说明

- 动铁式测量仪表（显示有效值）
- 动圈式测量仪表（仅用于直流电路）
- 双金属测量仪表（平均有效值）
- 指针式
- 多种平均值显示

位置 15 型号说明

- 常闭
- 常开
- 常闭和常开

其他产品特点

双金属测量仪表特别适用于监测电缆和变压器。它很慢，可以显示前一个 8 或 15 分钟的平均值。它有很高的扭矩，可以轻松驱动指针，还能随时利用旋转按钮重置。

In order to determine the system status locally at a glance, SASILplus can be equipped with a measurement device behind the front cover. The switching position is monitored internally using a microswitch. The information signal is provided as an potential-free contact on the connector strip.

Type designation code position 14

- Moving iron measuring device (effective value display)
- Moving coil measuring device (direct current application only)
- Bimetallic measuring device (average effective value)
- Drag indicator
- Various average value displays

Type designation code position 15

- Break
- Make
- Break and make

Additional product features

The bimetallic measurement device is particularly suited for the monitoring of cables and transformer. It is so slow that it displays the average value of the last 8 or 15 minutes. It contains such a high torque that it can easily actuate the drag indicator. It can be reset at any time by turning a button.

测量仪表与位置指示辅助开关的订货信息

Order information measuring devices and auxiliary switch for position indication

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07
														测量仪表 Measuring devices	位置指示辅助开关 Auxiliary switch for position indication		

位置 14 的型号代码是关于 SASILplus 的测量仪表，可以从下面选项中选择，确定测量仪表的情况：

Position 14 of the type code stands for the measuring devices of the SASILplus. To determine the measuring devices, you can choose from the following choices:

测量仪表 / Measuring devices

*	无测量仪表 / Without measuring device
MD	动铁式测量仪表 / Moving iron mechanism
MDS	动圈式测量仪表（仅适用于直流） / Moving coil mechanism (only DC)
MB8	双金属测量仪表，指针式，设置时间为 8 分钟 Bimetallic instrument, with drag indicator, setting time 8min.
MB15	双金属测量仪表，指针式，设置时间为 15 分钟 Bimetallic instrument, with drag indicator, setting time 15min.

* = 省略不写 / Field will not filled

位置 15 的型号代码是关于 SASILplus 的位置指示辅助开关，可以从下面选项中选择，确定位置指示辅助开关的情况：

Position 15 of the type code stands for the auxiliary switch for position indication of the SASILplus. To determine the auxiliary switch for position indication, you can choose from the following choices:

位置指示辅助开关 / Auxiliary switch for position indication

*	无位置指示 / Without position indicator
NC	1 常闭 / 1 break contact
NO	1 常开 / 1 make contact
NC+NO	1 常闭 1 常开 / 1 break and 1 make contact

* = 省略不写 / Field will not filled

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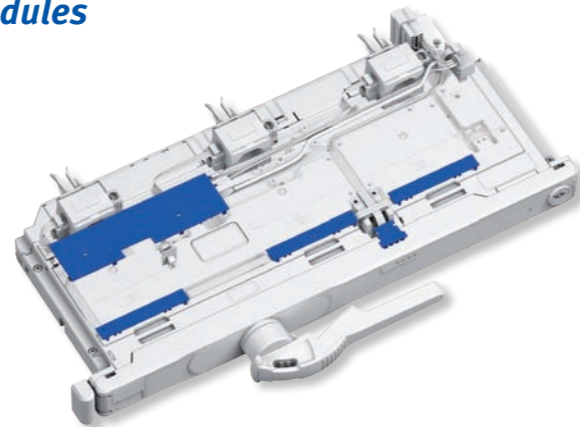
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位置 16: 电子模块 /Electronic modules



不同的应用领域需要不同类型的熔断器监测，从外部直流电源取电或者通过直流变电。
电子监控设备将内置能源数据采集模块 (EE07) 的 SASILplus 整合在 PLVario 系统上。

*Different fields of application require different types of fuse monitoring, from self-powered externally supplied or specific to DC variants.
The electronic monitoring device for energy data acquisition (EE07) installed in the SASILplus integrates the SASILplus in the PLVario system.*

位置 16 型号说明

特点

- 自我供电或外部供电
- 熔断器监测
- 熔断器监测直流
- 多接点电压抽头
- 电子监测系统 EE07
- DC24V 外部供电，通过 RJ45 网线

Type designation code position 16

Features

- Self-powered or externally supplied fuse monitoring
- Fuse monitoring for DC voltage
- Voltage taps at various points
- Electronic monitoring system EE07
- DC24V externally supplied by an RJ45 cable

其他系统特点

为便于现场监控熔断器状态，SASILplus 的每一相熔断器监控器都配了状态指示的 LED 灯。

Additional system features

Every SASILplus fuse monitor is equipped with one status LED per phase to ensure simple local fuse monitoring.

绿色: 熔断器 OK
红色: 熔断器烧毁 / 未插入熔断器

Green: Fuse OK
Red: Fuse has tripped / no fuse is applied

注: 接线图 A-100ff

Note: Wiring plans page A-100ff.

电子模块订货信息

Order information electronic modules

位置 Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
举例 Example	SASIL-P	L	00/	H	3	1/	AL-	H/	3	WVB	150-	1/	MS-	SKL/	MB8/	NO/	ES07

↑
电子模块
Electronic modules

位置 16 的型号代码是关于 SASILplus 的电子模块，可以从下面选项中选择，确定电子模块情况
Position 16 of the type code stands for the electronic modules of the SASILplus. To determine the electronic modules, you can choose from the following choices:

电子模块 /Electronic modules

*	无电子模块/Without electronic modules
ES07	熔断器电子监测，自供电/Electronic fuse monitoring, self-powered
EE07	电子监测模块EE07，能量管理系统PLVario-NET ¹⁾ Electronic monitoring module EE07 for energy management system PLVario-NET ¹⁾
ES08	熔断器电子监测，外部独立供电 Electronic fuse monitoring, separate-supply, independing on the power supply direction
ES09	熔断器电子监测，仅用于直流，外部供电 Electronic fuse monitoring, just for DC applications, seperate-supply
UA	输出端电压量 ²⁾ /Voltage tap output ²⁾
UE	输入端电压量 ²⁾ /Voltage tap input ²⁾
UE+UA	输入端电压量与输出端电压量 ^{2) 3)} Voltage tap input and voltage tap output ^{2) 3)}
UF	熔断器输入端与熔断器输出端之间的电压量 ^{2) 3)} Voltage tap at the fuse-output and voltage tap at the fuse-input ^{2) 3)}

* = 省略不写 /Field will not filled

1) = 只有 200mA 的 CT 是不能连接一个测量仪表的

Just 200mA-current transformer, connection of a measuring device not possible!

2) = 只允许在 AC400V 工作电压下 /Permitted only with AC400V operating voltage

3) = 无 CT (见接线图) /Just without current transformer (see wiring diagram)

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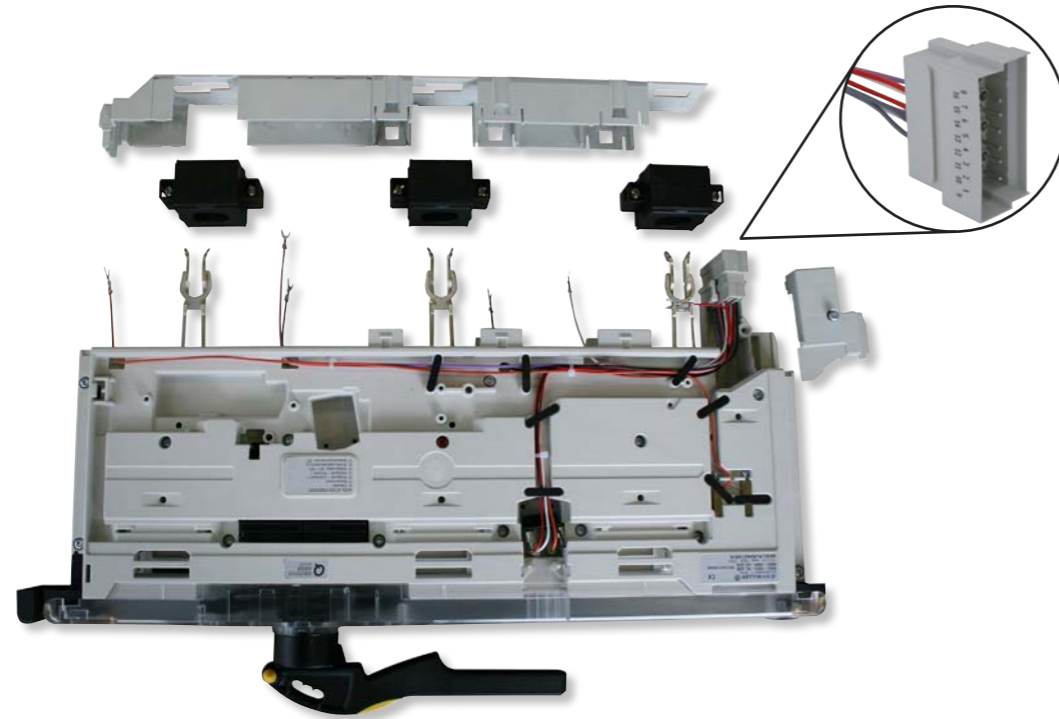
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布线的改造或升级

Wiring looms to exchange or to upgrade



适用于 SASILplus 185-10 母线系统、右侧出线的电缆束布线

Wiring looms for SASILplus with cable connection compartment right (AR) for busbar system 185-10

1CT+ 测量仪表 / 1 current transformer + measuring device

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	x	BS-KB01/1/1WM/SASIL-P00/AR	A8540101
1		BS-KB01/1/1WM/SASIL-P1/AR	A8140101
2-3		BS-KB01/1/1WM/SASIL-P2-3/AR	A8740101

3CT+ 辅助开关 / 3 current transformers + auxiliary switch

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	✓	BS-KB04/1/3WH/SASIL-P00/AR	A8540104
1		BS-KB04/1/3WH/SASIL-P1/AR	A8140104
2-3		BS-KB04/1/3WH/SASIL-P2-3/AR	A8740104

3CT+ 测量仪表 + 辅助开关 / 3 current transformers + measuring device + auxiliary switch

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	✓	BS-KB05/1/3WMH/SASIL-P00/AR	A8540105
1		BS-KB05/1/3WMH/SASIL-P1/AR	A8140105
2-3		BS-KB05/1/3WMH/SASIL-P2-3/AR	A8740105

适用于 SASILplus 185-10 母线系统、左侧出线时的电缆束布线

Wiring looms for SASILplus with cable connection compartment left (AL) for busbar system 185-10

1CT+ 测量仪表 / 1 current transformer + measuring device

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	x	BS-KB51/1/1WM/SASIL-P00/AL	A8540151
1		BS-KB51/1/1WM/SASIL-P1/AL	A8140151
2-3		BS-KB51/1/1WM/SASIL-P2-3/AL	A8740151

3CT+ 辅助开关 / 3 current transformers + auxiliary switch

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	✓	BS-KB54/1/3WH/SASIL-P00/AL	A8540154
1		BS-KB54/1/3WH/SASIL-P1/AL	A8140154
2-3		BS-KB54/1/3WH/SASIL-P2-3/AL	A8740154

3CT+ 测量仪表 + 辅助开关 / 3 current transformers + measuring device + auxiliary switch

尺寸 Size	条形连接器 Connector strip	型号 Type	订货号 Article-No.
00	✓	BS-KB55/1/3WMH/SASIL-P00/AL	A8540155
1		BS-KB55/1/3WMH/SASIL-P1/AL	A8140155
2-3		BS-KB55/1/3WMH/SASIL-P2-3/AL	A8740155

辅助开关 / Auxiliary switch (NC+NO)

尺寸 Size	开断容量 Switching capacity	辅助开关 Auxiliary switch	包 PU	型号 Type	订货号 Article-No.
00-3	6A/400V	常闭 + 常开触点 Break + make contact	1	HS-SASIL-P00-3/NC+NO	A8008100
		常闭触点 / Break contact		HS-SASIL00-3/NC	A8008101
		常开触点 / Make contact		HS-SASIL00-3/NO	A8007102



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测量仪表 / Measuring devices



变比 / Transformer ratio N/1A

尺寸 Size	范围 Scale	SASILplus 为右侧接线 (AR+AU) SASILplus cable connect right (AR + AU)			SASILplus 为左侧接线 (AL+AO) SASILplus cable connect left (AL + AO)		
		动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.
00	0-60/120	A8543121	-	-	A8543141	-	-
00	0-75/150	A8543122	-	-	A8543142	-	-
00	0-100/120	-	A8545120	A8547120	-	A8545140	A8547140
00	0-100/200	A8543123	-	-	A8543143	-	-
00	0-125/150	-	A8545121	A8547121	-	A8545141	A8547141
00	0-125/250	A8543124	-	-	A8543144	-	-
00	0-150/180	-	A8545122	A8547122	-	A8545142	A8547142
00	0-150/300	A8543125	-	-	A8543145	-	-
1-3	0-60/120	A8443121	-	-	A8443141	-	-
1-3	0-75/150	A8443122	-	-	A8443142	-	-
1-3	0-100/120	-	A8445120	A8447120	-	A8445140	A8447140
1-3	0-100/200	A8443123	-	-	A8443143	-	-
1-3	0-125/150	-	A8445121	A8447121	-	A8445141	A8447141
1-3	0-125/250	A8443124	-	-	A8443144	-	-
1-3	0-150/180	-	A8445122	A8447122	-	A8445142	A8447142
1-3	0-150/300	A8443125	-	-	A8443145	-	-
1-3	0-200/240	-	A8445123	A8447123	-	A8445143	A8447143
1-3	0-200/400	A8443126	-	-	A8443146	-	-
1-3	0-250/300	-	A8445124	A8447124	-	A8445144	A8447144
1-3	0-250/500	A8443127	-	-	A8443147	-	-
1-3	0-300/360	-	A8445125	A8447125	-	A8445145	A8447145
1-3	0-300/600	A8443128	-	-	A8443148	-	-
1-3	0-400/480	-	A8445126	A8447126	-	A8445146	A8447146
1-3	0-400/800	A8443129	-	-	A8443149	-	-
1-3	0-500/600	-	A8445127	A8447127	-	A8445147	A8447147
1-3	0-500/1000	A8443130	-	-	A8443150	-	-
1-3	0-600/720	-	A8445128	A8447128	-	A8445148	A8447148
1-3	0-600/1200	A8443131	-	-	A8443151	-	-

AR = 右侧接线 / Connection right
AU = 底部接线 / Connection bottom

AL = 左侧接线 / Connection left
AO = 顶部接线 / Connection top

变比 / Transformer ratio N/5A

尺寸 Size	范围 Scale	SASILplus 为右侧接线 (AR+AU) SASILplus cable connect right (AR + AU)			SASILplus 为左侧接线 (AL+AO) SASILplus cable connect left (AL + AO)		
		动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.
00	0-60/120	A8544121	-	-	A8544141	-	-
00	0-75/150	A8544122	-	-	A8544142	-	-
00	0-100/120	-	A8516120	A8548120	-	A8546140	A8548140
00	0-100/200	A8544123	-	-	A8544143	-	-
00	0-125/150	-	A8546121	A8548121	-	A8546141	A8548141
00	0-125/250	A8544124	-	-	A8544144	-	-
00	0-150/180	-	A8546122	A8548122	-	A8546142	A8548142
00	0-150/300	A8544125	-	-	A8544145	-	-
1-3	0-60/120	A8444121	-	-	A8444141	-	-
1-3	0-75/150	A8444122	-	-	A8444142	-	-
1-3	0-100/120	-	A8446120	A8448120	-	A8446140	A8448140
1-3	0-100/200	A8444123	-	-	A8444143	-	-
1-3	0-125/150	-	A8446121	A8448121	-	A8446141	A8448141
1-3	0-125/250	A8444124	-	-	A8444144	-	-
1-3	0-150/180	-	A8446122	A8448122	-	A8446142	A8448142
1-3	0-150/300	A8444125	-	-	A8444145	-	-
1-3	0-200/240	-	A8446123	A8448123	-	A8446143	A8448143
1-3	0-200/400	A8444126	-	-	A8444146	-	-
1-3	0-250/300	-	A8446124	A8448124	-	A8446144	A8448144
1-3	0-250/500	A8444127	-	-	A8444147	-	-
1-3	0-300/360	-	A8446125	A8448125	-	A8446145	A8448145
1-3	0-300/600	A8444128	-	-	A8444148	-	-
1-3	0-400/480	-	A8446126	A8448126	-	A8446146	A8448146
1-3	0-400/800	A8444129	-	-	A8444149	-	-
1-3	0-500/600	-	A8446127	A8448127	-	A8446147	A8448147
1-3	0-500/1000	A8444130	-	-	A8444150	-	-
1-3	0-600/720	-	A8446128	A8448128	-	A8446148	A8448148
1-3	0-600/1200	A8444131	-	-	A8444151	-	-

AR = 右侧接线 / Connection right
AU = 底部接线 / Connection bottom

AL = 左侧接线 / Connection left
AO = 顶部接线 / Connection top

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千分表测量设备

Dial gauges for measuring devices

变比 / Transformer ratio N/1A



范围 Scale	SASILplus 为右侧接线 (AR+AU) SASILplus cable connect right (AR + AU)			SASILplus 为左侧接线 (AL+AO) SASILplus cable connect left (AL + AO)		
	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.
0-50A/100A	A8025100	-	-	A8025120	-	-
0-75A/150A	A8025101	-	-	A8025121	-	-
0-100A/120A	-	A8027100	A8023100	-	A8027110	A8023110
0-100A/200A	A8025102	-	-	A8025122	-	-
0-125A/150A	-	A8027101	A8023101	-	A8027111	A8023111
0-125A/250A	A8025103	-	-	A8025123	-	-
0-150A/180A	-	A8027102	A8023102	-	A8027112	A8023112
0-150A/300A	A8025104	-	-	A8025124	-	-
0-200A/240A	-	A8027103	A8023103	-	A8027113	A8023113
0-200A/400A	A8025105	-	-	A8025125	-	-
0-250A/300A	-	A8027104	A8023104	-	A8027114	A8023114
0-250A/500A	A8025106	-	-	A8025126	-	-
0-300A/360A	-	A8027105	A8023105	-	A8027115	A8023115
0-300A/600A	A8025107	-	-	A8025127	-	-
0-400A/480A	-	A8027106	A8023106	-	A8027116	A8023116
0-400A/800A	A8025108	-	-	A8025128	-	-
0-500A/600A	-	A8027107	A8023107	-	A8027117	A8023117
0-500A/1000A	A8025109	-	-	A8025129	-	-
0-600A/720A	-	A8027108	A8023108	-	A8027118	A8023118
0-600A/1200A	A8025110	-	-	A8025130	-	-

AR = 右侧接线 / Connection right
AU = 底部接线 / Connection bottom

AL = 左侧接线 / Connection left
AO = 顶部接线 / Connection top

变比 / Transformer ratio N/5A

范围 Scale	SASILplus 为右侧接线 (AR+AU) SASILplus cable connect right (AR + AU)			SASILplus 为左侧接线 (AL+AO) SASILplus cable connect left (AL + AO)		
	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.	动铁式 Moving iron measuring	双金属指针 / 8 分钟 Bimetallic measuring devices 8min.	双金属指针 / 15 分钟 Bimetallic measuring devices 15min.
0-50A/100A	A8026100	-	-	A8026120	-	-
0-75A/150A	A8026101	-	-	A8026121	-	-
0-100A/120A	-	A8028100	A8024100	-	A8028110	A8024110
0-100A/200A	A8026102	-	-	A8026122	-	-
0-125A/150A	-	A8028101	A8024101	-	A8028111	A8024111
0-125A/250A	A8026103	-	-	A8026123	-	-
0-150A/180A	-	A8028102	A8024102	-	A8028112	A8024112
0-150A/300A	A8026104	-	-	A8026124	-	-
0-200A/240A	-	A8028103	A8024103	-	A8028113	A8024113
0-200A/400A	A8026105	-	-	A8026125	-	-
0-250A/300A	-	A8028104	A8024104	-	A8028114	A8024114
0-250A/500A	A8026106	-	-	A8026126	-	-
0-300A/360A	-	A8028105	A8024105	-	A8028115	A8024115
0-300A/600A	A8026107	-	-	A8026127	-	-
0-400A/480A	-	A8028106	A8024106	-	A8028116	A8024116
0-400A/800A	A8026108	-	-	A8026128	-	-
0-500A/600A	-	A8028107	A8024107	-	A8028117	A8024117
0-500A/1000A	A8026109	-	-	A8026129	-	-
0-600A/720A	-	A8028108	A8024108	-	A8028118	A8024118
0-600A/1200A	A8026110	-	-	A8026130	-	-

测量仪表盘可根据客户要求做特殊设计 / Further information of dial gauges for measuring devices on request

AR = 右侧接线 / Connection right
AU = 底部接线 / Connection bottom

AL = 左侧接线 / Connection left
AO = 顶部接线 / Connection top

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CT, 185mm 母线系统

Current transformers for 185mm busbar system



二次侧电流 Secondary current [A]	一次侧电流 Primary current [A]	额定功率 Volt-ampere rating [VA]	CT 等级 Current transformer class							
			1	0.5	0.5B	0.5M	0.2	0.2B	0.2M	
1	60	1,25	A8050102	-	-	-	-	-	-	-
	75	1,50	A8050103	-	-	-	-	-	-	-
	100	1,50	-	A8050113	A8050122	A8050140	-	-	-	-
	100	2,00	A8050104	-	-	-	-	-	-	-
	125	1,50	-	A8050114	A8050123	A8050141	-	-	-	-
	125	2,50	A8050105	-	-	-	-	-	-	-
	150	1,50	-	A805115	A8050124	A8050142	A8050160	A8050169	A8050187	-
	150	2,50	A8050106	-	-	-	-	-	-	-
	200	1,50	-	-	-	-	A8050161	A8050170	A8050188	-
	200	2,50	-	A8050116	A8050125	A8050143	-	-	-	-
	200	3,75	A8050107	-	-	-	-	-	-	-
	250	1,50	-	-	-	-	A8050162	A8050171	A8050189	-
	250	2,50	A8050108	A8050117	A8050126	A8050144	-	-	-	-
	300	1,50	-	-	-	-	A8050163	A8050172	A8050190	-
	300	2,50	-	A8050118	A8050127	A8050145	-	-	-	-
	300	3,75	A8050109	-	-	-	-	-	-	-
	400	2,50	-	-	-	-	A8050164	A8050173	A8050191	-
	400	5,00	A8050110	A8050119	A8050128	A8050146	-	-	-	-
	500	2,50	-	-	-	-	A8050165	A8050174	A8050192	-
	500	5,00	A8050111	A8050120	A8050129	A8050147	-	-	-	-
600	2,50	-	-	-	-	A8050166	A8050175	A8050193	-	
600	5,00	A8050112	A8050121	A8050130	A8050148	-	-	-	-	
5	60	1,00	A8051102	-	-	-	-	-	-	-
	75	1,50	A8051103	-	-	-	-	-	-	-
	100	1,50	-	A8051113	A8051122	A8051140	-	-	-	-
	100	2,00	A8051104	-	-	-	-	-	-	-
	125	1,50	-	A8051114	A8051123	A8051141	-	-	-	-
	125	2,50	A8051105	-	-	-	-	-	-	-
	150	1,50	-	A8051115	A8051124	A8051142	A8050160	A8051169	A8051187	-
	150	2,50	A8051106	-	-	-	-	-	-	-
	200	1,50	-	-	-	-	A8050161	A8051170	A8051188	-
	200	2,50	-	A8051116	A8051125	A8051143	-	-	-	-
	200	3,75	A8051107	-	-	-	-	-	-	-
	250	1,50	-	-	-	-	A8050162	A8051171	A8051189	-
	250	2,50	-	A8051117	A8051126	A8051144	-	-	-	-
	250	3,75	A8051108	-	-	-	-	-	-	-
	300	1,50	-	-	-	-	A8050163	A51172	A8051190	-

二次侧电流 Secondary current [A]	一次侧电流 Primary current [A]	额定功率 Volt-ampere rating [VA]	CT 等级 Current transformer class							
			1	0.5	0.5B	0.5M	0.2	0.2B	0.2M	
5	300	2,50	-	A8051118	A8051127	A8051145	-	-	-	-
	300	3,75	A8051109	-	-	-	-	-	-	-
	400	1,50	-	-	-	-	A8050164	A8051173	A8051191	-
	400	2,50	-	A8051119	A8051128	A8051146	-	-	-	-
	400	5,00	A8051110	-	-	-	-	-	-	-
	500	2,50	-	-	-	-	A8050165	A8051174	A8051192	-
	500	5,00	A8051111	A8051120	A8051129	A8051147	-	-	-	-
	600	2,50	-	-	-	-	A8050166	A8051175	A8051193	-
	600	5,00	A8051112	A8051121	A8051130	A8051148	-	-	-	-

B = CT 有认证证书, 无校准。
 B = Current transformers with certification certified without calibration.
 M = CT 有认证证书, 有校准和测量数据。
 M = Current transformers with certification certified with calibration and measured data.

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CT, 60mm 母线系统
Current transformers for 60mm busbar system



二次侧电流 Secondary current [A]	一次侧电流 Primary current [A]	额定功率 Volt-ampere rating [VA]	CT 等级 Current transformer class		
			3 极单绕组 3-pole with 1 coil		3 极 3 绕组 3-pole with 3 coils
			1	1	0.5 已认证 certificated
1	60	1,25	A8056102	A8053102	-
	75	1,5	A8056103	A8053103	-
	100	1,5	-	-	A8053113
	100	2	A8056104	A8053104	-
	125	1,5	-	-	A8053114
	125	2,5	A8056105	A8053105	-
	150	1,5	-	-	A8053115
	150	2,5	A8056106	A8053106	-
	200	2,5	A8056107	A8053107	A8053116
	250	2,5	A8056108	A8053108	A8053117
	300	2,5	-	-	A8053118
	300	3,75	A8056109	A8053109	-
	400	5	A8056110	A8053110	A8053119
	500	5	A8056111	A8053111	A8053120
600	5	A8056112	A8053112	A8053121	
5	60	1	A8057102	A8054102	-
	75	1,5	A8057103	A8054103	-
	100	1,5	-	-	A8054113
	100	2	A8057104	A8054104	-
	125	1,5	-	-	A8054114
	125	2,5	A8057105	A8054105	-
	150	1,5	-	-	A8054115
	150	2,5	A8057106	A8054106	-
	200	2,5	-	-	A8054116
	200	3,75	A8057107	A8054107	-
	250	2,5	-	-	A8054117
	250	3,75	A8057108	A8054108	-
	300	2,5	-	-	A8054118
	300	3,75	A8057109	A8054109	-
	400	2,5	-	-	A8054119
	400	5	A8057110	A8054110	-
	500	5	A8057111	A8054111	A8054120
	600	5	A8057112	A8054112	A8054121

系统附件 / System accessories

非标准系统柜的柜体安装件
Switching cabinet profile kit for non-prepared system cabinets

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
立柱套件, 每套 4 根, 每根 2023mm 长 Kit, 4 individuals profiles of 2023mm length	1	SST/SASIL	A8017256	A-127

立柱孔间距 25mm。 / The profile is perforated in a distance of 25mm.

母排支架, 2/3/4 极, 185mm 母线系统
Busbar support, 2-/3-/4-pole, 185mm busbar system

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
母排支架, Busbar support, 40 mm x 10mm	3	SST-185/4010	A8017272	A-98 A-127
母排支架, 40mm x 10mm 带端板 Busbar support, 40mm x 10mm with seal plate	1	SST-185/A/4010	A8017332	
母排支架, Busbar support, 50 mm x 10mm	3	SST-185/5010	A8017273	
母排支架, 50mm x 10mm 带端板 Busbar support, 50mm x 10mm with seal plate	1	SST-185/A/5010	A8017333	
母排支架, Busbar support, 60mm x 10mm	3	SST-185/6010	A8017274	
母排支架, 60mm x 10mm 带端板 Busbar support, 60mm x 10mm with seal plate	1	SST-185/A/6010	A8017334	
母排支架, Busbar support, 80mm x 10mm	3	SST-185/8010	A8017275	
母排支架, 80mm x 10mm 带端板 Busbar support, 80mm x 10mm with seal plate	1	SST-185/A/8010	A8017335	
母排支架, Busbar support, 100mm x 10mm	3	SST-185/10010	A8017276	
母排支架, 100mm x 10mm 带端板 Busbar support, 100mm x 10mm with seal plate	1	SST-185/A/10010	A8017336	

带端板的支架用于每台柜的顶部或底部。
Per cabinet is supplied one support with a seal plate for top and bottom.

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安装片组件 / Busbar support fixing kit

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 安装片组件 (2 片) Fixing plate kit (2 parts)	2	BP1/SST	A8017286	A-128
 安装支架 (威图用) Fixing bracket (for RITTAL)		BW1/SST	A8017315	


安装组件把母排支架固定在柜体框架上。
Kit is required to mount the busbar system-supports on the enclosure profile.

母排盖板, 使 2/3/4 极母线系统的 IP 等级达到 IP20 Busbar cover, type of protection IP20 for 2-/3-/4-pole busbar system

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 固定轨道组件 /Fastening rail kit (2 x 1850mm)	1	BS1/SST	A8017285	A-128
 电缆室挡板 150mm (可裁剪为 100/50mm) Cable compartment cover 150mm (cutting length 100/50mm)	3	KA/SSA-185	A8017284	
 母排盖罩, 标准高度 /Busbar cover, Module height 150mm	3	SSA-185/3-4	A8017283	
 母排盖罩, 标准高度 /Busbar cover, Module height 50mm	5	SSA-185/3-4/50	A8017297	
 母排盖罩, 标准高度 /Busbar cover, Module height 100mm	5	SSA-185/3-4/100	A8017298	

覆盖柜内母排。
To cover the busbars in the switching cabinet.

母排隔离组件, 适用于 SST-185/100mm 以下宽度, 10mm 厚 Busbar disconnection kit, applicable in SST185/100 width 10mm

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 母线隔离 /Busbar disconnecting element, 60mm x 10mm	3	STE60/SST	A8017309	A-129
母线隔离 /Busbar disconnecting element, 80mm x 10mm		STE80/SST	A8017310	
母线隔离 /Busbar disconnecting element, 100mm x 10mm		STE100/SST	A8017311	

使用母排隔离组件分段隔离母排系统。
To interrupt the busbars and the use of a section switch of the coupling strip.

安装插槽组件, 可将 SASILplus 开关安装到 X-Energy, Triline-R, TS8, unimes H 柜上 Strip guide, kit for fitting a SASILplus strip to X-Energy, TriLine-R, TS8, unimes H

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 尺寸 00/ 标准高度 50mm (2 件)/Size 00/Module height 50mm (2 parts)	1	LF01/SASIL-P00	A8500300	A-129
尺寸 1/ 标准高度 75mm (2 件)/Size 1/Module height 75mm (2 parts)		LF01/SASIL-P1	A8100010	
尺寸 2-3/ 标准高度 150mm (2 件)/Size 2-3/Module height 150mm (2 parts)		LF01/SASIL-P2/3	A8700074	

安装插槽组件, 可将 4 极 SASILplus 开关安装到 X-Energy, Triline-R, TS8, unimes H 柜上 Strip guide, kit for fitting a 4-pole SASILplus strip to Xenergy, TriLine-R, TS8, unimes H

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 尺寸 00/ 标准高度 100mm (4 件)/Size 00/Module height 100mm (4 parts)	1	LF01/SASIL-P00/ 1854	A8500025	A-129
尺寸 1/ 标准高度 150mm (4 件)/Size 1/Module height 150mm (4 parts)		LF01/SASIL-P1/ 1854	A8100020	
尺寸 2-3/ 标准高度 300mm (4 件)/Size 2-3/Module height 300mm (4 parts)		LF01/SASIL-P2/ 3/1854	A8700025	

安装插槽组件, 可将 SASILplus 开关安装到 SIVACON S8 柜上 Strip guide, kit for fitting a SASILplus strip to SIVACON S8

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
 尺寸 00/ 标准高度 50mm (2 件)/Size 00/Module height 50mm (2 parts)	1	LF12/SASIL-P00	A8500360	A-130
尺寸 1/ 标准高度 75mm (2 件)/Size 1/Module height 75mm (2 parts)		LF12/SASIL-P1	A8100018	
尺寸 2-3/ 标准高度 150mm (2 件)/Size 2-3/Module height 150mm (2 parts)		LF12/SASIL-P2/3	A8700360	

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安装插槽组件，可将 4 极 SASILplus 开关安装到 SIVACON S8 柜上
Strip guide, kit for fitting a 4-pole SASILplus strip to SIVACON S8

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00/ 标准高度 100mm (4 件)/Size 00/Module height 100mm (4 parts)	1	LF12/SASIL-P00/ 1854	A8500361	A-129
尺寸 1/ 标准高度 150mm (4 件)/Size 1/Module height 150mm (4 parts)		LF12/SASIL-P1/ 1854	A8100028	
尺寸 2-3/ 标准高度 300mm (4 件)/Size 2-3/Module height 300mm (4 parts)		LF12/SASIL-P2/ 3/1854	A8700361	A-130

安装插槽组件，可将 SASILplus 开关安装到 SIVACON S4 和其他对称结构系统柜上
Strip guide, kit for fitting a SASILplus strip to SIVACON S4 and other symmetrical systems

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00/ 标准高度 50mm (2 件)/Size 00/Module height 50mm (2 parts)	1	LF13/SASI-P00	A8500404	-
尺寸 1/ 标准高度 75mm (2 件)/Size 1/Module height 75mm (2 parts)		LF13/SASIL-P1	A8100404	
尺寸 2-3/ 标准高度 150mm (2 件)/Size 2-3/Module height 150mm (2 parts)		LF13/SASIL-P2/3	A8700404	

电缆绝缘套，隔离电缆与电缆室

Cable separator, kit for separating cable compartment of cabinet

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00 (3 件) Size 00 (3 parts)	1	KSH/SASIL-P00	A8500308	A-130
尺寸 1 (3 件)/Size 1 (3 parts)		KSH/SASIL-P1	A8100101	
尺寸 2-3 有安装框 (3 件)/Sizes 2-3 with mounting frame (3 parts)		KSH/SASIL-P2/3	A8700140	

电缆绝缘套，隔离电缆室 / 小室内装 4 极或双并的 SASILplus 开关

Cable separator, separating cable compartment/Cabinet for the installation of a 4-pole/SASILplus double strip

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00 (6 件) Size 00 (6 parts)	1	KSH/SASIL-P00/ 1854	A8500026	A-130
尺寸 1 (6 件)/Size 1 (6 parts)		KSH/SASIL-P1/1854	A8100102	
尺寸 2-3 有安装框 (6 件)/Size 2-3 with mounting frame (6 parts)		KSH/SASIL-P2/ 3/1854	A8700026	

导轨插槽密封件

Reach-protection for strip guide

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 1 (3 件)/Size 1 (3 parts)	1	DGS-KSH/SASIL-P1	A8100082	A-130



连接器，16 针辅助电路接插件

Socket connector, 16-pole customer provided control circuit terminal

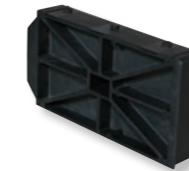
描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
端子接线最大 2.5mm ² (无线鼻子) Max. terminal contact 2,5mm ² (without ferrule)	1	BL/SASIL00-3	A8016141	A-131



联锁装置，安装于条形安装插槽里

Reception for switch-on lock, retrofit table in strip guide

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00/ 标准高度 50mm Size 00/Module height 50mm	1	ESS/SASIL-P00	A8517000	A-131
尺寸 2-3/ 标准高度 150mm Size 2-3/Module height 150mm		ESS/SASIL-P2/3	A8717307	

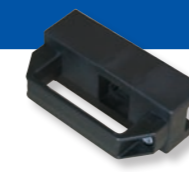


尺寸 1 已包含联锁插件 / Switch-on lock is included in size 1

SASILplus 开关拆卸工具

Extracting tool for drawing out SASILplus strips

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
拆卸工具 /Extracting tool	1	AW/SASILP00-3	A8000005	A-131



备用空间盖板，透明，无通风孔，不对称

Reserve panel cover, transparent, without ventilation, asymmetrically

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00/ 标准高度 50mm Size 00/Module height 50mm	1	RFA/SASILP00	A8500083	A-131
尺寸 1/ 标准高度 75mm Size 1/Module height 75mm		RFA/SASIL-P1	A8100083	
尺寸 2-3/ 标准高度 150mm Size 2-3/Module height 150mm		RFA/SASIL-P2/3	A8700083	



RFA 需要安装导轨插槽。
For installation of the RFA are strip guides required.

备用空间盖板，透明，无通风孔，对称

Reserve panel cover, transparent, without ventilation, symetrically

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 00/ 标准高度 50mm Size 00/Module height 50mm	1	RFA/SASIL-P00	A8500105	A-131
尺寸 1/ 标准高度 75mm Size 1/Module height 75mm		RFA/SASIL-P1	A8100105	
尺寸 2-3/ 标准高度 150mm Size 2-3/Module height 150mm		RFA/SASIL-P2/3	A8700105	

RFA 需要安装导轨插槽。
For the installation of the RFA are strip guides required.

备用空间盖板，钢板材质，无通风孔，RAL7035

Reserve panel cover, sheet steel, without ventilation, RAL 7035

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 50mm	1	LFA050/25	A8500003	A-132
标准高度 /Module height 75mm		LFA075/25	A8600005	
标准高度 /Module height 150mm		LFA150/25	A8700001	
标准高度 /Module height 300mm		LFA300/25	A8900002	

通过旋转连接支架适用于对称和非对称的应用。
To be used for symmetrical and asymmetrical applikation by turning the connecting bracket.

备用空间盖板，钢板材质，有通风槽，IP30，RAL7035

Reserve panel cover, sheet steel, with ventilation slots, IP30, Ral 7035

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 50mm	1	LFA050L/25	A8500004	A-132
标准高度 /Module height 75mm		LFA075L/25	A8600006	
标准高度 /Module height 150mm		LFA150L/25	A8700005	
标准高度 /Module height 300mm		LFA300L/25	A8900003	

通过旋转连接支架适用于对称和非对称的应用。
To be used for symmetrical and asymmetrical Applikation by turning the connecting bracket.

带操作手柄的面罩（包装 1）

Strip cover with operating handle for SASILplus (PU1)

尺寸 Size	描述 Description	型号 Type	订货号 Article-No.	页码 Page
00	高分断能力 For high switching capacity	LD/AR/SASIL-P00/ H/AC	A8500080	A-132
	普通分断能力 For normal switching capacity	LD/AR/SASIL-P00/ N/AC	A8500084	
	高分断能力，4 极 For high switching capacity, 4-pole	LD/AR/SASIL-P00/ H/AC	A8500510	
	普通分断能力，4 极 For normal switching capacity, 4-pole	LD/AR/SASIL-P00/ N/AC	A8500511	
	高分断能力（直流） For high switching capacity (DC)	LD/AR/SASIL-P00/ H/DC	A8500085	
	高分断能力，左接线 /For high switching capacity, terminal left	LD/AL/SASIL-P00/ H/AC	A8500180	
	普通断能力，左接线 /For normal switching capacity, terminal left	LD/AL/SASIL-P00/ N/AC	A8500184	
1	高分断能力 For high switching capacity	LD/AR/SASIL-P1/ H/AC	A8100080	A-132
	普通分断能力 For normal switching capacity	LD/AR/SASIL-P1/ N/AC	A8100084	
	高分断能力，4 极 For high switching capacity, 4-pole	LD/AR/SASIL-P1/ H/AC	A8100510	
	普通分断能力，4 极 For normal switching capacity, 4-pole	LD/AR/SASIL-P1/ N/AC	A8100511	
	高分断能力（直流） For high switching capacity (DC)	LD/AR/SASIL-P1/ H/DC	A8100085	
	高分断能力，左接线 /For high switching capacity, terminal left	LD/AL/SASIL-P1/ H/AC	A8100180	
	普通断能力，左接线 /For normal switching capacity, terminal left	LD/AL/SASIL-P1/ N/AC	A8100184	
2	高分断能力 For high switching capacity	LD/AR/SASIL-P2/ H/AC	A8200080	A-132
	普通分断能力 For normal switching capacity	LD/AR/SASIL-P2/ N/AC	A8200084	
	高分断能力，4 极 For high switching capacity, 4-pole	LD/AR/SASIL-P2/ H/AC	A8200510	
	普通分断能力，4 极 For normal switching capacity, 4-pole	LD/AR/SASIL-P2/ N/AC	A8200511	
	高分断能力（直流） For high switching capacity (DC)	LD/AR/SASIL-P2/ H/DC	A8200085	
	高分断能力，左接线 /For high switching capacity, terminal left	LD/AL/SASIL-P2/ H/AC	A8200180	
	普通断能力，左接线 /For normal switching capacity, terminal left	LD/AL/SASIL-P2/ N/AC	A8200184	

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尺寸 Size	描述 Description	型号 Type	订货号 Article-No.	页码 Page
3	高分断能力 For high switching capacity	LD/AR/SASIL-P3/ H/AC	A8300080	A-132
	普通分断能力 For normal switching capacity	LD/AR/SASIL-P3/ N/AC	A8300084	
	高分断能力, 4 极 For high switching capacity, 4-pole	LD/AR/SASIL-P3/ H/AC	A8300510	
	普通分断能力, 4 极 For normal switching capacity, 4-pole	LD/AR/SASIL-P3/ N/AC	A8300511	
	高分断能力 (直流) For high switching capacity (DC)	LD/AR/SASIL-P3/ H/DC	A8300085	
	高分断能力, 左接线 /For high switching capacity, terminal left	LD/AL/SASIL-P3/ H/AC	A8300180	
	普通断能力, 左接线 /For normal switching capacity, terminal left	LD/AL/SASIL-P3/ N/AC	A8300184	
2-3	双并开关, 尺寸 2, 标准高度 300mm, 高分断能力 /Double strip size 2, Module height 300mm for high switching capacity	LD/AR/SASIL-P2D/ H/AC	A8200081	A-133
	双并开关, 尺寸 2, 标准高度 300mm, 普通分断能力 /Double strip size 2, Module height 300mm for normal switching capacity	LD/AR/SASIL-P2D/ N/AC	A8200082	
	双并开关, 尺寸 3, 标准高度 300mm, 高分断能力 /Double strip size 3, Module height 300mm for high switching capacity	LD/AR/SASIL-P3D/ H/AC	A8300081	
	双并开关, 尺寸 3, 标准高度 300mm, 普通分断能力 /Double strip size 3, Module height 300mm for normal switching capacity	LD/SASIL-P3D/ N/AC	A8300082	

NH 型熔断器手柄
NH fuse handle

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准版 Standard version	1	GPsHe	U8950036	-
加高配置的 NH00 与双并开关或电动操作开关 SASILMOT 的配合 / Heightened configuration for NH00 in combination with double strip or SASILMOT		GPsH3e	U8950037	

NH 型熔断器, 低损耗, 使用类型 gG/NH fuse-link, low power dissipation, utilization category gG

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 /Size 3, 630A, 500V, 32W	1	M3GL630/32W	N3016949	-

NH 型熔断器, 应用于 gB AC1000V/NH fuse-links utilization category gB AC1000V

描述 Description	包 PU	型号 Type	订货号 Article-No.	关联页 Page
尺寸 /Size 00, 25A, 1000V, 12W	3	M00gB25/85	N5242641	-
尺寸 /Size 00, 32A, 1000V, 13W		M00gB32/85	N5242941	
尺寸 /Size 00, 35A, 1000V, 14W		M00gB35/85	N5243141	
尺寸 /Size 00, 40A, 1000V, 15W		M00gB40/85	N5243441	
尺寸 /Size 00, 50A, 1000V, 16W		M00gB50/85	N5243541	
尺寸 /Size 00, 63A, 1000V, 19W		M00gB63/85	N5243841	
尺寸 /Size 00, 80A, 1000V, 21W		M00gB80/85	N5244141	
尺寸 /Size 00, 100A, 1000V, 24W		M00gB100/85	N5244341	

3 线连接, 3 根电缆的连接套件, 每相线径 185mm²

Triple connection, Kit for the connection of 3 cables, 185mm² per phase

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
用于开关尺寸 2-3 For size 2-3	1	DA-185/SASIL2-3	A8700027	A-133

接线桥套件, 用于 1000A 的 SASILplus 开关, 每相线径 240mm²

Busbar connection kit for SASILplus (Railing kit) for strip 1000A, 240mm² per phase

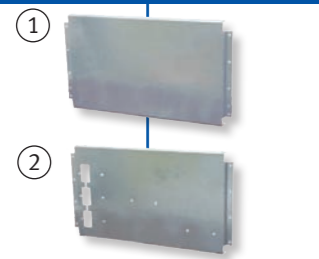
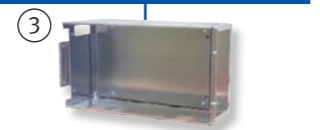


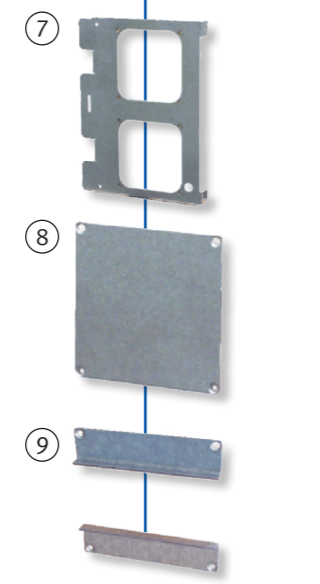

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 3/1000A (3 个电缆接头, 每个 240mm ²) Size 3/1000A (for 3 cable lug 240mm ²)	1	VB/SASIL3/1000A	A8700077	A-133

不能用于双并开关 /Do not use with double strips.

直接连接端子套件, 用于 SASILplus/Direct terminal clamps kit for SASILplus

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
仅用于尺寸 1, 直接连接 240mm ² 的铝或铜电缆 Only for size 1, direct connection for 240mm ² , Al/Cu	1	BD/SASIL1/ 240QMM	A8100110	A-133

概述 SASIL plus 设备安装模块 General overview of SASILplus device mounting system

安装板 Mounting plates	设备安装模块 Device mounting module	门组件 Device door
 <p>① 不带弹性母排触指。 Mounting plate without voltage tap.</p> <p>② 带弹性母排触指。 Mounting plate prepared for voltage tap.</p>	 <p>③ 设备安装模块总是与安装板、电缆室隔板和法兰支架配套使用，弹性母排触指需配在大于等于 200mm 宽的设备安装模块上。 Device mounting module voltage tap is available from 200mm width Module is always with mounting plate, separation of cable compartment and flange bracket.</p>	 <p>④ 带检视窗。 Door with inspection window.</p> <p>⑤ 不带检视窗。 Door without inspection window.</p>
 <p>⑥ 分支母排最大到 630A，用 M10 的螺丝进行电缆连接。 Feeder for the busbar up to 630A. Cable connection with screw M10.</p>	 <p>⑦ 电缆室隔板也起到支撑作用。 Separation of cable compartment is also for support of module.</p> <p>⑧ 法兰盖板可覆盖法兰口。 Flange plates close the opening in the cover.</p> <p>⑨ 法兰支架支撑在左侧。 Flange bracket supports the module at left side.</p>	 <p>⑩ 100A 弹性母排触指。 Voltage tap from the busbar as kit 100A.</p> <p>⑪ 630A 弹性母排触指。 Voltage tap from the busbar as kit 630A.</p>

设备安装模块 Device mounting system

安装板，不带网格孔
Mounting plate without hole grid

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 / Module height 150mm	1	MP150/SASIL	A8030502	A-134
标准高度 / Module height 200mm		MP200/SASIL	A8030002	
标准高度 / Module height 300mm		MP300/SASIL	A8030003	
标准高度 / Module height 450mm		MP450/SASIL	A8030004	
标准高度 / Module height 600mm		MP600/SASIL	A8030005	

安装板，可安装弹性母排触指，不带网格孔
Mounting plate prepared for voltage tap without hole grid

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 / Module height 200mm	1	MP200/E/SASIL	A8030100	A-134
标准高度 / Module height 300mm		MP300/E/SASIL	A8030101	

设备安装模块，不可安装弹性母排触指
Device mounting module without voltage tap

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 / Module height 150mm	1	GEM150/SASIL	A8030200	A-134

设备安装模块，可安装弹性母排触指
Device mounting module prepared for voltage tap

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 / Module height 200mm	1	GEM200/SASIL	A8030201	A-134
标准高度 / Module height 300mm		GEM300/SASIL	A8030202	
标准高度 / Module height 450mm		GEM450/SASIL	A8030203	
标准高度 / Module height 600mm		GEM600/SASIL	A8030204	
可通过安装板将弹性母排触指旋转 180°。 Voltage tap possible by rotating the mounting plate through 180°.				

模数化安装模块，不可安装弹性母排触指
Device mounting module for modular installation without voltage tap

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 / Module height 1 x 18 TE	1	GEM150/RE/SASIL	A8030205	A-134

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模数化安装模块, 可安装弹性母排触指, 行距 125mm

Device mounting module for modular installation devices prepared for voltage tap, tier spacing 125mm

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 1 x 18 TE	1	GEM200/RE/SASIL	A8030206	A-134
标准高度 /Module height 2 x 18 TE		GEM300/RE/SASIL	A8030207	
标准高度 /Module height 3 x 18 TE		GEM450/RE/SASIL	A8030208	
标准高度 /Module height 4 x 18 TE		GEM600/RE/SASIL	A8030209	

模数化面板, 行距 150mm

Cover plate for modular installation devices, tier spacing 150mm

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 300mm, 2 x 18 TE	1	BSAP/300/RE2X150/SASIL	A8030810	A-135
标准高度 /Module height 450mm, 3 x 18 TE		BSAP/450/RE-3X150/SASIL	A8030811	
标准高度 /Module height 600mm, 4 x 18 TE		BSAP/600/RE-4X150/SASIL	A8030812	

模块门, 不带可视窗, 带 D3 锁钮, RAL7035

Door without inspection window, D3 fastener, RAL7035

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 150mm	1	T150/D3/SASIL	A8030401	A-135
标准高度 /Module height 200mm		T200/D3/SASIL	A8030402	
标准高度 /Module height 300mm		T300/D3/SASIL	A8030403	
标准高度 /Module height 450mm		T450/D3/SASIL	A8030404	
标准高度 /Module height 600mm		T600/D3/SASIL	A8030405	

模块门, 带可视窗, 带 D3 锁钮, RAL7035

Door with inspection window, D3 fastener, RAL7035

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 150mm	1	TS150/SASIL	A8030406	A-135
标准高度 /Module height 200mm		TS200/SASIL	A8030407	
标准高度 /Module height 300mm		TS300/SASIL	A8030408	
标准高度 /Module height 450mm		TS450/SASIL	A8030409	
标准高度 /Module height 600mm		TS600/SASIL	A8030410	

法兰板 (电缆室隔板附件)

Flange plate closed (Accessories for separation of cable compartment)

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 150mm	1	FP1/SASIL	A8030600	A-135
标准高度 /Module height 200mm (仅用于 /only for ASG200)		FP2/SASIL	A8030601	

电缆室隔板

Separation of cable compartment

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 150mm (1 x FP1 ... 标配 /required)	1	ASG150/SASIL	A8030502	A-135
标准高度 /Module height 200mm (1 x FP2 ... 标配 /required)		ASG200/SASIL	A8030503	
标准高度 /Module height 300mm (2 x FP1 ... 标配 /required)		ASG300/SASIL	A8030504	
标准高度 /Module height 450mm (3 x FP1 ... 标配 /required)		ASG450/SASIL	A8030505	
标准高度 /Module height 600mm (4 x FP1 ... 标配 /required)		ASG600/SASIL	A8030506	

电缆绝缘套, 隔离电缆与电缆室

Cable separator, kit for separating cable compartment of cabinet

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
尺寸 /Size 1 (3 Stück/Parts)	1	KSH/SASIL1	A8600139	-

法兰支架, 用于电缆室隔板

Flange bracket for cable cover

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 150mm	1	FP1/KSH/SASIL	A8030602	A-135
标准高度 /Module height 200mm (仅用于 /only for ASG200)		FP2/KSH/SASIL	A8030603	

供电模块, 630A

Supply module, 630A

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
标准高度 /Module height 100mm	1	EM100/E/SASIL	A8030300	A-134

弹性母排触指组件

Feeding kit

描述 Description	包 PU	型号 Type	订货号 Article-No.	页码 Page
用于设备安装模块与安装板 For device mounting module and mounting plate 100A M6	1	BSE/100A/SASIL	A8030701	A-135
用于设备安装模块与安装板 For device mounting module and mounting plate 630A M10		BSE/630A/SASIL	A8030700	

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3 极, 尺寸 00 和 1 (185mm 和 60mm 母线系统)
3-pole, size 00 and 1 (185mm and 60mm busbar system)

型号 Type			SASIL-PL00/...31/...	SASIL-PL1/...31/...	SASIL-PL00/...36/...	SASIL-PL1/...36/...	
	电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500
	额定工作电流 Rated operational current	I _e	A	160		250	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	160		250	
	额定频率 / Rated frequency	-	Hz	40-60			
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000			
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	-	-	300		200	
	约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	47		82	
普通分断能力 Normal switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	55			
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	55			
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾
	使用类型 / Utilization category	-	-	AC-23B/ AC-22B	AC-22B	AC-23B/ AC-22B	AC-22B
高分断能力 High switching capacity	额定合闸能力 Rated making capacity	-	A	1600/ 480	480	2500/ 750	750
	额定分闸能力 Rated breaking capacity	-	A	1280/ 480	480	2000/ 750	750
高分断能力 High switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾
	额定短路电流 ⁸⁾ Rated conditional short-circuit current ⁸⁾	-	kA _{eff}	120	100 (65) ⁹⁾	120	100 (65) ⁹⁾
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾
	使用类型 / Utilization category	-	-	AC-23B			
	额定合闸能力 Rated making capacity	-	A	1600		2500	
额定分闸能力 Rated breaking capacity	-	A	1280		2000		

型号 Type			SASIL-PL00/...31/...	SASIL-PL1/...31/...	SASIL-PL00/...36/...	SASIL-PL1/...36/...	
	熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	-	-	NH00	NH1	
最大额定电流 (gL/gG) Max. rated current (gL/gG)		I _N	A	160		250	
单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link		P _v	W	12		32	
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1700		1000	
	重量 ¹⁾ / Weight ¹⁾	-	kg	4.28 (4.38) ⁹⁾		6.12 (6.29) ⁹⁾	
	母排间距 / Busbar distance	-	mm	185 (60) ⁹⁾			
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	mm	10 (5) ⁹⁾			
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M8	M10	
		电缆线径 Cable lug	-	mm ²	1x10-95 ⁶⁾		1x25-150; 2x25-70
		扁平铜排 Flat bar	-	mm	24 x 5		30 x 10
		安装扭矩 Tightening torque	M _a	Nm	10		15
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40		
	面板打开 Front cover open		-	-	IP20		
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55			
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation			
	操作方式 / Actuation	-	-	非有关人力手动操作 Independent hand drive			
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾			
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000			
	污染等级 / Pollution degree	-	-	3			
过压等级 / Overvoltage category	-	-	III				

1) 无包装, 本体
Without packaging, basic unit
2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current
3) 垂直母排 / Upright busbar
4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top
7) 0mm 接地 / Distance to grounded parts 0mm
8) 50mm 接地 / Distance to grounded parts 50mm
9) 60mm 母线系统的 SASILplus 的差异值
Differing value for SASILplus, 60mm busbar system

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SASILplus – Technical data

3 极, 尺寸 2 和 3 (包含双并开关, 185mm 和 60mm 母线系统)
3-pole, size 2 and 3 (incl. double strip, 185mm and 60mm busbar system)

型号 Type	SASIL-PL2/...31/...		SASIL-PL3/...31/...		SASIL-PL2/...36/...		SASIL-PL3/...36/...		
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500	AC690		
	额定工作电流 Rated operational current	I _e	A	400 (2 x 400) ¹⁰⁾		630 (2 x 630) ¹⁰⁾			
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	400 (2 x 400) ¹⁰⁾		630 (2 x 630) ¹⁰⁾			
	额定频率 / Rated frequency	-	Hz	40-60					
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000					
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8					
	电流操作周期 Operating cycles with current	-	-	200					
	约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	136 (2 x 136) ¹⁰⁾		295 (2 x 295) ¹⁰⁾			
普通分断能力 Normal switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	55					
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	55					
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾		
	使用类型 / Utilization category	-	-	AC-23B/ AC-22B	AC-22B	AC-23B/ AC-22B	AC-22B		
	额定合闸能力 Rated making capacity	-	A	4000/ 1200	1200	6300/ 1890	1890		
额定分闸能力 Rated breaking capacity	-	A	3200/ 1200	1200	5040/ 1890	1890			
高分断能力 High switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾		
	额定短路电流 ⁸⁾ Rated conditional short-circuit current ⁸⁾	-	kA _{eff}	120	100 (65) ⁹⁾	120	100 (65) ⁹⁾		
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾		
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80 (65) ⁹⁾	100	80 (65) ⁹⁾		
	使用类型 / Utilization category	-	-	AC-23B					
	额定合闸能力 Rated making capacity	-	A	4000		6300			
	额定分闸能力 Rated breaking capacity	-	A	3200		5040			

型号 Type	SASIL-PL2/...31/...		SASIL-PL3/...31/...		SASIL-PL2/...36/...		SASIL-PL3/...36/...	
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	-	-	NH2	NH3			
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	400	630			
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	45	60			
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1000				
	重量 ¹⁾ / Weight ¹⁾	-	kg	13.46 (13.83) ⁹⁾	13.67 (14.03) ⁹⁾			
	母排间距 / Busbar distance	-	mm	185 (60) ⁹⁾				
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	mm	10 (5) ⁹⁾				
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M12			
		电缆线径 Cable lug	-	mm ²	1x35-300; 2x35-240			
		扁平铜排 Flat bar	-	mm	40 x 10			
		安装扭矩 Tightening torque	M _a	Nm	30			
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40			
	面板打开 Front cover open		-	-	IP20			
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55				
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation				
	操作方式 / Actuation	-	-	非有关人力手动操作 Independent hand drive				
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾				
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000				
	污染等级 / Pollution degree	-	-	3				
过压等级 / Overvoltage category	-	-	III					

- 1) 无包装, 本体, 双并开关
Without packaging, basic unit, double strip x 2
- 2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current
- 3) 垂直母排 / Upright busbar
- 4) 电缆左、右接线 / Cable connection right, left
- 5) 电缆上、下接线 / Cable connection bottom, top

- 7) 0mm 接地 / Distance to grounded parts 0mm
- 8) 50mm 接地 / Distance to grounded parts 50mm
- 9) 60mm 母线系统的 SASILplus 的差值
Differing value for SASILplus, 60mm busbar system
- 10) 双并 SASILplus 差值
Differing value for SASILplus double strip
Warning: Double strip must not be bridged outgoing side

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4 极, 尺寸 00 和 1 (185mm 母线系统) / 4-pole, size 00 and 1 (185mm busbar system)

型号 Type		SASIL-PL00/ ...41/...		SASIL-PL1/ ...41/...			
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500	AC690
	额定工作电流 Rated operational current	I _e	A	160		250	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	160		250	
	额定频率 / Rated frequency	-	Hz	40-60			
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000			
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	-	-	300		200	
约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	63		109		
普通分断能力 Normal switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	55			
	使用类型 / Utilization category	-	-	AC-23B/ AC-22B	AC-22B	AC-23B/ AC-22B	AC-22B
	额定合闸能力 Rated making capacity	-	A	1600/ 480	480	2500/ 750	750
	额定分闸能力 Rated breaking capacity	-	A	1280/ 480	480	2000/ 750	750
高分断能力 High switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	65	100	65
	使用类型 / Utilization category	-	-	AC-23B			
	额定合闸能力 Rated making capacity	-	A	1600		2500	
额定分闸能力 Rated breaking capacity	-	A	1280		2000		
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	-	-	NH00		NH1	
	最大额定电流 (gG) Max. rated current (gG)	I _N	A	160		250	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	12		32	
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1700		1000	
	重量 ¹⁾ / Weight ¹⁾	-	kg	7.55		10.57	
	母排间距 / Busbar distance	-	mm	185			
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	mm	10			

型号 Type		SASIL-PL00/ ...41/...		SASIL-PL1/ ...41/...		
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M8	M10
		电缆线径 Cable lug	-	mm ²	1x10-95 ⁶⁾ ; 2x2.5-35	1x25-150; 2x25-70
		扁平铜排 Flat bar	-	mm	24 x 5	30 x 10
		安装扭矩 Tightening torque	M _a	Nm	10	15
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40	
		面板打开 Front cover open	-	-	IP20	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55		
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation		
	操作方式 / Actuation	-	-	非有关人力手动操作 Independent hand drive		
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾		
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000		
	污染等级 / Pollution degree	-	-	3		
过压等级 / Overvoltage category	-	-	III			

1) 无包装, 本体 / Without packaging, basic unit
2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current
3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left
5) 电缆上、下接线 / Cable connection bottom, top
6) 最大电缆接头宽度 24mm / Maximum cable lug width 24mm
7) 0mm 接地 / Distance to grounded parts 0mm

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4 极, 尺寸 2 和 3 (185mm 母线系统) /4-pole, size 2 and 3 (185mm busbar system)

型号 Type		SASIL-PL2/ ...36/...		SASIL-PL3/ ...36/...			
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500	AC690
	额定工作电流 Rated operational current	I _e	A	400		630	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	400		630	
	额定频率 / Rated frequency	-	Hz	40-60			
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000			
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	-	-	200			
普通分断能力 Normal switching capacity	约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	181		392	
	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	55			
	使用类型 / Utilization category	-	-	AC-23B/ AC-22B	AC-22B	AC-23B/ AC-22B	AC-22B
	额定合闸能力 Rated making capacity	-	A	4000/ 1200	1200	6300/ 1890	1890
高分断能力 High switching capacity	额定分闸能力 Rated breaking capacity	-	A	3200/ 1200	1200	5040/ 1890	1890
	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	65	100	80
	使用类型 / Utilization category	-	-	AC-23B			
熔断器 Fuse-links	额定合闸能力 Rated making capacity	-	A	4000		6300	
	额定分闸能力 Rated breaking capacity	-	A	3200		5040	
	尺寸根据 / Size to IEC 60269-2	-	-	NH2		NH3	
机械特性 Mechanical characteristics	最大额定电流 (gG) Max. rated current (gG)	I _N	A	400		630	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	45		60	
	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1000			
	重量 ¹⁾ / Weight ¹⁾	-	kg	22.60		22.87	
母排间距 / Busbar distance	-	-	185				
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	-	10			

型号 Type		SASIL-PL2/ ...36/...		SASIL-PL3/ ...36/...		
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M12	
		电缆线径 Cable lug	-	mm ²	1x35-300; 2x35-240	
		扁平铜排 Flat bar	-	mm	40 x 10	
		安装扭矩 Tightening torque	M _a	Nm	30	
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40	
		面板打开 Front cover open	-	-	IP20	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55		
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation		
	操作方式 / Actuation	-	-	非有关人力手动操作 Independent hand drive		
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾		
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000		
	污染等级 / Pollution degree	-	-	3		
过压等级 / Overvoltage category	-	-	III			

1) 无包装, 本体 / Without packaging, basic unit
2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current
3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left
5) 电缆上、下接线 / Cable connection bottom, top
7) 0mm 接地 / Distance to grounded parts 0mm

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2 极 / 2-pole

型号 Type				SASIL-PL00/ H21/...		SASIL-PL1/ H21/...		
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	DC220	DC440	DC220	DC440	
	额定工作电流 Rated operational current	I _e	A	160		250		
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	160		250		
	额定绝缘电压 Rated insulation voltage	U _i	V	DC1000				
	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	–	kA _{eff}	35				
	使用类型 / Utilization category	–	–	DC-22B	DC-21B	DC-22B	DC-21B	
	额定合闸能力 Rated making capacity	–	A	640	240	1000	375	
	额定分闸能力 Rated breaking capacity	–	A	640	240	1000	375	
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8				
	电流操作周期 Operating cycles with current	–	–	300		200		
约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	32		59			
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	–	–	NH00		NH1		
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	160	200	250		
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	12		32		
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	–	–	1700		1000		
	重量 ¹⁾ / Weight ¹⁾	–	kg	3.82		5.32		
	母排间距 / Busbar distance	–	mm	370 (2 x 185)				
	母排厚度 ³⁾ / Busbar thickness ³⁾	–	mm	10				
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	–	–	M8	M10		
		电缆线径 Cable lug	–	mm ²	1x10-95 ⁶⁾	1x25-150; 2x25-70		
		扁平铜排 Flat bar	–	mm	24 x 5		30 x 10	
		安装扭矩 Tightening torque	M _a	Nm	10		15	
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	–	–	IP40			
	面板打开 Front cover open	–	–	IP20				

型号 Type				SASIL-PL00/ H21/...		SASIL-PL1/ H21/...	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _a	°C	-25 至 / up to +55			
	额定工作方式 / Rated operating mode	–	–	持续工作 / Continuous operation			
	操作方式 / Actuation	–	–	非有关人力手动操作 Independent hand drive			
	安装方式 / Mounting position	–	–	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾			
	海拔高度 / Altitude above sea level	–	m	达 / Up to 2000			
	污染等级 / Pollution degree	–	–	3			
	过压等级 / Overvoltage category	–	–	III			

1) 无包装, 本体 / Without packaging, basic unit

2) 35°C 为标准温度, 55°C 时需降容

35°C normal temperature, at 55°C with reduced operating current

3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top

6) 最大电缆接头宽度 24mm / Maximum cable lug width 24mm

7) 0mm 接地 / Distance to grounded parts 0mm

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2 极 / 2-pole

型号 Type				SASIL-PL2/ H21/...		SASIL-PL3/ H21/...	
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	DC220	DC440	DC220	DC440
	额定工作电流 Rated operational current	I _{ie}	A	400		630	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	400		630	
	额定绝缘电压 Rated insulation voltage	U _i	V	DC1000			
	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	–	kA _{eff}	35			
	使用类型 / Utilization category	–	–	DC-22B	DC-21B	DC-22B	DC-21B
	额定合闸能力 Rated making capacity	–	A	1600	600	2520	945
	额定分闸能力 Rated breaking capacity	–	A	1600	600	2520	945
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	–	–	200			
约定发热电流损耗（无熔断器） Total power loss at I _{th} (without fuse)	P _v	W	91		197		
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	–	–	NH2		NH3	
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	400		630	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	45		60	
机械特性 Mechanical characteristics	使用寿命（开关操作次数） Operating life (total switching operations)	–	–	1000			
	重量 ¹⁾ / Weight ¹⁾	–	kg	11.17		11.30	
	母排间距 / Busbar distance	–	mm	370 (2 x 185)			
	母排厚度 ³⁾ / Busbar thickness ³⁾	–	mm	10			
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	–	–	M12		
		电缆线径 Cable lug	–	mm ²	1x35-300; 2x35-240		
		扁平铜排 Flat bar	–	mm	40 x 10		
		安装扭矩 Tightening torque	M _a	Nm	30		
防护等级 Type of protection	安装完毕后， 开关面板侧	操作状态 Operational state	–	–	IP40		
	Front side device fitted	面板打开 Front cover open	–	–	IP20		

型号 Type				SASIL-PL2/ H21/...		SASIL-PL3/ H21/...	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _a	°C	-25 至 / up to +55			
	额定工作方式 / Rated operating mode	–	–	持续工作 / Continuous operation			
	操作方式 / Actuation	–	–	非有关人力手动操作 Independent hand drive			
	安装方式 / Mounting position	–	–	水平安装 ⁴⁾ ，垂直安装 ⁵⁾ Horizontal ⁴⁾ ，vertical ⁵⁾			
	海拔高度 / Altitude above sea level	–	m	达 / Up to 2000			
	污染等级 / Pollution degree	–	–	3			
过压等级 / Overvoltage category	–	–	III				

1) 无包装，本体 / Without packaging, basic unit

2) 35°C 为标准温度，55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current

3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top

7) 0mm 接地 / Distance to grounded parts 0mm

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电动式, 3 极, 尺寸 00 和 1/MOT, 3-pole, size 00 and 1

型号 Type		SASIL-PL00/ H31/AR-M/...		SASIL-PL1/ H31/AR-M/...			
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500	AC690
	额定工作电流 Rated operational current	I _e	A	160		250	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	160		250	
	额定频率 / Rated frequency	-	Hz	40-60			
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000			
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	-	-	300		200	
约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	47		82		
高分断能力 High switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	80	100	80
	额定短路电流 ⁸⁾ Rated conditional short-circuit current ⁸⁾	-	kA _{eff}	120	100	120	100
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	100	80	100	80
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80	100	80
	使用类型 / Utilization category	-	-	AC-23B			
	额定合闸能力 Rated making capacity	-	A	1600 480	480	2500 750	750
	额定分闸能力 Rated breaking capacity	-	A	1280 480	480	2000 750	750
电动特性 MOT-characteristics	输入电流 / Current input	-	A	0.25			
	开关切换过程中的输入电流 Current input during switching operation	-	A	0.8			
	控制电压 / Control voltage	-	V	DC24V			
	最大切换时间 / Max. switching time	-	S	5			
控制切换操作的脉冲 Control pulse for switching operation	-	-	持续或大于 300ms 的 DC24V 脉冲 DC24V continuous or impulse >300ms				
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	-	-	NH00		NH1	
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	160		250	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	12		32	

型号 Type		SASIL-PL00/ H31/AR-M/...		SASIL-PL1/ H31/AR-M/...		
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1700	1000	
	重量 ¹⁾ / Weight ¹⁾	-	kg	7.2	9.5	
	母排间距 / Busbar distance	-	mm	185		
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	mm	10		
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M8	M10
		电缆线径 Cable lug	-	mm ²	1x10-95 ⁶⁾	1x25-150; 2x25-70
		扁平铜排 Flat bar	-	mm	24 x 5	30 x 10
		安装扭矩 Tightening torque	M _a	Nm	10	15
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40	
	面板打开 Front cover open	面板打开 Front cover open	-	-	IP20	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55		
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation		
	操作方式 / Actuation	-	-	电动操作 / Motor drive		
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾		
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000		
	污染等级 / Pollution degree	-	-	3		
过压等级 / Overvoltage category	-	-	III			

1) 无包装, 本体 / Without packaging, basic unit
 2) 35°C 为标准温度, 55°C 时需降容
 35°C normal temperature, at 55°C with reduced operating current
 3) 垂直母排 / Upright busbar
 4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top
 6) 最大电缆接头宽度 24mm / Maximum cable lug width 24mm
 7) 0mm 接地 / Distance to grounded parts 0mm
 8) 50mm 接地 / Distance to grounded parts 50mm

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电动式, 3 极, 尺寸 2 和 3/MOT, 3-pole, size 2 and 3

型号 Type	SASIL-PL2/ H31/AR-M/...			SASIL-PL3/ H31/AR-M/...			
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC400/ AC500	AC690	AC400/ AC500	AC690
	额定工作电流 Rated operational current	I _e	A	400		630	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	400		630	
	额定频率 / Rated frequency	-	Hz	40-60			
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000			
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8			
	电流操作周期 Operating cycles with current	-	-	200			
约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	136		295		
高分断能力 High switching capacity	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	-	kA _{eff}	100	80	100	80
	额定短路电流 ⁸⁾ Rated conditional short-circuit current ⁸⁾	-	kA _{eff}	120	100	120	100
	带保护时的短路接通能力 ⁷⁾ Short-circuit making capacity with protection by switch-links ⁷⁾	-	kA	100	80	100	80
	带保护时的短路耐受能力 ⁷⁾ / Short-circuit current capability with protection by switch-links ⁷⁾	-	kA	100	80	100	80
	使用类型 / Utilization category	-	-	AC-23B			
	额定合闸能力 Rated making capacity	-	A	4000 1200	1200	6300 1890	1890
	额定分闸能力 Rated breaking capacity	-	A	3200 1200	1200	5040 1890	1890
电动特性 MOT-characteristics	输入电流 / Current input	-	A	0.25			
	开关切换过程中的输入电流 Current input during switching operation	-	A	0.8			
	控制电压 / Control voltage	-	V	DC24V			
	最大切换时间 / Max. switching time	-	S	5			
控制切换操作的脉冲 Control pulse for switching operation	-	-	持续或大于 300ms 的 DC24V 脉冲 DC24V continuous or impulse >300ms				
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	-	-	NH2		NH3	
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	400		630	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	45		60	

型号 Type	SASIL-PL2/ H31/AR-M/...			SASIL-PL3/ H31/AR-M/...		
机械特性 Mechanical characteristics	使用寿命 (开关操作次数) Operating life (total switching operations)	-	-	1000		
	重量 ¹⁾ / Weight ¹⁾	-	kg	16.6		17.5
	母排间距 / Busbar distance	-	mm	185		
	母排厚度 ³⁾ / Busbar thickness ³⁾	-	mm	10		
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	-	-	M12	
		电缆线径 Cable lug	-	mm ²	1x35-300; 2x35-240	
		扁平铜排 Flat bar	-	mm	40 x 10	
		安装扭矩 Tightening torque	M _a	Nm	30	
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	-	-	IP40	
	面板打开 Front cover open		-	-	IP20	
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _u	°C	-25 至 / up to +55		
	额定工作方式 / Rated operating mode	-	-	持续工作 / Continuous operation		
	操作方式 / Actuation	-	-	电动操作 / Motor drive		
	安装方式 / Mounting position	-	-	水平安装 ⁴⁾ , 垂直安装 ⁵⁾ Horizontal ⁴⁾ , vertical ⁵⁾		
	海拔高度 / Altitude above sea level	-	m	达 / Up to 2000		
	污染等级 / Pollution degree	-	-	3		
过压等级 / Overvoltage category	-	-	III			

1) 无包装, 本体 / Without packaging, basic unit

2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current

3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top

7) 0mm 接地 / Distance to grounded parts 0mm

8) 50mm 接地 / Distance to grounded parts 50mm

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3-极, 尺寸 00-1000V, 800A/LTS, 3-1000A / 3-pole, size 00-1000V, 800A/LTS, 3-1000A

型号 Type			SASIL-PL... -1000V	SASIL- PL3-800A/ LTS	SASIL- PL3- 1000A	
电气特性 Electrical characteristics	额定工作电压 Rated operational voltage	U _e	V	AC1000	AC690	
	额定工作电流 Rated operational current	I _e	A	160	800 1000	
	使用熔断器时约定发热电流 Conventional free air thermal current with fuses	I _{th}	A	160	800 1000	
	额定绝缘电压 Rated insulation voltage	U _i	V	AC1000		
	额定短路电流 ⁷⁾ Rated conditional short-circuit current ⁷⁾	–	kA _{eff}	25	25 ¹¹⁾ 100	
	使用类型 / Utilization category	–	–	AC-22B	AC-23B AC-23B	
	额定合闸能力 Rated making capacity	–	A	480	8000 10000	
	额定分闸能力 Rated breaking capacity	–	A	480	6400 8000	
	额定冲击耐受电压 Rated impulse withstand voltage	U _{imp}	kV	8		
	电流操作周期 Operating cycles with current	–	–	300	200	
约定发热电流损耗 (无熔断器) Total power loss at I _{th} (without fuse)	P _v	W	25	475 371		
熔断器 Fuse-links	尺寸根据 / Size to IEC 60269-2	–	–	NH00/ 1000V gB	– NH3	
	最大额定电流 (gL/gG) Max. rated current (gL/gG)	I _N	A	160	– 630	
	单位熔断器最大允许损耗功率 Max. permis. power dissipation per fuse-link	P _v	W	45	– 60	
机械特性 Mechanical characteristics	尺寸 / Size	–	–	2	3 3 + 3	
	使用寿命 (开关操作次数) Operating life (total switching operations)	–	–	1700	600	
	重量 ¹⁾ / Weight ¹⁾	–	kg	14.85	15.68 35.13	
	母排间距 / Busbar distance	–	mm	185		
母排厚度 ³⁾ / Busbar thickness ³⁾	–	mm	10			
电缆连接 Cable connection	扁平端子 Flat terminal	螺栓直径 Bolt diameter	–	–	M12	
		电缆线径 Cable lug	–	mm ²	1x35-300; 2x35-240	
		扁平铜排 Flat bar	–	mm	4 x 10	
		安装扭矩 Tightening torque	M _a	Nm	30	
防护等级 Type of protection	安装完毕后, 开关面板侧 Front side device fitted	操作状态 Operational state	–	–	IP40	
		面板打开 Front cover open	–	–	IP20	

型号 Type			SASIL-PL... -1000V	SASIL- PL3-800A/ LTS	SASIL- PL3- 1000A
工作条件 Operating conditions	环境温度 ²⁾ / Ambient temperature ²⁾	T _a	°C	-25 至 / up to +55	
	额定工作方式 / Rated operating mode	–	–	持续工作 / Continuous operation	
	操作方式 / Actuation	–	–	非有关人力手动操作 Independent hand drive	
	安装方式 / Mounting position	–	–	水平安装 / Horizontal	
	海拔高度 / Altitude above sea level	–	m	达 / Up to 2000	
	污染等级 / Pollution degree	–	–	3	
过压等级 / Overvoltage category	–	–	III		

1) 无包装, 本体 / Without packaging, basic unit

2) 35°C 为标准温度, 55°C 时需降容
35°C normal temperature, at 55°C with reduced operating current

3) 垂直母排 / Upright busbar

4) 电缆左、右接线 / Cable connection right, left

5) 电缆上、下接线 / Cable connection bottom, top

7) 0mm 接地 / Distance to grounded parts 0mm

11) 额定短时耐受电流 (1 秒), 额定短路接通能力 12kA
Rated short-time withstand current (1s),
rated short-circuit making capacity 12kA

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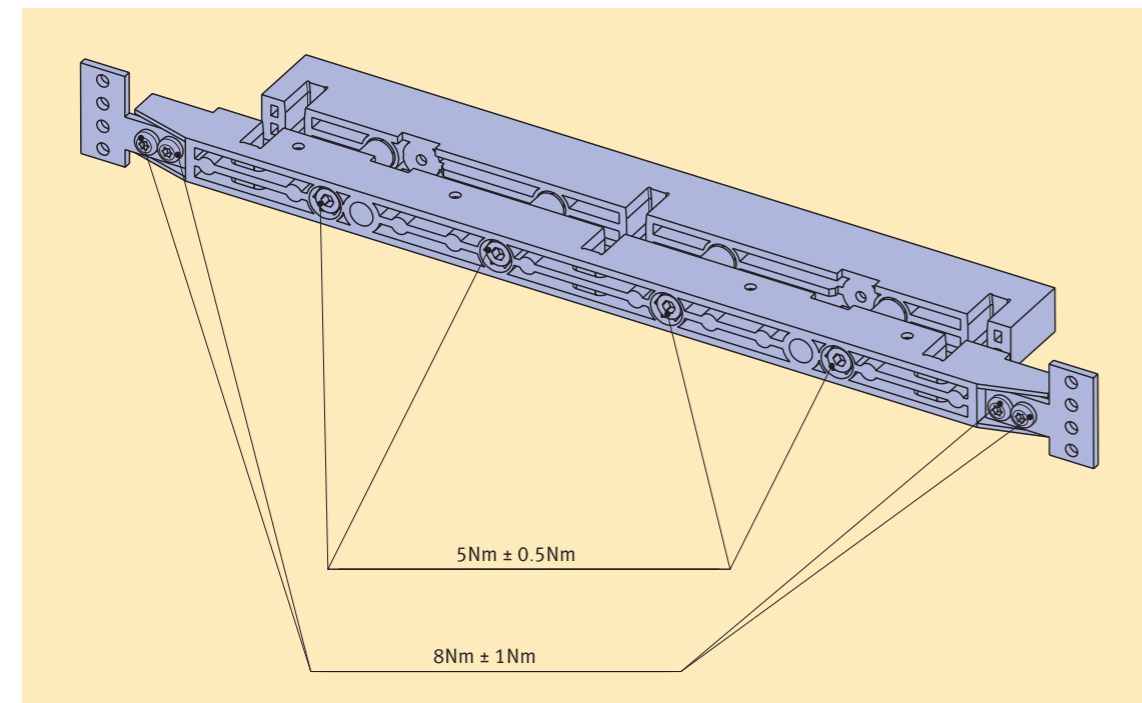
扭矩 / Torque

母排支架 / Busbar supports

母排额定短时耐受电流 I_{cw} [kA_{eff}] 和 I_b [A]

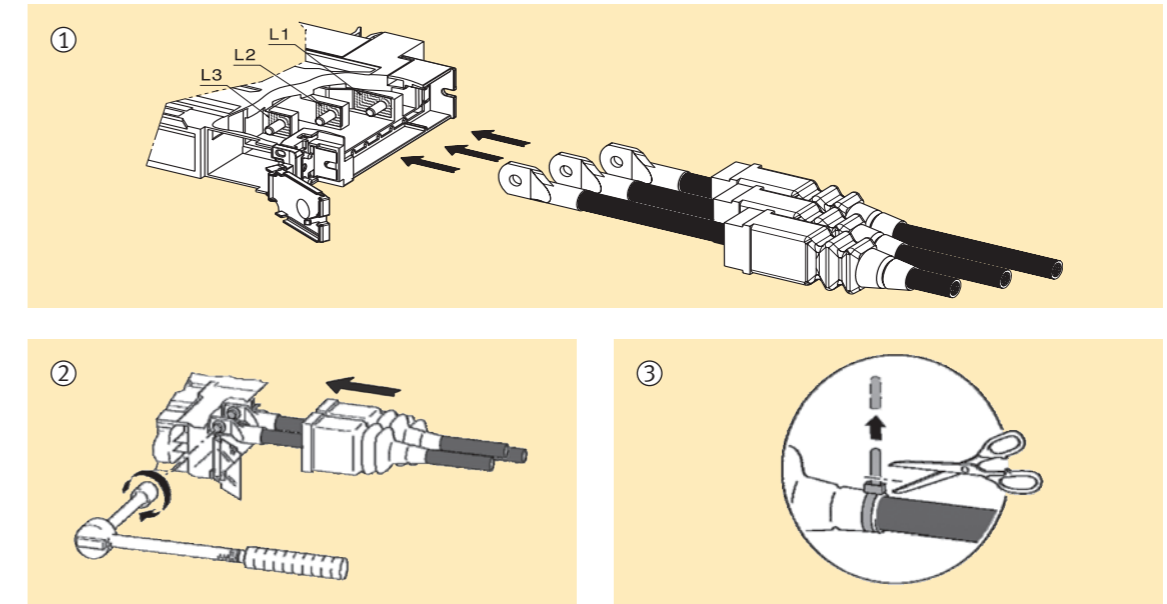
Rated short time withstand current I_{cw} [kA_{eff}] and I_b [A] of busbars

型号 Type	母排横截面 Busbar cross-section [mm x mm]	母排电流承载能力 Busbar current carrying capacity I_b		母排短时耐受电流 I_{cw} [kA _{eff}] 支架间距 Busbar rated short time withstand current I_{cw} [kA _{eff}] support spacing (t = 0,1s)			
		[A] ¹⁾	[A] ²⁾	300mm	450mm	600mm	750mm
SST-185/4010	40 x 10	715	900	80	65	50	35
SST-185/5010	50 x 10	852	1070	80	65	50	35
SST-185/6010	60 x 10	985	1236	80	80	65	40
SST-185/8010	80 x 10	1240	1556	100	80	65	50
SST-185/10010	100 x 10	1490	1870	100	100	80	65



- 1) 按照 DIN43670 标准: 室内空气温度 35°C 和母排温度 65°C 时的持续电流
Continuous current in accordance with DIN 43 670 for indoor use on 35°C of air temperature and 65°C of busbar temperature
- 2) 按照 DIN43670 标准: 开关柜内空气温度 55°C 和母排温度 105°C 时的持续电流, 其它柜内温度校正值请见附件
Continuous current in accordance with DIN 43 670 for indoor use on 55°C of air temperature inside the switchgear cabinet and 105°C of busbar temperature correction value for other cabinet inside temperature please see appendix

电缆连接 / Cable connection



电缆连接扭矩 / Torque wire connection

	扁平鼻宽度 Width across flat mm	额定扭矩 Rated torque Nm	横截面积 Cross-section	
			1 根电缆接头 1 Cable lug mm ²	2 根电缆接头 2 Cable lugs mm ²
SASILplus00*	13	10-12	2.5-95	2.5-35
SASILplus1	17	15-18	25-150	25-70
SASILplus2	19	30-35	35-300	35-240
SASILplus3	19	30-35	35-300	35-240
SASILplus BS-A3	13	10-12	2.5-95	2.5-35
SASILplus BS-BX	13	10-12	2.5-95	2.5-35
SASILplus BS-B1	17	15-18	25-150	25-70
SASILplus BS-B2	19	30-35	35-300	35-240
SASILplus BS-B4	19	30-35	35-300	35-240
SASILplus BS-B6 sond	19	30-35	35-300	35-240

* 最大为 24mm 宽的电缆接头 / Max. lug width 24mm



只能使用原始的垫圈, 并只使用一次, 拧紧力矩见表。
Use original washers only. Use washers only once. For tightening torque, see table.

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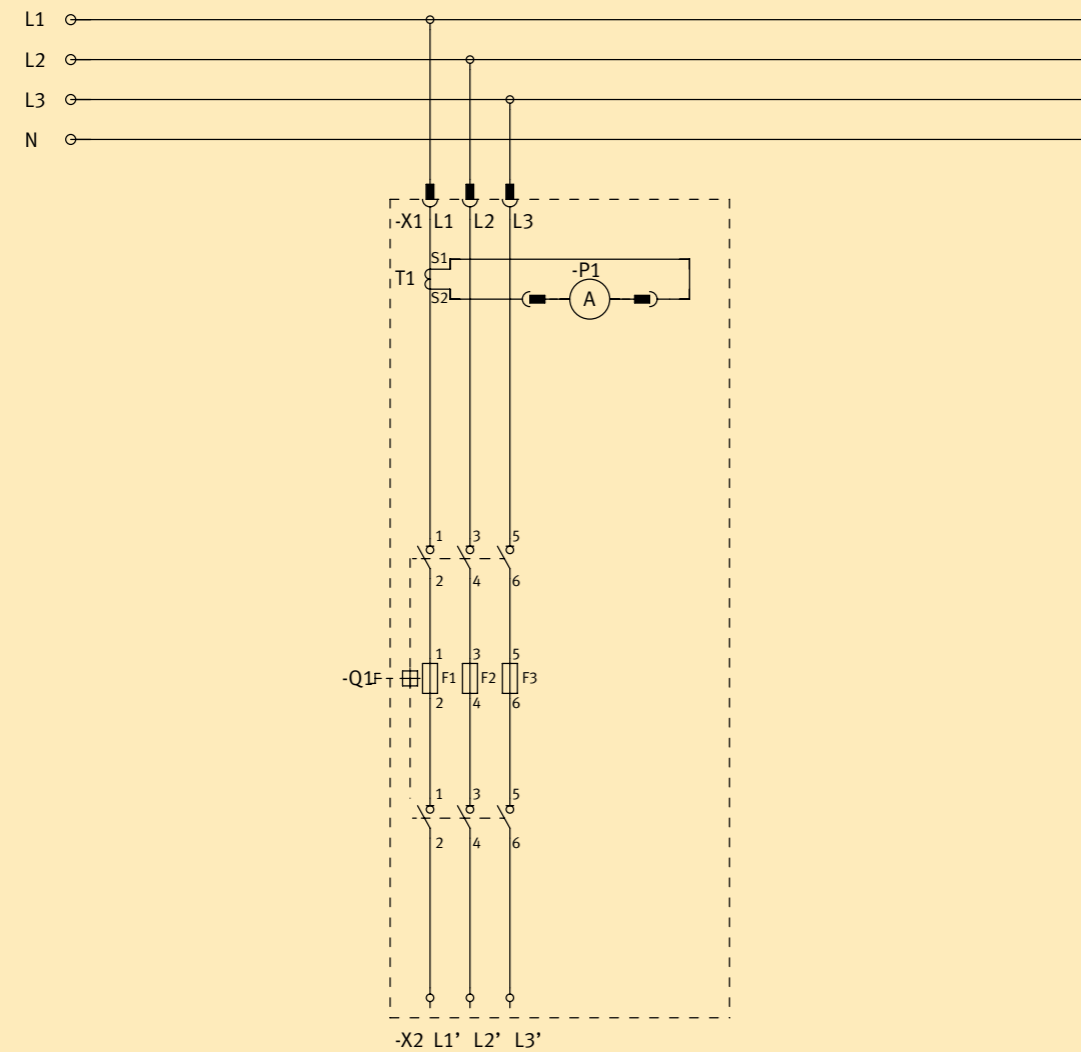
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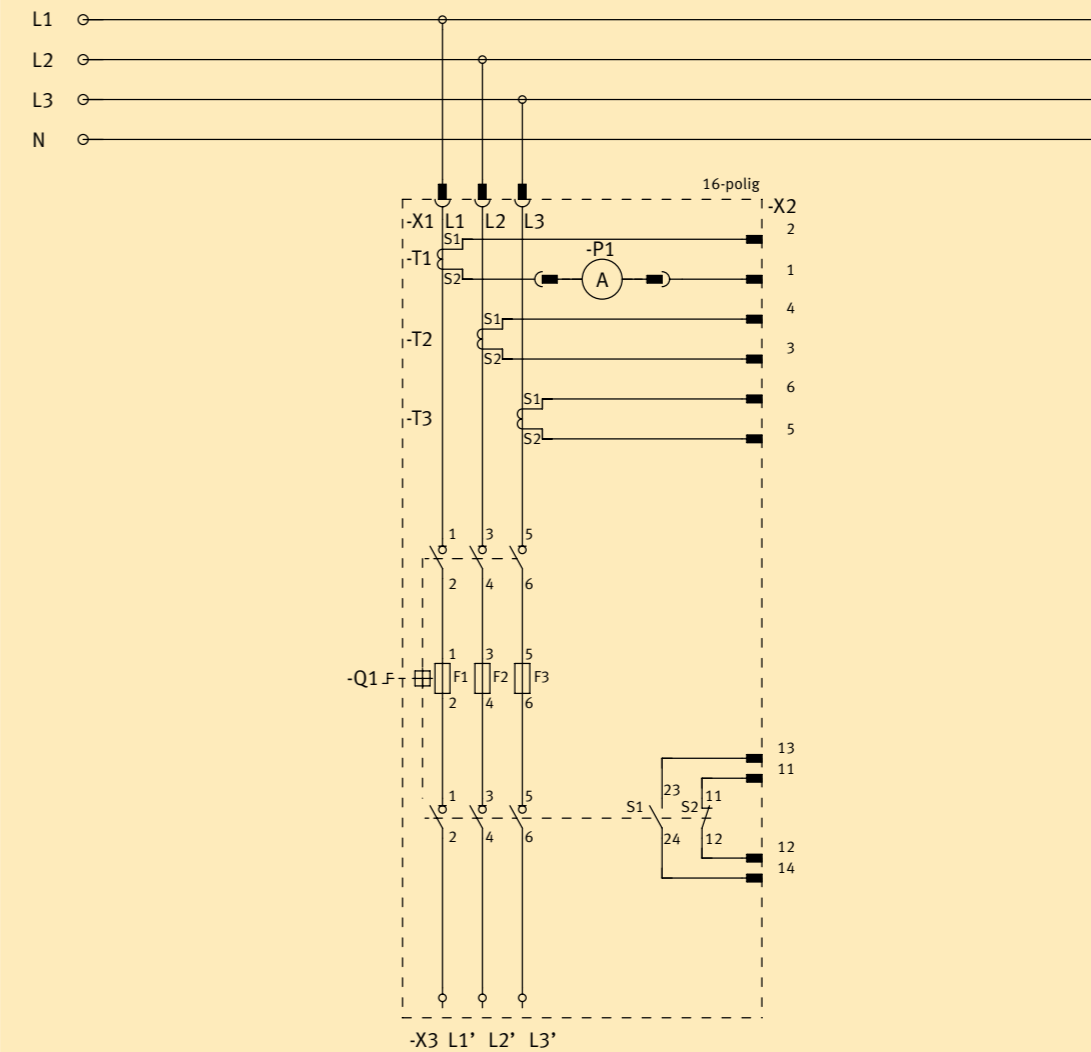
电路图 / Circuit diagrams

13725200 装有 CT 与测量仪表的接线图
Wiring plan for internal measurement with a current transformer for measuring device



Q1	熔断器隔离开关 / Switch-disconnector-fuse
F1, F2, F3	熔断器 / Fuses
T1	电流互感器 CT / Current transformer
P1	电流表 / Ammeter
X1	输入端 / Plug-in contacts
X2	输出端 / Customer connection

13725202 3CT, 辅助开关与测量仪表的电路图
Wiring plan for 3 current transformers, auxiliary switch and measuring device



Q1	熔断器隔离开关 / Switch-disconnector-fuse
S1	开关位置指示常开点 / Switch position indicator make contact
S2	开关位置指示常闭点 / Switch position indicator break contact
F1, F2, F3	熔断器 / Fuses
T1, T2, T3	电流互感器 CT / Current transformers
P1	电流表 / Ammeter
X1	输入端 / Plug-in contacts
X2	16 针条形连接器 / 16-pole connector strip
X3	输出端 / Customer connection

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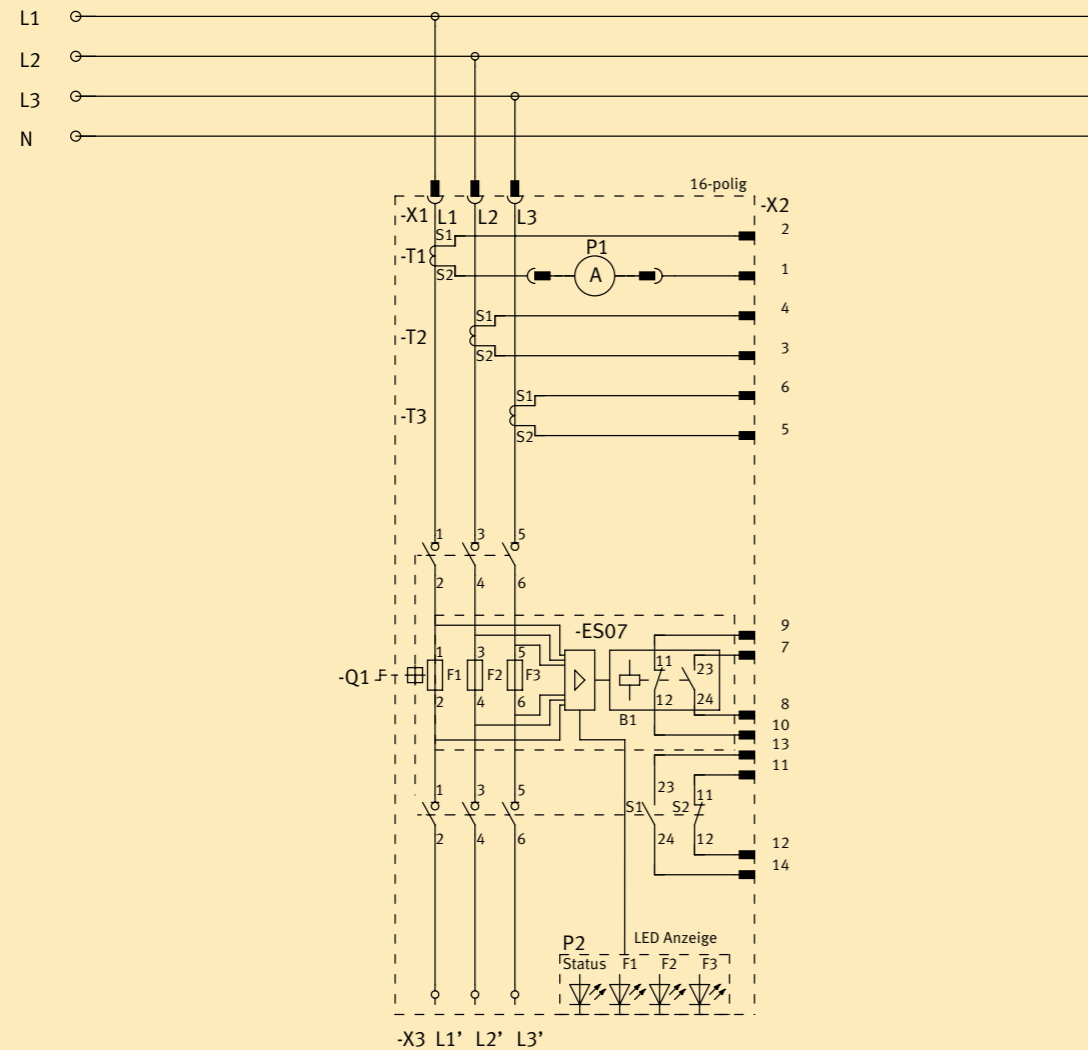
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13725203

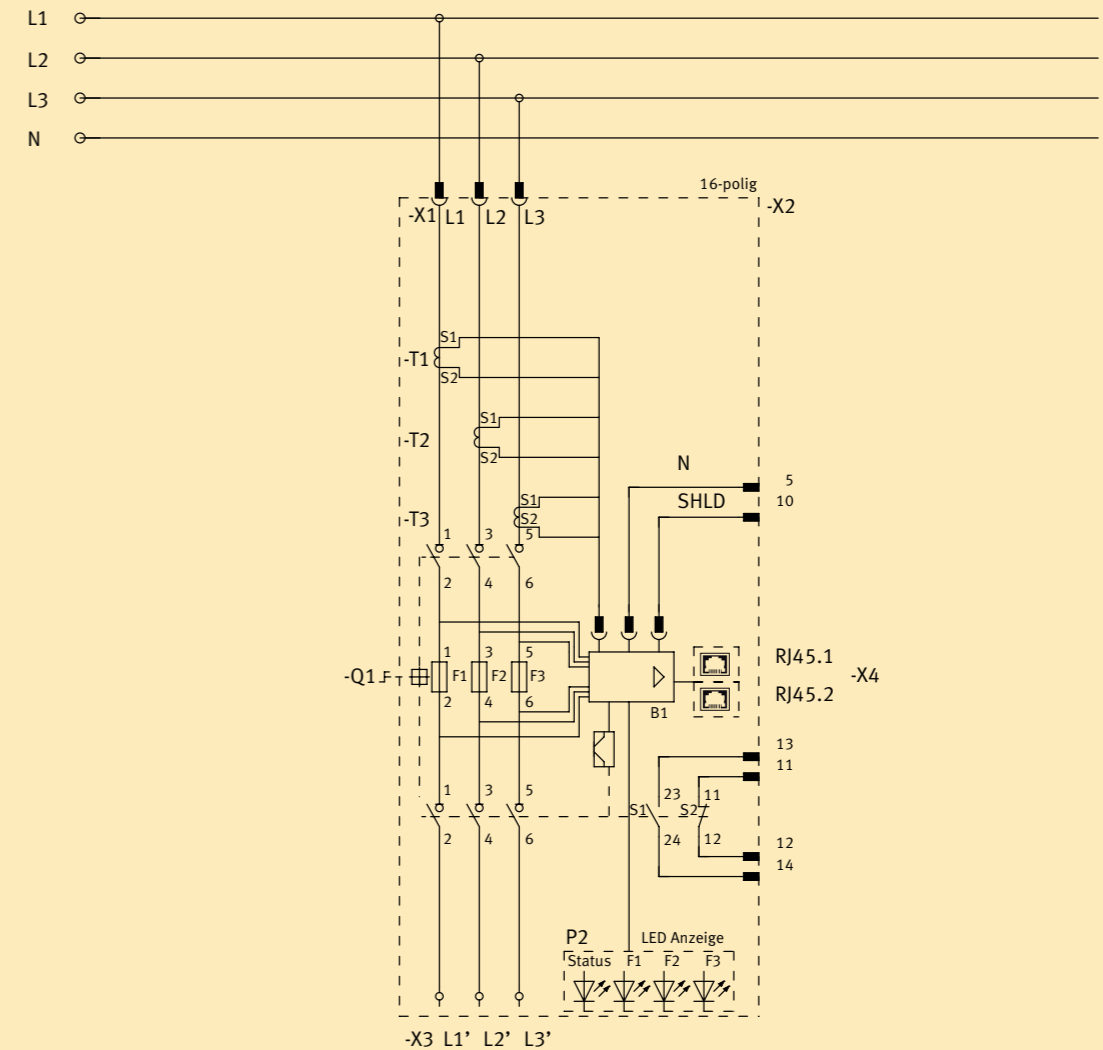
装有 3CT, 辅助开关, 自供电的熔断器监测与测量仪表的接线图 / Wiring plan for 3 current transformers, auxiliary switch, self-powered fuse monitoring and measuring device



Q1	熔断器隔离开关 / Switch-disconnector-fuse
S1	开关位置指示常开点 / Switch position indicator make contact
S2	开关位置指示常闭点 / Switch position indicator break contact
F1,F2,F3	熔断器 / Fuses
T1, T2, T3	电流互感器 CT/Current transformers
P1	电流表 /Ammeter
P2	LED 显示熔断器监测单元 LED display fuse monitoring unit
B1	熔断器监测单元 /Fuse monitoring unit 继电器 / 控制熔断器隔离开关跳闸原理 Relais/operating current principle fuse tripping 开关位置: 常开 / 常闭 Switch position: make close/break open
X1	输入端 /Plug-in contacts
X2	16 针条形连接器 /16-pole connector strip
X3	输出端 /Customer connection

13725207

辅助开关到插件连接器, 配有综合测量模块 (EE07) 的接线图
Wiring plan for auxiliary switch to plug-in connector, with integrated measuring module (EE07)



Q1	熔断器隔离开关 /Switch-disconnector-fuse
S1	开关位置指示常开点 /Switch position indicator make contact
S2	开关位置指示常闭点 /Switch position indicator break contact
F1,F2,F3	熔断器 /Fuses
T1, T2, T3	电流互感器 CT/Current transformers
P1	LED 状态显示 /LED status display
P2	LED 显示熔断器监测单元 LED display fuse monitoring unit
B1	模块 EE07/Sensor module EE07
X1	输入端 /Plug-in contacts
X2	16 针条形连接器 /16-pole connector strip
X3	输出端 /Customer connection
X4	CAN 总线接口 RJ-45/CAN-BUS interface RJ-45

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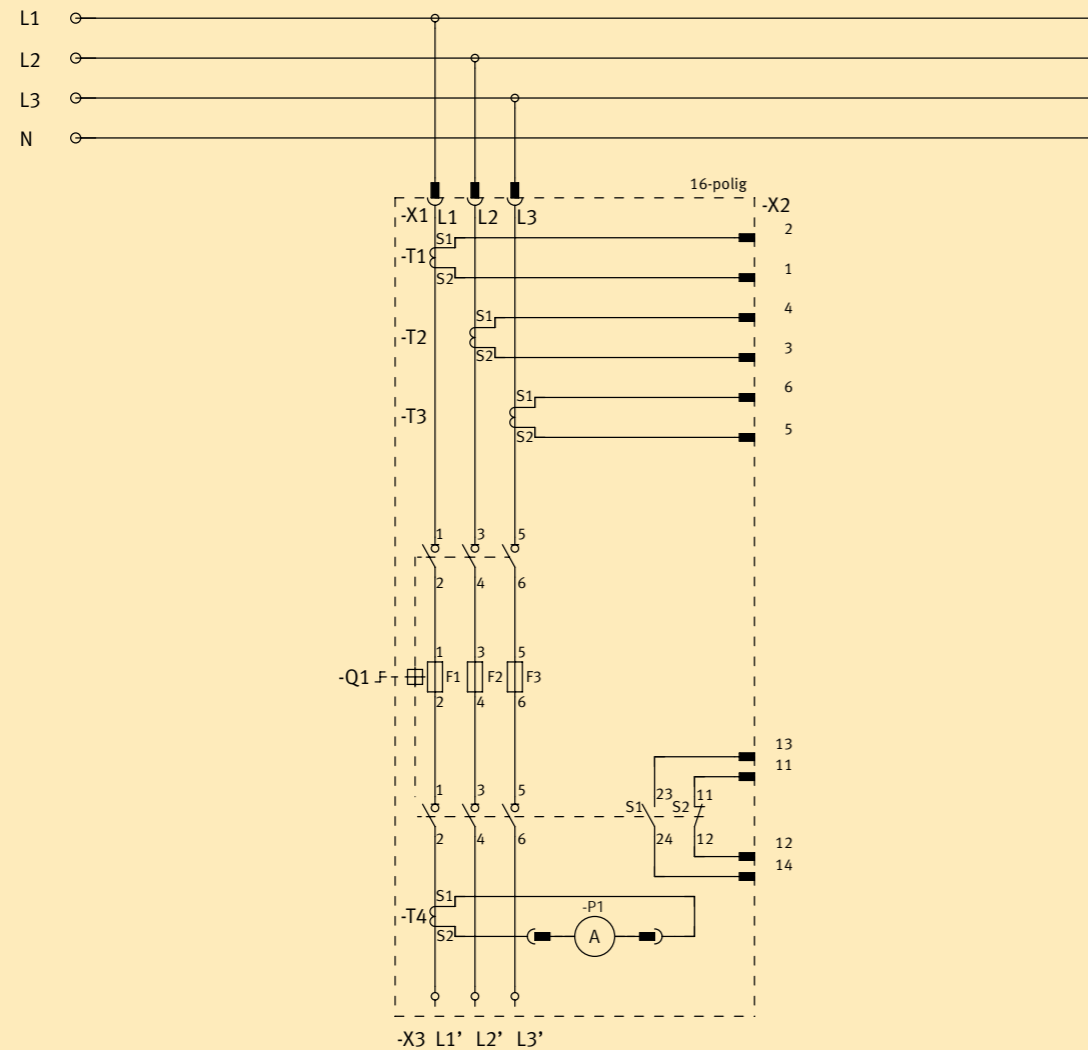
技术数据
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13725220

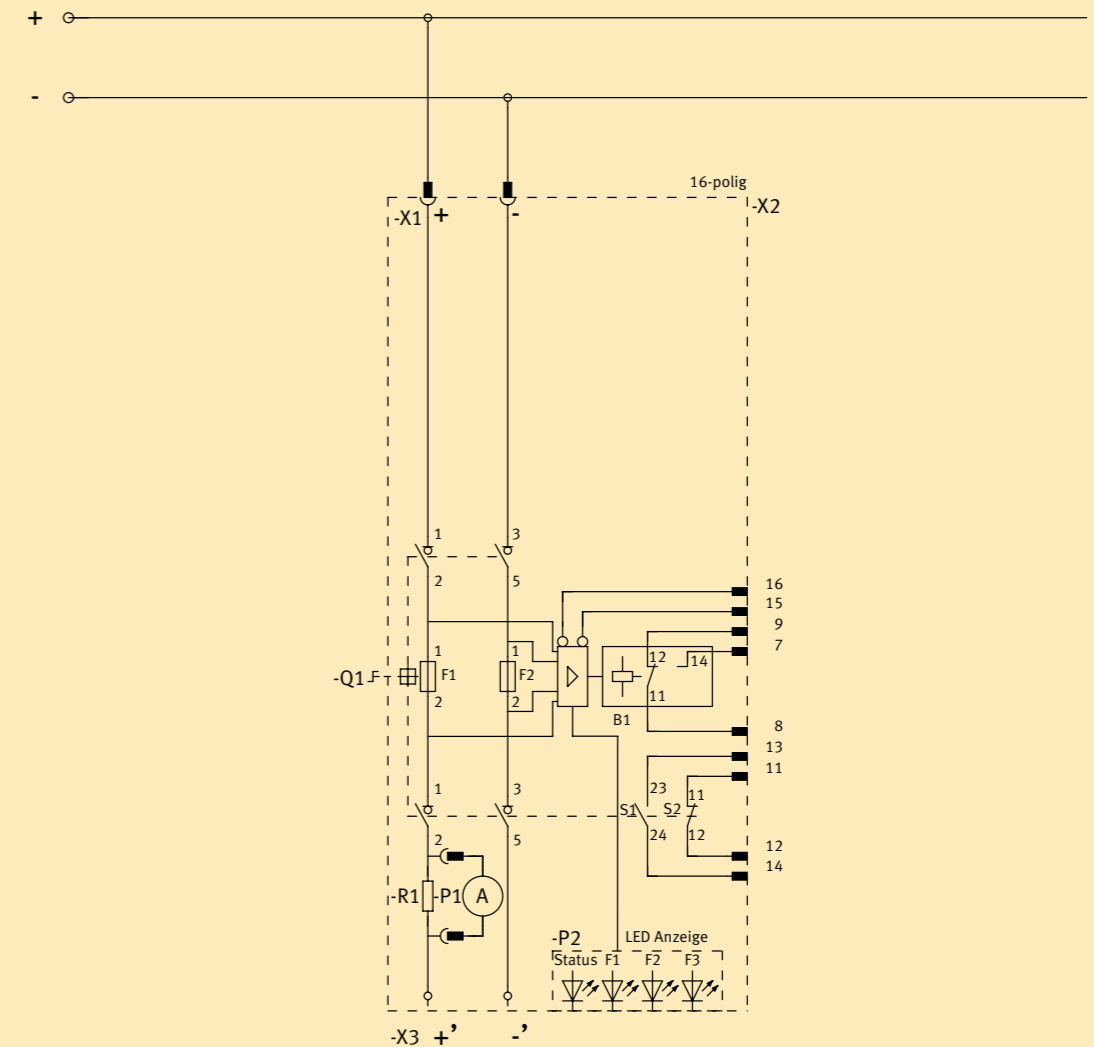
3 个 CT 与连接器相连, 第 4 个 CT 直接与测量装置相连 / Wiring plan for 3 current transformers switch to plug-in connector, the fourth current transformer is direct connected with measuring device



Q1	熔断器隔离开关 / Switch-disconnector-fuse
S1	开关位置指示常开点 / Switch position indicator make contact
S2	开关位置指示常闭点 / Switch position indicator break contact
F1, F2, F3	熔断器 / Fuses
T1, T2, T3	电流互感器 CT / Current transformers
P1	电流表 / Ammeter
X1	输入端 / Plug-in contacts
X2	16 针条形连接器 / 16-pole connector strip
X3	输出端 / Customer connection

13725228

直流应用接线图, 并联连接的测量设备与辅助开关, 内部集成熔断器监测模块 (ES09)
Wiring plan for DC, shunt is connected with measuring device and auxiliary switch, with integrated fuse monitoring (ES09)



Q1	熔断器隔离开关 / Switch-disconnector-fuse
S1	开关位置指示常开点 / Switch position indicator make contact
S2	开关位置指示常闭点 / Switch position indicator break contact
F1, F2	熔断器 / Fuses
P1	电流表 / Ammeter
P2	LED 显示熔断器监测单元 LED display fuse monitoring unit
B1	熔断器监测单元 / Fuse monitoring unit 继电器 / 控制熔断器隔离开关跳闸原理 Relais/operating current principle fuse tripping 开关位置: 常开 / 常闭 Switch position: make close/break open
R1	分流电阻 / Shunt
X1	输入端 / Plug-in contacts
X2	16 针条形连接器 / 16-pole connector strip
X3	输出端 / Customer connection

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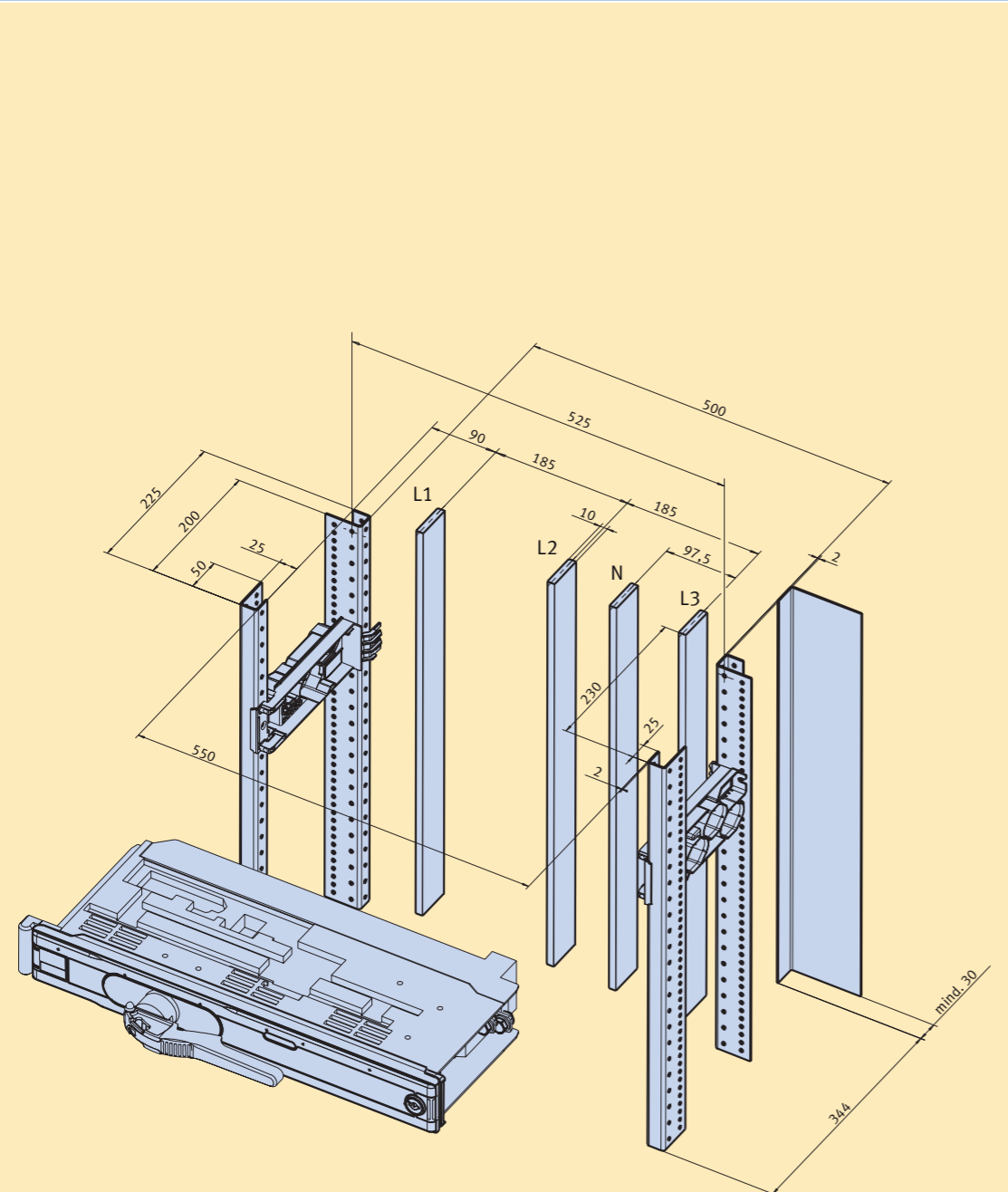
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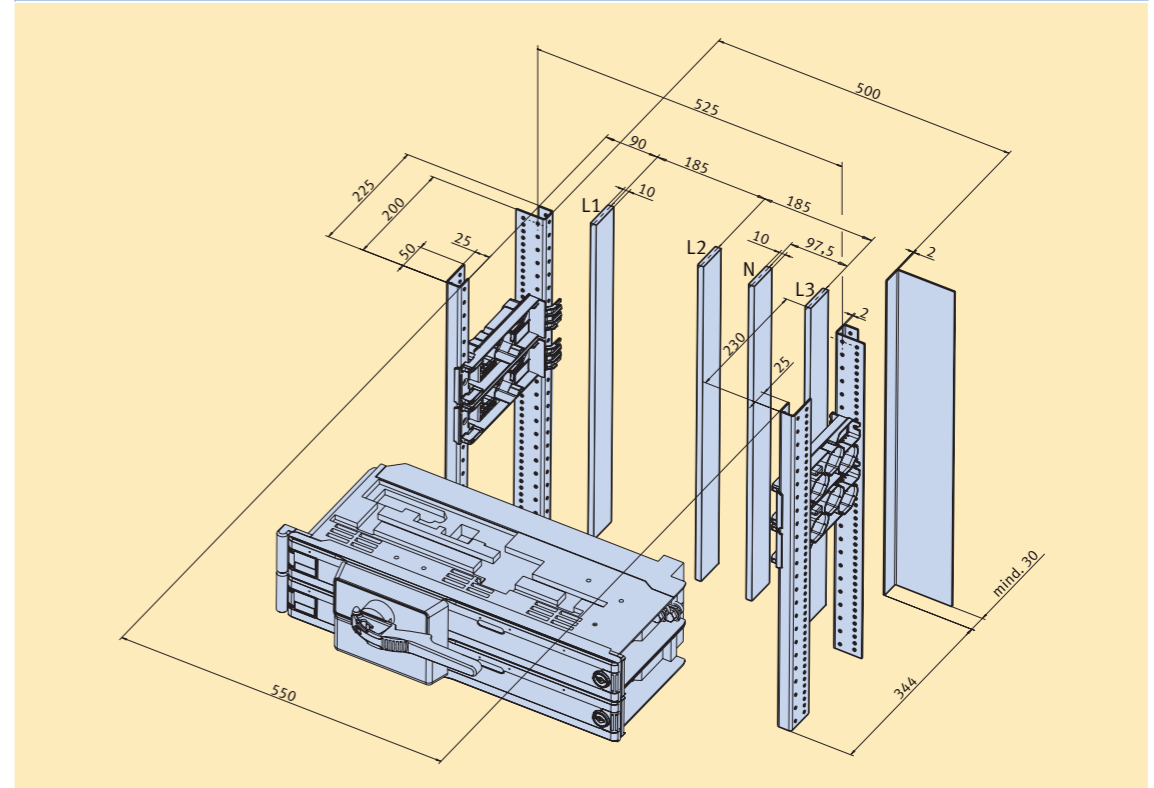
SASILplus – 尺寸

SASILplus – Dimensions

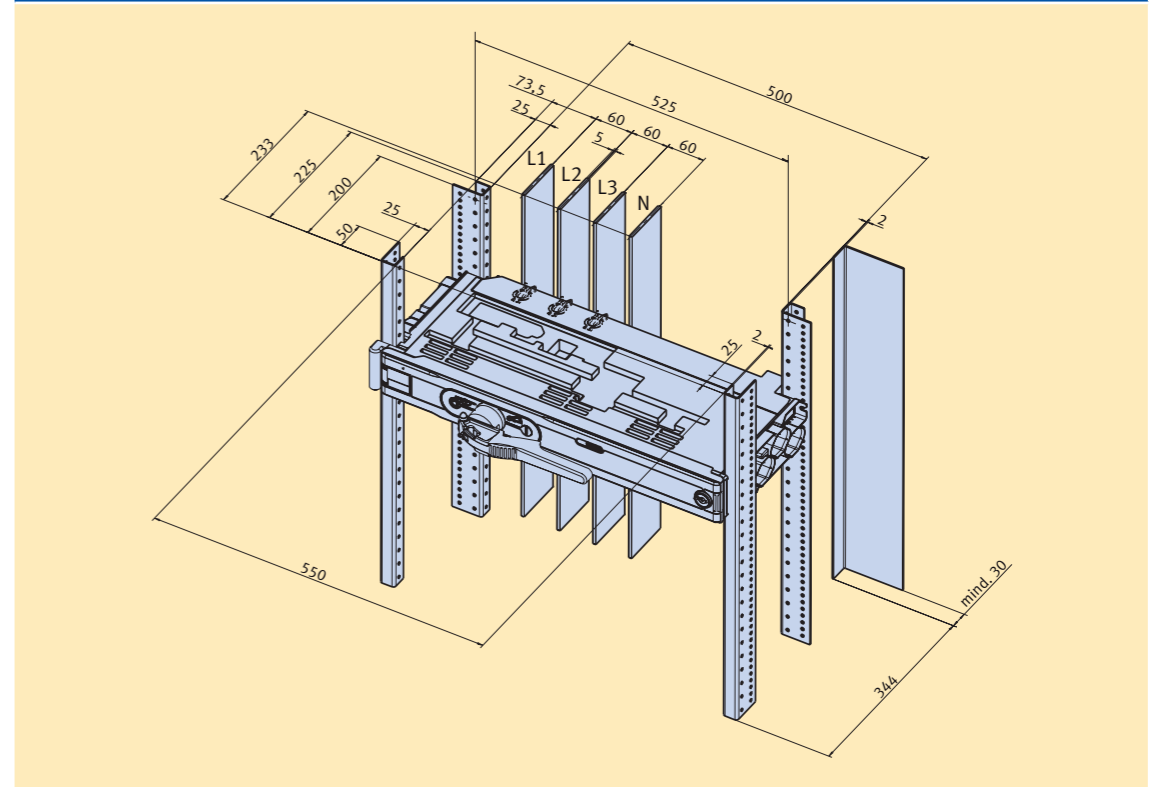
现场配电设备的安装尺寸, 185mm 母线系统
Assembly dimension of the field distribution device, 185mm busbar system



现场配电设备的安装尺寸, 185mm 母线系统, 4 极开关
Assembly dimension of the field distribution device, 185mm busbar system with 4-pole strip



现场配电设备的安装尺寸, 60mm 母线系统
Assembly dimension of the field distribution device, 60mm busbar system



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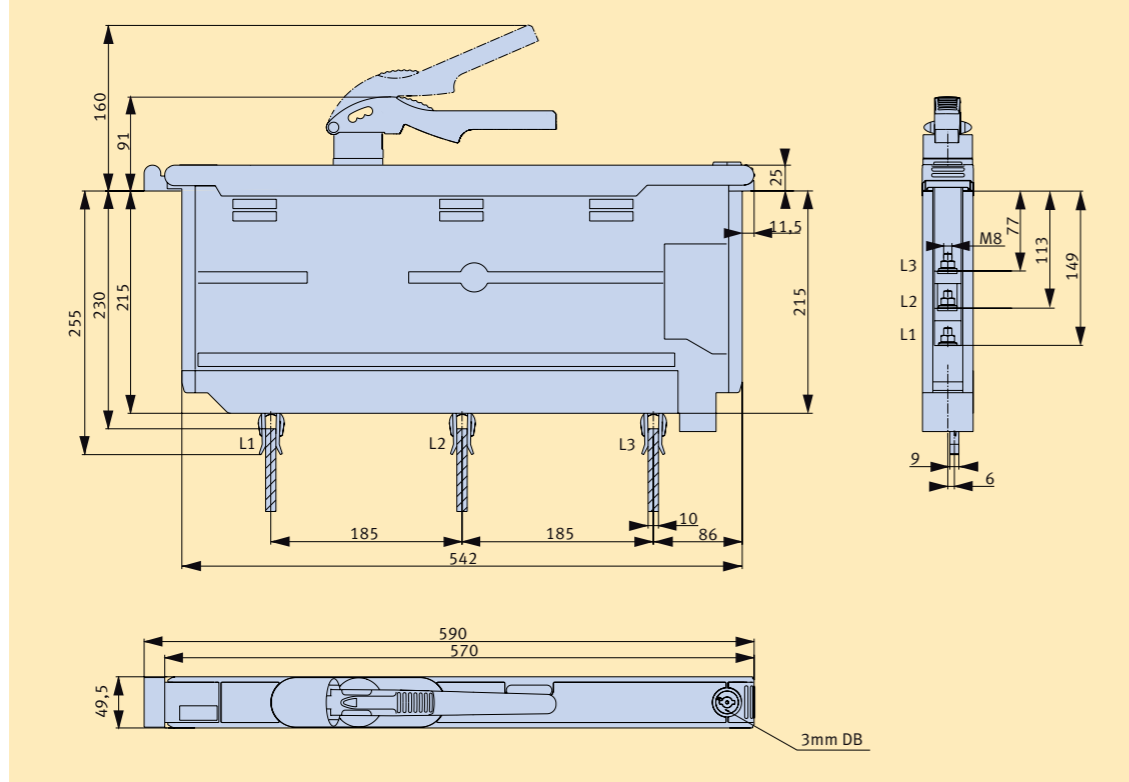
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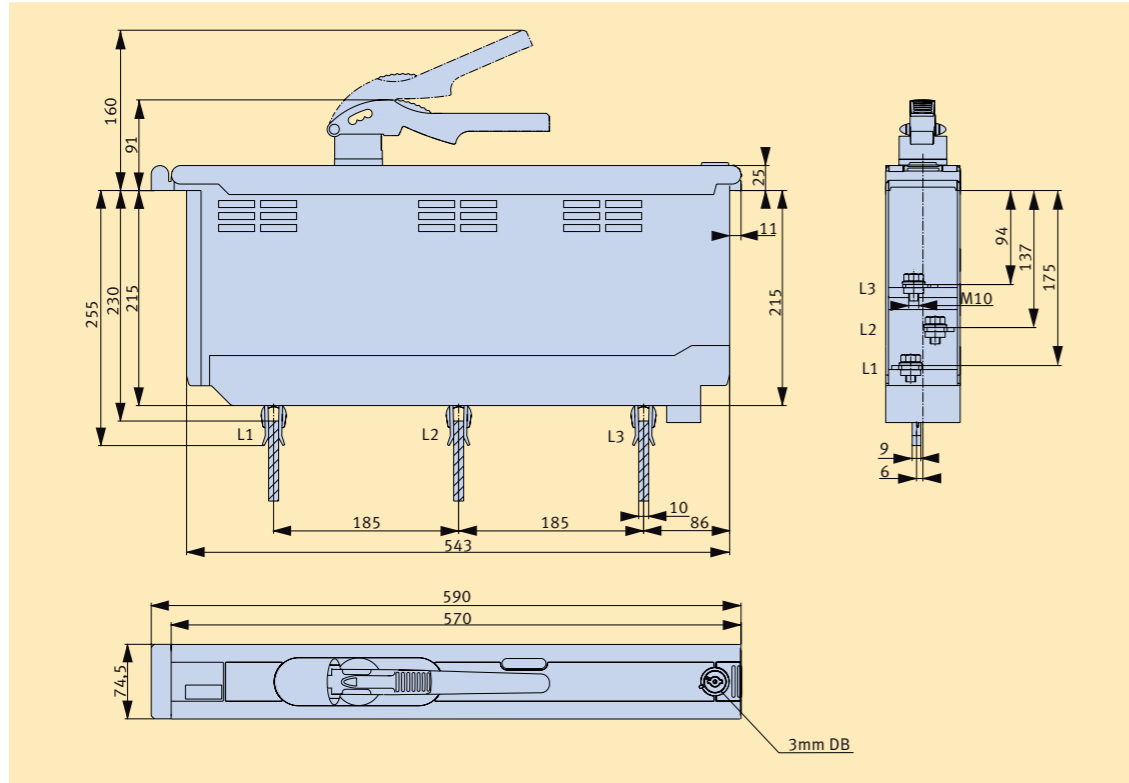
SASILplus – 尺寸

SASILplus – Dimensions

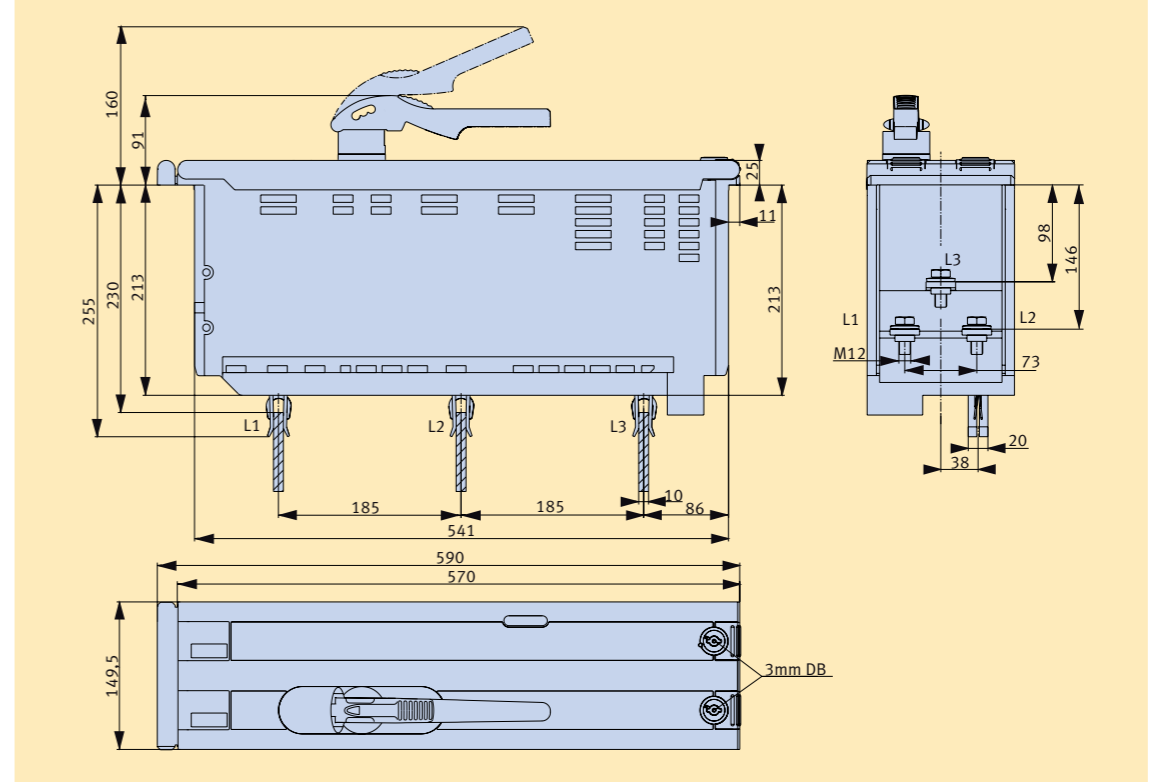
SASIL-PL00, 3 极, 右接线, 185mm 母线系统
SASIL-PL00, 3-pole, connection right, 185mm busbar system



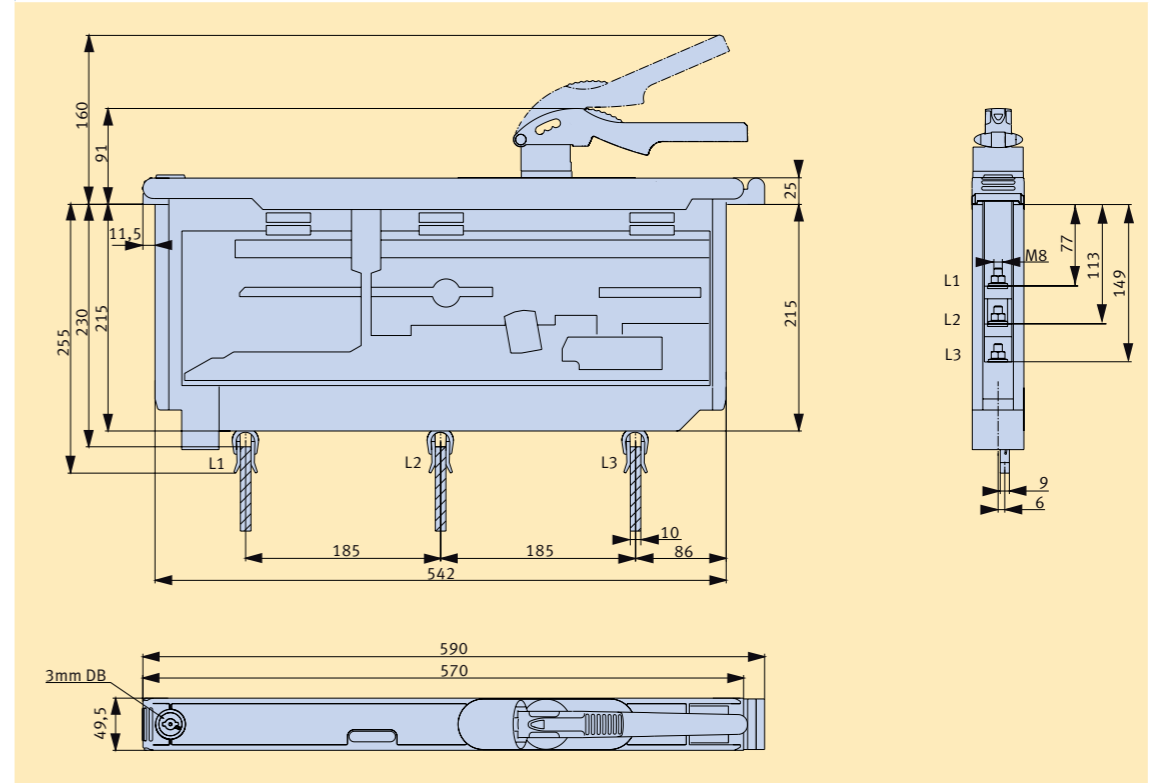
SASIL-PL1, 3 极, 右接线, 185mm 母线系统
SASIL-PL1, 3-pole, connection right, 185mm busbar system



SASIL-PL2/3, 3 极, 右接线, 条形开关 800A, SASIL-PL00/1000V, 185mm 母线系统
SASIL-PL2/3, 3-pole, connection right, strip-type-switch-disconnector 800A, SASIL-PL00/1000V, 185mm busbar system



SASIL-PL00, 3 极, 左接线, 185mm 母线系统
SASIL-PL00, 3-pole, connection left, 185mm busbar system



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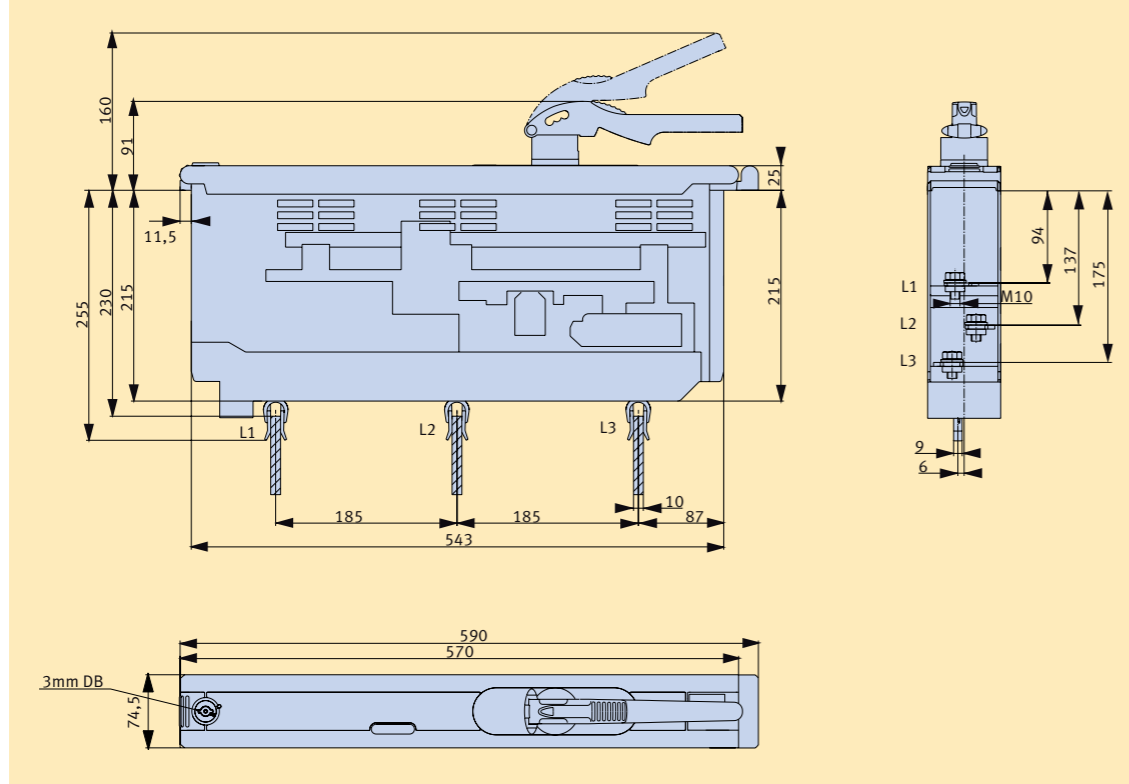
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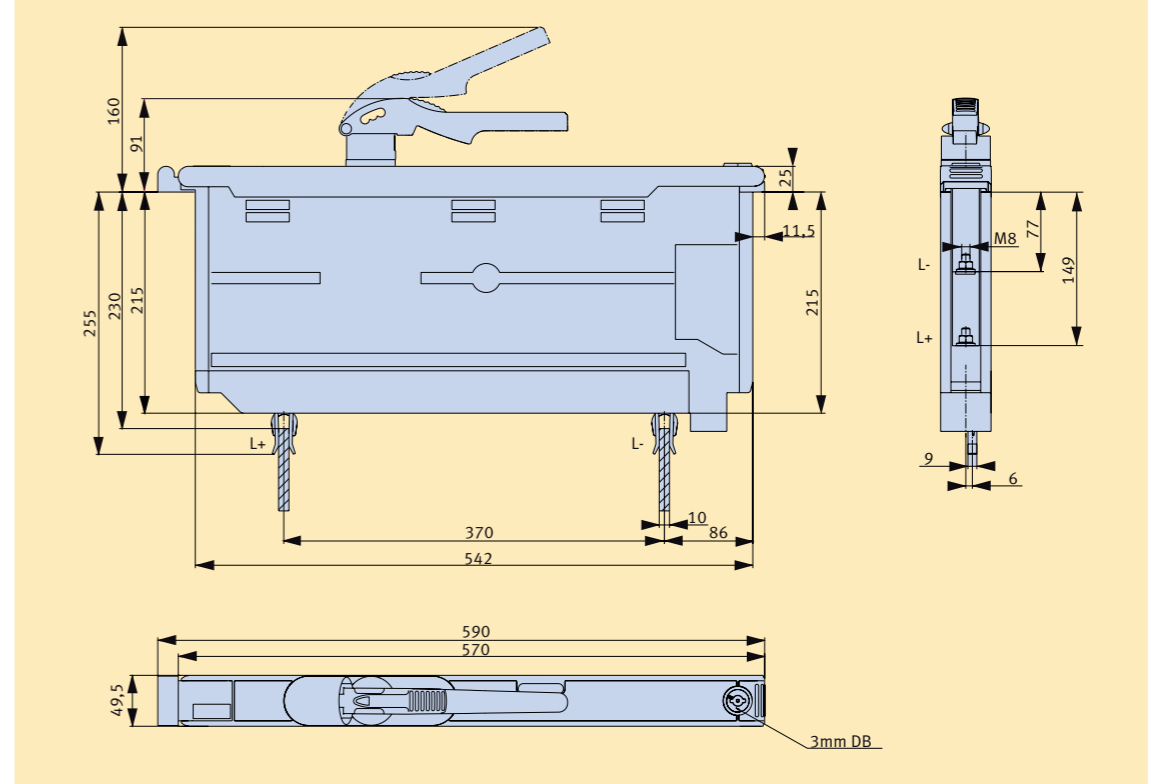
SASILplus – 尺寸

SASILplus – Dimensions

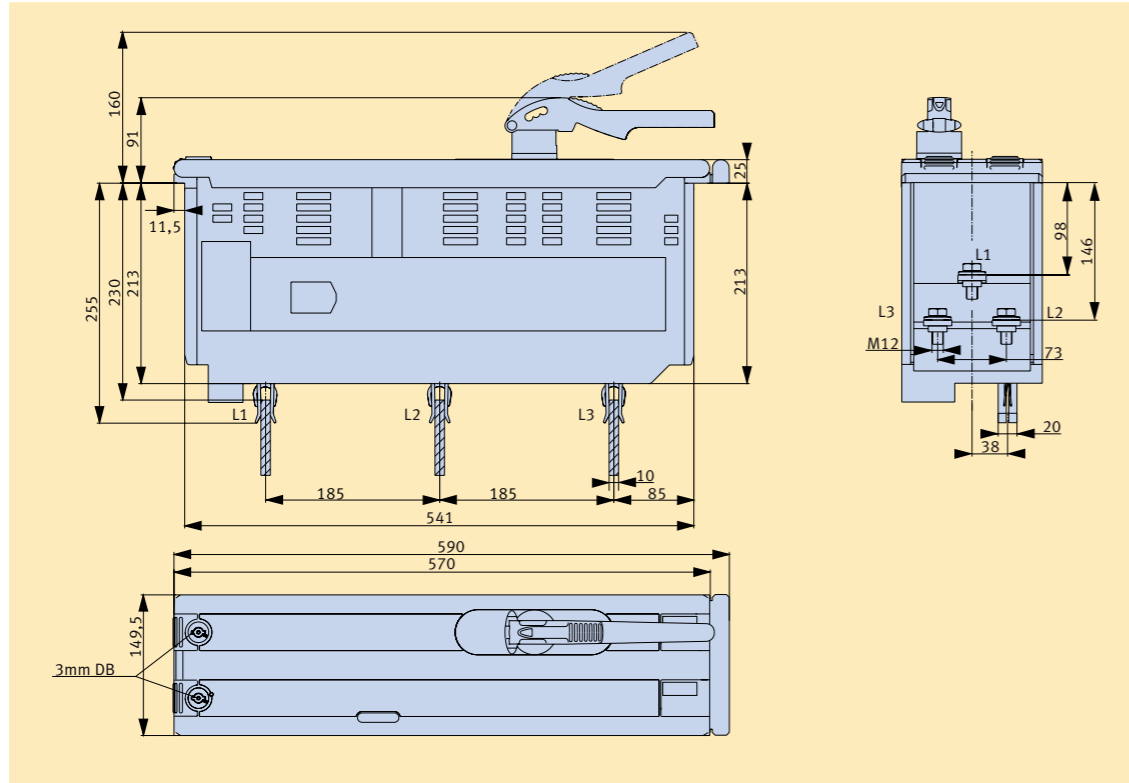
SASIL-PL1, 3 极, 左接线, 185mm 母线系统
SASIL-PL1, 3-pole, connection left, 185mm busbar system



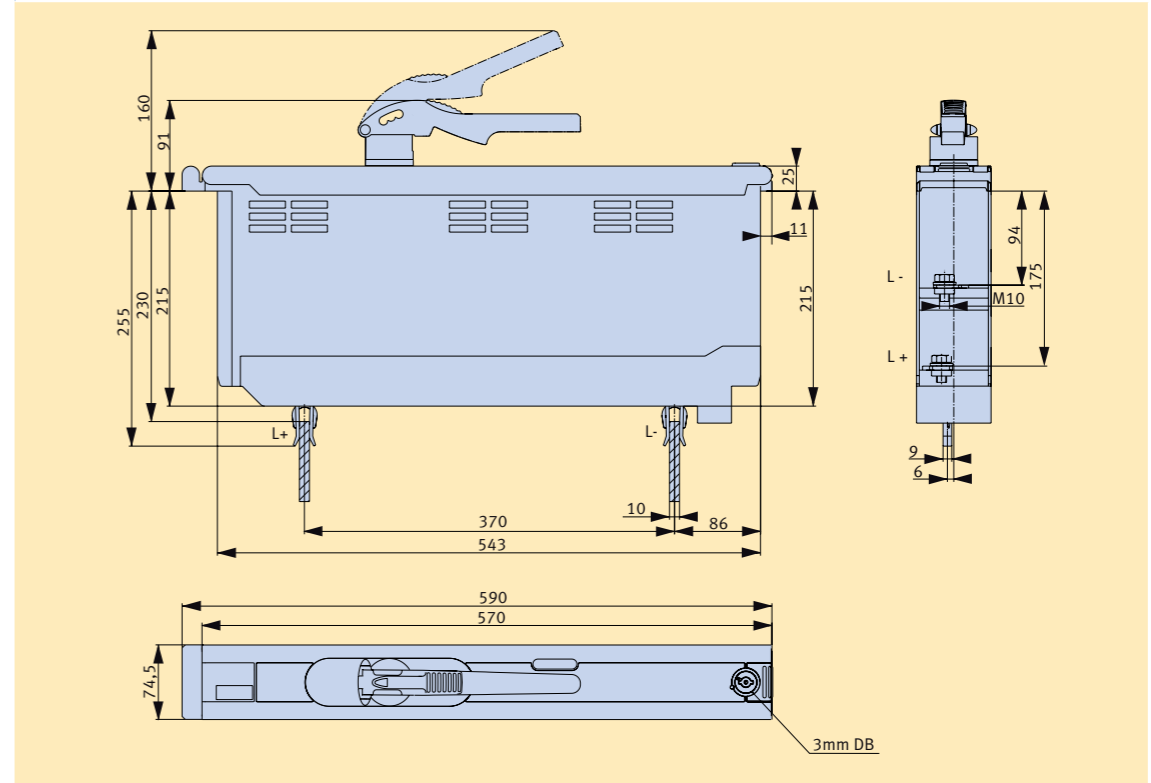
SASIL-PL00, 2 极, 右接线, 370mm 母线系统
SASIL-PL00, 2-pole, connection right, 370mm busbar system



SASIL-PL2/3, 3 极, 左接线, 185mm 母线系统
SASIL-PL2/3, 3-pole, connection left, 185mm busbar system



SASIL-PL1, 2 极, 右接线, 370mm 母线系统
SASIL-PL1, 2-pole, connection right, 370mm busbar system



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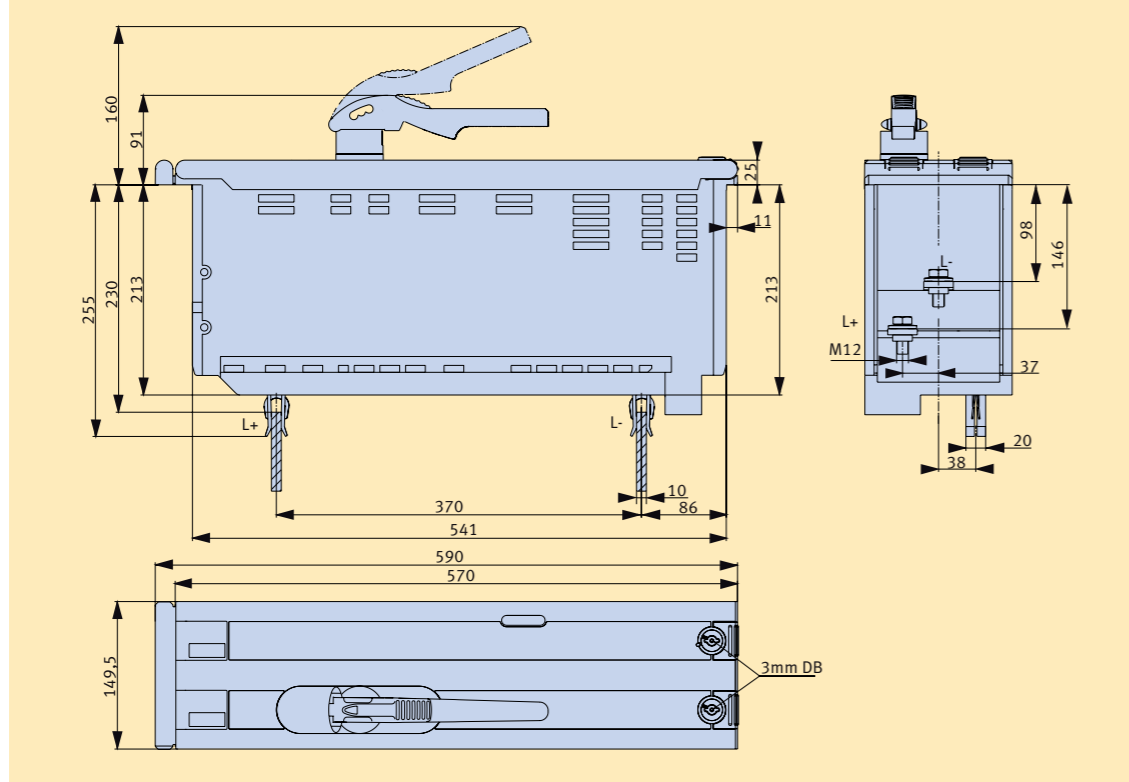
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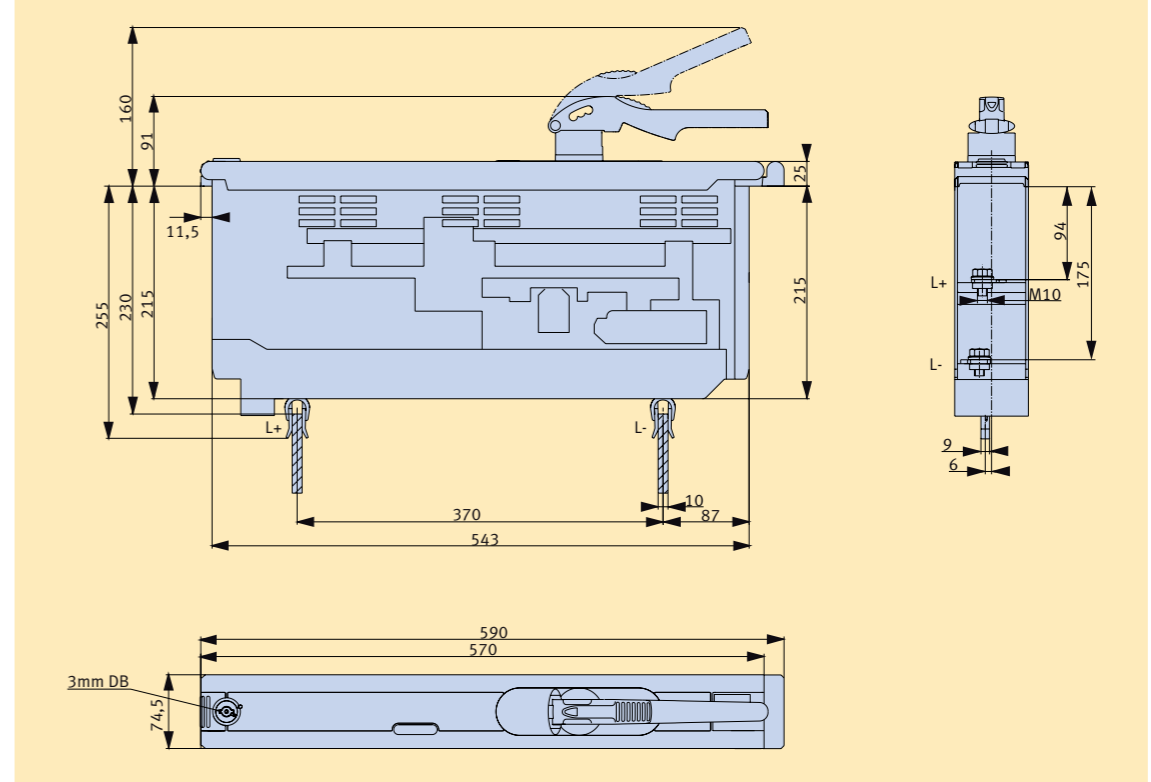
SASILplus – 尺寸

SASILplus – Dimensions

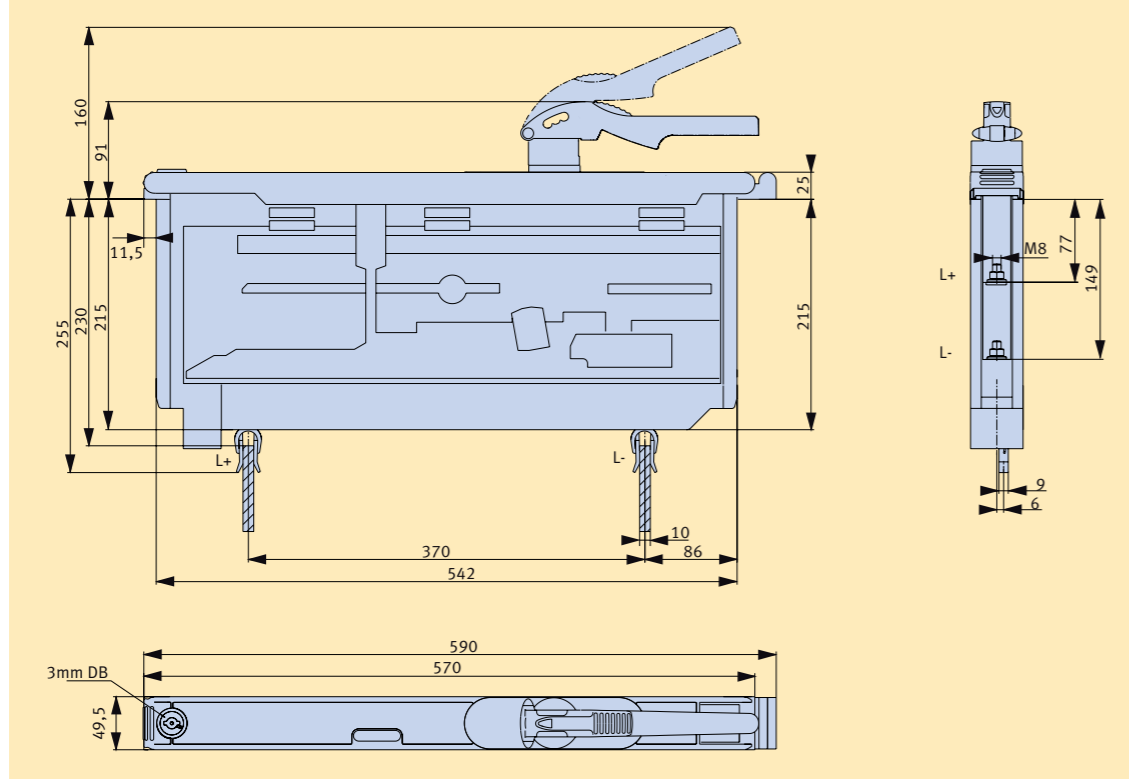
SASIL-PL2/3, 2 极, 右接线, 370mm 母线系统
SASIL-PL2/3, 2-pole, connection right, 370mm busbar system



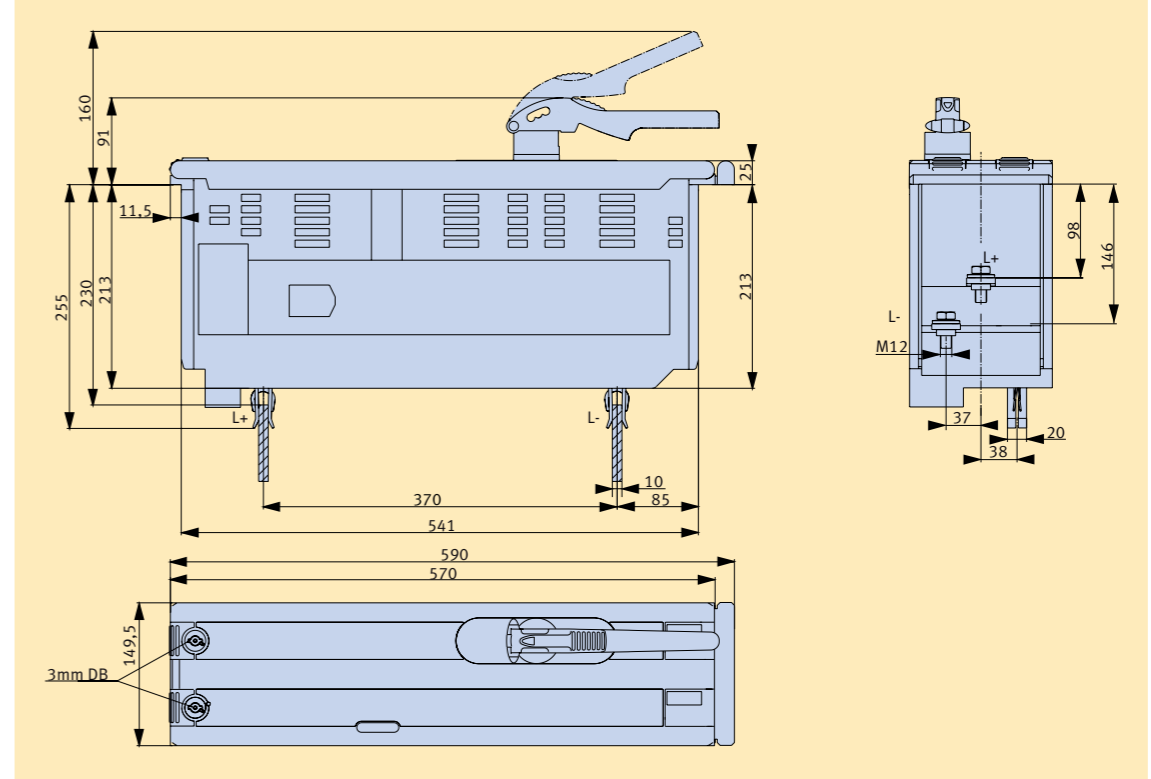
SASIL-PL1, 2 极, 左接线, 370mm 母线系统
SASIL-PL1, 2-pole, connection left, 370mm busbar system



SASIL-PL00, 2 极, 左接线, 370mm 母线系统
SASIL-PL00, 2-pole, connection left, 370mm busbar system



SASIL-PL2/3, 2 极, 左接线, 370mm 母线系统
SASIL-PL2/3, 2-pole, connection left, 370mm busbar system



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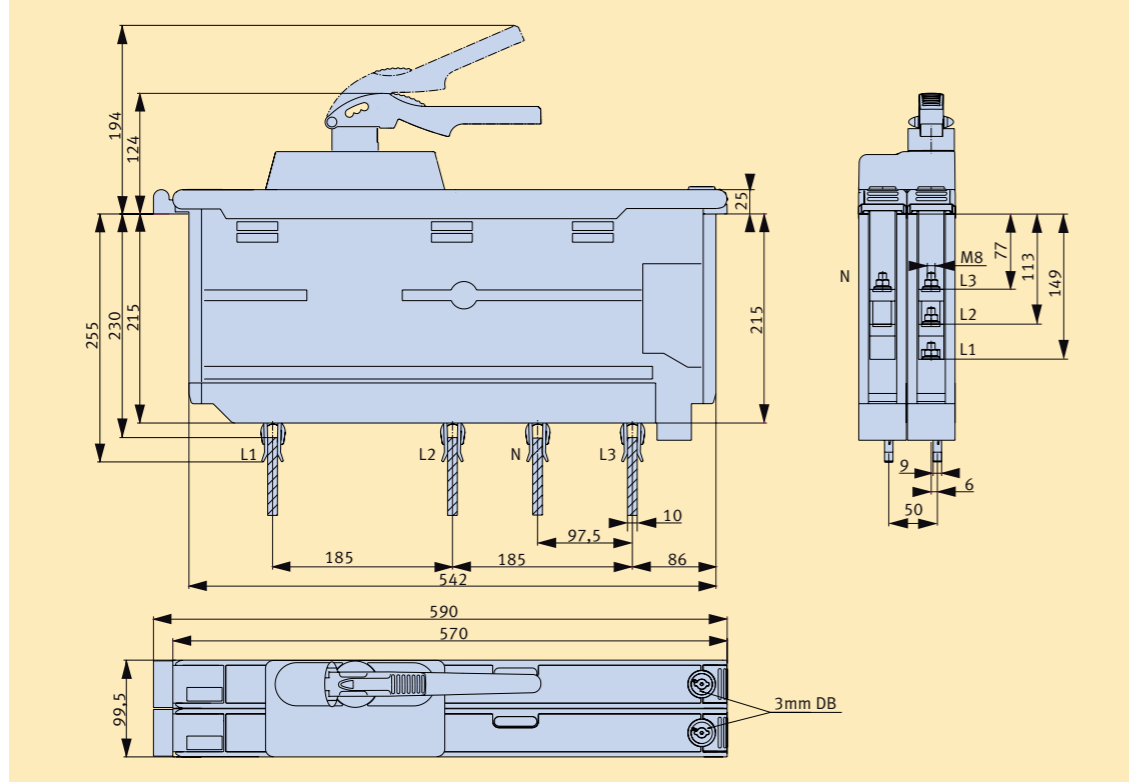
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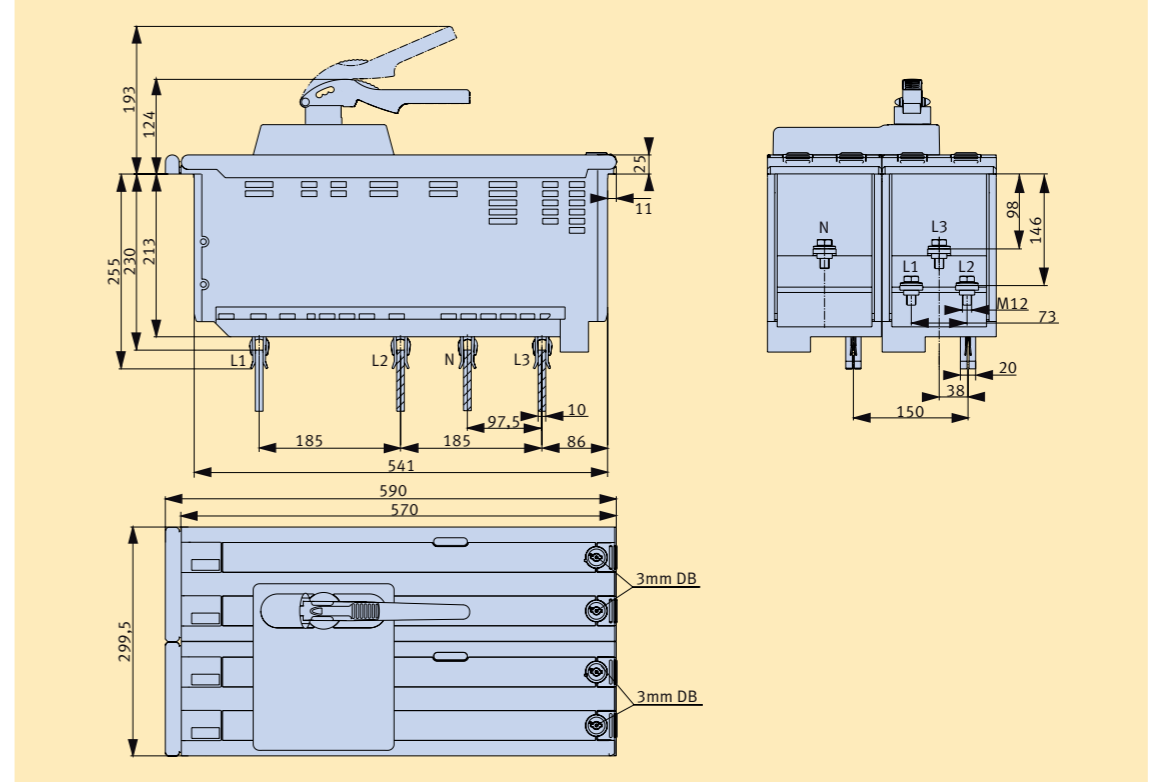
SASILplus – 尺寸

SASILplus – Dimensions

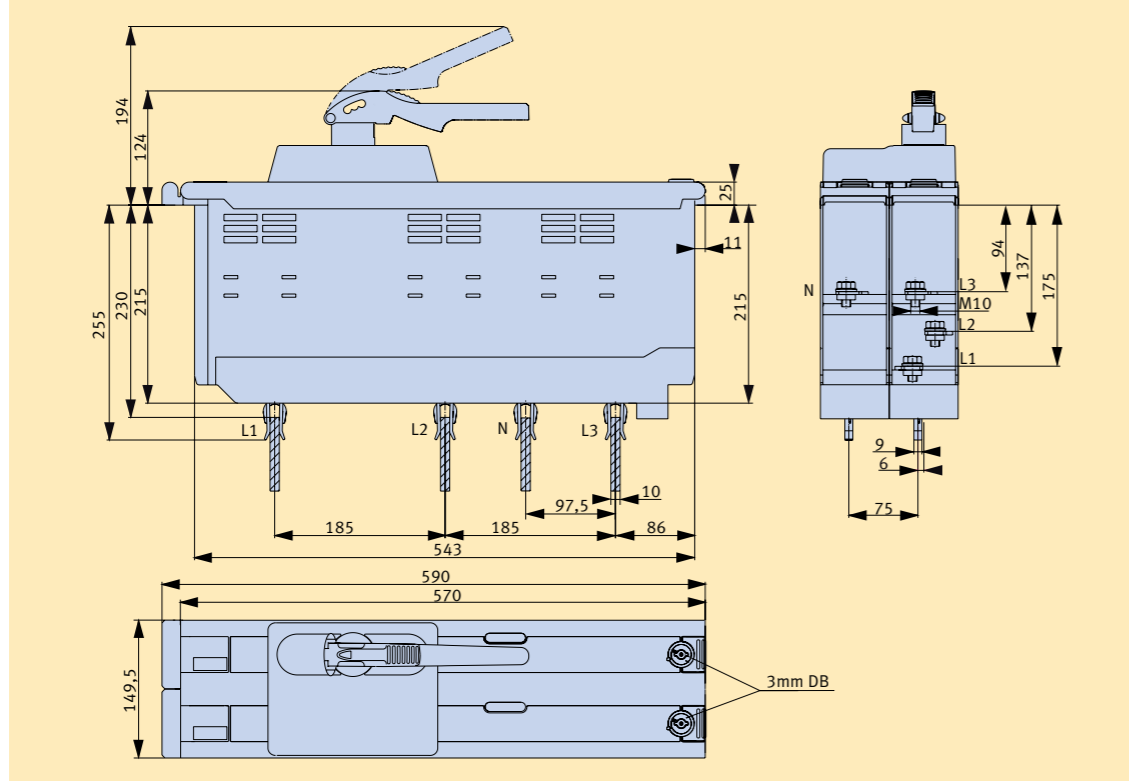
SASIL-PL00, 4 极, 右接线, 185mm 母线系统
SASIL-PL00, 4-pole, connection right, 185mm busbar system



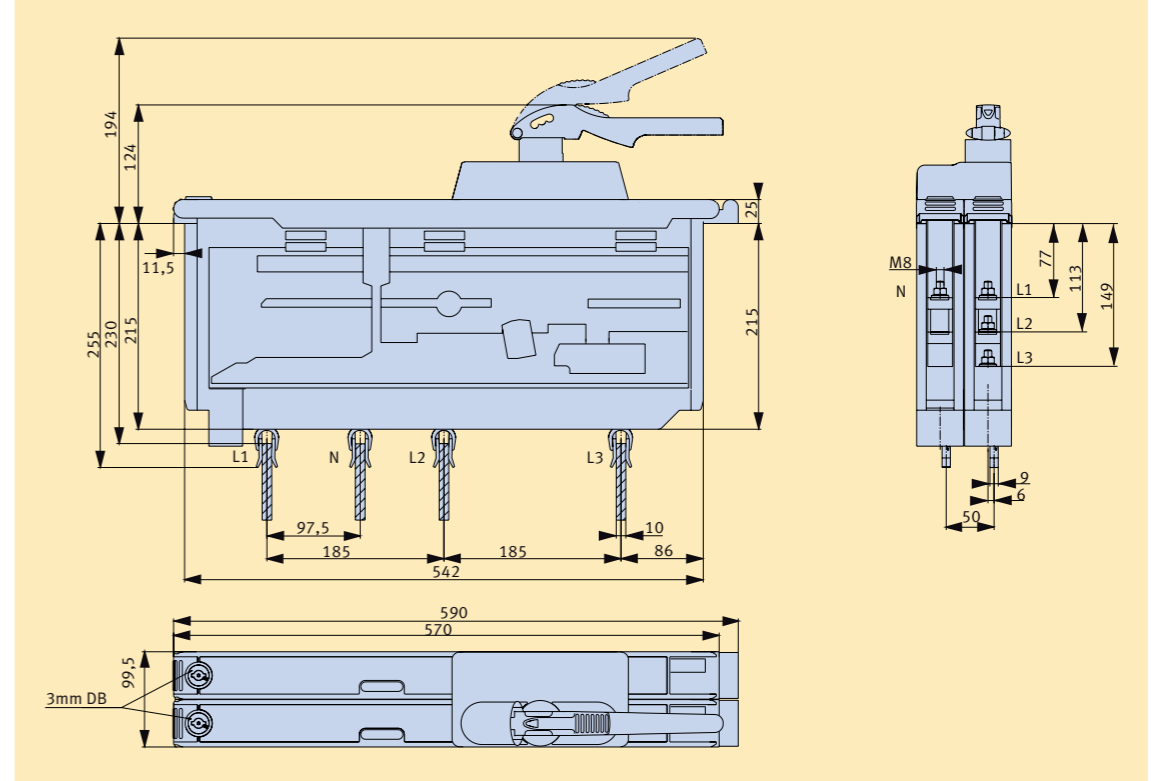
SASIL-PL2/3, 4 极, 右接线, 185mm 母线系统
SASIL-PL2/3, 4-pole, connection right, 185mm busbar system



SASIL-PL1, 4 极, 右接线, 185mm 母线系统
SASIL-PL1, 4-pole, connection right, 185mm busbar system



SASIL-PL00, 4 极, 左接线, 185mm 母线系统
SASIL-PL00, 4-pole, connection left, 185mm busbar system



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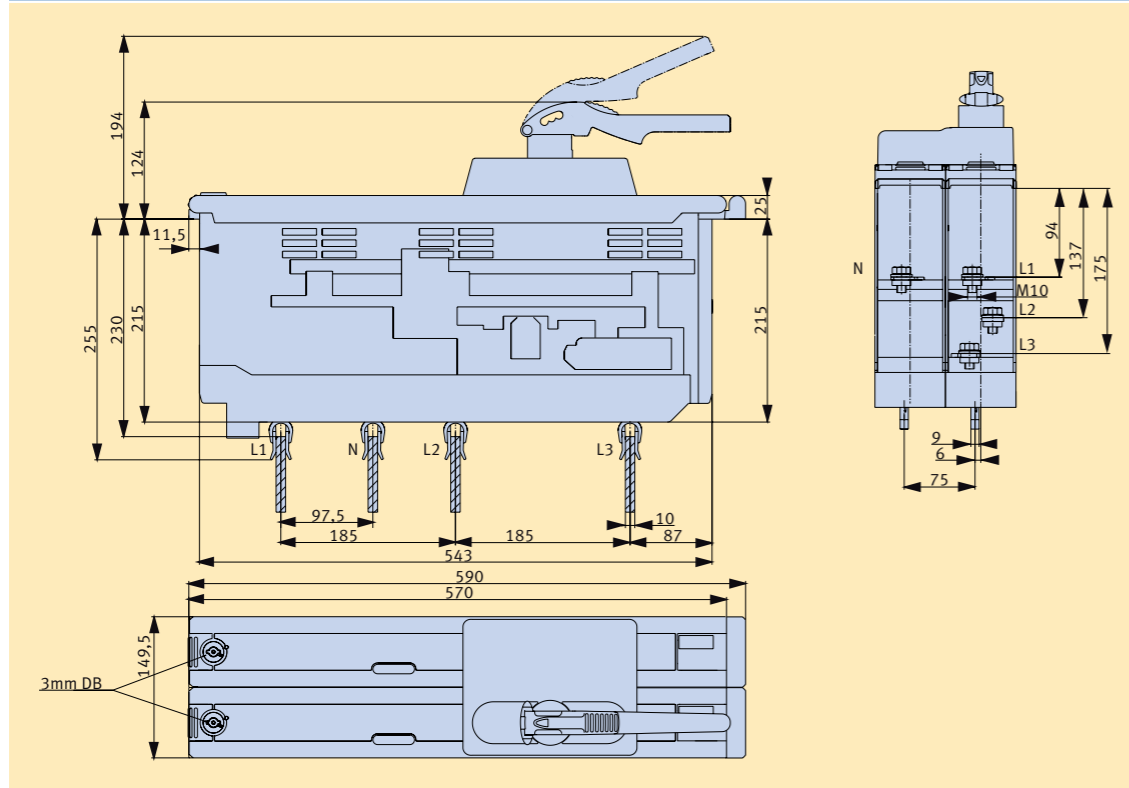
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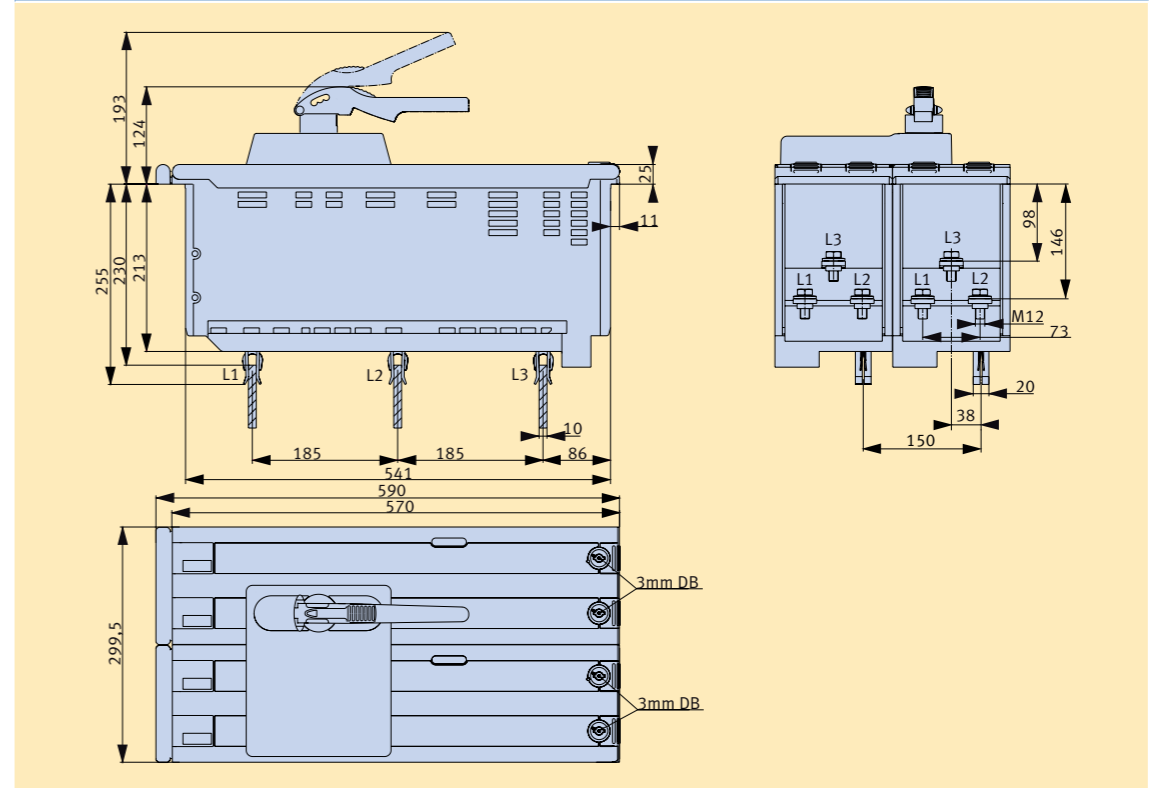
SASILplus – 尺寸

SASILplus – Dimensions

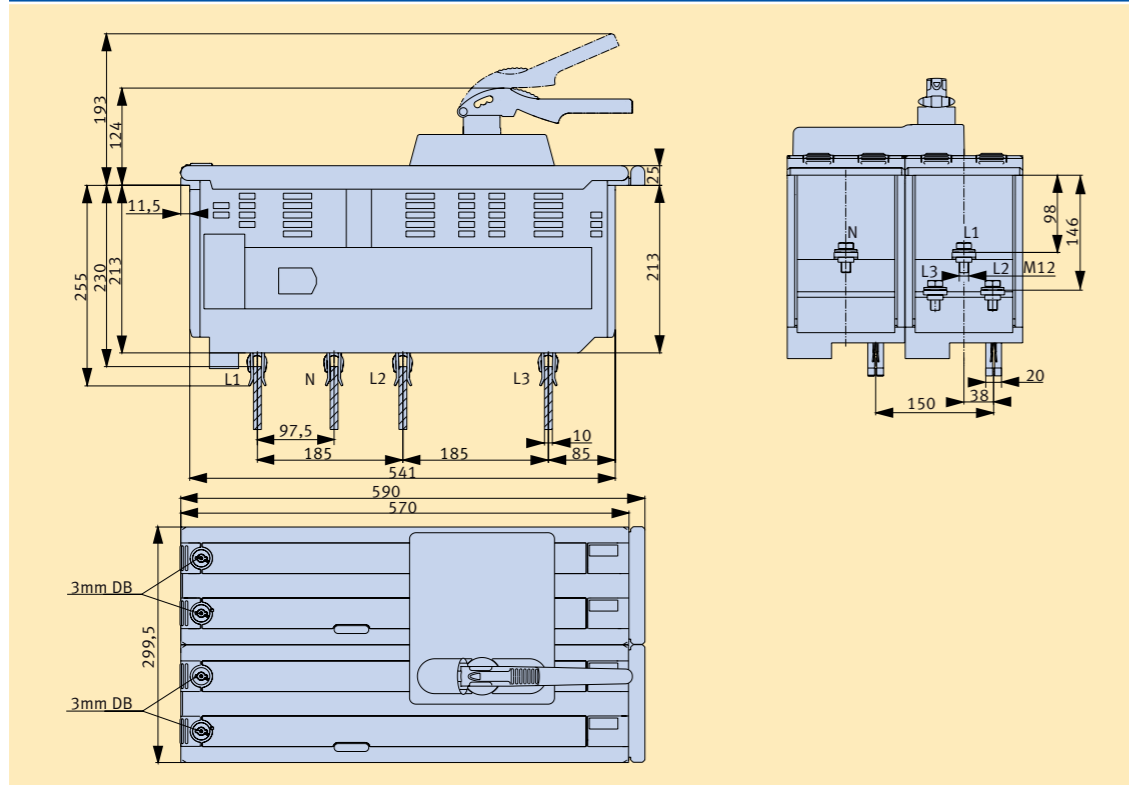
SASIL-PL1, 4 极, 左接线, 185mm 母线系统
SASIL-PL1, 4-pole, connection left, 185mm busbar system



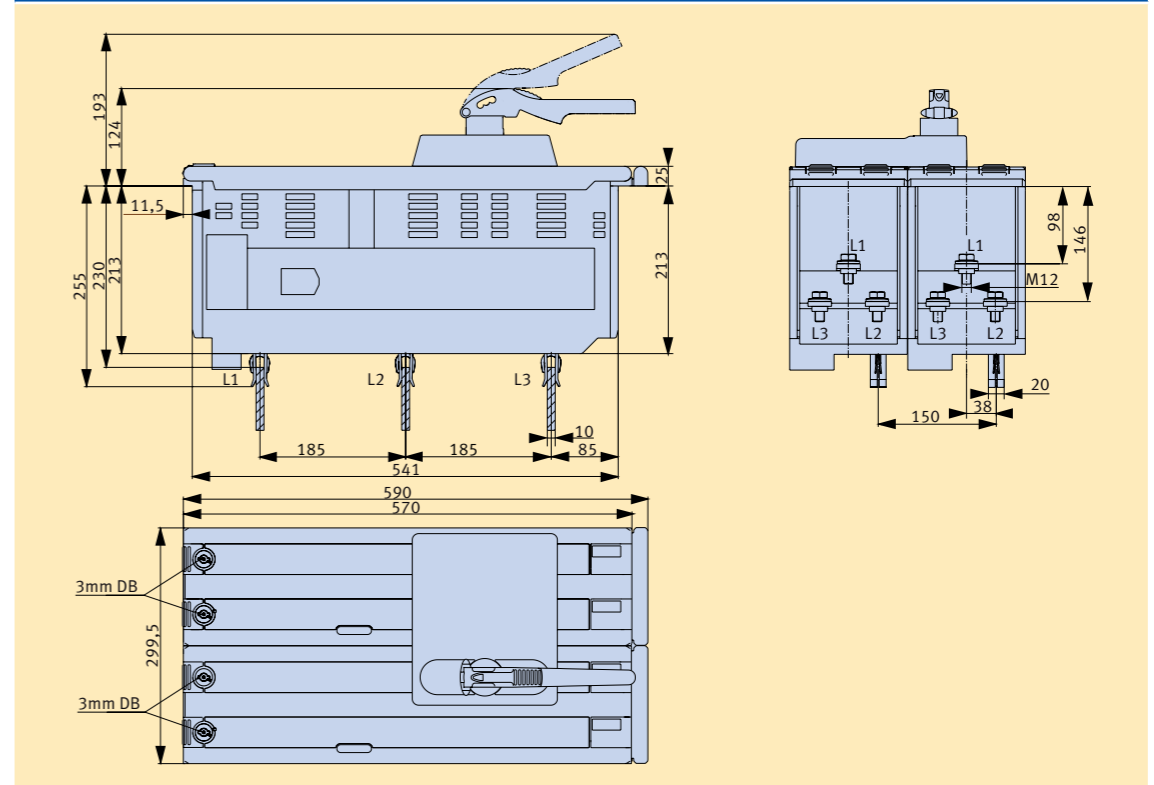
双体开关 SASIL-PL3 ARD, 630A/1000A, 右接线, 185mm 母线系统
Double strip SASIL-PL3, 630A/1000A, connection right, 185mm busbar system



SASIL-PL2/3, 4 极, 左接线, 185mm 母线系统
SASIL-PL2/3, 4-pole, connection left, 185mm busbar system



双体开关 SASIL-PL3 ALD, 630A/1000A, 左接线, 185mm 母线系统
Double strip SASIL-PL3, 630A/1000A, connection left, 185mm busbar system



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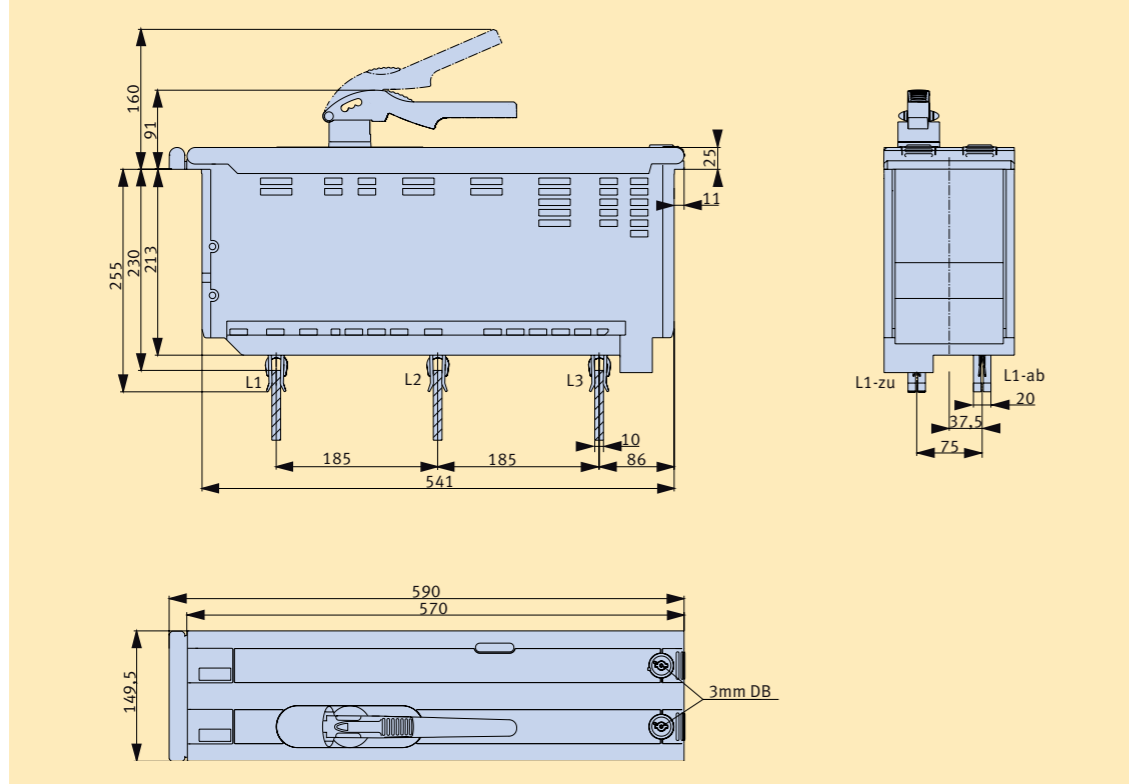
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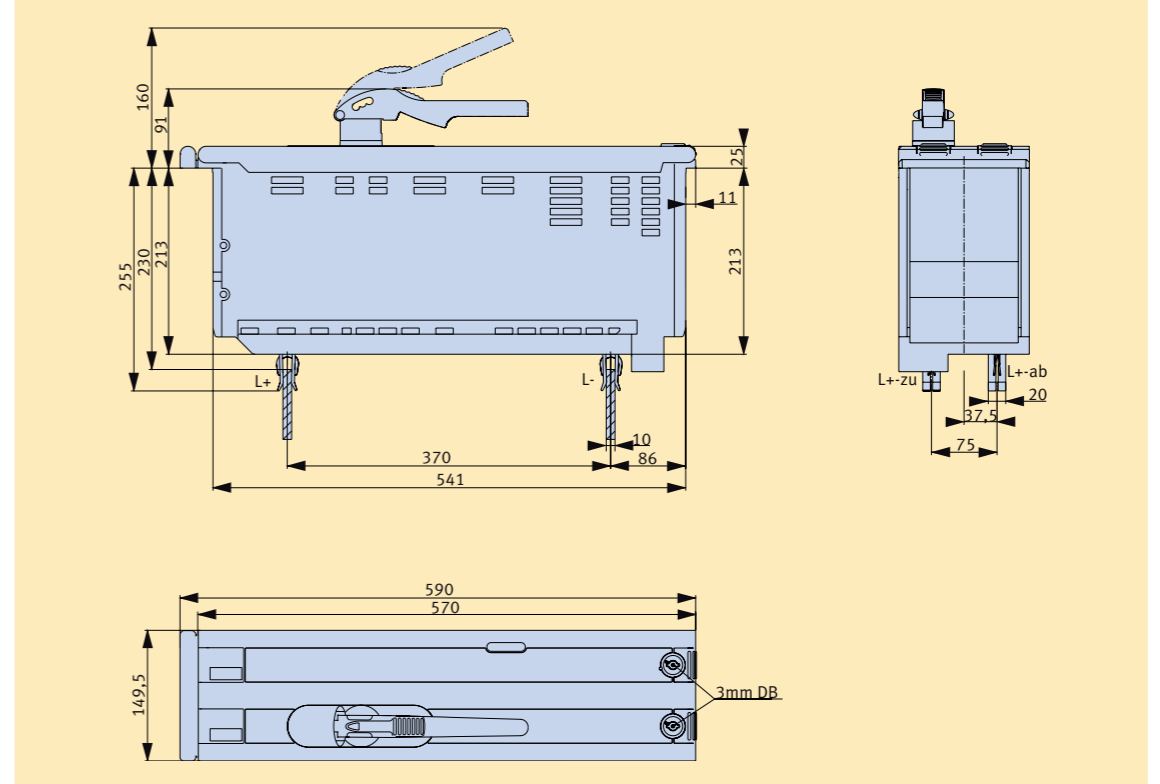
SASILplus – 尺寸

SASILplus – Dimensions

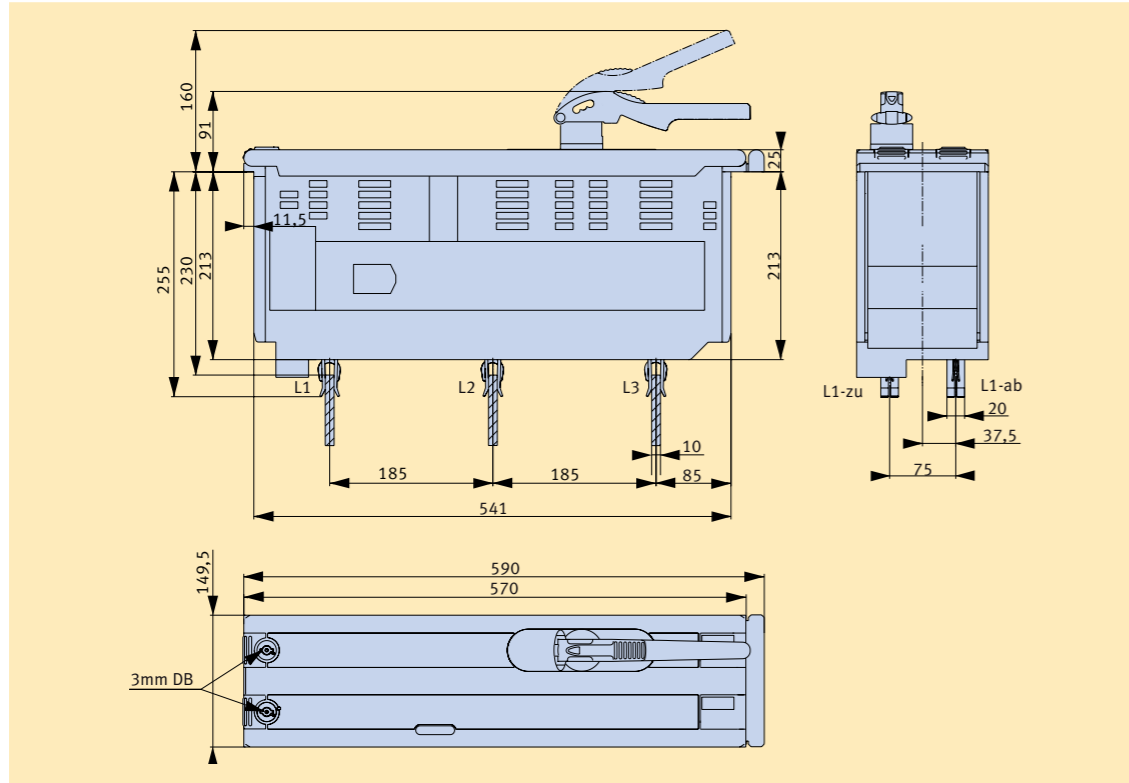
耦合开关 SASIL-PL3 KR, 3 极, 右接线, 185mm 母线系统
Coupling strip SASIL-PL3, 3-pole, connection right, 185mm busbar system



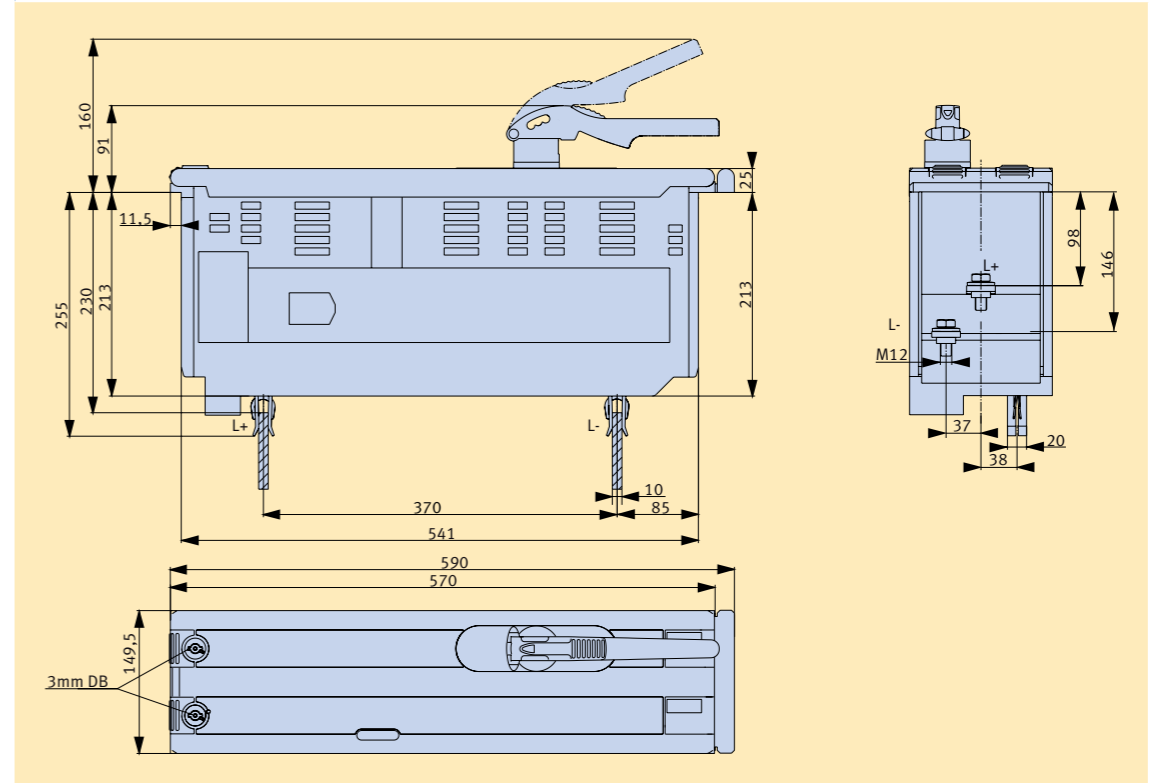
耦合开关 SASIL-PL3 KR, 2 极, 右接线, 370mm 母线系统
Coupling strip SASIL-PL3, 2-pole, connection right, 370mm busbar system



耦合开关 SASIL-PL3 KL, 3 极, 左接线, 185mm 母线系统
Coupling strip SASIL-PL3, 3-pole, connection left, 185mm busbar system



耦合开关 SASIL-PL3 KL, 2 极, 左接线, 370mm 母线系统
Couple strip SASIL-PL3, 2-pole, connection left, 370mm busbar system



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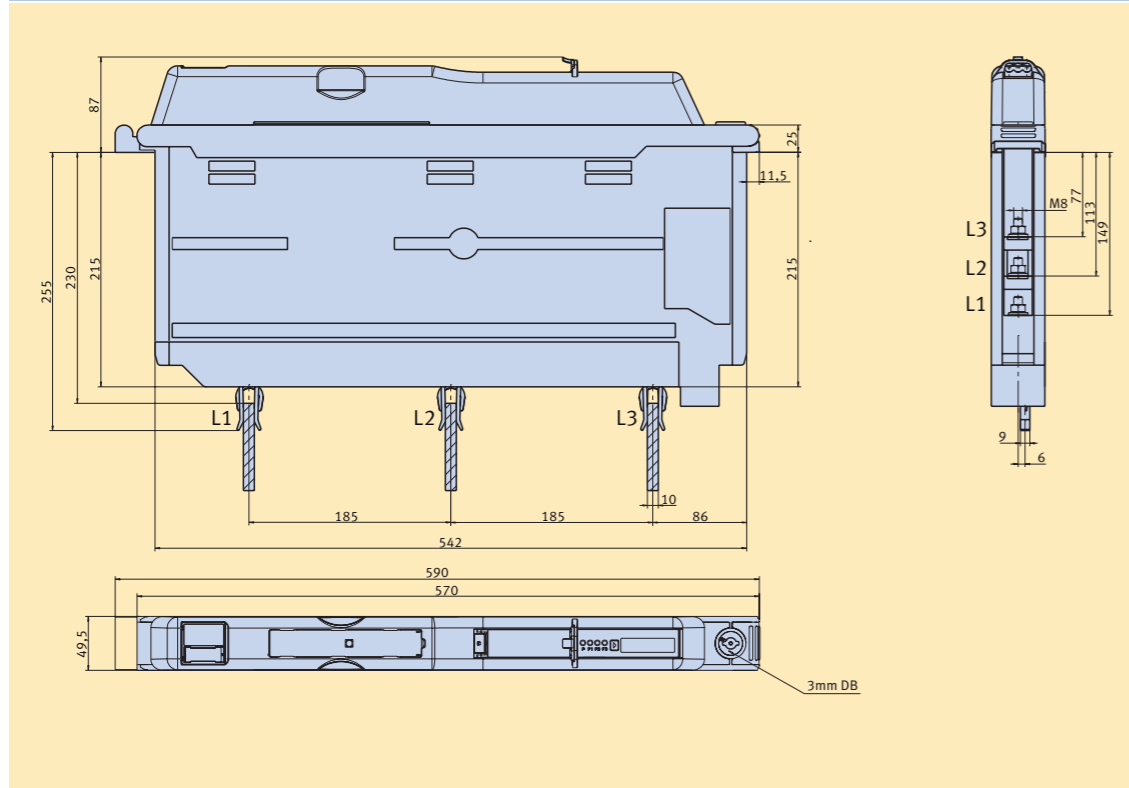
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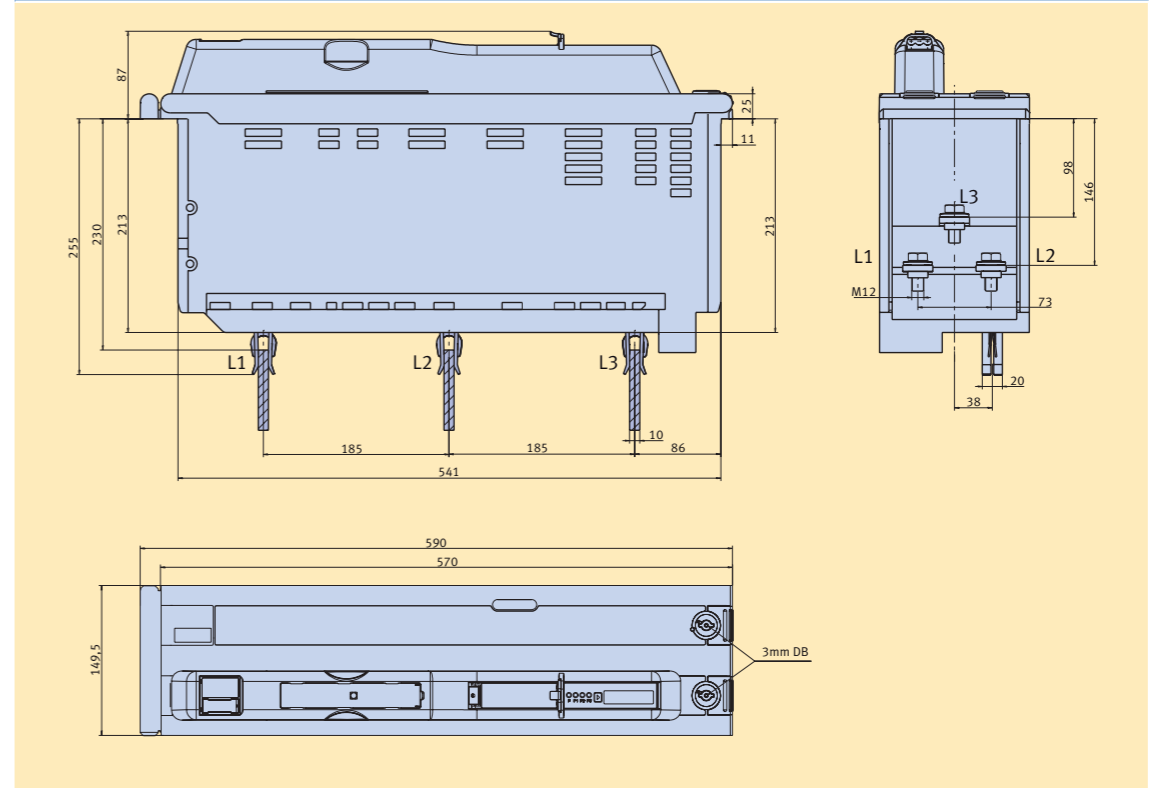
SASILplus – 尺寸

SASILplus – Dimensions

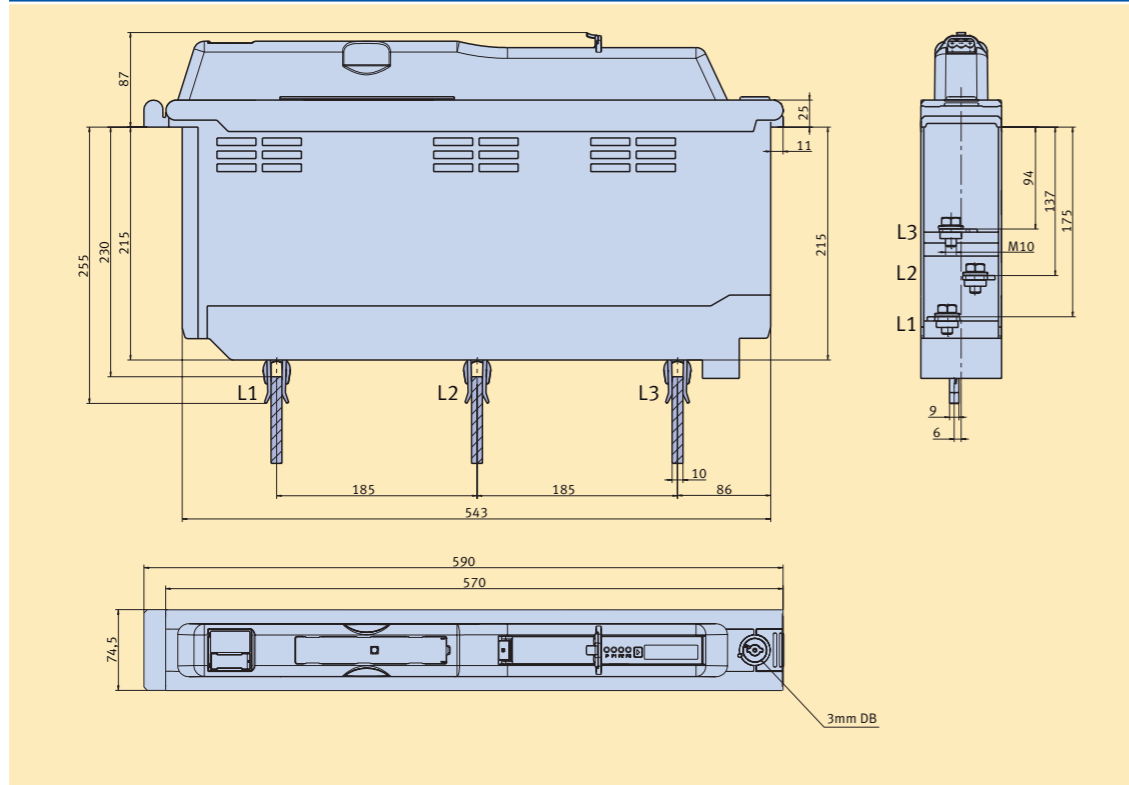
SASIL-PL00 MOT, 3 极, 右接线, 185mm 母线系统
SASIL-PL00 MOT, 3-pole, connection right, 185mm busbar system



SASIL-PL2/3 MOT, 3 极, 右接线, 185mm 母线系统
SASIL-PL2/3 MOT, 3-pole, connection right, 185mm busbar system



SASIL-PL1 MOT, 3 极, 右接线, 185mm 母线系统
SASIL-PL1 MOT, 3-pole, connection right, 185mm busbar system



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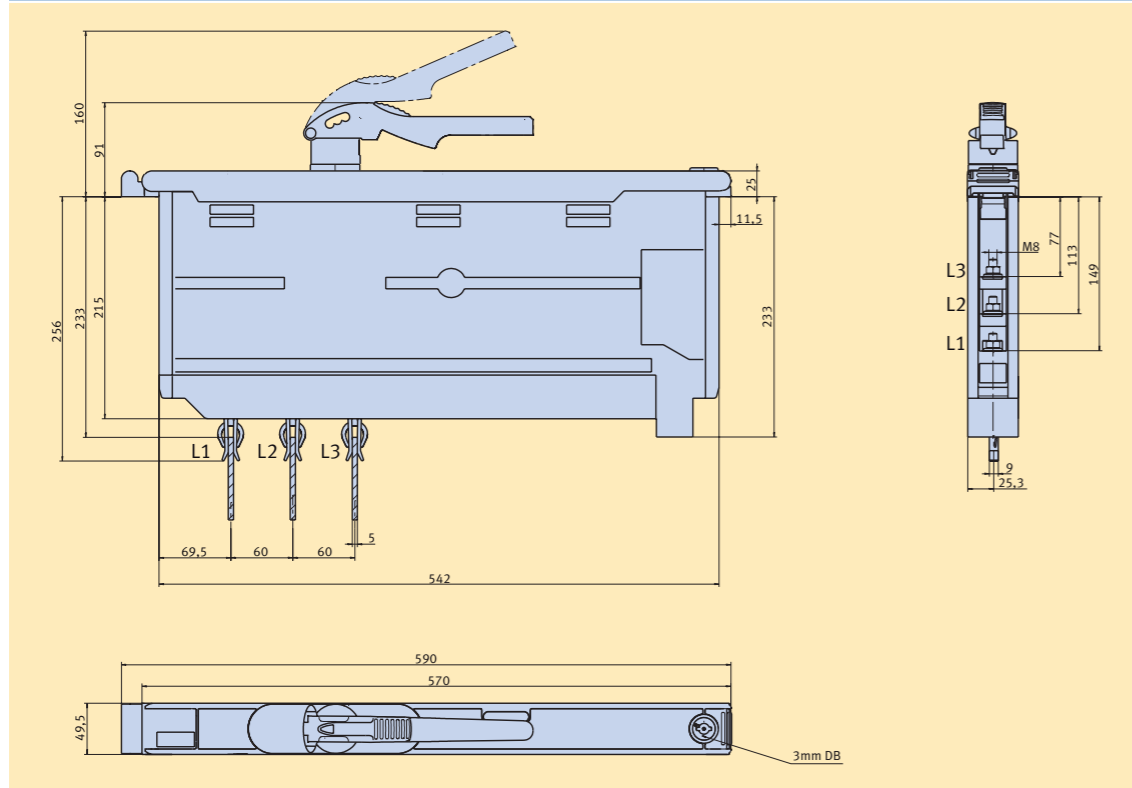
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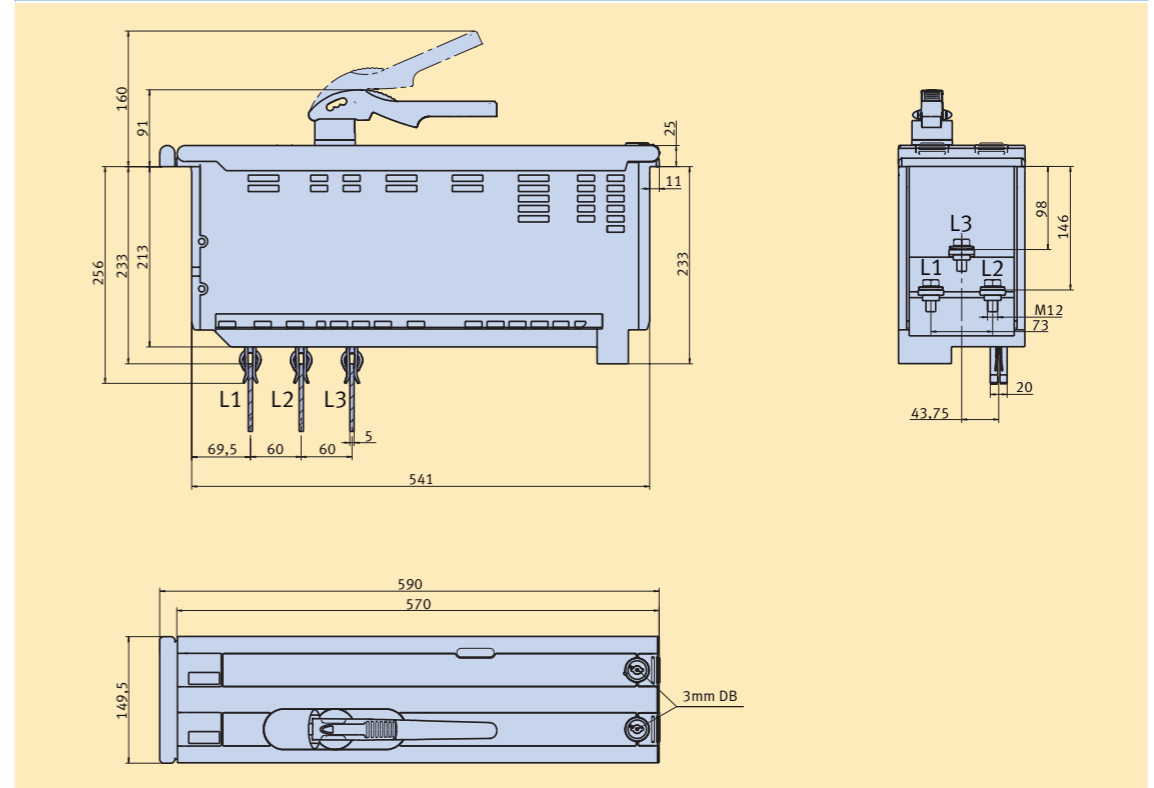
SASILplus – 尺寸

SASILplus – Dimensions

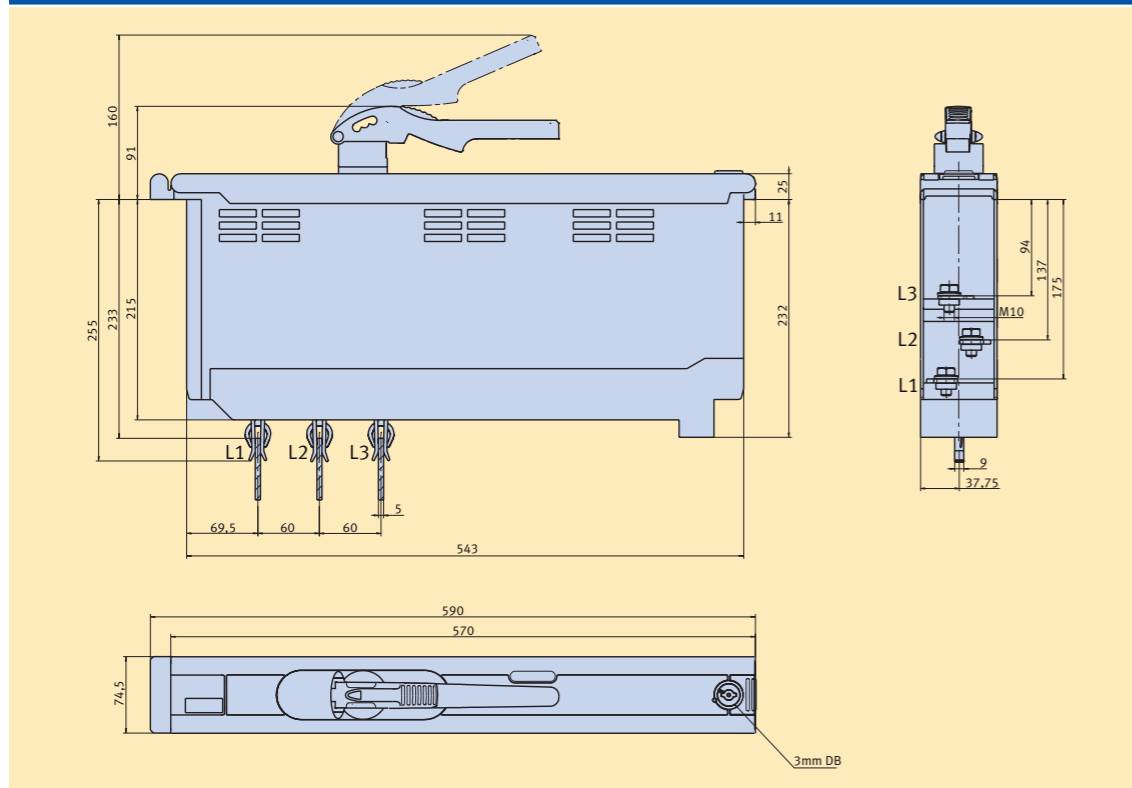
SASIL-PL00, 3 极, 右接线, 60mm 母线系统
SASIL-PL00, 3-pole, connection right, 60mm busbar system



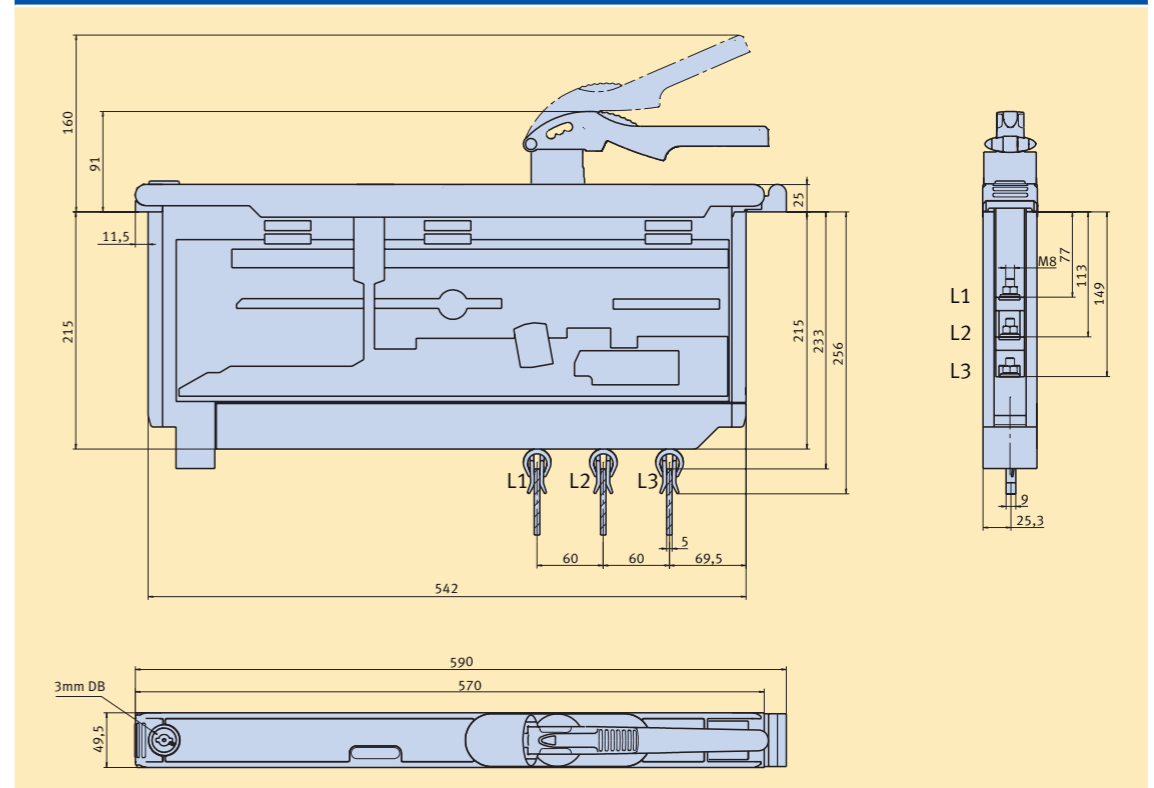
SASIL-PL2/3, 3 极, 右接线, 60mm 母线系统
SASIL-PL2/3, 3-pole, connection right, 60mm busbar system



SASIL-PL1, 3 极, 右接线, 60mm 母线系统
SASIL-PL1, 3-pole, connection right, 60mm busbar system



SASIL-PL00, 3 极, 左接线, 60mm 母线系统
SASIL-PL00, 3-pole, connection links, 60mm busbar system



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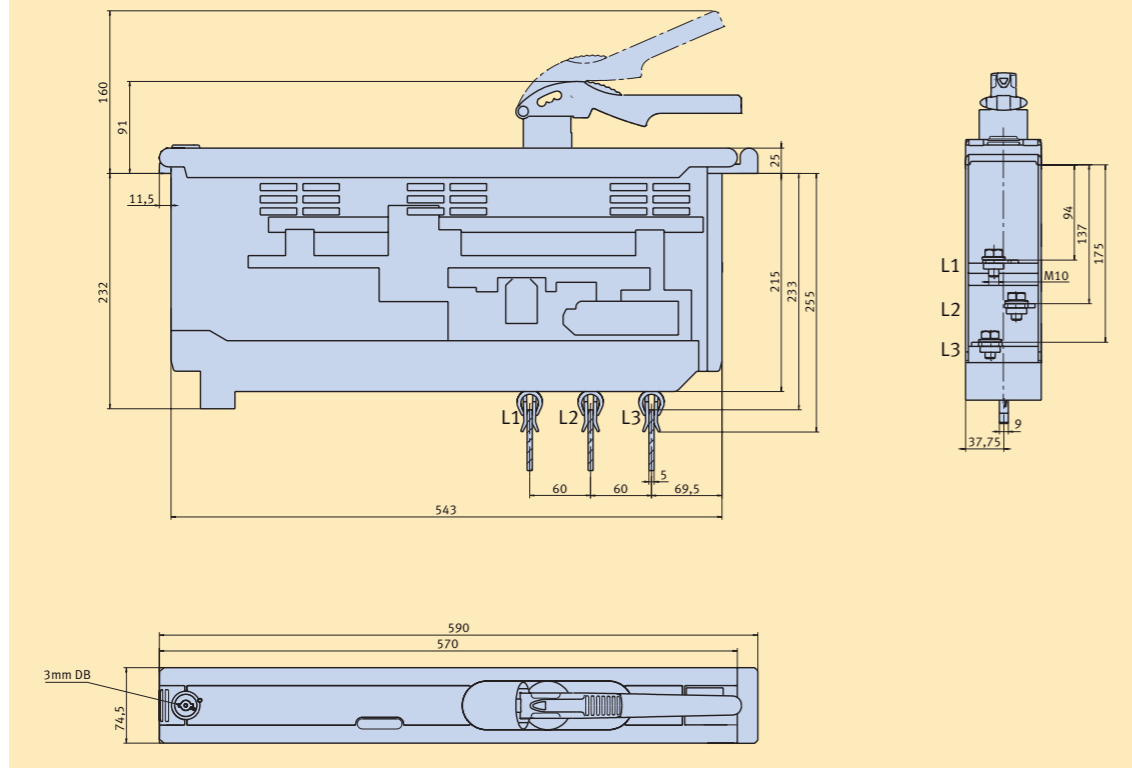
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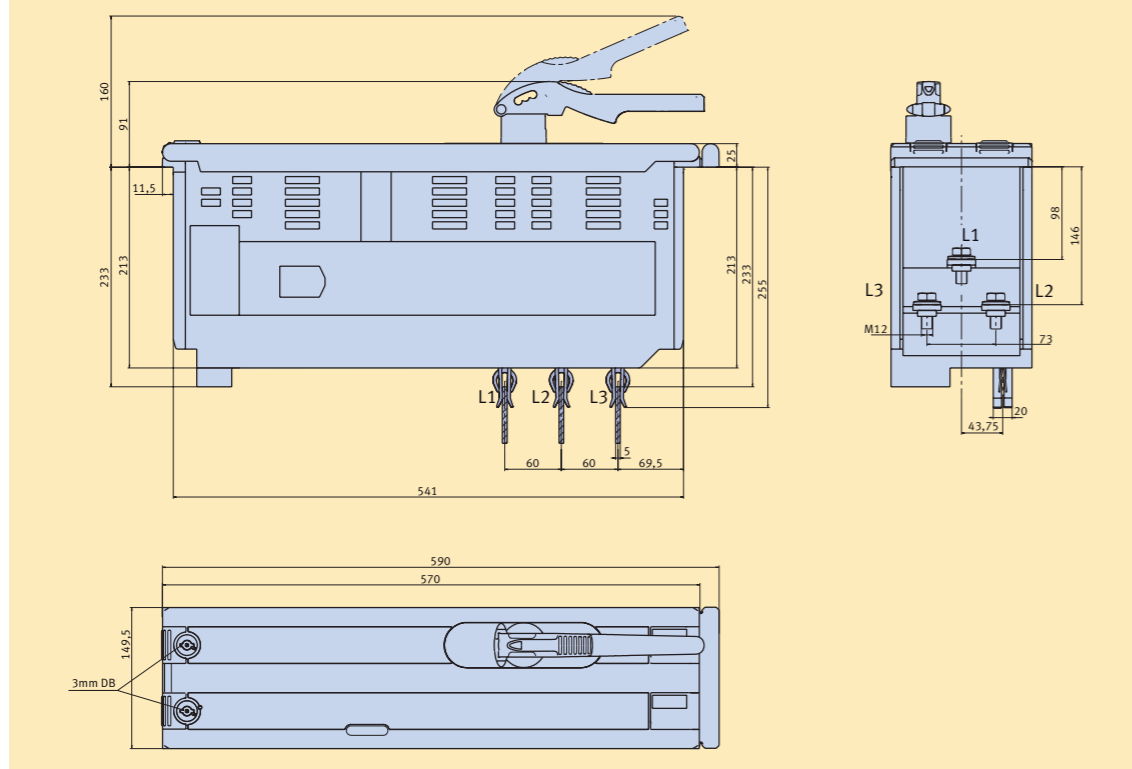
SASILplus – 尺寸

SASILplus – Dimensions

SASIL-PL1, 3 极, 左接线, 60mm 母线系统
SASIL-PL1, 3-pole, connection left, 60mm busbar system

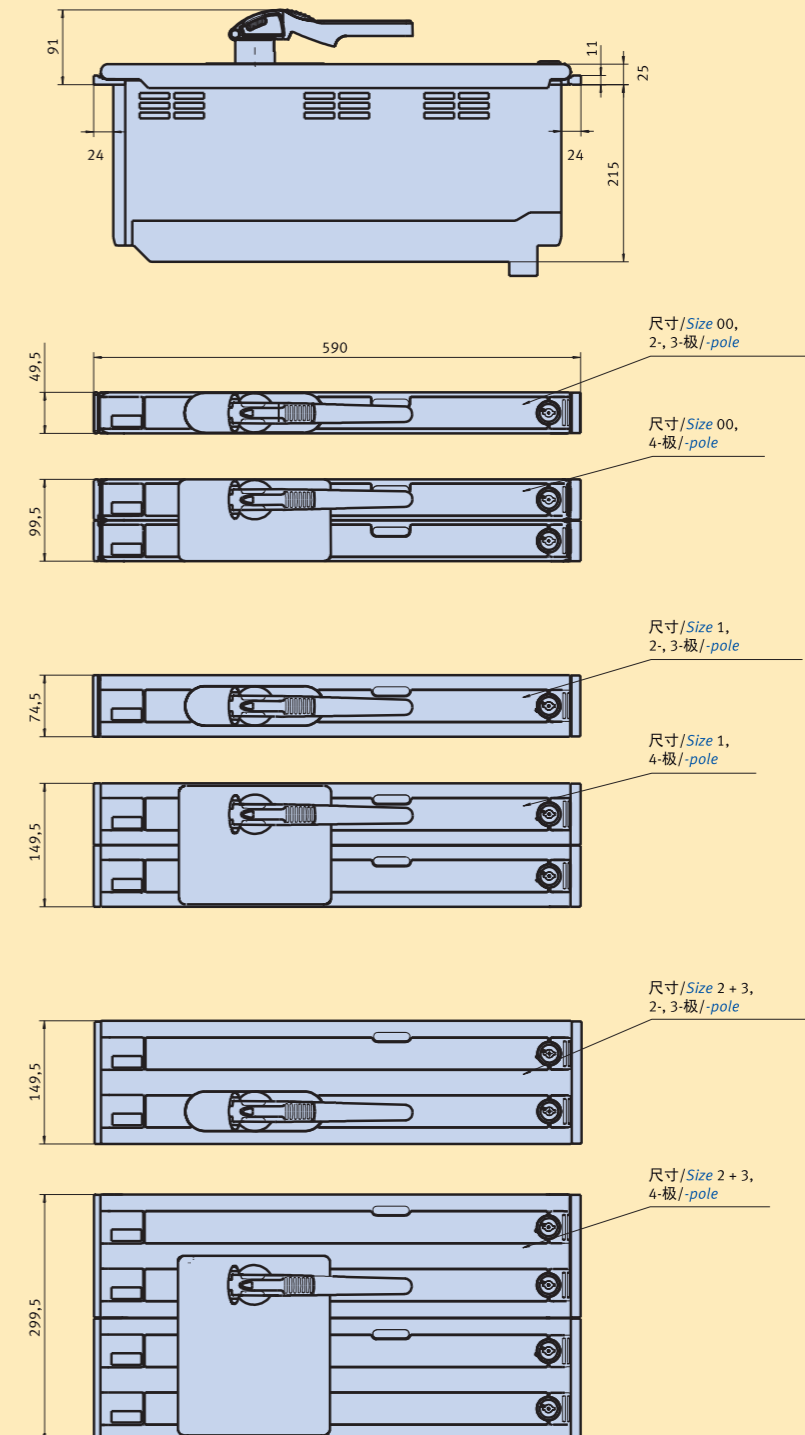


SASIL-PL2/3, 3 极, 左接线, 60mm 母线系统
SASIL-PL2/3, 3-pole, connection left, 60mm busbar system



对称版 SASILplus-PS 开关尺寸图
(符合所有对称安装的箱体)
Scale drawing for the symmetrical variant SASILplus-PS
(suitable for all cabinet systems of symmetrical installations)

开关前面的安装面罩符合对称系统, 其它外壳尺寸同标准版本。
The installation face in front of the strip area is matched on the symmetrical systems. All others envelope dimensions are like the standard version.



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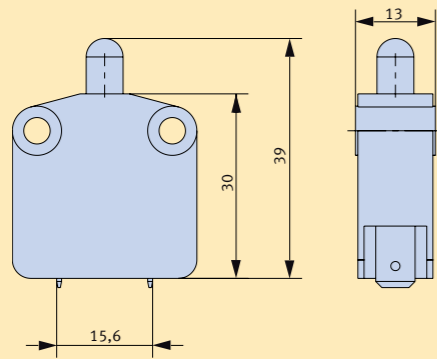
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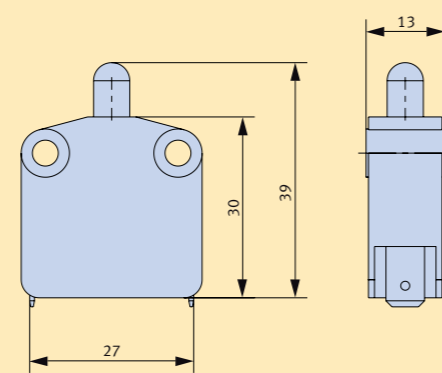
SASILplus – 尺寸

SASILplus – Dimensions

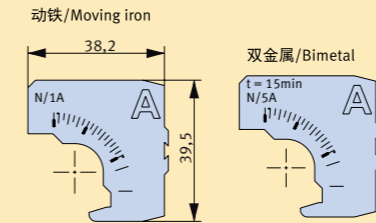
辅助触点 SASIL-P00-3, 常闭触点
Auxiliary switch SASIL-P00-3, break contact



辅助触点 SASIL-P00-3, 常开触点
Auxiliary switch SASIL-P00-3, make contact

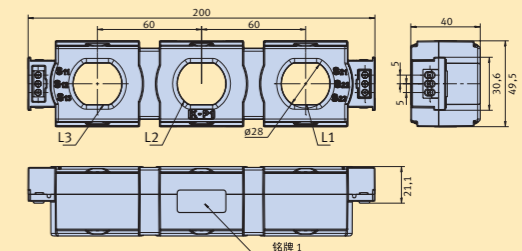


下接线的刻度盘
Dial gauge cable connection below

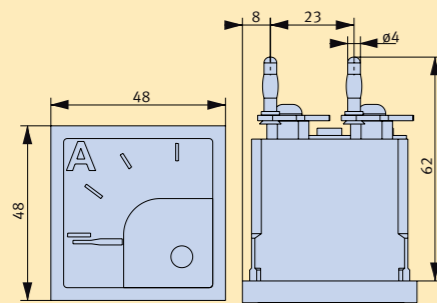


型号/Type	型号/Type	
比例 N/1A	动铁/Moving iron	0-600A
比例 N/5A	动铁/Moving iron	0-600A
比例 N/1A T=8min.	双金属/Bimetal	0-600A
比例 N/5A T=8min.	双金属/Bimetal	0-600A
比例 N/1A T=15min.	双金属/Bimetal	0-600A
比例 N/5A T=15min.	双金属/Bimetal	0-600A

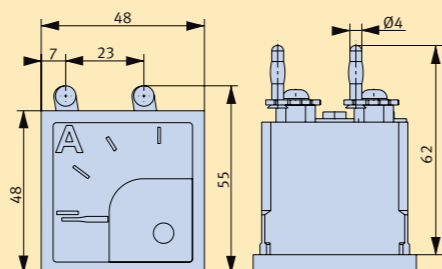
电流互感器 SASIL-P00-3, 60mm 母线系统
Current transformer SASIL-P00-3, 60mm busbar system



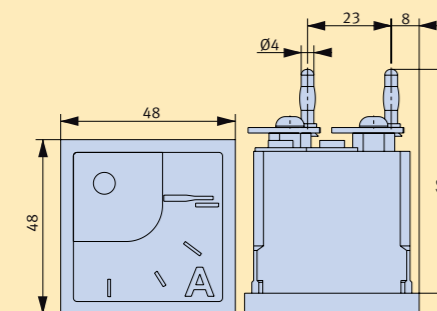
SASIL-P00 动铁式 / 双金属片式测量设备,
右侧或下侧接线
Moving-iron/bimetallic measuring devices for SASIL-P00,
cable connection right or from below



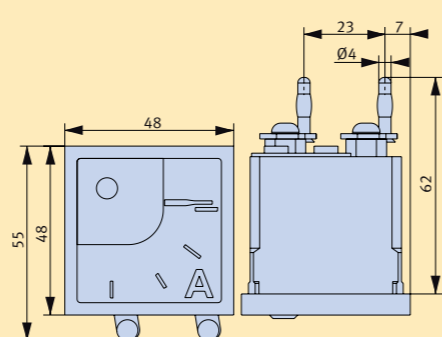
SASIL-P1-3 动铁式 / 双金属片式测量设备,
右侧或下侧接线
Moving-iron/bimetallic measuring devices for SASIL-P1-3,
cable connection right or from below



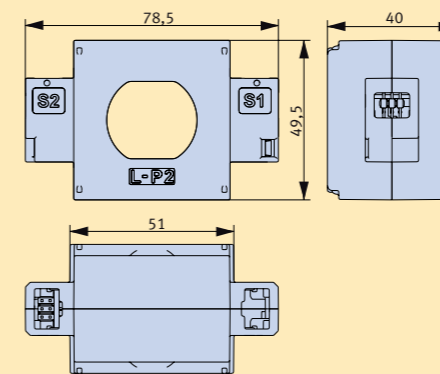
SASIL-P00 动铁式 / 双金属片式测量设备,
左侧或上侧接线
Moving-iron/bimetallic measuring devices for SASIL-P00,
cable connection left or from above



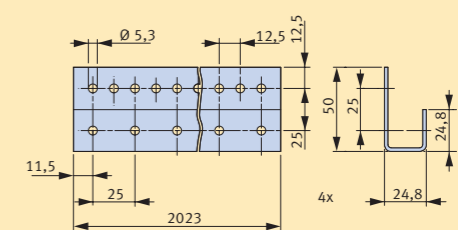
SASIL-P1-3 动铁式 / 双金属片式测量设备,
左侧或上侧接线
Moving-iron/bimetallic measuring devices for SASIL-P1-3,
cable connection left or from above



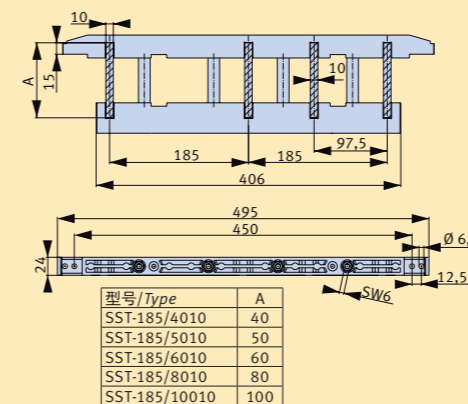
电流互感器 SASIL-P00-3, 185mm 母线系统
Current transformer SASIL-P00-3, 185mm busbar system



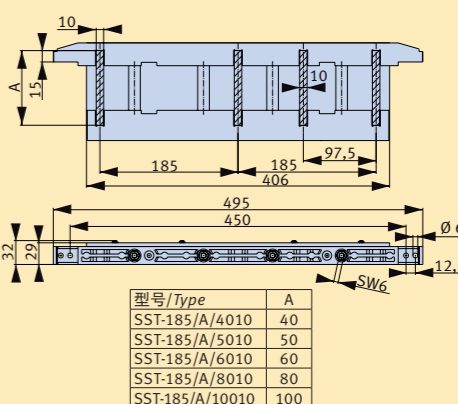
SSP/SASIL-P 导轨
SSP/SASIL-P Profilschiene



母线支架 SST,
185mm 母线系统不带盖板
Busbar support SST,
185mm busbar system without plate



母线支架 SST/185/A 带盖板
Busbar support SST/185/A with plate



标准产品
Standard devices

型号描述
Type designation

附件
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设备固定系统
Device fitting system

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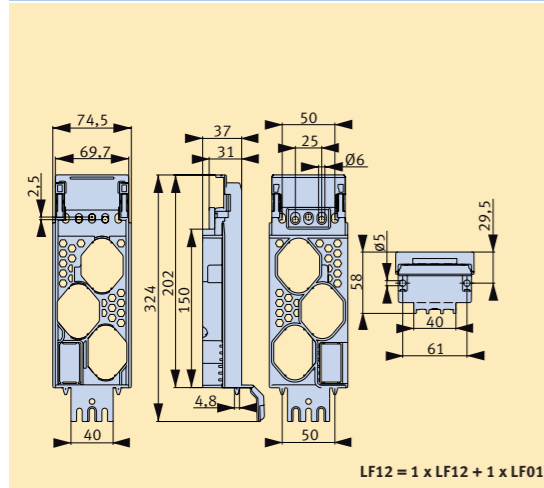
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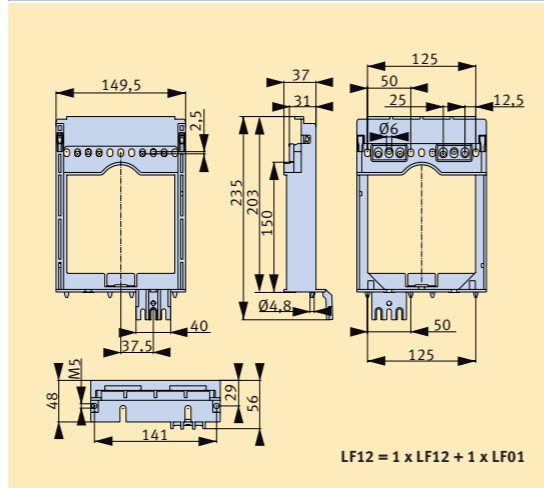
SASILplus – 尺寸

SASILplus – Dimensions

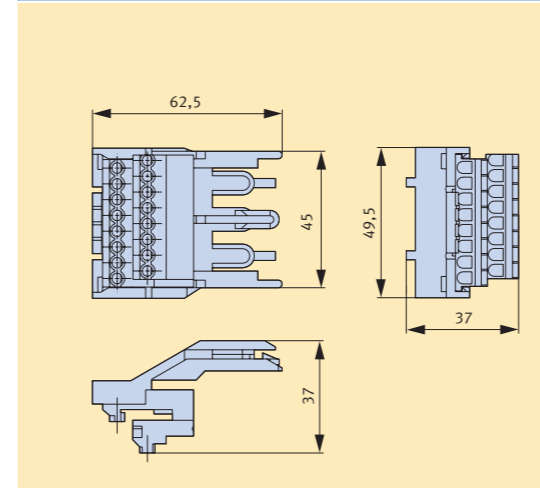
插槽用于 SASIL-P1 LF12
Strip guide for SASIL-P1 LF12



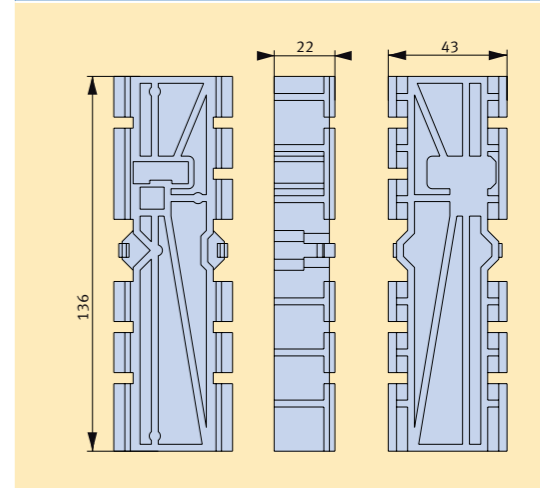
插槽用于 SASIL-P2/3 LF12
Strip guide for SASIL-P2/3 LF12



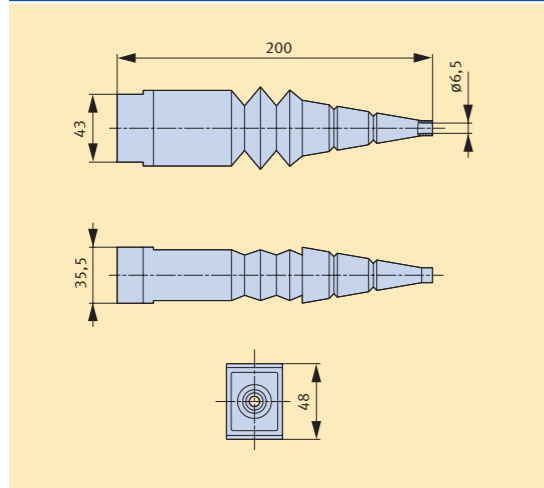
连接器 SASIL-P00-3 BL
Socket connector SASIL-P00-3 BL



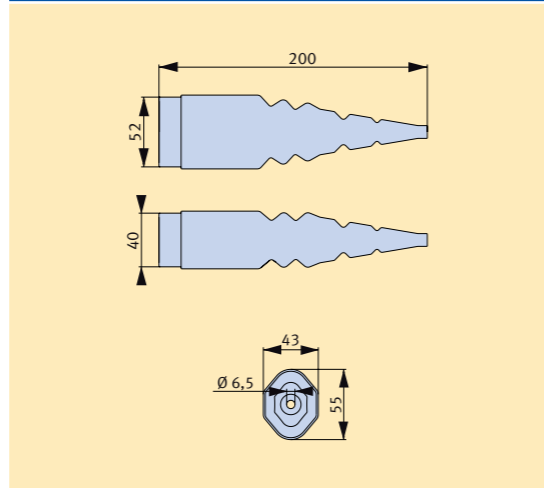
联锁装置 SASIL-P00 ESS
Switch-on lock SASIL-P00 ESS



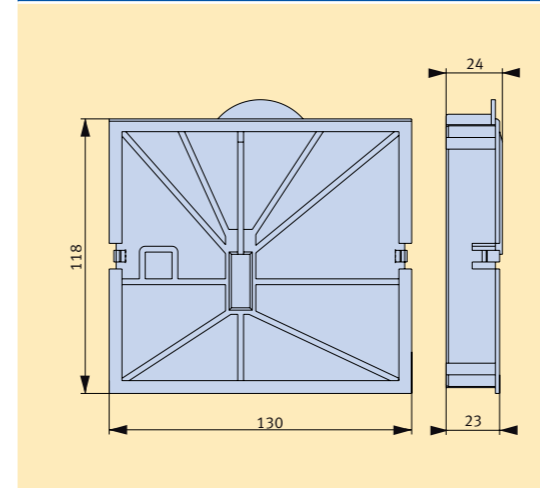
电缆绝缘套 SASIL-P00 KSH
Cable separator SASIL-P00 KSH



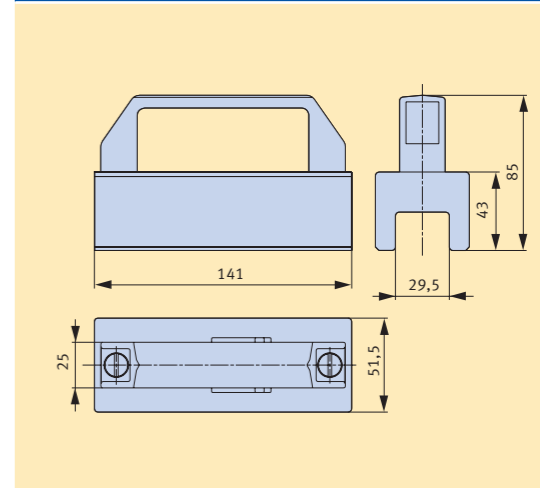
电缆绝缘套 SASIL-P1 KSH
Cable separator SASIL-P1 KSH



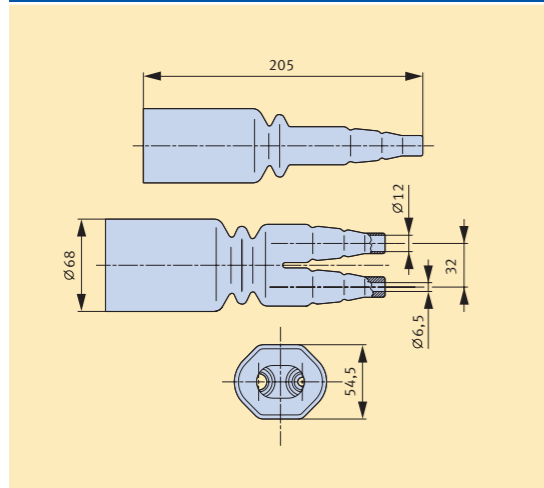
联锁装置 SASIL-P2/3 ESS
Switch-on lock SASIL-P2/3 ESS



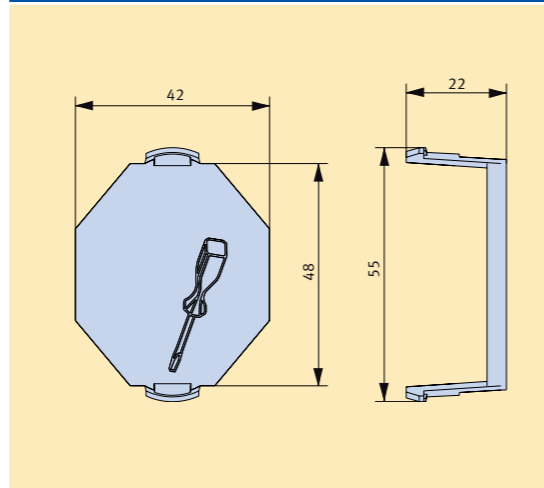
拆卸工具 SASIL-P00-3 AW
Drawing tool SASIL-P00-3 AW



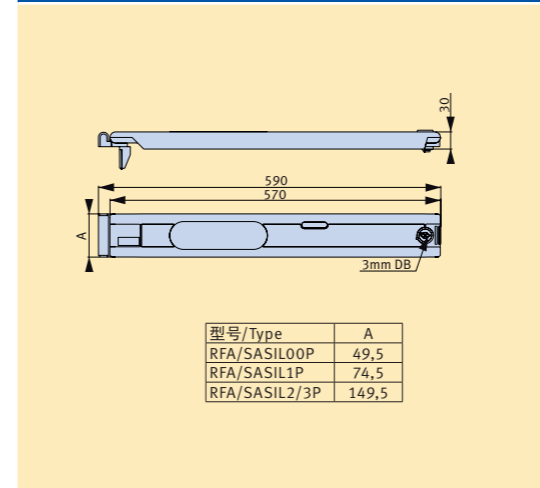
电缆绝缘套 SASIL-P2/3 KSH
Cable separator SASIL-P2/3 KSH



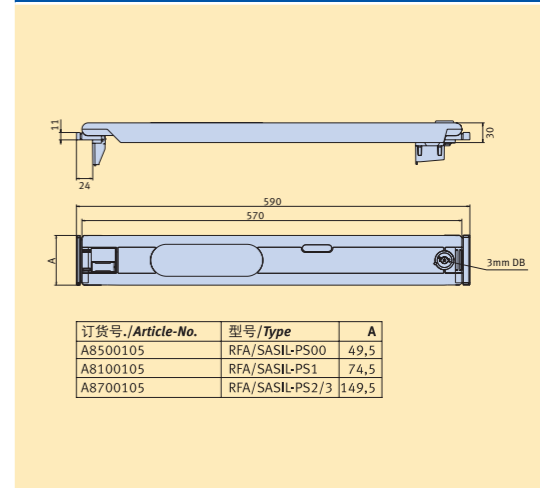
密封件 SASIL-P1 DGS
Reach-protection SASIL-P1 DGS



备用盖板 SASIL-PL00-3 RFA, 不对称的
Reserve panel cover SASIL-PL00-3 RFA, asymmetrical



备用盖板 SASIL-PS00-3 RFA, 对称的
Reserve panel cover SASIL-PS00-3 RFA, symmetrical



标准产品
Standard devices

型号描述
Type designation

附件
Accessories

设备固定系统
Device fitting system

技术数据
Technical data

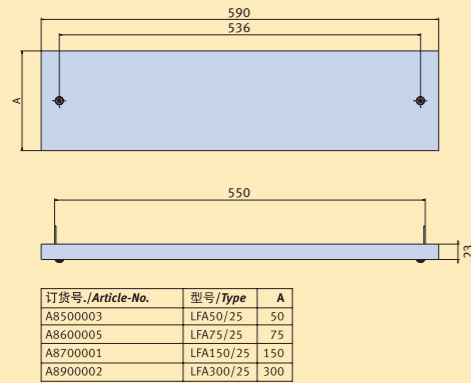
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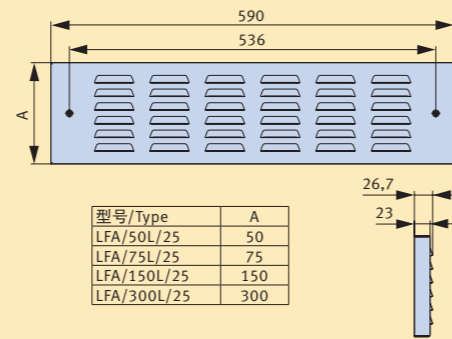
SASILplus – 尺寸

SASILplus – Dimensions

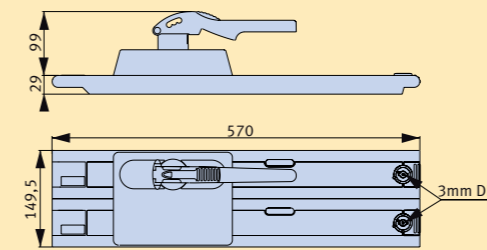
备用盖板, 不带透气孔
LFA50, LFA75, LFA150, LFA300
Reserve panel cover, without ventilation,
LFA50, LFA75, LFA150, LFA300



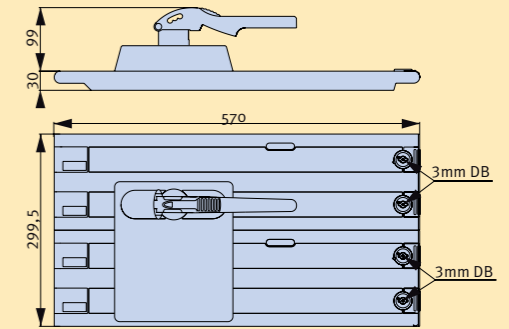
备用盖板, 带透气孔
LFA50L, LFA75L, LFA150L, LFA300L
Reserve panel cover, with ventilation,
LFA50L, LFA75L, LFA150L, LFA300L



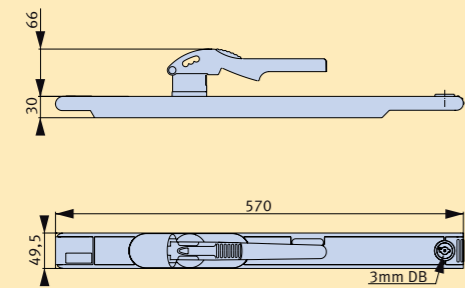
开关面罩 SASIL-P1 LD, 4-极
Strip cover SASIL-P1 LD, 4-pole



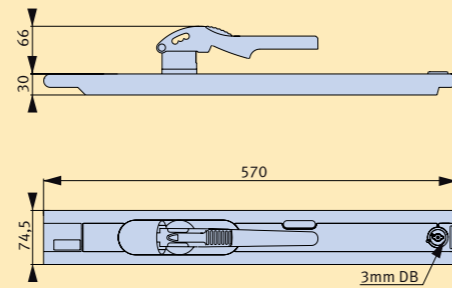
开关面罩 SASIL-P2/3 LD, 4-极, 双并开关
Strip cover SASIL-P2/3, 4-pole, double strip



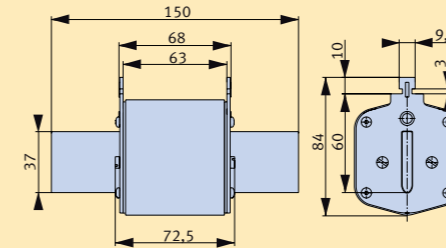
开关面罩 SASIL-P00 LD, 右侧接线
Strip cover SASIL-P00 LD, connection right



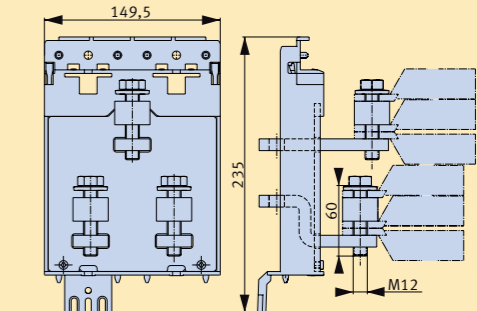
开关面罩 SASIL-P1 LD, 右侧接线
Strip cover SASIL-P1 LD, connection right



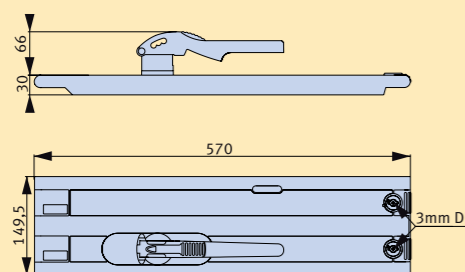
NH-熔断器 M3GL630/32W
NH fuse-link M3GL630/32W



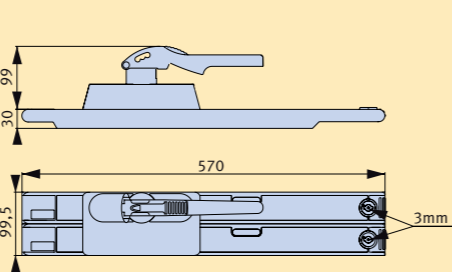
3 线连接开关 SASIL-P2/3 DA-185
Triple connection of for SASIL-P2/3 double strip



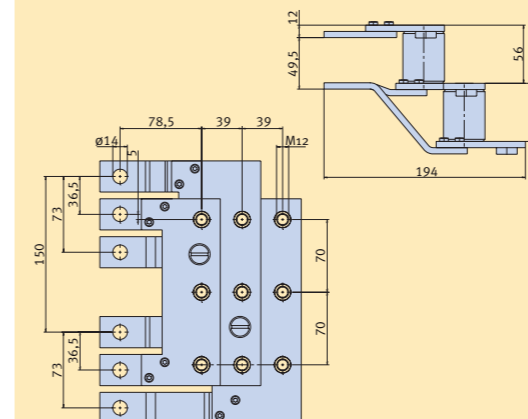
开关面罩 SASIL-P2/3 LD, 右侧接线
Strip cover SASIL-P2/3 LD, connection right



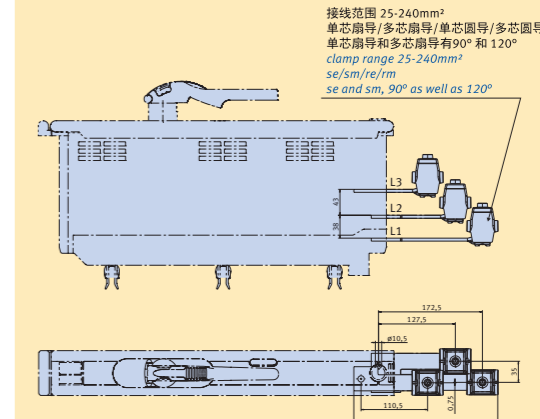
开关面罩 SASIL-P00 LD, 4-极
Strip cover SASIL-P00 LD, 4-pole



接线桥套件, 双并开关 SASIL-P3
Busbar connection kit for SASIL-P3 double strip/1000A



直接连线端子 SASIL-P1
Direkt terminal clamps for SASIL-P1



标准产品
Standard devices

型号描述
Type designation

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设备固定系统
Device fitting system

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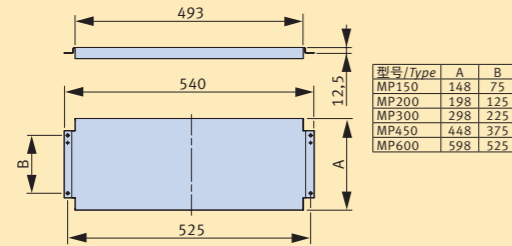
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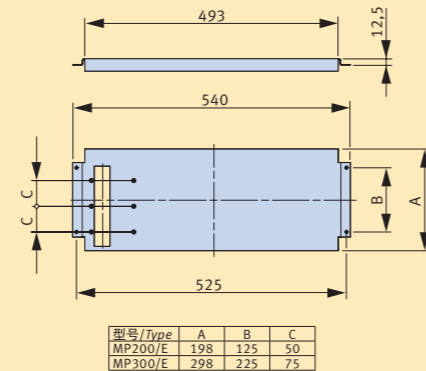
SASILplus – 尺寸

SASILplus – Dimensions

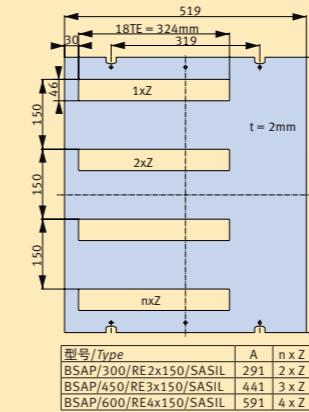
安装板 MP 150, 200, 300, 450, 600
Mounting plate MP 150, 200, 300, 450, 600



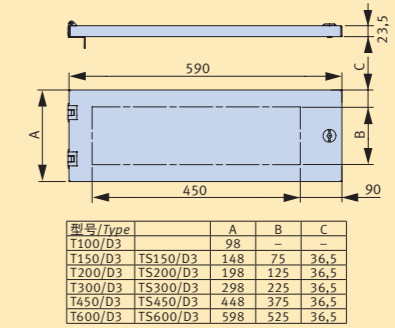
可安装弹性母排触指的安装板 MP 200E, 300E
Mounting plate prepared for voltage tap MP 200E, 300E



模块化安装模块的盖板
BSAP 300, 450, 600
Cover plate for modular installation devices
BSAP 300, 450, 600

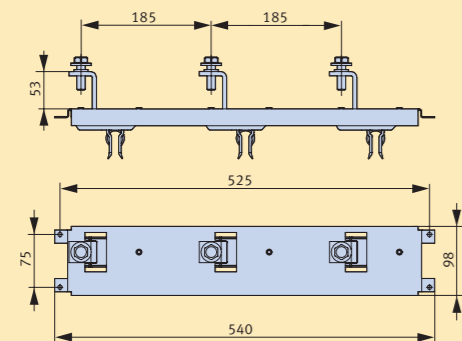


门带 / 不带可视窗
TS/T 150, 200, 300, 450, 600
Door with/without inspection window
TS/T 150, 200, 300, 450, 600

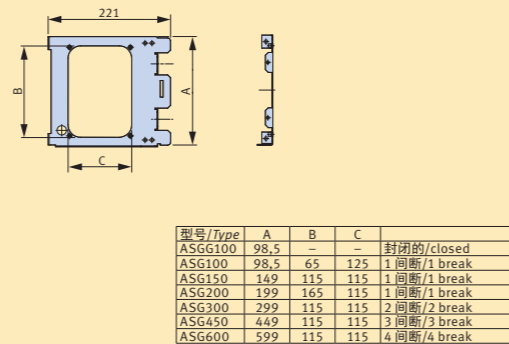


标准产品
Standard devices

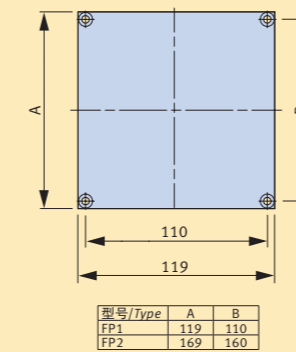
供电模块 EM100/E
Supply module EM100/E



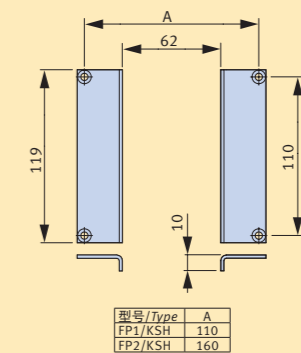
电缆室隔板
ASG 150, 200, 300, 450, 600
Separation of cable compartment
ASG 150, 200, 300, 450, 600



法兰板 FP
Flange plate FP



用于电缆室隔板的法兰支架 FP KSH
Flange angle for cable covers FP KSH

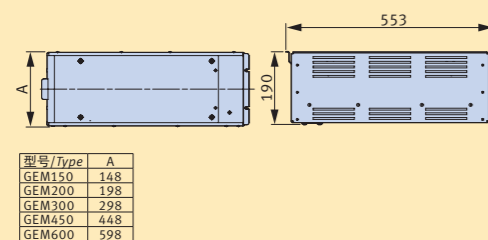


型号描述
Type designation

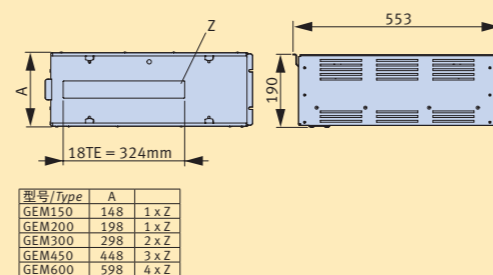
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设备固定系统
Device fitting system

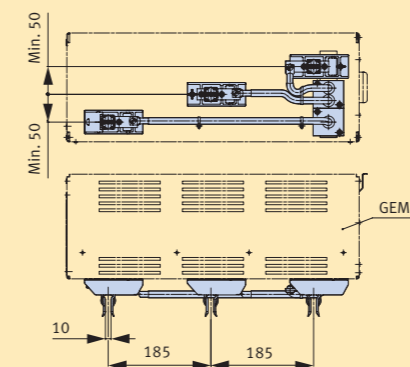
设备安装模块
GEM 150, 200, 300, 450, 600
Device mounting module
GEM 150, 200, 300, 450, 600



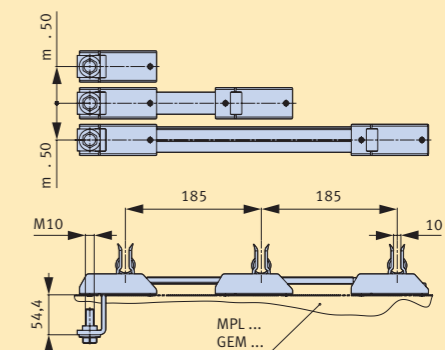
模块化设备安装模块
GEM 150, 200, 300, 450, 600
Device mounting module for modular installation
GEM 150, 200, 300, 450, 600



弹性母排触指组件 BSE 100A
Feeding kit BSE 100A



弹性母排触指组件 BSE 630A
Feeding kit BSE 630A



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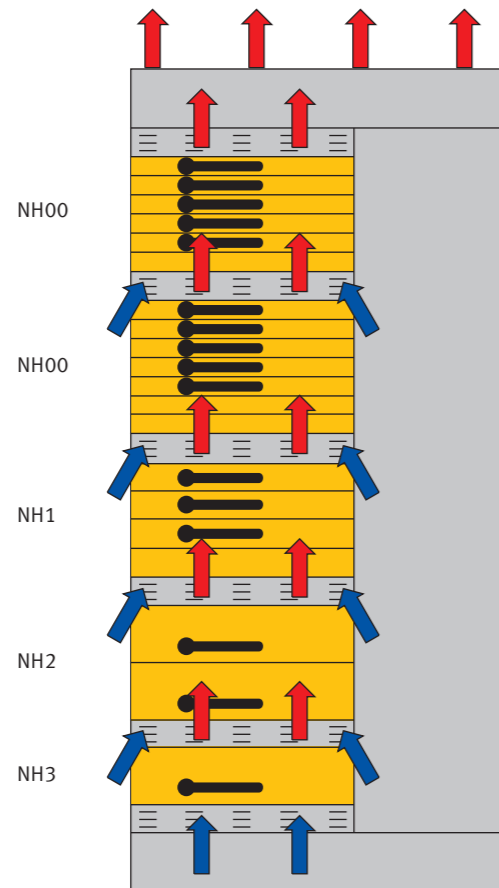
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基于经验及相关标准推荐	Z-4	Recommendation based on experience and relevant standards	Z-4	
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用于互感器的铜电缆的内部损耗	Z-16	Internal consumption of copper cables for CT applications	Z-16	
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标准变压器标称短路电流	Z-24	Nominal and short-circuit current of standard transformers	Z-24	
联系方式	Z-25	Contactaddresses	Z-25	

SASILplus 基本应用规则 Essential project planning rules for SASILplus

- 按控制柜的高度均匀分布!
- 在底部安装大尺寸, 顶部安装小尺寸!
- 尺寸 NH00-2 每组高度 300 毫米处, 至少有一个 75mm 大小的通风区域!
- 每个 NH3 尺寸顶部和底部留一个通风区域!
- 柜内无需水平隔板!
- 柜体内所有位置都可以留作备用空间!
- 允许短时 (15-30 分钟) 名义电流运行。注意在持续负载时的额定差异系数!
- 可以提供柜顶通风 (至少 IP30)!
- 母排支架位置
 - 高于或低于尺寸 00 的开关
 - 位于尺寸 1 开关之间
 - 位于尺寸 2 或尺寸 3 之间或中下部
- 母排支架中间距离需是 150 毫米的倍数 (如果需要额外的母排支架)! 避免母线盖板安装时的麻烦。

- Distribute the strips evenly over the control cabinet height
- Arrange the large sizes on bottom, the small ones on the top.
- Group the NH00-2 sizes in blocks of 300mm, then at least 1 ventilation field of 75mm!
- 1 ventilation field at the top and bottom for each NH3 size!
- No horizontal partitioning in the equipment room!
- Distribute vacant spaces over the entire height of the control cabinet!
- Short-time (15-30min) stressing with full nominal current is possible. Mind the rated diversity factor during continuous loading!
- Provide roof ventilation if possible (min. IP30)!
- Arrangement of the busbar support
 - Above or below the strip for size 00.
 - Between the strips for size 1.
 - Between or in the rear centre of the strip for sizes 2 and 3.
- Centre of the busbar support has to be divided by 150mm (additional SST if required)! Important for trouble-free installation of the busbar covers.

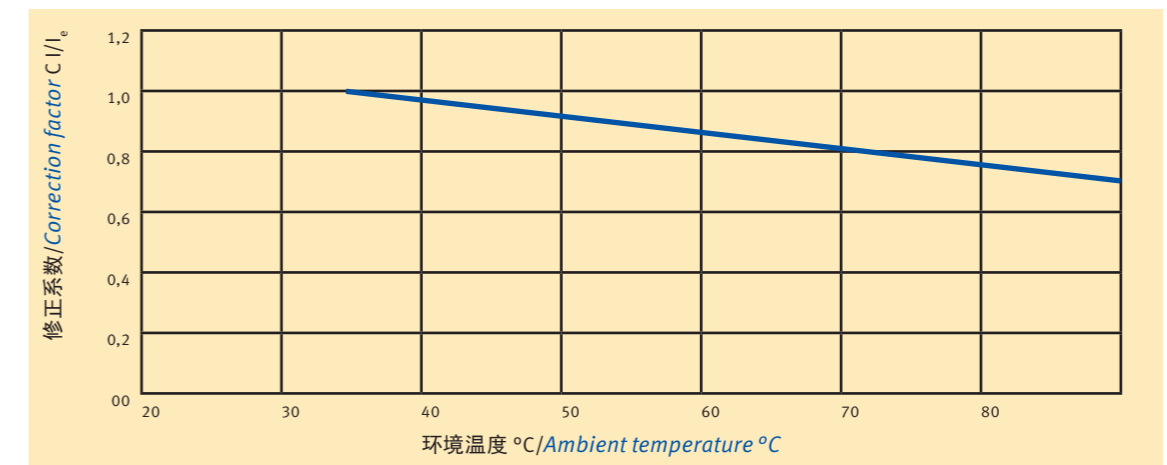


设备及系统降容应用 Reduction of rated currents of devices and systems

基于经验和相关标准推荐
Recommendation based on experience and relevant standards

- 环境温度对降容的影响 / Current reduction by raised ambient temperature
- 散热时的降容 (温度差异) / Reduction of heat dissipation (lower difference in temperature)
- 开关设备及电柜的平均值 / Average values of switching devices and switchgear facilities

环境温度对低压高分断熔断器隔离开关的影响 Influence of ambient temperature on rated current of NH switching devices



- 海拔 >2000m 时对降容的影响 / Current reduction at altitudes >2000m
- 散热时的降容 / Reduction of heat dissipation
- 开关设备和电柜的平均值 / Average values of switching devices and switchgear

海拔超过 NN/Altitudes over NN			
2000m	3000m	4000m	5000m
1	0.95	0.9	0.85

防护等级 (IP) 增加对降容的影响 / Current reduction at increased type of protection (IP)
由于随着箱体防护等级升高, 散热能力相应减少, 系统集成商需要给电流定义一个降容系数。这个降容系数保证了必须的散热。

The system-installer has to define a reduction factor for the current, due to the reduced heat dissipation at increased degree of protection of the enclosure. The reduction factor ensures the necessary heat dissipation.

垂直安装方式的额定分散系数, 参考 IEC/EN 61439-2:2012-06 Rated diversity factor for vertical installation in according with IEC/EN 61439-2:2012-06

主回路数量 No. of main circuits	额定分散系数 Rated diversity factor
2 和 /and 3	0.9
4 和 /and 5	0.8
6 至 /up to 9 (包含 /inclusive)	0.7
10 及以上 /and more	0.6

垂直安装: 水平安装系数 x 0.7
Vertical installation: Horizontally Installation Factor x 0.7

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低压开关设备和控制设备的集成 IEC/EN 61439-1:2012-06

Low voltage switchgear and controlgear assemblies in according with IEC/EN 61439-1:2012-06

设备部件 Assembly components	温升单位 [K] Temperature-rise limit [K]
内装元件 <i>Built-in equipment</i> · 常用开关元件 <i>Conventional switchgear</i> · 电子部件 <i>Electronic modules</i> · 设备的部件 <i>Equipment components</i>	根据不同的元件的相关要求，或根据生产厂商提供的技术说明，考虑其温升 <i>In accordance with the relevant standards, if such standards exist, or in accordance with the manufacturer's specifications taking into account the internal temperature of the assembly</i>
用于连接外部绝缘导线的端子 <i>Connections for insulated conductors introduced from the outside</i>	70
· 母线 <i>Busbars</i> · 导线 <i>Conductors</i> · 可移动式部件插接式触点 <i>Plug-in contacts of removable parts</i>	受下述条件限制 /Limiting factors: · 导电材料的机械强度 <i>Mechanical strength of the conductor materials</i> · 对相邻设备的可能影响 <i>Potential influence on neighbouring equipment</i> · 与导体接触的绝缘材料的允许温升极限 <i>Permissible temperature-rise limit of the insulating material touched by the conductor</i> · 导体温度对与其相连的电器元件的影响 <i>Effects of the conductor temperature on connected devices</i> · 插接式触点的接触材料性质及其表面加工处理 <i>Type and surface of the contact material for plug-in contacts</i>

设备部件 Accessible part	温升单位 [K] Temperature-rise limit [K]
操作手柄 /Actuators which are accessible from the outside	
金属的 /Metallic	15
绝缘材料 /Insulating material	25

可接近的外壳和覆板

External surfaces of cases or covers which are accessible from the outside

金属的 /Metallic	30
绝缘材料 /Insulating material	40

可接近的外壳和覆板，在一般操作时不会接触

External surfaces of cases or covers which are accessible from the outside but need not be touched during normal operation

金属的 /Metallic	40
绝缘材料 /Insulating material	50
插接式插座 /Connector	由组成设备的元器件的温升极限而定 /Limiting factors are the values for the equipment of which they form part.

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环境温度对熔断器性能的影响 DIN EN 60269-1 (附录 D)

Influence of ambient temperature on function of fuse-links according to IEC 60269-1 (Annex D)

D.1 环境温度增加后的影响

D.1.1 额定电流

熔断器在满载环境平均温度如下表 3.1, 所示, 额定电流值需考虑降容使用。

降容系数需考虑厂家所提供的所有情形。

D.1.2 环境温度升高

平均环境温度升高导致局部温度升高

(...)

D.2 环境温度降低对产品产生的影响

环境温度降到表 3.1 所示值之下时, 将导致约定熔断电流增加, 约定不熔断电流和弧前时间都将发生变化。幅度将取决于熔断器在设计之时实际工作温度, 此种情形需向厂家咨询相关细节。

D.3 安装的影响

不同安装情形产生的影响

- 安装在箱内或裸露安装
- 安装表面的特性
- 箱内安装的熔断器数量
- 导线截面和绝缘端子情况也需予以考虑

D.1 Effect of increase of ambient temperature

D.1.1 On current rating

For fuse-links that operate at full load for long periods in an average ambient temperature above the value given in 3.1, a reduction of the current rating may be required.

The derating factor should be as agreed by the manufacturer and the user after taking into account all the circumstances.

D.1.2 On temperature rise

An increase in average ambient temperature causes a relatively small increase in temperature rise.

(...)

D.2 Effect of decrease of ambient air temperature

A decrease in ambient air temperature below the value given in 3.1 may permit an increase in current rating but it may also cause an increase in the conventional fusing current, conventional nonfusing current and pre-arcing times for smaller over-currents. The magnitude of the relevant increases will be dependent upon the actual temperature and on the design of the fuse-link. In this case the manufacturer should always be consulted.

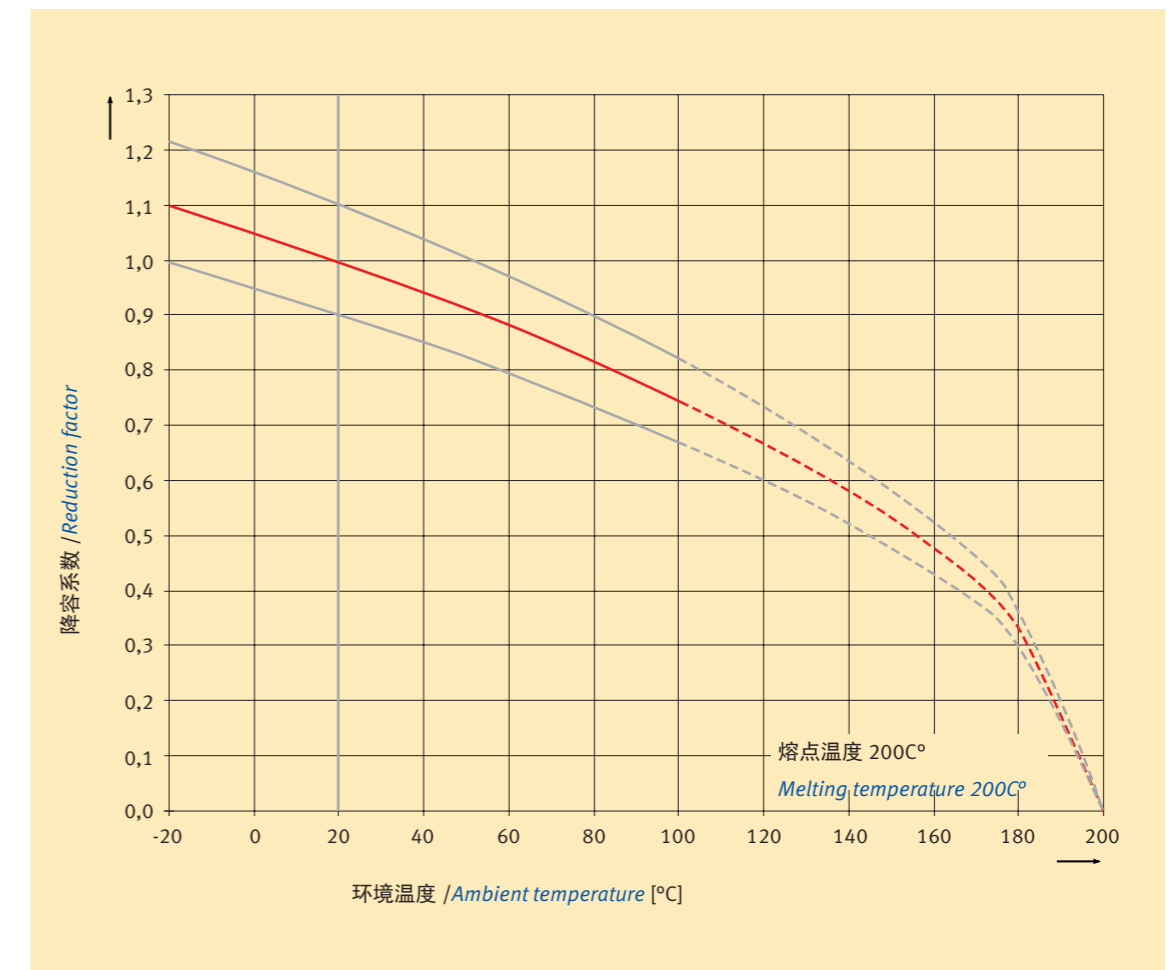
D.3 Effect of installation conditions

Different installation conditions, such as:

- enclosure in a box or mounting in the open;
- the nature of the mounting surface;
- the number of fuses mounted in a box;
- the cross-section and insulation of connections; can affect the operating conditions and should be taken into account.

环境温度对 gG 熔断器额定电流值的影响

Influence of ambient temperature on rated current of NH fuse-links utilization category gG



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使用类别 / Utilization categories

熔断器组合开关使用类别 参考 IEC/EN 60947-3:2012-12 及 VDE 0660 107 部分
Fuse combination units in accordance with IEC/EN 60947-3:2012-12 and VDE 0660 Part 107

交流 / Alternate current (AC)

使用类别 Utilization category	典型用途 Typical applications	电气寿命 Verification of electrical endurance						接通分断能力 Verification of making and breaking capacities							
		接通 Make			分断 Break			接通 Make			分断 Break				
		I _e [A]	I I _e	U U _e	cos φ	I _c I _e	U _r U _e	cos φ	I _e [A]	I I _e	U U _e	cos φ	I _c I _e	U _r U _e	cos φ
AC-20A(B) ¹⁾	在空载条件下闭合和断开 <i>Connecting and disconnecting under no-load conditions</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AC-21A(B) ¹⁾	通断电阻性负载, 包括适当的过负载 <i>Switching of resistive loads, including slight overloads</i>	3)	1	1	0,95	1	1	0,95	3)	1,5	1,05	0,95	1,5	1,05	0,95
AC-22A(B) ¹⁾	通断电阻和电感混合负载, 包括适当的过负载 <i>Switching of mixed resistive and inductive loads, including slight overloads</i>	3)	1	1	0,8	1	1	0,8	3)	3	1,05	0,65	3	1,05	0,65
AC-23A(B) ¹⁾	通断电动机负载和其他高电感负载 <i>Switching of motor loads and other highly inductive loads</i>	3)	1	1	0,65	1	1	0,65	4)	10	1,05	0,45	8	1,05	0,45
									5)	10	1,05	0,35	8	1,05	0,35

I 接通电流 / Making current
I_c 分断电流 / Breaking current
I_e 额定工作电流
Rated operational current
U 外施电压 / Voltage
U_e 额定工作电压
Rated operational voltage

1) A: 经常操作, B: 偶尔操作
A: Frequent actuation, B: Occasional actuation
2) 如开关设备具有接通或分断能力值, 则该数据对应的电流及功率因数 (时间常数) 值须有生产厂商提供
If the switching device has a making and/or breaking capacity, the values for the current and the power factor (time constants) must be stated by the manufacturer.
3) 全部值 / All values
4) I_e < 100 A
5) I_e > 100 A

直流 / Direct current (DC)

使用类别 Utilization category	典型用途 Typical applications	电气寿命 Verification of electrical endurance						接通分断能力 Verification of making and breaking capacities							
		接通 Make			分断 Break			接通 Make			分断 Break				
		I _e [A]	I I _e	U U _e	L/R [ms]	I _c I _e	U _r U _e	L/R [ms]	I _e [A]	I I _e	U U _e	L/R [ms]	I _c I _e	U _r U _e	L/R ms
DC-20A(B) ¹⁾	在空载条件下闭合和断开 <i>Connecting and disconnecting under no-load conditions</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-21A(B) ¹⁾	通断电阻性负载, 包括适当的过负载 <i>Switching of resistive loads, including slight overloads</i>	3)	1	1	1	1	1	1	3)	1,5	1,05	1	1,5	1,05	1
DC-22A(B) ¹⁾	通断电阻和电感混合负载, 包括适当的过负载 <i>Switching of mixed resistive and inductive loads, including overloads (e.g. shunt motors)</i>	3)	1	1	2	1	1	2	3)	4	1,05	2,5	4	1,05	2,5
DC-23A(B) ¹⁾	通断高电感负载 (如串激电动机) <i>Switching of highly inductive loads (e.g. series motors)</i>	3)	1	1	7,5	1	1	7,5	3)	4	1,05	15	4	1,05	15

I 接通电流 / Making current
I_c 分断电流 / Breaking current
I_e 额定工作电流
Rated operational current
U 外施电压 / Voltage
U_e 额定工作电压
Rated operational voltage

1) A: 经常操作, B: 偶尔操作
A: Frequent actuation, B: Occasional actuation
2) 如开关设备具有接通或分断能力值, 则该数据对应的电流及功率因数 (时间常数) 值须有生产厂商提供
If the switching device has a making and/or breaking capacity, the values for the current and the power factor (time constants) must be stated by the manufacturer.
3) 全部值 / All values
4) I_e < 100 A
5) I_e > 100 A

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低压电柜成套 *Low voltage assemblies*

成套设备内部的隔离 参考 IEC/EN 61439-1:2011-06

Compartmentalization of assemblies in accordance with IEC/EN 61439-1:2011-06

现代低压成套必须符合操作安全性和人员保护的要求

Modern low voltage assemblies must comply with operational safety and personnel protection requirements.

电控柜分成框架单元是为了:

- 高效率
- 内置的开关设备, 在操作条件下的可交换性, 例如系统需要加强
- 维护和测试所需停机时间短

The division of switchgear cabinets into separate function sections and their compartmentalization are prerequisites for:

- *High availability*
- *Exchangeability of the built-in switchgear under operational conditions, i. e. while the system is energized*
- *Short downtimes for maintenance and testing.*

一个电气控制柜按其功能可分为以下框架单元:

- 设备隔室
- 母线隔室 (主要的及现场配电母线系统)
- 电缆隔室

A switchgear cabinet is divided into the following function sections:

- *Device compartment*
- *Busbar compartment (Main and field distributor busbar system)*
- *Cable compartment*

防护等级 IP2X 或以上要求防止从一个功能单元的固体异物进入到相邻的单元。此外, IPXXB 防护类型或以上要求防止接触相邻单元的带电部件。

Type of protection IP2X or above is required to prevent the ingress of solid foreign bodies from a function unit into an adjacent unit. In addition, type of protection IPXXB or above is required to prevent contact with live parts of an adjacent unit.

如有区隔化的设计和比上述更高要求的保护, 必须得到制造商和用户的同意。

The compartmentalization design and higher protection than described above must be agreed between the manufacturer and the user.

用挡板或隔板实现成套设备内部的隔离 参考 IEC/EN 61439-2:2011-08

Compartmentalization by covers or barriers in accordance with IEC-EN 61439-2:2011-08

形式 <i>Design</i>	主要特征 <i>Main characteristic</i>	连接 <i>Connections</i>	符号 <i>Image</i>
1	无内部隔离 <i>No compartmentalization</i>	-	
2a	母线与功能单元隔离 <i>Compartmentalization between the busbars and function units</i>	端子不与母线分开 <i>External conductor connections not separated from the busbars</i>	
2b	母线与功能单元隔离 <i>Compartmentalization between the busbars and function units</i>	端子与母线分开 <i>External conductor connections separated from the busbars</i>	
3a	母线与功能单元隔离及功能单元之间互相隔离 <i>Compartmentalization between the busbars and function units and between the function units.</i>	端子不与母线分开 <i>External conductor connections not separated from the busbars</i>	
3b	端子与功能单元隔离, 但是不带端子间的隔离 <i>Compartmentalization of the external conductor connections and function units, but no compartmentalization between the conductor connections.</i>	端子与母线分开 <i>External conductor connections not separated from the busbars</i>	
4a	母线与功能单元隔离, 功能单元之间互相隔离, 也包括作为功能单元组成部分的外接导体端子 <i>Compartmentalization between the busbars and function units and between the function units including the external conductor connections which are an integral part of the function units.</i>	端子与相关的功能单元在同一隔室中 <i>External conductor connections in the same compartment as the corresponding function unit.</i>	
4b	母线与功能单元隔离, 功能单元之间互相隔离, 也包括作为功能单元组成部分的外接导体端子 <i>Compartmentalization between the busbars and function units and between the function units including the external conductor connections which are an integral part of the function units.</i>	端子与相关的功能单元不在同一隔室中 <i>External conductor connections not in the same compartment as the corresponding function units, but in a separate enclosed and protected section or compartment.</i>	

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铜排载流量及修正系数

Current carrying capacity busbars and correction factors

铝排 / Aluminium busbars

参照 DIN 43 670 标准, 电解铝排在室内使用条件下, 环境温度 35°C, 铝排温度 65°C

Continuous currents in accordance with DIN 43 670 for rectangular Al busbars used in indoor systems at 35°C air temperature and 65°C busbar temperature

可持续通过的电流, 单位 A/Continuous current in A										
宽度 x 厚度 Width x Thickness [mm]	截面积 Cross-section [mm ²]	重量 Weight ¹⁾ [kg/m]	交流, 最大频率 Alternate current up to 60Hz				直流, 最大频率 Direct current/Alternate current up to 16 ² /3Hz			
			有色铝排 Painted number of busbars		裸铝排 Blank number of busbars		有色铝排 Painted number of busbars		裸铝排 Blank number of busbars	
			I	II	I	II	I	II	I	II
12 x 2	23.5	0.0633	97	160	84	142	97	160	84	142
15 x 2	29.5	0.0795	118	190	100	166	118	190	100	166
15 x 3	44.5	0.120	148	252	126	222	148	252	126	222
20 x 2	39.5	0.107	150	240	127	206	150	240	127	206
20 x 3	59.5	0.161	188	312	159	272	188	312	159	272
20 x 5	99.1	0.268	254	446	214	392	254	446	214	392
20 x 10	199	0.538	393	730	331	643	393	733	331	646
25 x 3	74.5	0.201	228	372	190	322	228	372	191	322
25 x 5	124	0.335	305	526	255	460	305	528	255	460
30 x 3	89.5	0.242	267	432	222	372	268	432	222	372
30 x 5	149	0.403	356	606	295	526	356	608	296	528
30 x 10	299	0.808	536	956	445	832	538	964	447	839
40 x 3	119	0.323	346	550	285	470	346	552	285	470
40 x 5	199	0.538	456	763	376	658	457	766	376	662
40 x 10	399	1.08	677	1180	557	1030	682	1200	561	1040
50 x 5	249	0.673	556	916	455	786	558	924	456	794
50 x 10	499	1.35	815	1400	667	1210	824	1440	674	1250
60 x 5	299	0.808	655	1070	533	910	658	1080	536	924
60 x 10	599	1.62	951	1610	774	1390	966	1680	787	1450
80 x 5	399	1.08	851	1360	688	1150	858	1390	694	1180
80 x 10	799	2.16	1220	2000	983	1720	1250	2150	1010	1840
100 x 5	499	1.35	1050	1650	846	1390	1060	1710	858	1450
100 x 10	999	2.70	1480	2390	1190	2050	1540	2630	1240	2250
100 x 15	1500	4.04	1800	2910	1450	2500	1930	3380	1560	2900
120 x 10	1200	3.24	1730	2750	1390	2360	1830	3090	1460	2650
120 x 15	1800	4.86	2090	3320	1680	2850	2280	3950	1830	3390
160 x 10	1600	4.32	2220	3470	1780	2960	2380	4010	1900	3420
160 x 15	2400	6.47	2670	4140	2130	3540	2960	5090	2370	4360
200 x 10	2000	5.40	2710	4180	2160	3560	2960	4940	2350	4210
200 x 15	3000	8.09	3230	4950	2580	4230	3660	6250	2920	5350

I = 单根母排 / One busbar
II = 两根母排重叠放置 / Two busbars are mounted with a minimal distance behind the other

1) 重量通过密度 2,7kg/dm³ 计算得到
Weight calculated with a density of 2,7kg/dm³

铜排 / Copper busbars

参照 DIN 43 670 标准, 电解铜排在室内使用条件下, 环境温度 35°C, 铜排温度 65°C

Continuous currents in accordance with DIN 43 670 for rectangular Cu busbars used in indoor systems at 35°C air temperature and 65°C busbar temperature

可持续通过的电流, 单位 A/Continuous current in A										
宽度 x 厚度 Width x Thickness [mm]	截面积 Cross-section [mm ²]	重量 Weight ¹⁾ [kg/m]	交流, 最大频率 Alternate current up to 60Hz				直流, 最大频率 Direct current/Alternate current up to 16 ² /3Hz			
			有色铝排 Painted number of busbars		裸铝排 Blank number of busbars		有色铝排 Painted number of busbars		裸铝排 Blank number of busbars	
			I	II	I	II	I	II	I	II
12 x 2	23.5	0.209	123	202	108	182	123	202	108	182
15 x 2	29.5	0.262	148	2400	128	212	148	240	128	212
15 x 3	44.5	0.396	187	316	162	282	187	316	162	282
20 x 2	39.5	0.351	189	302	162	264	189	302	162	266
20 x 3	59.5	0.529	237	394	204	348	237	394	204	348
20 x 5	99.1	0.882	319	560	274	500	320	562	274	502
20 x 10	199	1.77	497	924	427	825	499	932	428	832
25 x 3	74.5	0.663	287	470	345	412	287	470	245	414
25 x 5	124	1.11	384	662	327	586	384	664	327	590
30 x 3	89.5	0.796	337	544	285	476	337	546	286	478
30 x 5	149	1.33	447	760	379	672	448	766	380	676
30 x 10	299	2.66	676	1200	573	1060	683	1230	579	1080
40 x 3	119	1.06	435	692	366	600	436	696	367	604
40 x 5	199	1.77	573	952	482	836	576	966	484	878
40 x 10	399	3.55	850	1470	715	1290	865	1530	728	1350
50 x 5	249	2.22	697	1140	583	994	703	1170	588	1020
50 x 10	499	4.44	1020	1720	852	1510	1050	1830	875	1610
60 x 5	299	2.66	826	1330	688	1150	836	1370	696	1190
60 x 10	599	5.33	1180	1960	985	1720	1230	2130	1020	1870
80 x 5	399	3.55	1070	1680	885	1450	1090	1770	902	1530
80 x 10	799	7.11	1500	2410	1240	2110	1590	2730	1310	2380
100 x 5	499	4.44	1300	2010	1080	1730	1340	2160	1110	1810
100 x 10	999	8.89	1810	2850	1490	2480	1940	3310	1600	2890
120 x 10	1200	10.7	2110	3280	1740	2860	2300	3900	1890	3390
160 x 10	1600	14.2	2700	4130	2220	3590	3010	5060	2470	4400
200 x 10	2000	17.8	3290	4970	2690	4310	3720	6220	3040	5390

I = 单根母排 / One busbar
II = 两根母排重叠放置 / Two busbars are mounted with a minimal distance behind the other

1) 重量通过密度 2,7kg/dm³ 计算得到
Weight calculated with a density of 2,7kg/dm³

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不同温度下的铜排校正系数 k_2 依据 DIN43671

Correction factor k_2 for copper busbars at varied busbar and air temperatures in according with DIN 43671



母线支架的选择 - 技术数据

Planing busbar support – technical data

型号 / Type	母排截面积 Busbar cross-section [mm x mm]	母排电流载流量 Busbar current carrying capacity		母排额定短时耐受电流 Busbar rated short time withstand current ICW [kA _{ref}] (t = 0,1s)			
		[A] ¹⁾	[A] ²⁾	300mm	450mm	600mm	750mm
SST-185/4010	40 x 10	715	900	80	65	50	35
SST-185/5010	50 x 10	852	1070	80	65	50	35
SST-185/6010	60 x 10	985	1236	80	80	65	40
SST-185/8010	80 x 10	1240	1556	100	80	65	50
SST-185/10010	100 x 10	1490	1870	100	100	80	65

- 1) 根据标准 DIN 43 670 室内空气环境温度 35°C 母排温度 65°C 时的持续电流
Continuous current in accordance with DIN 43 670 for indoor use on 35°C of air temperature and 65°C of busbar temperature.
- 2) 根据标准 DIN 43 670 柜内空气环境温度 55°C 母排温度 105°C 时的持续电流
Continuous current in accordance with DIN 43 670 for indoor use on 55°C of air temperature inside the switchgear cabinet and 105°C of busbar temperature.

用于互感器的铜电缆的内部损耗 / Internal consumption of copper cables for CT applications

基于电流值为 5A 的 P_v -表, 单位 VA / P_v -Table for values based on 5A in VA

A [mm ²]	l [m]	1	2	3	4	5	6	7	8	9	10
2,5		0.36	0.71	1.07	1.43	1.78	2.14	2.50	2.86	3.21	3.57
4,0		0.22	0.45	0.67	0.89	1.12	1.34	1.56	1.79	2.01	2.24
6,0		0.15	0.30	0.45	0.60	0.74	0.89	1.04	1.19	1.34	1.49
10,0		0.09	0.18	0.27	0.36	0.44	0.54	0.63	0.71	0.80	0.89

基于电流值为 1A 的 P_v -表, 单位 VA / P_v -Table for values based on 1A in VA

A [mm ²]	l [m]	10	20	30	40	50	60	70	80	90	100
1,0		0.36	0.71	1.07	1.43	1.78	2.14	2.50	2.86	3.21	3.57
2,5		0.14	0.29	0.43	0.57	0.72	0.86	1.00	1.14	1.29	1.43
4,0		0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.71	0.80	0.89
6,0		0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60
10,0		0.04	0.07	0.11	0.14	0.18	0.21	0.25	0.29	0.32	0.36

- l = 电缆长度 / Cable length
- A = 标称线径 / Nominal cross-section
- P_v = 连接电缆的功耗 / Power loss of the connection cables

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设计验证列表, 参考 IEC/EN 61439-1:2012-06, 附录 D

List of design verifications to be performed in according with IEC/EN 61439-1:2012-06, appendix D

序号 No.	待验证的特性 Characteristics to be verified	可用的验证选项 Available choice for the detection of		
		由试验验证 Testing	由计算验证 Comparison with a reference design	由设计规则验证 Assessment
1	材料和部件的强度 /Strength of material and parts			
	耐腐蚀性 /Resistance to corrosion	是 /Yes	否 /No	否 /No
	绝缘材料性能 /Properties of insulating materials			
	热稳定性 /Thermal stability	是 /Yes	否 /No	否 /No
	耐受由内部电效应引起的非正常发热和着火 Resistance to abnormal heat and fire due to internal electric effects	是 /Yes	否 /No	是 /Yes
	抗紫外线 (UV) 辐射 Resistance to ultra-violet (UV) radiation	是 /Yes	否 /No	是 /Yes
	提升 /Lifting	是 /Yes	否 /No	否 /No
	机械冲击 /Mechanical impact	是 /Yes	否 /No	否 /No
标志 /Marking	是 /Yes	否 /No	否 /No	
2	外壳防护等级 /Degree of protection of enclosures	是 /Yes	否 /No	是 /Yes
3	电气间隙 /Clearance	是 /Yes	否 /No	否 /No
4	爬电距离 /Creepage distance	是 /Yes	否 /No	否 /No
5	电击防护及保护电路完整性 Protection against electric shock and integrity of protective circuits			
	成套设备裸露导电部件和保护电路之间的有效连接性 Effective continuity between the exposed conductive parts of the ASSEMBLY and the protective circuit	是 /Yes	否 /No	否 /No
	短路保护的短路耐受强度 Short circuit withstand strength of the protective circuit	是 /Yes	是 /Yes	否 /No
6	开关器件和组件的组合 Incorporation of switching devices and components	否 /No	否 /No	是 /Yes
7	内部电路和连接 Internal electrical circuits and connections	否 /No	否 /No	是 /Yes
8	外接导线端子 Terminals for external conductors	否 /No	否 /No	是 /Yes
9	介电性能 /Dielectric properties			
	工频耐受电压 Power-frequency withstand voltage	是 /Yes	否 /No	否 /No
	冲击耐受电压 /Impulse withstand voltage	是 /Yes	否 /No	是 /Yes
10	温升极限 /Temperature-rise limits	是 /Yes	是 /Yes	是 /Yes
11	短路耐受强度 /Short-circuit withstand strength	是 /Yes	是 /Yes	否 /No
12	电磁兼容性 Electromagnetic compatibility (EMV)	是 /Yes	否 /No	是 /Yes
13	机械操作 /Mechanical operations	是 /Yes	否 /No	否 /No

操作循环次数 /No. of switching operations

额定工作电流 Rated operational current [A]	每小时操作循环次数 No. of switching operation per hour	操作循环次数 No. of switching operations					
		交流和直流使用类别 A AC- and DC-A-classes			交流和直流使用类别 B AC- and DC-B-classes		
		空载 Without current	带载 With current	总次数 Total	空载 Without current	带载 With current	总次数 Total
0 < I _e ≤ 100	120	8500	1500	10000	1700	300	2000
100 < I _e ≤ 315	120	7000	1000	8000	1400	200	1600
315 < I _e ≤ 630	60	4000	1000	5000	800	200	1000
630 < I _e ≤ 2500	20	2500	500	3000	500	100	600
2500 < I _e	10	1500	500	2000	300	100	400

表中所列数据适用于所有使用类别, 但 AC-20A, AC-20B, DC-20A 和 DC-20B 除外, 这些使用类别应完成表中第 5 列或第 8 列规定的不同电操作循环总次数, 表中第 2 列给出最小操作速度, 经制造厂同意, 可提高任何一种使用类别的操作速度。
The table values apply for all categories with exception of AC-20A, AC-20B, DC-20A and DC-20B. These categories have to check currentless with the sum of switching operations in line "Total" of "AC- and DC-A-classes" or "Total" of "AC- and DC-B-classes". Line "No. of switching operation per hour" shows the smallest applicable frequency of operations. In each category is allowed to increase the frequency of operations, only with agreement.

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防护等级 (IP 等级) / Degrees of protection (IP-Code)

箱体防护等级 (IP 等级) 参考 IEC/EN 60529:2009-10

Degrees of protection provided by enclosures (IP-Code) in according with IEC/EN 60529:2009-10 (extract)

1. 首位数 1st digit	接触保护 Protection against contact	外物侵入保护 Protection against ingress of objects	2. 次数 2nd digit	防水保护 Protection against harmful ingress of water
0	无防护 No protection	无防护 No protection	0	无防护 No protection
1	防止人体 (如手掌) 因意外而接触到电器内部的零件 Protected against access to dangerous parts with the back of a hand	防止直径大于 50mm 的固体外物侵入 Protected against solid foreign object size >50mm	1	防止垂直落下的水滴, 不会对电器造成损坏 Protected against dripping water
2	防止人的手指接触到电器内部的零件 Protected against access to dangerous parts with a finger	防止直径大于 12.5mm 的固体外物侵入 Protected against solid foreign object size >12,5mm	2	当电器由垂直倾斜至 15° 时滴水不会对电器造成损坏 Protected against dripping water when tilted up to 15°
3	防止工具侵入而接触到电器内部的零件 Protected against access to dangerous parts with a tool	防止直径大于 2.5mm 的固体外物侵入 Protected against solid foreign object size >2,5mm	3	防止喷洒的水侵入 Protected against spraying water
4	防止线缆侵入而接触到电器内部的零件 Protected against access to dangerous parts with a wire	防止直径大于 1mm 的固体外物侵入 Protected against solid foreign object size >1mm	4	防止飞溅的水侵入 Protected against splashing water
5	防止电线及类似的小型外物侵入而接触到电器内部的零件 Protected against access to dangerous parts with a wire	防止外物及灰尘 Protected against dust	5	防止喷射的水侵入 Protected against water jets
6	防止电线及类似的小型外物侵入而接触到电器内部的零件 Protected against access to dangerous parts with a wire	防止外物及灰尘 Dust tight	6	防止大浪侵入 Protected against powerful water jets
			7	防止浸水时水的侵入 Protected against temporary immersion in water
			8	防止沉没时水的侵入 Protected against continuous immersion in water

X 作为占位符代表任何识别号。这与第一和第二位识别号有关。

在特征数字之后有两个额外的字母, 可以用来定义对接近危险部件的外壳防护等级。如果实际的防止接近保护要求高于第一特征字母, 该附加字母就是必要的。这种保护可通过挡板或与危险部位保持足够的安全距离来实现。

A X stands as a placeholder for any identification number. This relates to the first and the second identification number.

It is possible to define a degree of protection of enclosure against a access of dangerous parts with two additional letters after the identification figures. This is necessary, if the actual protection against access is higher than the first identification figure. This protection can be realised with a cover or enough distance from dangerous parts.

附加字母 Additional letter	外壳防护等级 / Degree of protection of enclosure	
	简述 Brief description	定义 Definition
A	防止手背接近危险部件 Protected from access with the back of the hand	防止直径 50mm 球形试具与危险部件接触 The access probe, ball 50mm diameter, must have enough distance from dangerous parts.
B	防止手指接近危险部件 Protected from the access with the finger	防止直径 12mm, 长 80mm 的铰接试指与危险部件接触 The structured test finger, 12mm diameter, 80mm length, must have enough distance from dangerous parts.
C	防止工具接近危险部件 Protected against access with tool	防止手持直径不小于 2.5mm, 长度不超过 100mm 的探针与危险部件接触 The access probe, 2,5mm diameter, 100mm length, must have enough distance from dangerous parts.
D	防止铁丝接近危险部件 Protected against access with wire	防止手持直径不小于 1.0mm, 长度不超过 100mm 的探针与危险部件接触 The access probe, 1,0mm diameter, 100mm length, must have enough distance from dangerous parts.

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过电压类别 参考 DIN EN 60664-1

Overvoltage category in according with DIN EN 60664-1

电气系统或者电路的过电压类别由代码表示 (I、II、III 和 IV)。这个代码是基于限制并控制假定的浪涌电压值。在 IEC 60664-1 中定义了四种过电压类别。

过电压类别 I:

用于建筑安装永久性连接的设备。连接至具有限制瞬态过电压至相当低水平措施的电路的设备上所承受的过电压。这包括外部低电压设备的主要操作。

过电压类别 II:

用于建筑安装连接的设备。由配电装置供电的耗能设备 (例如家用设备或者手提设备) 上所承受的过电压。

过电压类别 III:

安装在配电装置中的设备, 以及设备的使用安全性和适用性必需符合特殊要求者 (例如配电盘, 包括电缆, 开关, 母线及插座) 上所承受的过电压;

过电压类别 IV:

使用在配电装置电源端的设备 (此类设备包含如电表和前级过电流保护设备) 上所承受的过电压;

The overvoltage category of an electrical system or a circuit is described by a code (I up to VI). This code is based on limiting and control of the assumed voltage surge values. In IEC 60664-1 the following four overvoltage categories are defined.

Overvoltage category I

Devices intended for fixed connection to installations of a building. For this components measures have been taken to limit transient overvoltages to appropriate low values, thus components which are designed for application in devices not exposed to overvoltages. This includes devices which are mainly operated at extra-low voltage.

Overvoltage category II

Devices intended for connection to installations of a building. These are energy-consuming components, which are supplied from a fixed installation (e. g. household devices and portable tools).

Overvoltage category III

Devices which are part of a fixed installation where a higher degree of availability is required (e. g. distribution panels incl. cables, switches, busbars and sockets).

Overvoltage category IV

Devices which are applied at a fixed connection point of the installation. These are applied near the incoming feeder (before the main distribution in direction of the mains) in the building installation.

以下表格表示电源系统的标称电压与设备的额定冲击耐受电压的关系

The following table shows the relationship between nominal voltage of the power supply and the rated impulse withstand voltage of the equipment.

额定工作电压 对地最大值交流方均根值或直流 Largest dimensioning of operating voltage to earth, root mean square value AC or DC	电源系统的标称电压 (≤ 设备的额定绝缘电压) Nominal voltage of the mains power supply (≤ rated insulation voltage of a connecting device)		额定冲击耐受电压 (1,2/50 μs) 优先值在海拔 2000m 时 Preferred number of the rated insulation voltage stability in kV (1,2/50 μs) at 2000m height above sea level			
	V		kV			
	I	II	过电压种类 / Overvoltage category			
	交流方均根值 Root mean square value	交流方均根值 Root mean square value	IV 电源进线点 (进线端水平) Current supply level (feed in)	III 配电路水平 Allocation level	II 负载 (装置设备) 水平 Load level (installation area)	I 特殊保护水平 Particular protected area
V	AC	AC				
50	-	-	1,5	0,8	0,5	0,33
100	66/115	66	2,5	1,5	0,8	0,5
150	120/208 127/220	115, 120, 127	4	2,5	1,5	0,8
300	220/380, 230/400, 240/415, 260/440, 277/480	220, 230, 240, 260, 277	8	4	2,5	1,5
600	347/600, 380/660, 400/690, 415/720, 480/830	347, 380, 400, 415, 440, 480, 500, 577, 600	6	6	4	2,5
1000	-	660, 690, 720, 830, 1000	12	8	6	4

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污染等级 参考 DIN EN 61439-1:2012-06

Pollution degree in according with DIN EN 61439-1:2012-06

污染程度是指装配的环境条件。柜内的开关设备和部件，机箱中的环境条件下的污染等级是适用的。

为了评估间隙和爬电距离，建立了以下四个在微观环境中的污染等级。

污染等级 1:
无污染或仅有干燥的非导电性污染。

污染等级 2:
一般情况仅有非导电性污染，但是必须考虑到偶然由于凝露造成短暂的导电性。

污染等级 3:
有导电性污染，或由于凝露使干燥的非导电性污染变为导电性的。

污染等级 4:
造成持久性的导电性污染，例如由于导电尘埃或雨雪所造成的污染。

污染等级 4 根据 DIN EN 61439-1 标准，不适用于机箱中的微环境。

除非另有说明，工业应用的组件通常使用污染等级 3 的环境中。然而，其它的污染等级可被视为适用，这取决于特定的应用程序或微观环境。

The pollution degree refers to the environmental conditions in which the assembly is applied. For switching devices and components inside an enclosure, the pollution degree of the environmental conditions in the enclosure is applicable.

For the purpose of evaluating clearances and creepage distances, the following four degrees of pollution in the micro-environment are established.

Pollution degree 1
No pollution or only dry non-conductive pollution occurs. The pollution has no influence.

Pollution degree 2
Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.

Pollution degree 3
Conductive pollution occurs or dry, non-conductive pollution occurs which is expected to become conductive due to condensation.

Pollution degree 4
Continuous conductivity occurs due to conductive dust, rain or other wet conditions.

Pollution degree 4 is not applicable for a micro-environment inside the assembly according to DIN EN 61439-1.

Unless otherwise stated, assemblies for industrial applications are generally for use in a pollution degree 3 environment. However, other pollution degrees may be considered to apply, depending upon particular applications or the micro-environment.

标准变压器标称短路电流

Nominal and short-circuit current of standard transformers

标称电压 Nominal voltage U _N	400V/231V			525V			690V/400V		
	标称 电流 Nominal current I _N [A]	4%	6%	标称 电流 Nominal current I _N [A]	4%	6%	标称 电流 Nominal current I _N [A]	4%	6%
短路电压 Short-circuit voltage U _K	短路电流 Short-circuit current I _K [A]			短路电流 Short-circuit current I _K [A]			短路电流 Short-circuit current I _K [A]		
额定容量 Rating [kVA]									
50	72	1805	—	55	1375	—	42	1042	—
100	144	3610	2406	110	2750	1833	84	2084	1392
160	230	5776	3850	176	4400	2933	133	3325	2230
200	288	7220	4812	220	5500	3667	168	4168	2784
250	360	9025	6015	275	6875	4580	210	5220	3560
315	455	11375	7583	346	8660	5775	263	6650	4380
400	578	14450	9630	440	11000	7333	336	8336	5568
500	722	18050	12030	550	13750	9166	420	10440	7120
630	910	22750	15166	693	17320	11550	526	13300	8760
800	1156	—	19260	880	—	14666	672	—	11136
1000	1444	—	24060	1100	—	18333	840	—	13920
1250	1805	—	30080	1375	—	22916	1050	—	17480
1600	2312	—	38530	1760	—	29333	1330	—	22300
2000	2888	—	48120	2200	—	36666	1680	—	27840

U_K 短路电压对应百分比 / Short-circuit voltage in %

$$I_k = \frac{I_n \cdot 100}{U_k [\%]}$$

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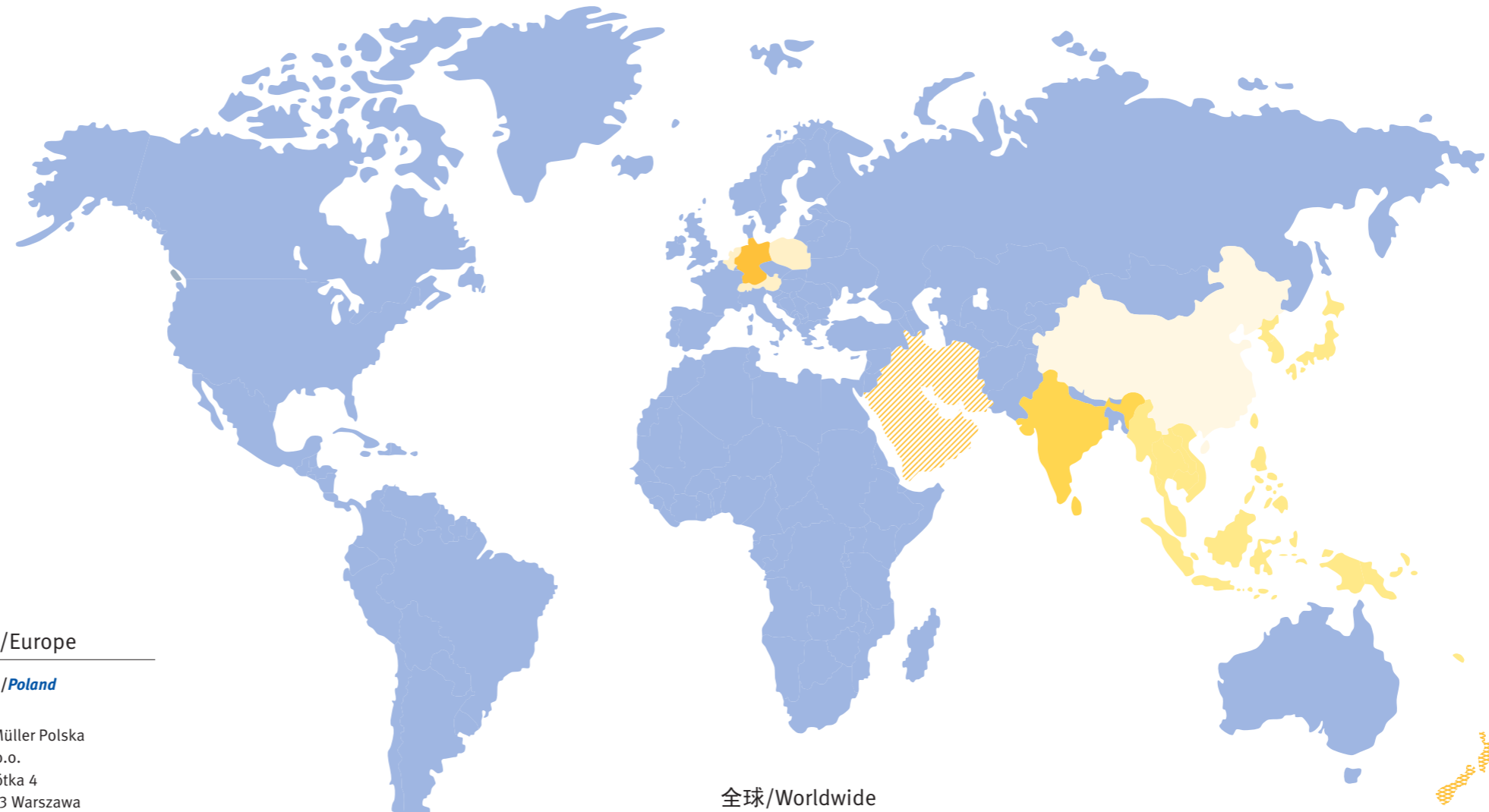
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全球 / International



德国 / Germany

总部 / Head office

Jean Müller GmbH
Elektrotechnische Fabrik
H.J.-Müller-Straße 7
D-65343 Eltville a. R.
Postfach 1364
D-65333 Eltville a. R.
t: +49 6123 604-0
f: +49 6123 604-730
e: sales@jeanmueller.de

销售办事处

Sales offices

北方销售办事处
Sales Office North
In den Weiden 24

D-58285 Gevelsberg
t: +49 2332 91 48-30
f: +49 2332 91 48-31
e: vbn@jeanmueller.de

西方销售办事处
Sales office West
In den Weiden 24

D-58285 Gevelsberg
t: +49 2332 91 48-30
f: +49 2332 91 48-31
e: vbw@jeanmueller.de

莱比锡销售办事处

Sales office Leipzig
Wurzner Str. 151
D-04318 Leipzig
t: +49 341 2 44 44-0
f: +49 341 2 44 44-40
e: vbl@jeanmueller.de

拜恩销售办事处

Sales office Bavaria
Poinger Str. 18
D-85551 Kirchheim-
Heimstetten
t: +49 89 90 05 02-0
f: +49 89 90 05 02-20
e: vbb@jeanmueller.de

欧洲 / Europe

代理商 / Agencies

Eidt GmbH
Schulstraße 12
D-65604 Elz
t: +49 6431 98 79-0
f: +49 6431 98 79-22
e: eidtgbmh@t-online.de

e.t.v. habig GmbH
Schützenstr. 25
D-88348 Bad Saulgau
t: +49 7581 90 07 54
f: +49 7581 90 07 64
e: m.habig@jeanmueller.de

波兰 / Poland

Jean Müller Polska
Sp. z o.o.
Ul. Krótka 4
02-293 Warszawa
t: +48 22 751 79-01
f: +48 22 751 79-03
e.: info@jeanmueller.pl

瑞士 / Switzerland

Jean Müller (瑞士 /
Switzerland) GmbH
Industriestraße 4
CH-4658 Däniken
t: +41 62 2884-100
f: +41 62 2884-101
e: office@jeanmueller.ch

奥地利 / Austria

Jean Müller Austria GmbH
Aumühlweg 21/2/Büro 213
A-2544 Leobersdorf
t: +43 2256 63198-0
f: +43 2256 63198-20
e: office@jeanmueller.at

比利时 / Belgium

Jean Müller Belgium
Verkoopkantoor /
Bureau de vente
Hollebeekstraat 27
B-8700 Tielt
t: +32 474 47 55 26
f: +32 51 69 47 68
e: belgie@jeanmueller.com

荷兰

The Netherlands

Jean Müller GmbH
Verkoopkantoor Nederland
Aagje Dekenstraat 53
8023 BZ Zwolle
t: +31 38-455 30 70
f: +31 38-454 1203
e: nederland@jeanmueller.com

全球 / Worldwide

JEAN MÜLLER

Jean Müller GmbH
Elektrotechnische Fabrik
H.J.-Müller-Straße 7
D-65343 Eltville a. R.
Postfach 1364
D-65333 Eltville a. R.
t: +49 6123 604-777
f: +49 6123 604-87 69
e: export@jeanmueller.de

印度 / India

Jean Müller India
53, Soham Row House
B/h Bhavin School, Thaltej
Ahmedabad – 380054,
Gujarat, India
t: +91 99 9836 1875
f: +91 79 2688 0264
e: mparmar@jeanmueller.in

中国 / China

Jean Müller Electric
(Shanghai) Co., Ltd.
World Plaza, 23 CD
855 PuDong Nan Lu
Shanghai Pudong 200120
t: +86 21 5836 9078
f: +86 21 6888 6978
e: info@jeanmueller.cn
www.jeanmueller.cn

Jean Müller Electrical
Systems (Tianjin) Co., Ltd.
76# Gao Xin Road
BeiChen Zone
Tianjin, 300409, P. R. China
t: +86 22 8698 6290
f: +86 22 8698 6291
e: info@jeanmueller-es.cn
www.jeanmueller.cn

中东 / Middle East

Jean Müller Middle East FZE
PO Box 62085
Dubai/EAU
Vereinigtes Arabische Emirate
t: +971 50 645 9490
f: +971 4 321 31 78
e: pawilson@emirates.net.ae

Jean Müller Office Qatar
PO Box 32522
Doha/Qatar
t: +974 4423 1112
f: +974 4423 1100
e: pbsdelta@qatar.net.qa

新加坡 / Singapore

Jean Müller
South-East Asia PTE. Ltd.
50 Bukit Batok St 23
#04-26 Midview building
Singapore 659578
t: +65 6316 19 - 50
f: +65 6316 19 - 51
e: jmueller@singnet.com.sg

新西兰 / New Zealand

Jean Müller
(New Zealand) Ltd.
Unit 2, 37 Hurlstone Drive
New Plymouth 4340
t: +64 6 769 9694
f: +64 6 769 9696
e: sales@jeanmueller.co.nz

标准产品
Standard devices

型号描述
Type designation

附件
Accessories

设备固定系统
Device fitting
system

技术数据
Technical data

尺寸
Dimensions

附录
Appendix

金米勒公司保留对该样本的修改权

产品开发和技術变更以及升级替换信息请随时关注

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