



IN THE LINE OF POWER



低压熔断器式负荷隔离开关
低压熔断体

NH Fuse-Switches
NH Fuse-Links



The Specialist for Safe and Smart Grid Operation

安全和智能电网运行的专家

Making energy distribution system safe: for more than 90 years, this has been our commitment. Whether you are active in the field of infrastructure or in the power supply sector, EFEN is your partner for intelligent solutions tailored to your needs. Your benefits: Optimal plant reliability and superior performance. In close cooperation with you, we develop systems that match your individual requirements and that are ready to enhance energy efficiency in smart-grid operation.



确保能源分配系统的安全：这是EFEN 90多年来的永恒承诺。无论是基础设施领域还是供电行业，EFEN是为您提供符合您要求的智能解决方案的伙伴。您的收益：优化工厂的可靠性和优越的性能。我们与您保持密切合作，开发新系统，以满足您个性化的需求，同时为提高智能电网运行的能源效率作准备。

Safety Interfaces from the Specialist

EFEN offers optimized safety systems-adapted to the respective field of application. Benefits for your company: Reliable grid operation as well as safe shut-down possibilities in the event of overloads or short circuits. This protects people and investments, maximizing your plant availability.



源自专家的安全界面

EFEN提供优化的安全系统-适用于各个应用领域。对贵公司的好处：可靠的电网运行以及迅速安全的切断可能发生的过载或短路，以保护人身和财产安全，提高设备的利用率。

Certified Quality

EFEN products have a proven track record of high quality: Our quality and environment management is certified in accordance with DIN ISO 9001 and DIN ISO 14001. The AEOF certificate stands for easy order processing within the EU. Furthermore, EFEN's occupational health and safety management is certified in accordance with OHSAS 18001.



质量认证

EFEN产品具有高品质的良好记录。我们的质量和环境管理体系符合DIN ISO 9001和DIN ISO 14001认证。在欧盟内的简单订单处理流程的AEOF认证。此外，EFEN的职业健康和安全管理认证符合OHSAS 18001标准。



The Core of Safe Power Distribution

Grown from our traditional core competence, we at EFEN offer a comprehensive range of fuse-links according to IEC/DIN standards for low-voltage and medium-voltage applications. Our innovative high-tech products protect people and investments and ensure maximum availability.

安全配电的核心

随着我们的传统核心竞争力的不断发展，我们EFEN为低压和中压应用领域提供了符合IEC/DIN标准的全系列熔断体。创新的高科技产品保护了人身和财产安全，同时确保了最大程度的可用性。

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设计与技术

埃芬新型的IN 系列熔断器开关毋庸置疑地证明了先进技术和现代造型的完美结合，滑动的视窗可以方便测量熔断器刀柄两端的电压。

开关通用的端子可以为用户提供更多的选择，根据不同开关尺寸提供的附件螺栓可以固定带线耳的电缆，选配不同的附件还可以直接连接扁平或不同截面的电缆。

紧凑的外形尺寸和全系列的固定安装孔确保了在不同柜型中的快速、方便安装（尺码000, 00, 1型可以提供快速导轨安装的附件）。适配的母线系统可以从40mm间距100mm间距。

Design and technology

Without controversy proved by the new construction of EFEN NH Fuse-switches series IN. Perfected technology and an appealing model show the best combination of these units. Adjustable windows facilitate voltage on the back knife of NH Fuse-Links.

Universal terminals provide more options to the end user, Enclosed connecting screws which are in accordance to size of unit enable the fastening of with cable with cable lugs. Direct connection is possible with flat cable connection or cable with differential cross sections by using the appropriate accessories.

Compact overall dimensions and a full range of different mounting holes for the use of mounting plates as well as a possibility of fastening onto supporting rails in size 000,00, and 1 (quick fixing de-vice as accessory available) offer a fast busbar systems with 40 mm rail distance up to systems with 100 mm are part of a wide accessory range .

符合VDE0660 T107/EN 60947-3/IEC 60947-3/GB14048.3标准的技术参数
Technical Data acc. to VDE 0660 T107/EN 60947-3/IEC 60947-3/GB14048.3

适用于符合DIN 43620/1标准的低压高分断能力熔断器 For NH Fuse-Links acc.to DIN 43620/1	尺码 Size	000	000/00	1	2	3	4a
额定工作电流I _e Rated operational current I _e	A	100	160	250	400	630	1250 1600 ¹⁾
常规的温升电流I _{th} Conventional free air thermic current I _{th}	A	100	160	250	400	630	1250 1600
额定工作电压U _e Rated operational voltage U _e	V	690	690				
额定绝缘电压U _i Rated insulation voltage U _i	V	690	1000 ²⁾				
额定冲击耐受电压U _{imp} Rated impulse withstand voltage U _{imp}	kV	6	12 ²⁾				
额定条件下的短路电流 (采用熔断器保护时) Rated conditional short circuit current (When protected by NH Fuse-Links)	kA	80	50				
使用类别VDE0660 T107/EN/IEC 60947-3/GB14048.3 Utilization category VDE0660 T107/EN/IEC 60947-3/GB14048.3	U _e =400V AC U _e =690V AC U _e =440V DC	AC-22 B AC-21 B DC-21 B					
机械使用寿命 Mechanical durability	次数 cycles	2000	1600	1000	600		
环境温度 Permissible ambient temperature	°C	-40 至 +55 / -40 up to +55					
防护等级 Degree of protection DIN/EN 60529/VDE 0470 T1	IP	3X					
熔断器的最大功率损耗 Maximum power dissipation of the NH Fuse-Links	P _n max.	9	12	23	34	48	115 140
未装熔断器的重量 Weight without NH Fuse-Links	kg	0.425	0.5	2.0	3.25	5.3	14.0

- 1) 使用类别：可提供/Utilization category: on demand.
- 2) 对于尺码00型平面安装的开关，仅在加装不小于3毫米绝缘后达到/Only using insulating plate with a minimum thickness of 3mm for fuse-switch size 00 baseplate mounting.
- 3) 适用于 L_1 和 L_3 两极；单极 $U_e=DC220V$ /Fitting of L_1 and L_3 1-pole $U_e=DC220V$.

NH-Latr

SB

00/160



订货号

39***-****

Order no.

39***-****

监控方式/Monitoring mode

无 = 不带监控/N/A=Without monitoring

SN/SG = 带监控/SN/SG=With monitoring

ESF = 带电子监控/ESF=With electronical monitoring

极数/Pole

无 = 三极开关/N/A=3 pole switches

1P = 单极开关/1P=1 pole switch

2P = 两极开关/2P=2 pole switches

4P = 四极开关/4P=4 pole switches

EP = 单极分合/EP=Single pole switching

出线方式/Connection

无 = 底部接线/N/A=Bottom connection

AO = 顶部接线/AO=Top connection

开关尺寸/开关额定电流/Size/Rated current

000/100、00/160、1/250、2/400、3/630、
4a/1250、4a/1600

安装方式/Mounting mode

无 = 平面固定安装/N/A=Baseplate mounting

SB = 母线挂钩安装/SB=Hook contacting

IN系列横向刀熔开关/Horizontal design, Series IN





低压熔断器式隔离开关AC 690V，三极，尺码 000-00，平面安装
NH Fuse-Switches AC 690V,3-pole switching,size 000-00,for baseplate mounting

特性

- 滑动式熔断器检测窗
- 紧凑的视窗与面盖
- 三个熔断器的无触碰式松扣装置

Properties:

- Sliding fuse test window
- Compact sealing of window and lid
- Touch-free unlocking of all three fuse-links

描述 Description	尺码 Size	电流 I_{th} Amps I_{th}	订货号 Order no.	型号 Description	力矩/Torque		包装 Pack
					机械 mech	电气 electr	
固定式安装 For baseplate mounting: 平头螺栓 1.5-50mm ² Box terminal 1.5-50 mm ²	000	160	34050-0000	NH-Latr 000 R4R4	5 Nm	3 Nm	10
固定式安装 For baseplate mounting: 通用连接 (M8) Multiple use terminal (screw M8)	00	160	34060-0000	NH-Latr 00IN U5U5	5 Nm	14 Nm	10



低压熔断器式隔离开关AC 690V，三极，尺码1-3，平面安装
NH Fuse-Switches AC 690V,3-pole switching,size 1-3,for baseplate mounting

特性

- 滑动式熔断器检测窗
- 紧凑封闭
- 可使用微动开关实现位置指示

Properties:

- Sliding fuse test window
- Compact sealing
- Switch position indicator with micro switch possible

描述 Description	尺码 Size	电流 I_{th} Amps I_{th}	订货号 Order no.	型号 Description	力矩/Torque		包装 Pack
					机械 mech	电气 electr	
固定式安装 For baseplate mounting: 通用连接(M10) Multiple use terminal (screw M10)	1	250	34162-0000	NH-Latr 1IN U2U2	20 Nm	32 Nm	1
	2	400	34262-0000	NH-Latr 2IN U2U2			
	3	630	34362-0000	NH-Latr 3IN U2U2			
螺栓端子(M12) Screw terminal M12	3	910A 630 kVA	34360-1000	NH-Latr 3IN 630kVA G6G6			



低压熔断器式隔离开关AC 690V，三极，尺码4a，平面安装
NH Fuse-Switches AC 690V,3-pole switching,size 4a,for baseplate mounting

特性

- 带锁扣的前盖
- 可选位置指示开关
- 可选熔断器监控

Properties:

- Lid locked
- Switch position indicator optional (on demand)
- Fuse monitoring optional (on demand)

描述 Description	电流 I_{th} Amps I_{th}	订货号 Order no.	型号 Description	力矩/Torque		包装 Pack
				机械 mech	电气 electr	
螺栓端子M16两端进出线 Screw terminal M16 top and bottom	1250	34400-0000	NH-Latr 4A EP L8L8	40 Nm	56Nm	1
单极分合 Single-pole switching		34400-1010	NH-Latr 4A 3P L8L8			1
三极共拉 Three-pole switching	1600 ¹⁾	34400-1040	NH-Latr 4A EP 1600A L6L6	40 Nm	40Nm	1
螺栓端子双M12两端进出线 Screw terminal 2 x M12 top and bottom		34400-1050	NH-Latr 4A 3P 1600A L6L6			1
单极分合 Single-pole switching						
三极共拉 Three-pole switching						

1) 使用1600A熔断器时功率损耗最大140 W。

1600A possible with NH Fuse-Links up to a rated power dissipation of 140W.

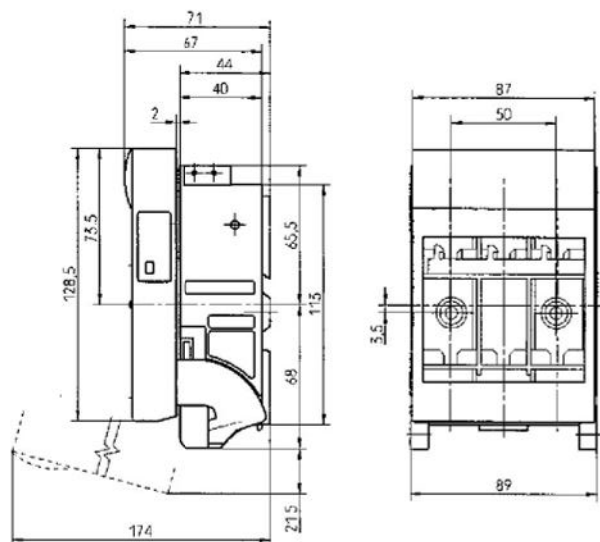
如需四极开关，请联系我们

If you need 4-pole switches, please contact us.

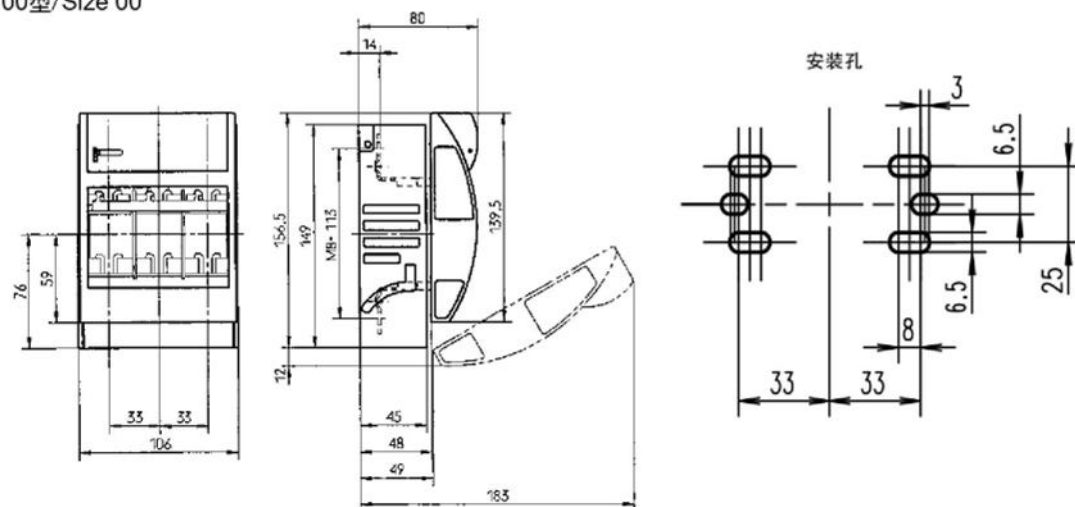
尺寸图/Dimensions drawings

低压熔断器式隔离开关AC 690V三极 平面安装
NH Fuse-Switches AC 690V 3-pole for baseplate mounting

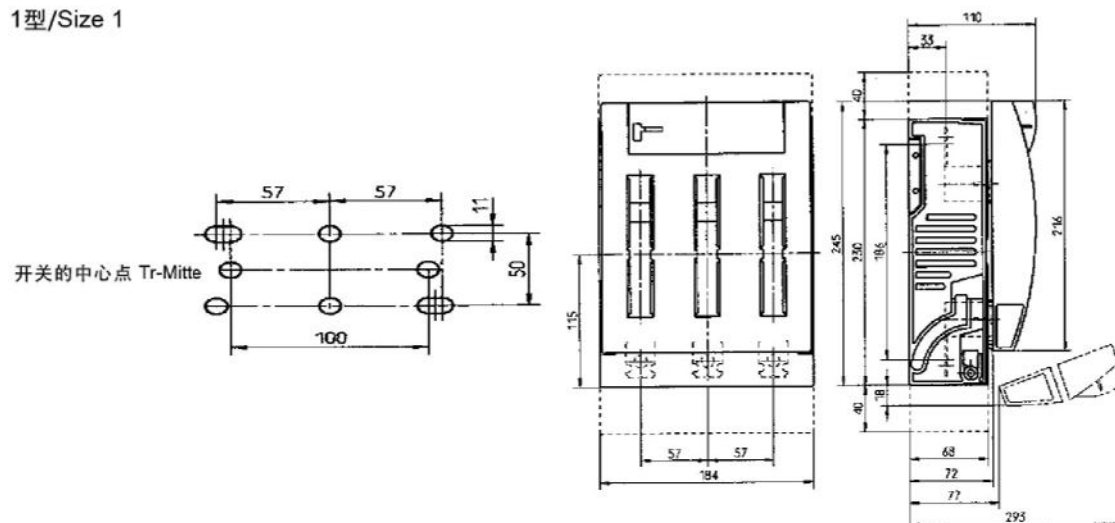
000型/Size 000



00型/Size 00



1型/Size 1

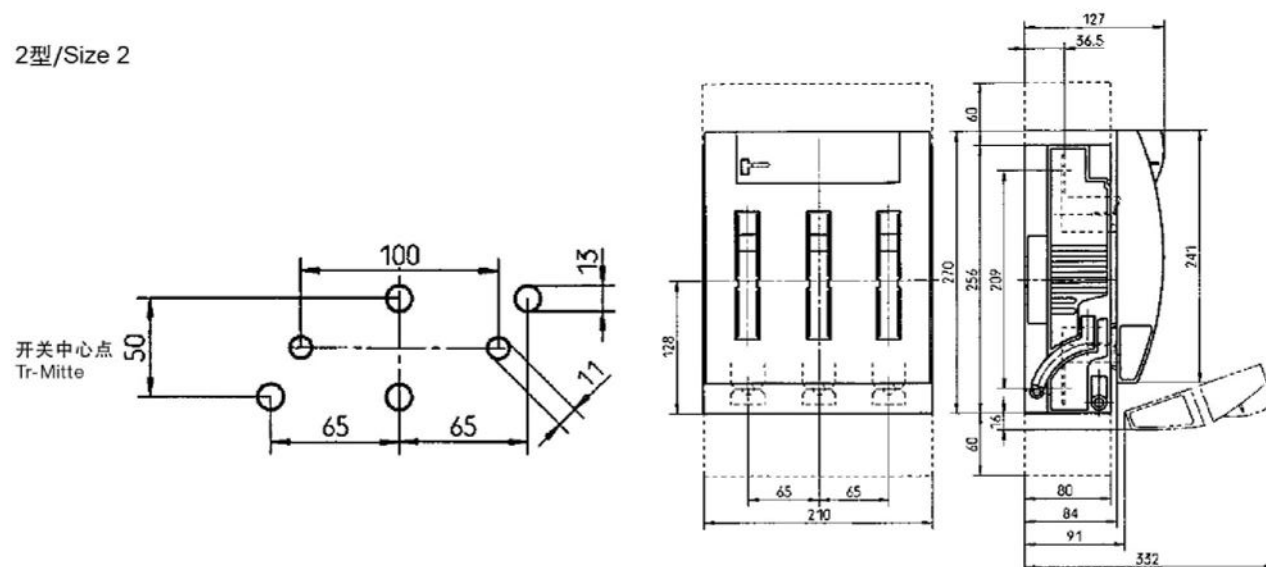


尺寸图/Dimensions drawings

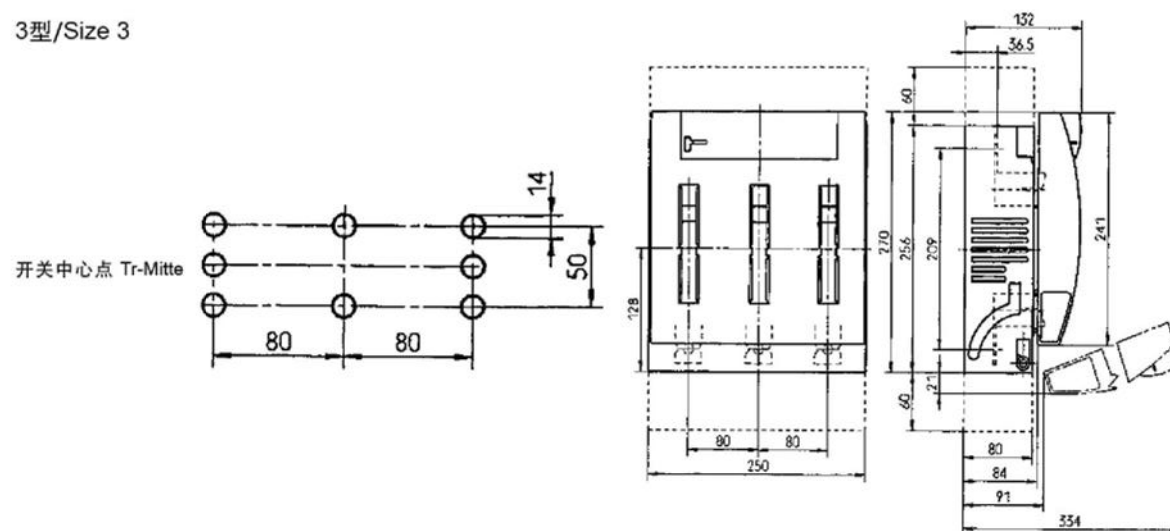
低压熔断器式隔离开关AC 690V三极 平面安装

NH Fuse-Switches AC 690V 3-pole for baseplate mounting

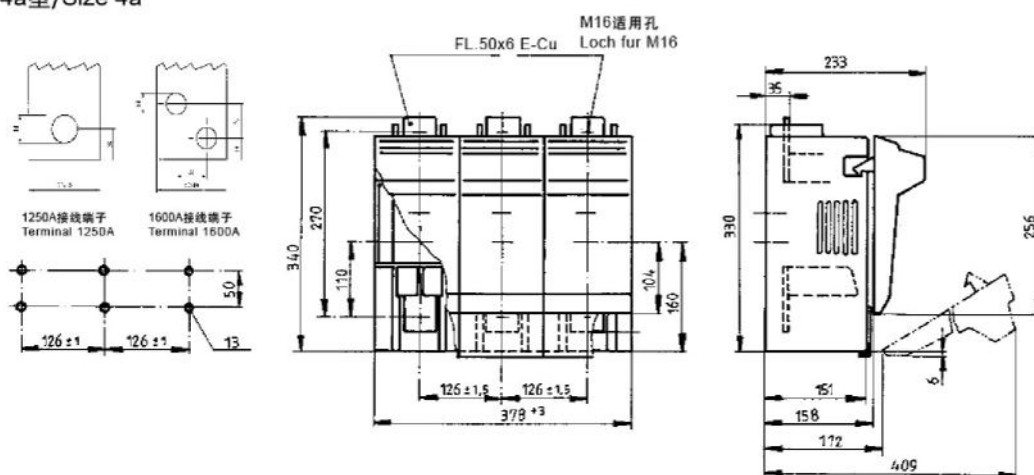
2型/Size 2



3型/Size 3



4a型/Size 4a





低压熔断器式隔离开关AC 690V, 60mm母线安装, 尺码00-3, 挂钩式安装
NH Fuse-Switches AC 690 V for busbar systems 60mm centre distance, size 00-3, hook contacting

特性:

- 滑动式熔断器检测窗
- 可使用微动开关实现位置指示
- 便捷安装

Properties:

- Sliding fuse test window
- Switch position indicator with micro switch possible
- Easy and quick mounting

描述 Description	出线方式 Connection	尺码 Size	电流 I_{th} Amps I_{th}	订货号 Order no.	型号 Description	力矩/Torque		包装 Pack
						机械 mech	电气 electr	
螺栓连接 M8 Screw terminal M8	底部 出线 Terminal bottom	00	160	39660-2000	NH-Latr SB 00IN 60 K43U5	6 Nm	14 Nm	2
螺栓连接 M10 Screw terminal M10		1	250	39212-2000	NH-Latr SB 1IN 60 K92U2	14 Nm	32 Nm	1
螺栓连接 M10 Screw terminal M10		2	400	39222-2000	NH-Latr SB 2IN 60 K92U2	14 Nm	32 Nm	1
螺栓连接 M10 Screw terminal M10		3	630	39232-2000	NH-Latr SB 3IN 60 K92U2	14 Nm	32 Nm	1
螺栓连接 M8 Screw terminal M8	顶部 出线 Terminal top	00	160	39660-0000	NH-Latr SB 00IN 60 U5K43	6 Nm	14 Nm	2
螺栓连接 M10 Screw terminal M10		1	250	39212-0000	NH-Latr SB 1IN 60 U2K92	14 Nm	32 Nm	1
螺栓连接 M10 Screw terminal M10		2	400	39222-0000	NH-Latr SB 2IN 60 U2K92	14 Nm	32 Nm	1
螺栓连接 M10 Screw terminal M10		3	630	39232-0000	NH-Latr SB 3IN 60 U2K92	14 Nm	32 Nm	1



低压熔断器式隔离开关AC 690V, 100mm母线式安装, 尺码1-3, 挂钩式安装
NH Fuse-Switches AC 690V for busbar systems 100mm centre distance, size 1-3, hook contacting

特性:

- 滑动式熔断器检测窗
- 可使用微动开关实现位置指示
- 便捷安装

Properties:

- Sliding fuse test window
- Switch position indicator with micro switch possible
- Easy and quick mounting

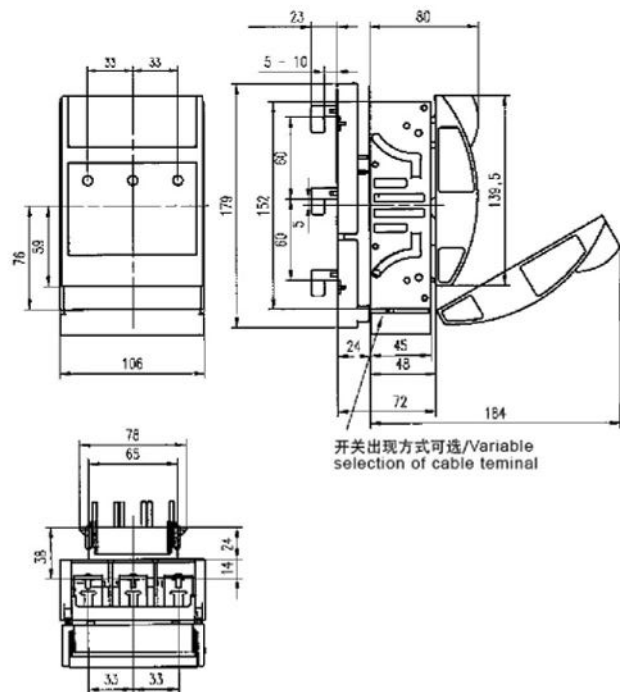
描述 Description	出线方式 Connection	尺码 Size	电流 I_{th} Amps I_{th}	订货号 Order no.	型号 Description	力矩/Torque		包装 Pack
						挂钩 Hook	端子 Terminal	
螺栓连接 M10 Screw terminal M10	顶部出线 Terminal top	1	250	39212-5000	NH-Latr SB 1IN 100 U2K93	14 Nm	32 Nm	1
		2	400	39222-5000	NH-Latr SB 2IN 100 U2K93			
		3	630	39232-5000	NH-Latr SB 3IN 100 U2K93			
	底部出线 Terminal bottom	1	250	39212-7000	NH-Latr SB 1IN 100 K93U2			
		2	400	39222-7000	NH-Latr SB 2IN 100 K93U2			
		3	630	39232-7000	NH-Latr SB 3IN 100 K93U2			

尺寸图/Dimensions drawings

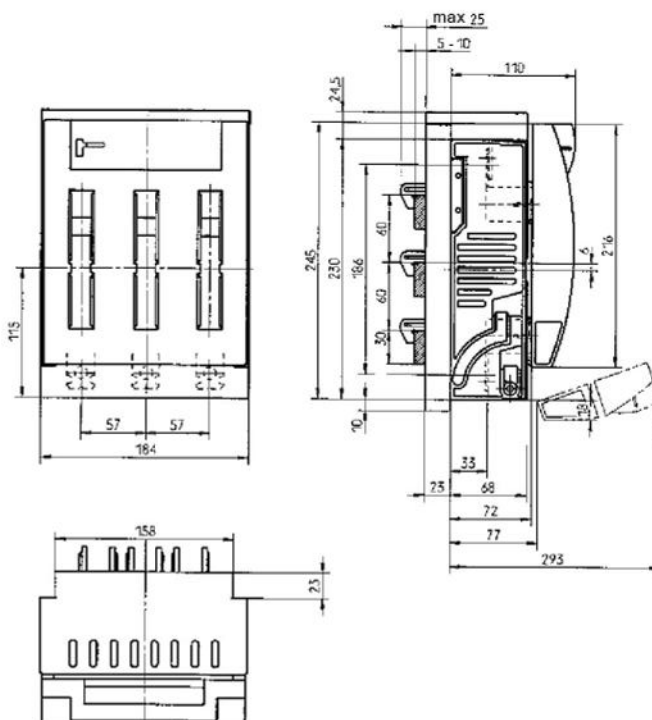
低压熔断器式隔离开关AC 690V 60mm母线式安装

NH Fuse-Switches AC 690V for busbar systems 60mm centre distance

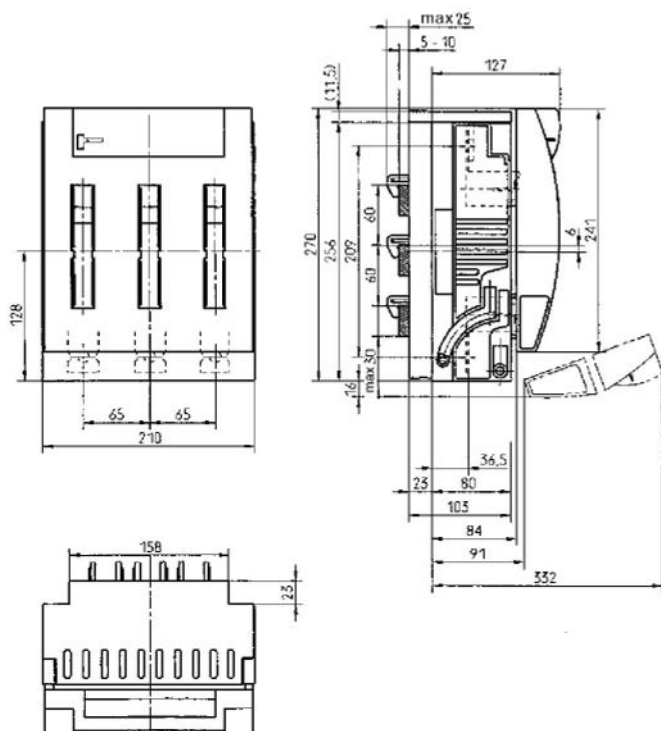
00型/Size 00



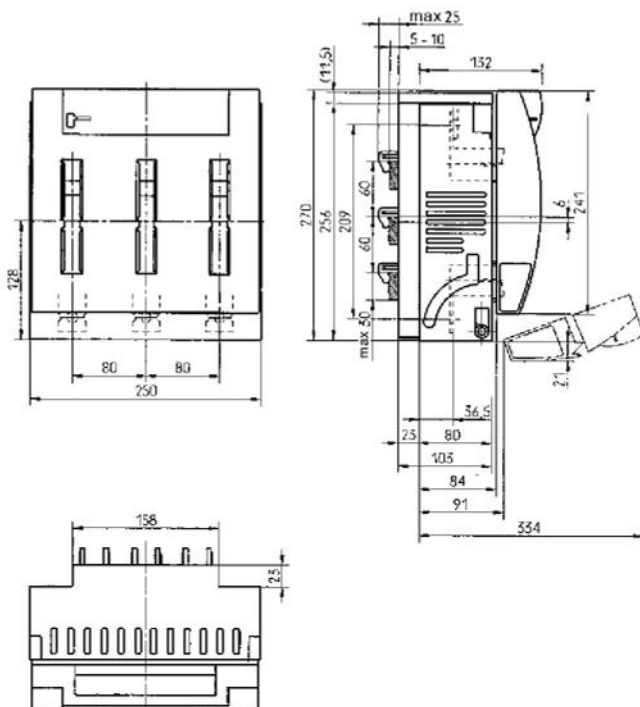
1型/Size 1



2型/Size 2



3型/Size 3

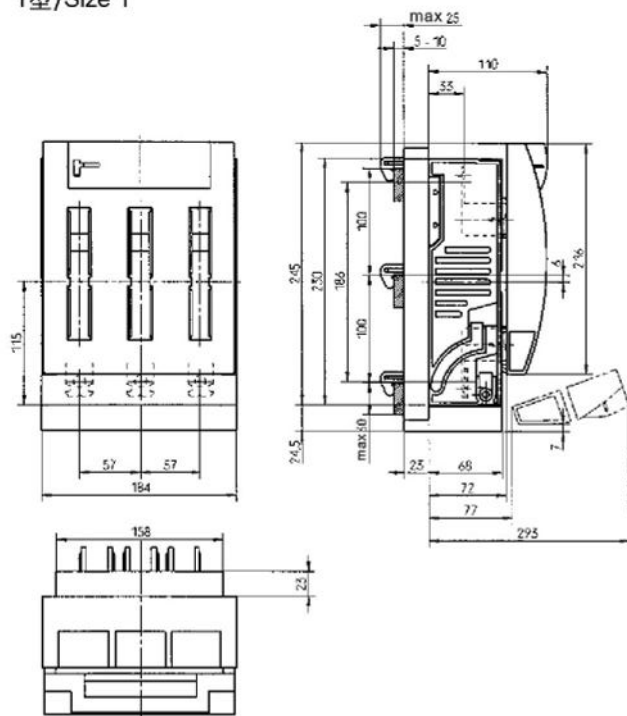


尺寸图/Dimensions drawings

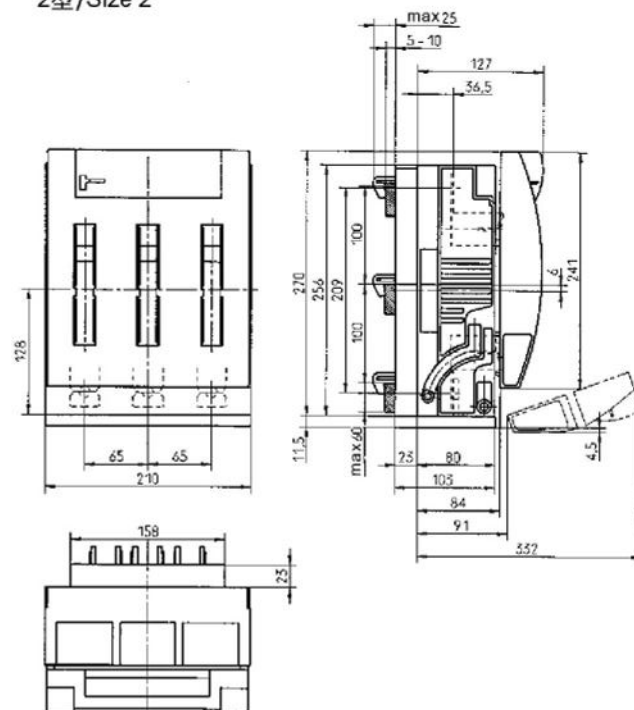
低压熔断器式隔离开关AC 690V 100mm母线式安装

NH Fuse-Switches AC 690V for busbar systems 100mm centre distance

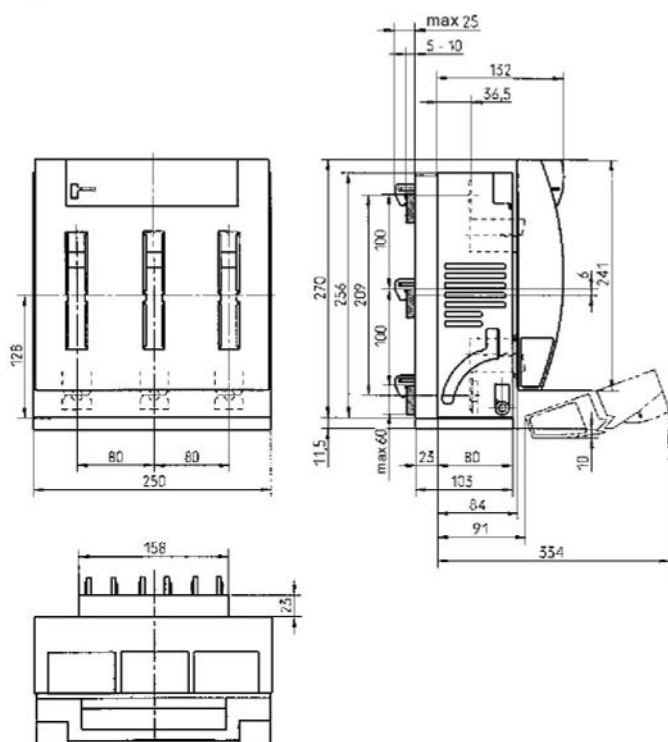
1型/Size 1



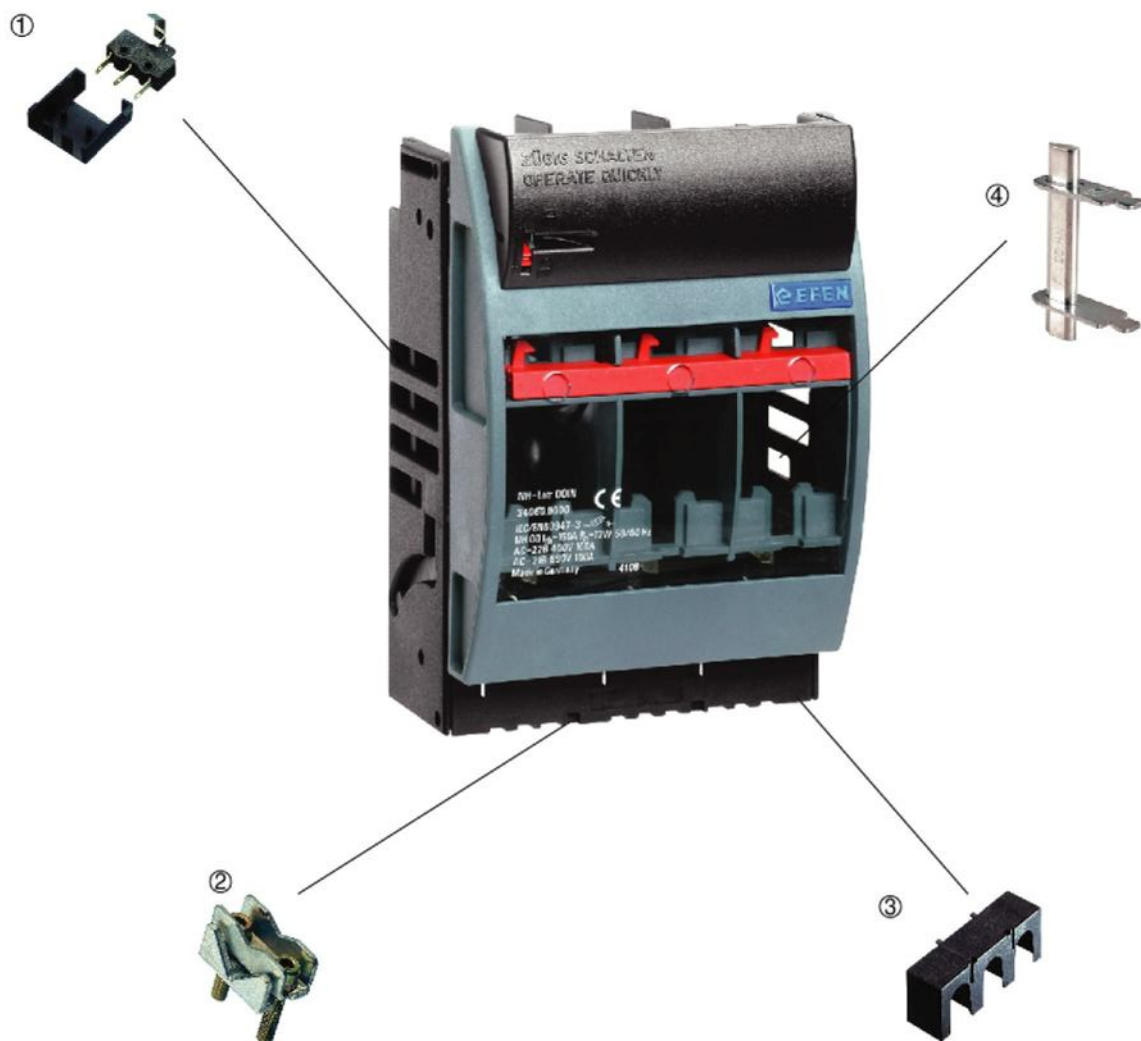
2型/Size 2



3型/Size 3



尺码00开关的配件图/Accessories for size 00



- ① 36174-0010 00型微动开关/micro switch for size 00
- ② 36170-0010 带螺栓和棱形压紧件的线夹，最大至95mm² (1组=6件) /pressure plates with screws and contact prism 1-95mm² (1set=6pieces)
- ③ 31401-0100 00型延长保护罩/terminal cover for size 00
- ④ 36008-0010 00型刀闸/NH solid-links for size 00

备注：增加所需配件时，请联系我们。
Note: If you need more accessories, please contact us.

尺码1-3开关的配件图/Accessories for size 1-3



- ① 85138-0100 1-3型微动开关/micro switch for size 1-3
- ② 36198-0010 1型带螺栓和棱形压紧件的线夹, 最大至150mm²(1组=6件) /pressure plates with screws and contact prism to 150mm² for size 1
- 36200-0010 2-3型带螺栓和棱形压紧件的线夹, 最大至240mm²(1组=6件) /pressure plates with screws and contact prism to 240mm² for size 2-3(1set=6pieces)
- ③ 31438-0100 1型延长保护罩/terminal cover for size 1
- 31428-0100 2型延长保护罩/terminal cover for size 2
- 31429-0100 3型延长保护罩/terminal cover for size 3
- ④ 36010-0010 1型刀闸/NH solid-links for size 1
- 36011-0010 2型刀闸/NH solid-links for size 2
- 36012-0010 3型刀闸/NH solid-links for size 3

备注: 增加所需配件时, 请联系我们。

Note: If you need more accessories, please contact us.

埃芬公司低压条形熔断器配电排和条形负荷隔离开关无论在质量、技术还是在安全方面都是顶级产品。埃芬公司在低压高分断能力熔断器、熔断器底座以及低压负荷隔离开关领域积累了几十年的制造经验，确保了用户所采用都是技术先进的产品。

绝缘部件由耐高温塑料制成，具有无卤素、不易破损和阻燃等特性。电气触点部件选用经表面优化处理的电解铜。双重隔断设计使操作负荷最小化。埃芬低压条形熔断器配电排和条形负荷隔离开关满足了用户按照VDE 0660/IEC/EN 60 947-3/GB 14048.3规定的长期持续运行的需要。

此样本目录列出了详细的标准产品系列，并没有展示所有的专门解决方案。我们丰富的经验可以为客户提供各种附件和多种经济方案。

NH fuse-rails and fuse-switches are top products as to quality, technique and safety. Decades of EFEN experience with NH fuse-links, -bases and NH switches are a guarantee for our customers to receive NH devices of advanced technology.

The insulated components are of highly heat resistant plastics, halogen-free, break- and self extinguishing. The electrical contact parts are made of surface-processed E-Cu. By double breaking the strain of the contacts when switching is minimized. NH fuse-rails and -switches offer the user the application under extreme continuous operating according to VDE 0660/IEC/EN 60 947-3/GB 14048.3.

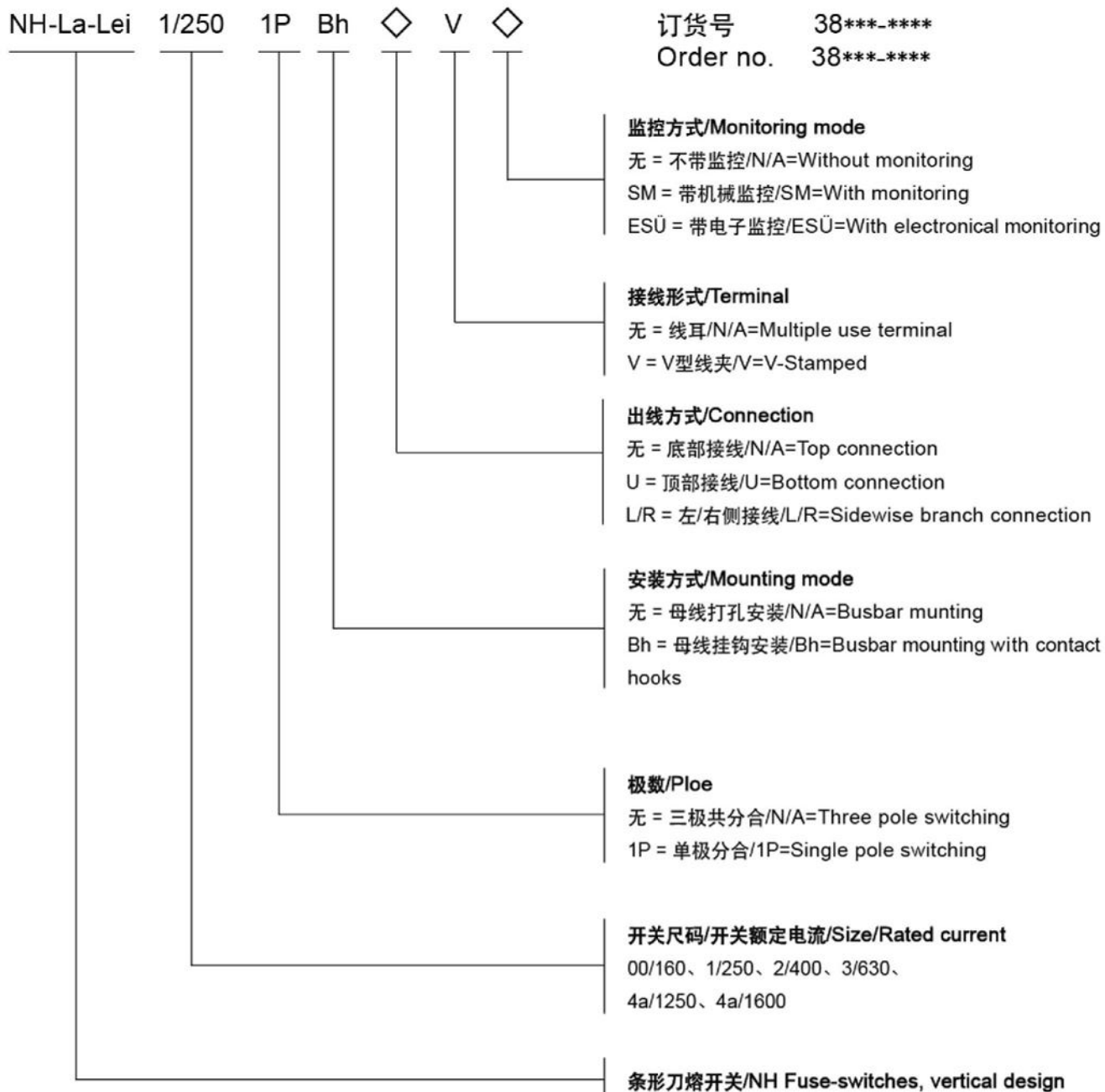
This catalogue offers a detailed survey of the standard series, not showing any problem oriented equipments. Our field-experienced accessories offer solutions to our clients, problems, which otherwise are only achievable by use of expensive auxiliary equipments.

Special types, not shown in this catalogue are available. The EFEN engineering team is always ready to work out solutions to users, problems.

符合VDE0660/107-IEC/EN 60 947-3/GB14048.3标准的条形熔断器式负荷隔离开关的技术参数
Technical data for NH fuse-switches, vertical design acc. to VDE 0660/107-IEC/EN 60 947-3/GB14048.3.

适用于符合VDE 0636 T201 ¹⁾ 标准的低压高分断能力熔断器 For NH fuse-links acc. to VDE 0636 T201 ¹⁾	尺码 Size	00	1	2	3	4a	3 1000A ³⁾
额定工作电流I _e Rated operational current I _e	A	160	250	400	630	1250/1600 ²⁾	1000
额定温升电流I _{th} Conventional free air thermal current I _{th}	A	160	250	400	630	1250/1600 ²⁾	1000
额定工作电压U _e Rated operational voltage U _e	V	690	690	690	690	690	690
额定绝缘电压U _i Rated insulation voltage U _i	V	1000	1000	1000	1000	1000	1000
额定冲击耐受电压U _{imp} Rated impuls withstand voltage U _{imp}	kV	8	8	8	12	12	8
额定条件下的短路电流（采用熔断器保护时） Rated conditional short circuit current (when protected by fuse-Links)	kA	50	50	50	50	50	-
IEC 60 947-3 规定的使用类别（使用熔断器进行保护） Utilization category IEC 60 947-3	U _e =400V U _e =690V U _e =440V	AC-22B AC-21B DC-21B ⁴⁾	AC-22B AC-21B *	AC-22B AC-21B *	AC-22B AC-21B *	AC-22B AC-21B DC-21B	AC-20B AC-20B DC-20B
机械寿命 Mechanical durability	次数 cycles	1600	1600	1000	1000	600	1000
允许的环境温度 Permissible ambient air temperature	°C	-40°C至+55°C/ -40°C up to +55°C					
防护等级 DIN/EN 60 529/VDE 0470 T1 Degree of protection DIN/EN 60 529/VDE 0470 T1	—	IP 2 x					

- 1) 如果在开关中使用gR熔断器，请索取进一步说明/When using gR-fuse-links(VDE 0636/400), please ask for information.
 - 2) 使用1600A熔断器功率损耗最大P_n=140W/1600A possible with fuse-links up to a rated power dissipation of 140 W.
 - 3) 装有刀闸的隔离开关（根据客户需求）/Isolator unit with solid copper-links only (on demand).
 - 4) NSL-IN系列，U_e=400V/NSL-IN Series, U_e=400V
- * 根据客户要求提供DC产品/* DC-Category on demand





条形熔断器式负荷隔离开关，三极共分合，尺码00:160A用于中心距为60mm母线
NH fuse-switches,vertical design,size 00:160A,3-pole Switching for busbars 60mm centre distance

接线形式/Terminal	电流 A	订货号 Order no.	型号 Description
通用连接U5 (螺母M8) 底部出线 Multiple use terminal U5 (screw M8)bottom	160	38534-1000	NH-La-Lei 00 IN 3PU 60 U5

条形熔断器式负荷隔离开关，三极共分合，尺码00:160A 用于中心距为100mm母线顶部/底部出线可选

NH fuse-switches,vertical design,size 00:160A,3-pole switching for busbars 100mm centre distance/cable terminal top/bottom selection possible

接线形式/Terminal	电流 A	订货号 Order no.	型号 Description
通用连接U5 (螺母M8) Multiple use terminal U5 (screw M8)	160	38544-0000	NH-La-Lei 00 IN 3P U5

注：如需要185mm间距的条形开关，请跟我们联系。

If you need switches for busbars 185mm centre distance,please contact us.



2000系列，符合VDE 0660/107-IEC/EN 60 947-3

条形熔断器式负荷隔离开关 尺码1-3:250A-630A

Series 2000, according to VDE 0660/107-IEC/EN 60 947-3

NH fuse-switches,vertical design,size1-3:250A-630A

接线形式 Terminal	电流 A	极数 Pole	订货号 Order no.	型号 Description
固定螺母M12 Inserted screw nut M12	250	单极分合 Single pole switching	38614-0000	NH-La-Lei 1N 1P S6
		三极共分合 Three pole switching	38614-0020	NH-La-Lei 1N 3P S6
V-压紧件 V-stamped		单极分合 Single pole switching	38615-0000	NH-La-Lei 1N 1P V2
		三极共分合 Three pole switching	38615-0020	NH-La-Lei 1N 3P V2
固定螺母M12 Inserted screw nut M12	400	单极分合 Single pole switching	38624-0000	NH-La-Lei 2N 1P S6
		三极共分合 Three pole switching	38624-0020	NH-La-Lei 2N 3P S6
V-压紧件 V-stamped		单极分合 Single pole switching	38625-0000	NH-La-Lei 2N 1P V2
		三极共分合 Three pole switching	38625-0020	NH-La-Lei 2N 3P V2
固定螺母M12 Inserted screw nut M12	630	单极分合 Single pole switching	38634-0000	NH-La-Lei 3N 1P S6
		三极共分合 Three pole switching	38634-0020	NH-La-Lei 3N 3P S6
V-压紧件 V-stamped		单极分合 Single pole switching	38635-0000	NH-La-Lei 3N 1P V2
		三极共分合 Three pole switching	38635-0020	NH-La-Lei 3N 3P V2



2000系列条形熔断器式负荷隔离开关尺码1-3挂接式安装

NH Fuse-Switches series 2000,size 1-3,vertical design,with contact hooks

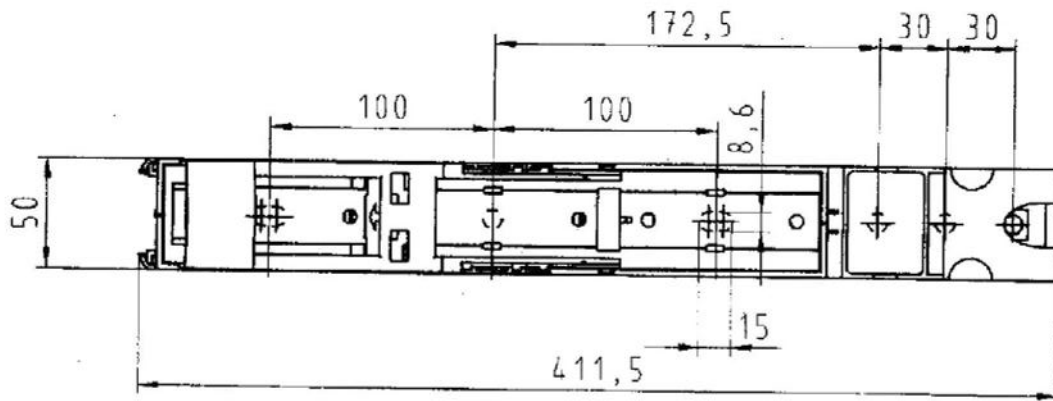
接线形式 Terminal	电 流 A	极数 Pole	订 货 号 Order no.	型 号 Description
固定螺母M12 Inserted screw nut M12	250	单极分合 Single pole switching	38614-1230	NH-La-Lei 1N 1P Bh S6
		三极共分合 Three pole switching	38614-1240	NH-La-Lei 1N 3P Bh S6
V-压紧件 V-stamped		单极分合 Single pole switching	38615-1230	NH-La-Lei 1N 1P Bh V2
		三极共分合 Three pole switching	38615-1240	NH-La-Lei 1N 3P Bh V2
固定螺母M12 Inserted screw nut M12	400	单极分合 Single pole switching	38624-1230	NH-La-Lei 2N 1P Bh S6
		三极共分合 Three pole switching	38624-1240	NH-La-Lei 2N 3P Bh S6
V-压紧件 V-stamped		单极分合 Single pole switching	38625-1230	NH-La-Lei 2N 1P Bh V2
		三极共分合 Three pole switching	38625-1240	NH-La-Lei 2N 3P Bh V2
固定螺母M12 Inserted screw nut M12	630	单极分合 Single pole switching	38634-1230	NH-La-Lei 3N 1P Bh S6
		三极共分合 Three pole switching	38634-1240	NH-La-Lei 3N 3P Bh S6
V-压紧件 V-stamped		单极分合 Single pole switching	38635-1230	NH-La-Lei 3N 1P Bh V2
		三极共分合 Three pole switching	38635-1240	NH-La-Lei 3N 3P Bh V2

尺寸图/Dimensions drawings

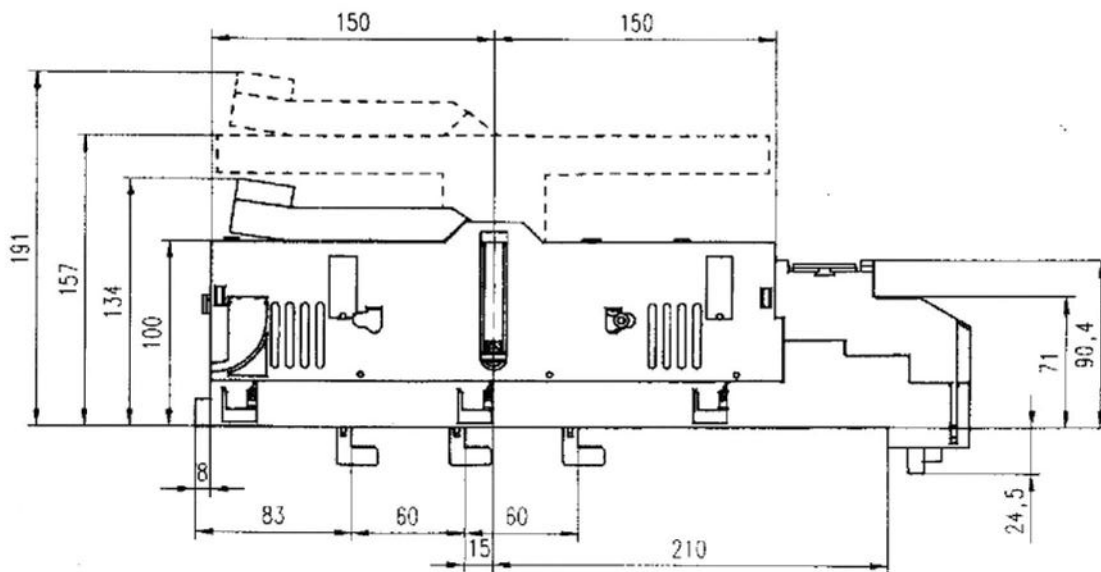
低压熔断器式隔离开关AC 690V三极共分合

NH Fuse-Switches AC 690V three pole switching

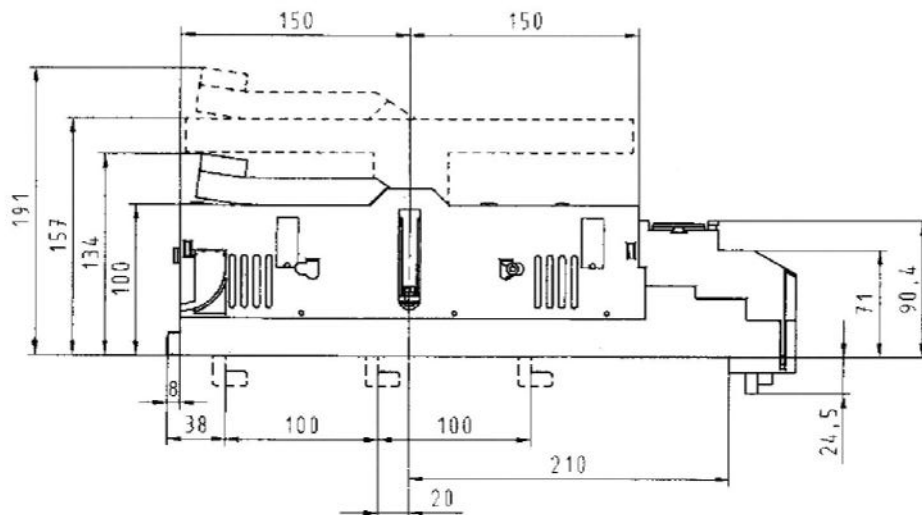
00型/Size 00



安装于中心距60mm母线

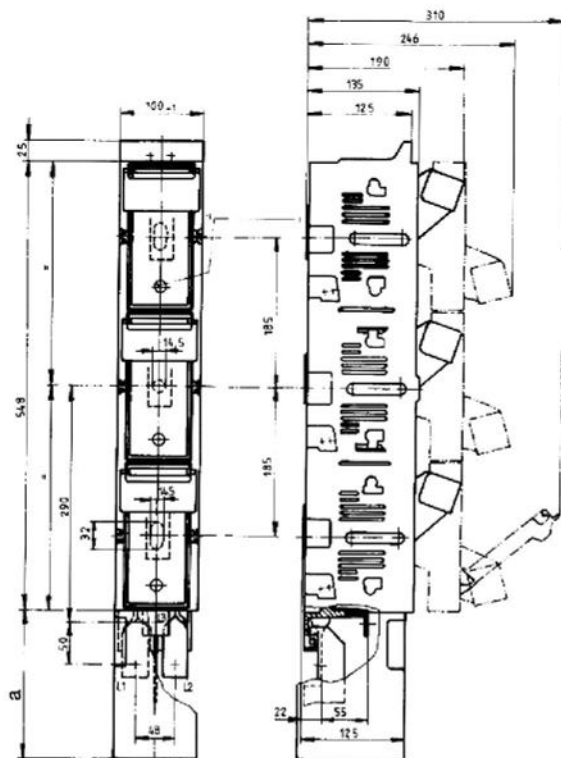


安装于中心距100mm母线



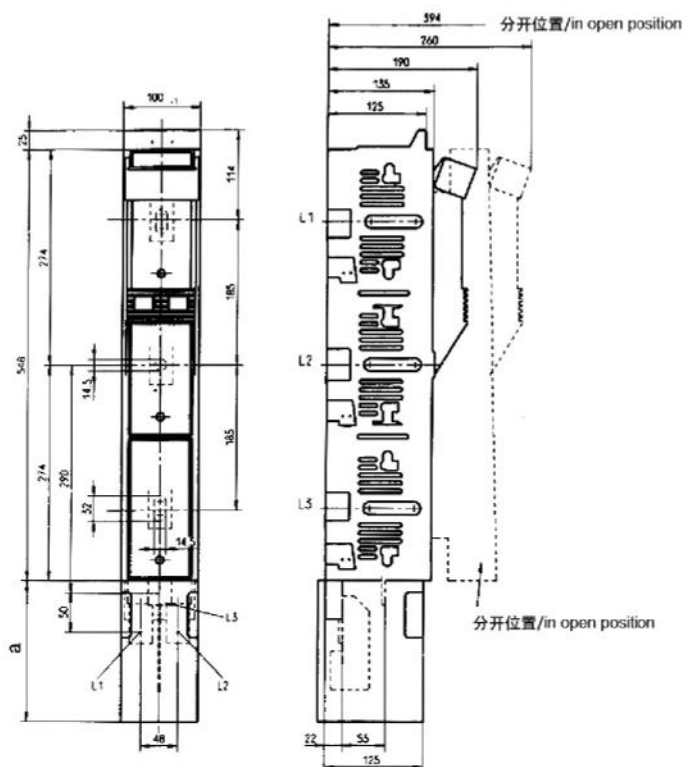
尺寸图/Dimensions drawings
低压熔断器式隔离开关AC 690V 2000系列
NH Fuse-Switches AC 690V series 2000

1-3型/Size 1-3
单极分合/Single pole switching



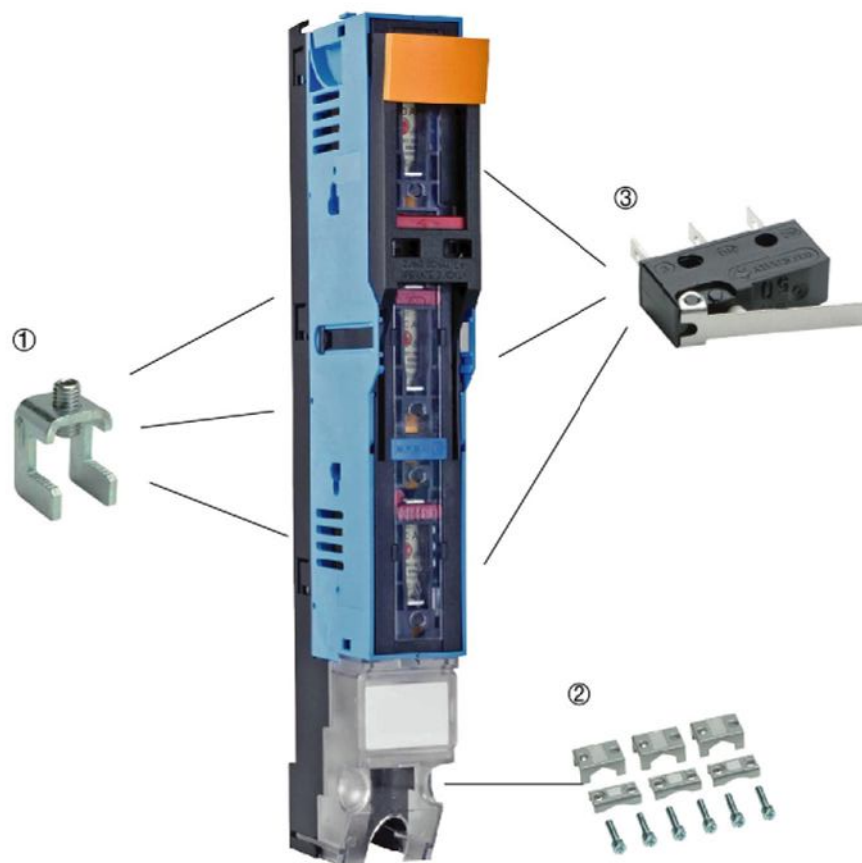
连接形式 Terminal	尺寸 Dim.a
固定螺母M12 Inserted screw nut M12	180
V-压紧件 V-stamped	140

1-3型/Size 1-3
三极共分合/Three pole switching



连接形式 Terminal	尺寸 Dim.a
固定螺母M12 Inserted screw nut M12	180
V-压紧件 V-stamped	140

尺码00开关的配件图/Accessories for size 00

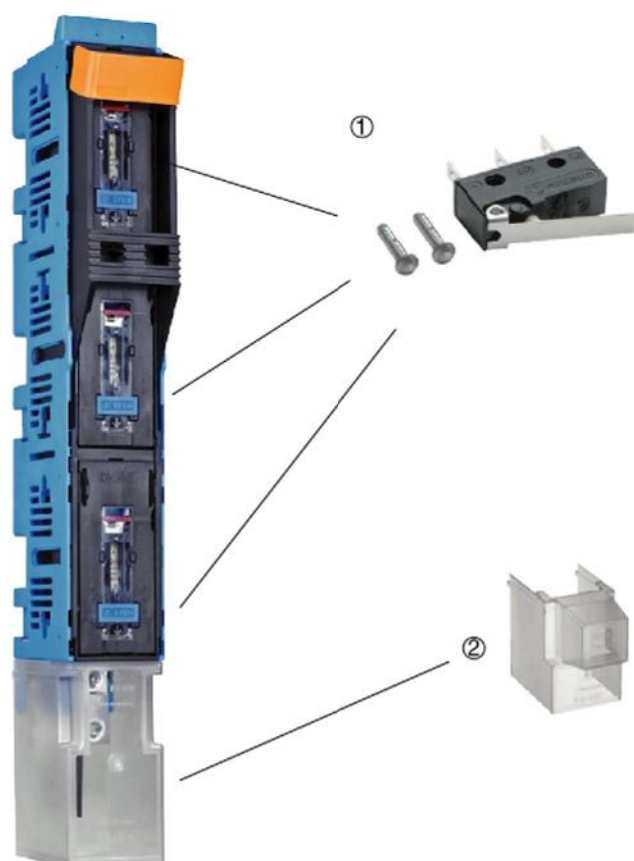


- ① 83536-0100 00型连接挂钩,用于无孔安装于中心距100mm母线/contact hooks for mounting onto adjust frame for size 00
- ② 36239-0010 00型带螺栓和棱形接线压块的线夹, 直接连接1.5-95mm²线缆 (1套=3个)/pressure plates with contact prism for direct connection of cable 1.5-95mm² for size 00(1set=3pieces)
- ③ 36252-0010 00型微动开关/micro switch for size 00

备注: 增加所需配件时, 请联系我们。

Note: If you need more accessories, please contact us.

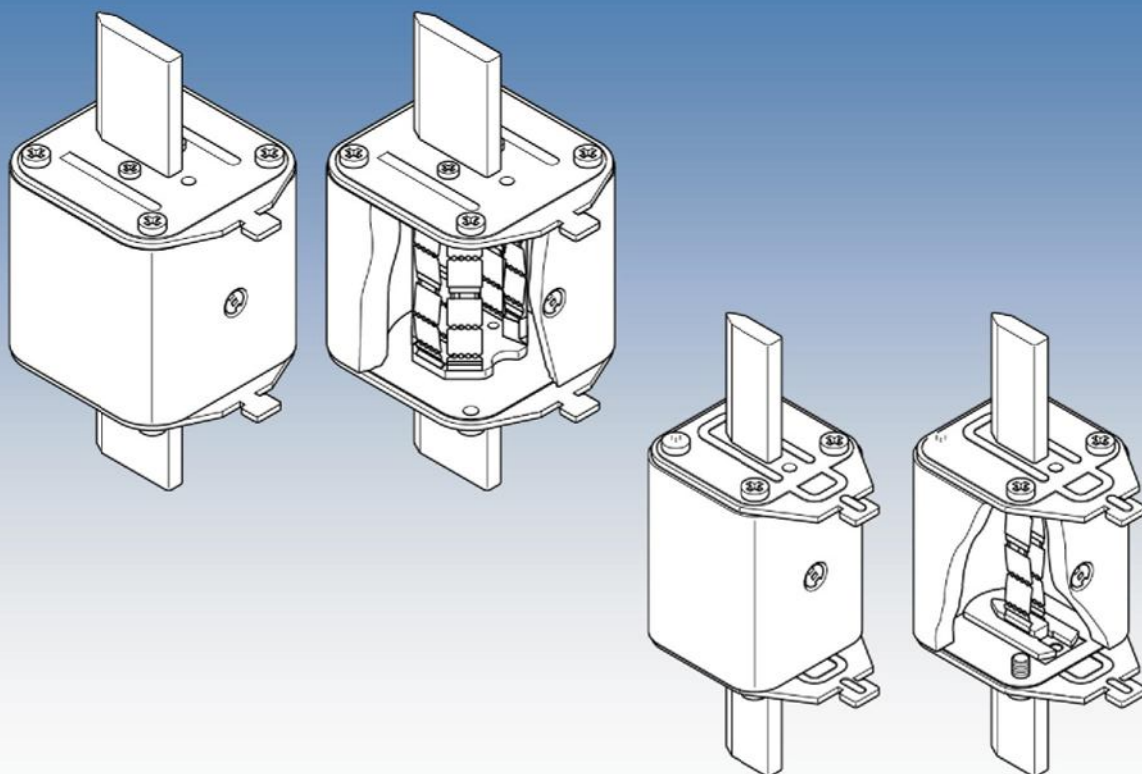
尺码1-3开关的配件图/Accessories for size 1-3



- ① 36107-0010 1-3型微动开关/micro switch for size 1-3
- ② 31319-0100 双线夹保护罩/terminal cover AK3

备注：增加所需配件时，请联系我们。

Note: If you need more accessories, please contact us.



低压高分断能力熔断体

随着我们的传统核心竞争力的不断发展，我们EFEN为低压和中压应用领域提供了符合IEC/DIN标准的全系列熔断体。创新的高科技产品保护了人身和财产安全，同时确保了最大程度的可用性。

NH Fuse-Links

Grow from our traditional core competence, we at EFEN offer a comprehensive range of Fuse-Links according to IEC/DIN standards for low-voltage and medium-voltage applications. Innovative high-tech products protect people and investments and ensure maximum availability.

系统

从EFEN传统核心竞争力发展来的最先进的多系列低压熔断体，在市场中处于领导地位，具有高技术标准，确保了始终如一的高品质。EFEN产品系列为各个应用领域提供了多种解决方案。

System

The wide range of state-of-the-art NH fuse-links grew from EFEN's traditional core competence, taking it to a leading position in the market, with high technical standards and ensuring a consistently high quality. The EFEN product range offers a wide variety of solutions for virtually any application.

特点

EFEN低压高分断能力熔断体符合国内、国际的标准和规范，比如DIN、VDE和IEC标准。EFEN熔断体有绝缘搭扣和非绝缘搭扣供选择。全系列的配件完善了产品范围。

Features

EFEN fuse-links comply with national and international standards and regulations such as DIN, VDE and IEC. The fuse-links are available with insulated and with uninsulated gripping lugs. A full range of accessories complements the product range.

NH-SI 00 160A AC690V gR

订货号 35***-****

Order no. 35***-****

使用类别/Utilization category

无 = gG/N/A=gG

其他/Others=gR,gTr,TF,aM

额定电压/Rated voltage

无 = AC500V/N/A=AC500V

其他/Others=AC400V,AC690V,AC1000V,
DC80V,DC550V

额定电流/Rated current

2A~1600A

尺码/Size

000、00、1、2、3、3L、4a

低压刀型触头熔断体/NH Fuse-link



低压熔断体AC500V gG/NH Fuse-links 500V gG
 技术参数详见第28-30页/See technical data P28-30



描述 Description	尺码 Size	电流 Amps	包装 PU	订货号 Order no.
NH-SI 00 2A GG AC500V	00	2	3	35011-0010
NH-SI 00 4A GG AC500V	00	4	3	35011-0020
NH-SI 00 6A GG AC500V	00	6	3	35011-0030
NH-SI 00 10A GG AC500V	00	10	3	35011-0040
NH-SI 00 16A GG AC500V	00	16	3	35011-0050
NH-SI 00 20A GG AC500V	00	20	3	35011-0060
NH-SI 00 25A GG AC500V	00	25	3	35011-0070
NH-SI 00 32A GG AC500V	00	32	3	35011-0080
NH-SI 00 35A GG AC500V	00	35	3	35011-0090 ¹⁾
NH-SI 00 40A GG AC500V	00	40	3	35011-0100
NH-SI 00 50A GG AC500V	00	50	3	35011-0110
NH-SI 00 63A GG AC500V	00	63	3	35011-0120
NH-SI 00 80A GG AC500V	00	80	3	35011-0130
NH-SI 00 100A GG AC500V	00	100	3	35011-0140
NH-SI 00 125A GG AC500V	00	125	3	35011-0150
NH-SI 00 160A GG AC500V	00	160	3	35011-1090
NH-SI 1/80A GG AC500V	1	80	3	35035-0090
NH-SI 1/100A GG AC500V	1	100	3	35035-0100
NH-SI 1/125A GG AC500V	1	125	3	35035-0110
NH-SI 1/160A GG AC500V	1	160	3	35035-0120
NH-SI 1 200A GG AC500V	1	200	3	35035-0130
NH-SI 1 224A GG AC500V	1	224	3	35035-0140 ¹⁾
NH-SI 1 250A GG AC500V	1	250	3	35035-0150
NH-SI 2/160A GG AC500V	2	160	3	35054-0080
NH-SI 2/200A GG AC500V	2	200	3	35054-0090
NH-SI 2/224A GG AC500V	2	224	3	35054-0100
NH-SI 2/250A GG AC500V	2	250	3	35054-0110
NH-SI 2 300A GG AC500V	2	300	3	35054-0120
NH-SI 2 315A GG AC500V	2	315	3	35054-0130
NH-SI 2 355A GG AC500V	2	355	3	35054-0140 ¹⁾
NH-SI 2 400A GG AC500V	2	400	3	35054-0150
NH-SI 3/400A GG AC500V	3	400	3	35078-0030
NH-SI 3 500A GG AC500V	3	500	3	35078-0050
NH-SI 3 630A GG AC500V	3	630	3	35078-0060
NH-SI 4A 800A GG AC500V	4a	800	1	35097-0030
NH-SI 4A 1000A GG AC500V	4a	1000	1	35097-0040
NH-SI 4A 1250A GG AC500V	4a	1250	1	35097-0050
NH-SI 4A 1600A GG AC500V	4a	1600	1	35097-0110

1) 无CCC证书/Without CCC certificate

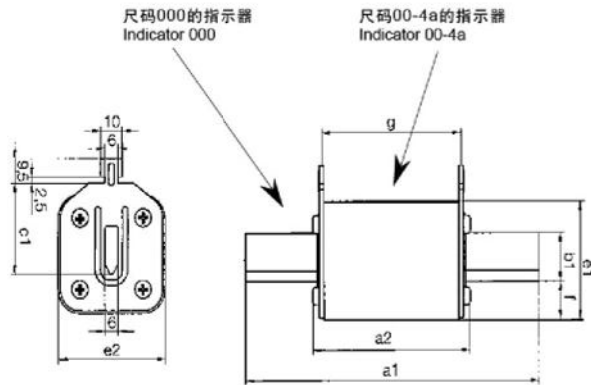
低压熔断体AC690V gG/NH Fuse-links AC690V gG
 技术参数详见第31-32页/See technical data P31-32



描述 Description	尺码 Size	电流 Amps	包装 PU	订货号 Order no.
NH-SI 000 2A GG AC690V	000	2	3	35421-0020
NH-SI 000 4A GG AC690V	000	4	3	35421-0040
NH-SI 000 6A GG AC690V	000	6	3	35421-0060
NH-SI 000 10A GG AC690V	000	10	3	35421-0100
NH-SI 000 16A GG AC690V	000	16	3	35421-0160
NH-SI 000 20A GG AC690V	000	20	3	35421-0200
NH-SI 000 25A GG AC690V	000	25	3	35421-0250
NH-SI 000 32A GG AC690V	000	32	3	35421-0320
NH-SI 000 35A GG AC690V	000	35	3	35421-0350
NH-SI 000 40A GG AC690V	000	40	3	35421-0400
NH-SI 000 50A GG AC690V	000	50	3	35421-0500
NH-SI 000 63A GG AC690V	000	63	3	35421-0630
NH-SI 00 80A GG AC690V	00	80	3	35422-0800
NH-SI 00 100A GG AC690V	00	100	3	35422-1000
NH-SI 00 125A GG AC690V	00	125	3	35422-1250
NH-SI 1/80A GG AC690V	1	80	3	35423-0800
NH-SI 1/100A GG AC690V	1	100	3	35423-1000
NH-SI 1 125A GG AC690V	1	125	3	35423-1250
NH-SI 1 160A GG AC690V	1	160	3	35423-1600
NH-SI 1 200A GG AC690V	1	200	3	35423-2000
NH-SI 1 250A GG AC690V	1	250	3	35423-2500
NH-SI 2/160A GG AC690V	2	160	3	35424-1600
NH-SI 2/200A GG AC690V	2	200	3	35424-2000
NH-SI 2/250A GG AC690V	2	250	3	35424-2500
NH-SI 2 315A GG AC690V	2	315	3	35424-3150
NH-SI 2 355A GG AC690V	2	355	3	35424-3550
NH-SI 2 400A GG AC690V	2	400	3	35424-4000
NH-SI 3 400A GG AC690V	3	400	3	35425-4000
NH-SI 3 500A GG AC690V	3	500	3	35425-5000
NH-SI 3 630A GG AC690V	3	630	3	35425-6300

低压熔断体AC500V gG
NH Fuse-links AC500V gG

尺寸符合标准DIN 436201
Dimensions acc.to DIN 436201



尺码 Size	额定电流 Rated current	a1	a2	b1	c1	e1	e2	g
000		78.5	53	15	35	40	21	47
00	最大/max.160A	78.5	53	15	35	47	30	47
1	最大/max.160A	135	71	15	40	47	30	65
1	200-250A	135	71	20	40	52	40	65
2	最大/max.250A	150	72	20	48	52	40	65
2	300-400A	150	72	26	48	60	51	65
3	最大/max.400A	150	72	26	60	60	51	65
3	500-630A	150	72	33	60	74	70	65
4a		200	96	50	85	109	98	86

电缆和导线保护

- 额定电压: AC500V
- 使用类别:
gG, 符合标准VDE 0636-2和VDE 0636-1
IEC 60269-1和IEC 60269-2
- 应用: 电缆和导线保护
- 分断能力AC: 120kA
- 分断能力DC:
尺码000-00: 25kA, DC250V
尺码1-3: 25kA, DC440V
尺码4a: 35kA, DC440V

For cable and line protection

- Rated voltage: AC500V
- Utilization category:
gG acc.to VDE 0636-2 and VDE 0636-1
IEC 60269-1, IEC 60269-2
- Application: For cable and line protection
- Breaking capacity AC: 120kA
- Breaking capacity DC:
Size000-00: 25kA, DC250V
Size1-3: 25kA, DC440V
Size4a: 35kA, DC440V

电气特性:

时间-电流特性与电缆和导线的容量相匹配。因此, 被保护的线路可以在最佳负荷下运行, 过载时缓慢熔断, 而发生短路时快速熔断。即使使用符合规范的不同品牌的熔断体, gG型熔断体的时间-电流带的定义均是符合标准VDE 0636和IEC 60269, 确保了1:1.6的选择性(当额定电流 ≥ 16 A时)。

Electrical characteristics:

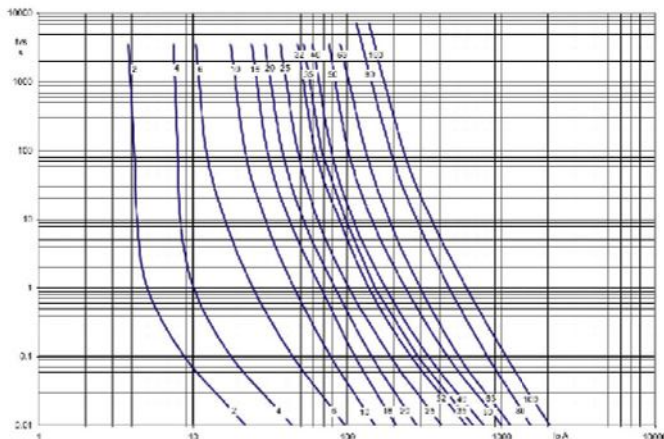
The time/current characteristics are matched to the cable and line capacities. Accordingly, the lines protected can be operated at optimal load as the breaking in case of overload is slow, but quick in the event of a short-circuit. Even if devices of different brands are used that comply with the specifications, the definition of time-current ranges for category gG according to VDE 0636 and IEC 60269 ensures a selectivity of 1:1.6 (at rated currents of ≥ 16 Amps.)

低压熔断体AC500V gG
NH Fuse-Fuse AC500V gG

电缆和线路保护时间 电流特性曲线 尺码000 符合VDE 0636-2和IEC/EN 60269-2

For cable and line protection

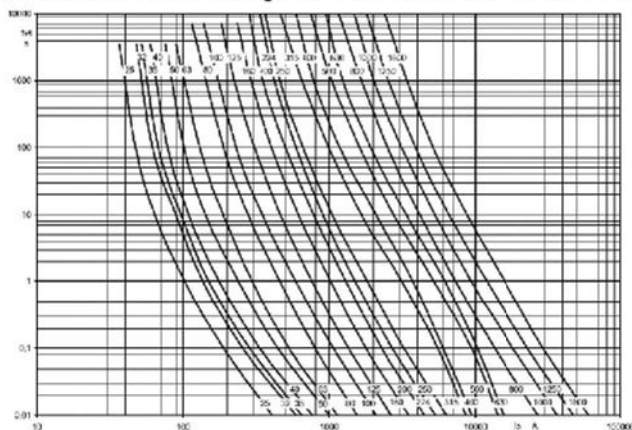
Time-current characteristics NH Fuse-lines size 000 acc.to VDE 0636-2 and IEC/EN 60269-2



电缆和线路保护 时间电流曲线 尺码00-4a符合VDE 0636-2和IEC/EN 60269-2

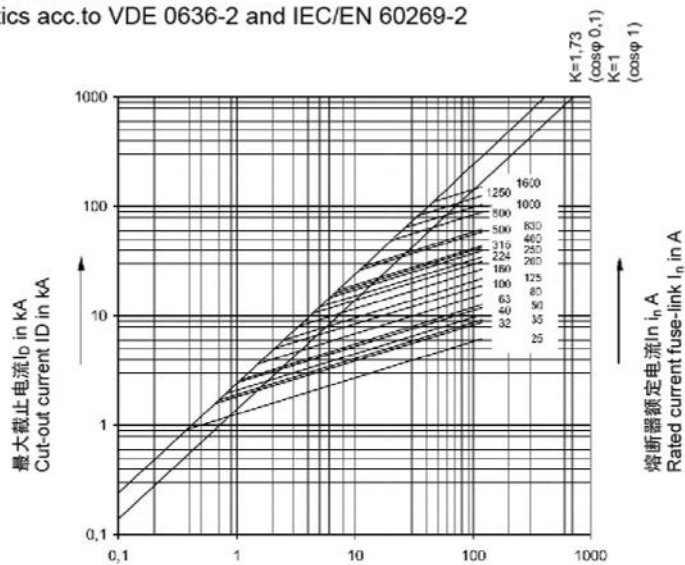
For cable and line protection

Time-current characteristics NH Fuse-lines size 00-4a gG AC500V acc.to VDE 0636-2 and IEC/EN 60269-2



截止电流特性 符合VDE 0636-2和IEC/EN 60269-2

Cut-out current characteristics acc.to VDE 0636-2 and IEC/EN 60269-2



I_p 取决于故障点处的预期短路电流 I_k (DIN/VDE 0102第二部分)

I_p acc.to prospective short-circuit current I_k at point of fault(DIN/VDE 0102 part 2)

低压熔断体AC500V gG
NH Fuse-Links AC500V gG

额定功率损耗Pa 尺码000-4a符合标准VDE 0636-2和IEC/EN 60269-2

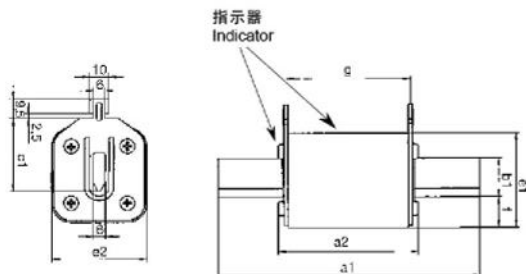
Rated power dissipation Pa NH Fuse-links size 000-4a gG AC500V acc.to VDE 0636-2 and IEC/EN 60269-2

In A	尺码/Size					
	000	00	1	2	3	4a
6	1.6					
10	1.1					
16	1.8		1.8			
20	2.3		2.3			
25	2.4	2.4	2.4			
32	3.1	3.1	3.1			
35	3.0	3.0	3.0			
40	3.7	3.7	3.7			
50	4.1	4.1	4.1	4.1		
63	5.4	5.6	6.6	6.8		
80	6.5	6.8	8.0	8.3		
100	7.5	7.5	9.4	10.7		
125		10.0	11.8	12.2		
160		12.0	14.6	15.0		
200			18.0	18.5		
224			19.0	19.2	20.0	
250			20.0	20.6	21.1	
315				25.0	25.0	
355				31.5	32.0	
400				28.5	34.0	31.2
500					43.0	36.5
630					43.1	44.4
800						68.0
1000						72.9
1250						100.5
1600						126.2

尺码000-4a低压熔断体的弧前焦耳积分值 I^2t 和熔断焦耳积分值 I^2t , 单位 A^2s , 符合标准VDE0636-2和IEC/EN 60269-2
Pre-arcing integrals and operating integrals in A^2s of NH Fuse-links size 000-4a gG AC500V acc.to VDE 0636-2 and IEC/EN 60269-2

In A	尺码/Size											
	000		00		1		2		3		4a	
	弧前 Pre-arcing	熔断 Operating	弧前 Pre-arcing	熔断 Operating	弧前 Pre-arcing	熔断 Operating	弧前 Pre-arcing	熔断 Operating	弧前 Pre-arcing	熔断 Operating	弧前 Pre-arcing	熔断 Operating
6	53.6	280										
10	109	490										
16	199	890										
20	430	1930										
25	890	4010	890	4010	990	4010	990	4010				
32	2475	6900	2475	6900	2475	6900	2475	6900				
35	2990	8380	2990	8380	2990	8380	2990	8380				
40	3970	10100	3970	10100	3970	10100	3970	10100				
50	6330	16150	6330	16150	6330	16150	6330	16150				
63	7430	20800	7430	20800	7430	20800	7430	20800	7430	20800		
80	14250	39900	14250	39900	14250	39900	14250	39900	14250	39900		
100	25340	70900	25340	70900	25340	71000	25340	71000	25340	71000		
125			39600	110800	39600	111000	39600	111000	39600	111000		
160			70400	197100	70400	197100	70400	197100	70400	197100		
200					114400	320000	114400	320000	114400	320000		
224					158400	444000	158400	444000	158400	444000		
250					228000	639000	228000	639000	228000	639000		
315							275900	773000	275900	773000		
355							356400	998000	356400	998000		
400							431200	1207000	431200	1207000	610500	927000
500									766600	2147000	1025 10 ³	1618 10 ³
630									912300	3013000	1767 10 ³	2600 10 ³
800											3499 10 ³	5449 10 ³
1000											5878 10 ³	8708 10 ³
1250											12164 10 ³	18676 10 ³
1600											20347 10 ³	31278 10 ³

低压熔断体AC690V gG
 NH Fuse-links AC690V gG
 尺码符合标准DIN 43620-1
 Dimensions acc.to DIN 43620-1



尺码 Size	额定电流 Rated current	a ₁	a ₂	b ₁	c ₁	e ₁	e ₂	g
000	2-63A	78.5	53	15	35	37	21	47
00	80-100A	78.5	53	15	35	45	30	47
1	25-160A	135	70	15	40	45	30	65
1	200-250A	135	70	20	40	50	50	65
2	25-250A	150	71	20	48	50	50	65
2	315-400A	150	71	26	48	58	58	65
3	63-400A	150	71	26	60	58	58	65
3	500A,630A	150	74	32	60	71	71	65

电缆和导线保护

- 额定电压: AC690V
- 使用类别:
gG, 遵循标准VDE 0636-2和VDE 0636-1
IEC 60269-2和IEC 60269-1
- 应用: 电缆和导线保护
- 分断能力AC: 100kA(630A,50kA)
- 分断能力DC:
尺码000-00: 25kA, DC250V
尺码1-3: 25kA, DC440V

For cable and line protection

- Rated voltage: AC690V
- Utilization category:
gG acc.to VDE 0636-2 and VDE 0636-1
IEC 60269-2,IEC 60269-1
- Application: For cable and line protection
- Breaking capacity: AC100kA(630A,50kA)
- Breaking capacity DC:
Size000-00: 25kA, DC250V
Size1-3: 25kA,DC440V

电气特性:

时间-电流特性与电缆和导线的容量相匹配。因此, 被保护的线路可以在最佳负荷下运行, 过载时缓慢熔断, 而发生短路时快速熔断。

Electrical characteristics:

The time/current characteristics are matched to the cable and line capacities. Accordingly, the lines protected can be operated at optimal load as the breaking in case of overload is slow, but quick in the event of a short-circuit.

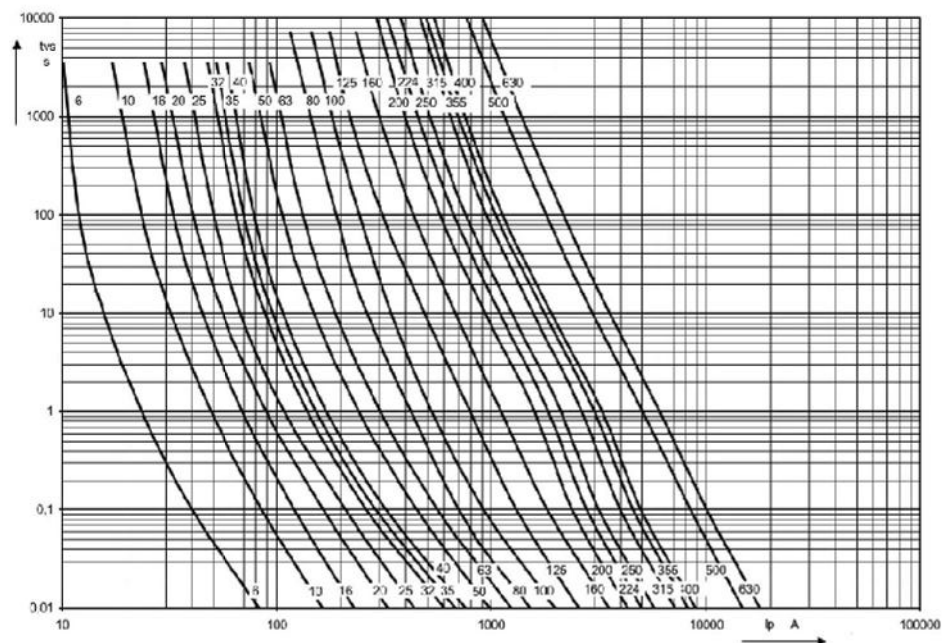
低压熔断体尺码000-3 AC690V额定功率损耗Pa(w)
 符合标准VDE 0636-2、IEC 60269-2

Rated power dissipation Pa in Watts NH Fuse-links size 000-3 gG
 AC690V acc.to VDE 0636-2,IEC 60269-2

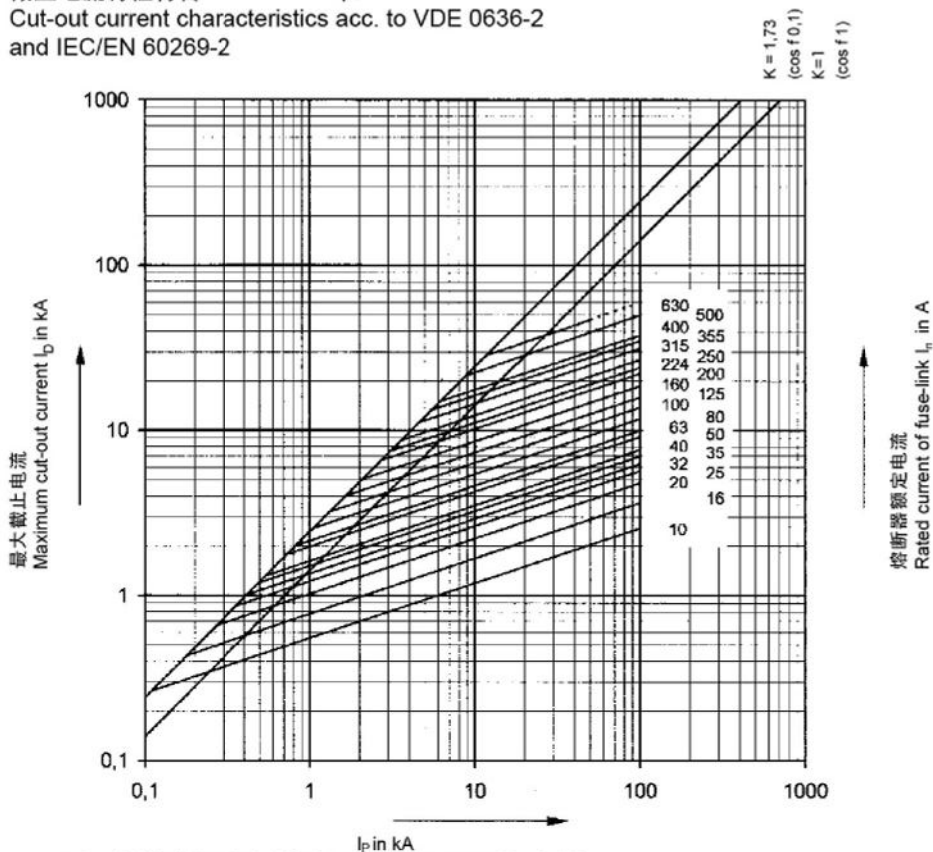
In A	尺码/Size				
	000	00	1	2	3
2	1.9				
4	1.5				
6	1.6				
10	1.7				
16	2.5				
20	2.6				
25	2.8		3.6		
32	3.1		3.7		
35	3.2		3.9	3.7	
40	3.7		4.4	4.4	
50	4.1		4.8	5.4	
63	5.4		6.6	6.8	
80		6.8	8.0	8.3	
100		7.5	9.4	10.7	
125		10.0	11.8	12.2	
160			14.6	15.5	
200			19.0	19.0	
224					
250			22.0	22.0	21.1
315				27.0	25.0
355				32.0	32.0
400					34.0
500					43.0
630					52.0

低压熔断器AC690V gG
NH Fuse-links AC690V gG

电缆和线路保护 时间电流曲线符合标准VDE 0636-2和IEC/EN 60269-2
For cable and line protection
Time-current characteristics acc.to VDE 0636-2 and IEC/EN 60269-2



截止电流特性符合VDE 0636-2和IEC/EN 60269-2
Cut-out current characteristics acc. to VDE 0636-2
and IEC/EN 60269-2



I_p 取决于故障点处的预期短路电流 I_k (DIN/VDE 0102 第二部分)
 I_p acc. to prospective short-circuit current I_k at point of fault (DIN/VDE 0102 part 2)



Efficient Distribution

When it comes to reliable power supply, replacing nuclear power by renewable energies is one of the greatest challenges. To this end, EFEN offers consistent solutions for safety interfaces from power generation to power storage and to the selective control of consumers.



Reliable Protection

Reliable protection of people and assets is a key requirement of any power distribution system. The comprehensive solutions from EFEN ensure maximum safety in all areas of power supply, infrastructure and industry.



Smart Control

Higher energy efficiency reduces peak loads and lowers energy costs. Early-warning systems reduce minimal unplanned plant downtimes to the minimum. Smart solutions from EFEN ensure reliable communication and maximum availability of power distribution systems.

高效配电

当涉及到可靠的电力供应，以可再生能源取代核能是最大的挑战之一。为达到这个目的，EFEN为安全的接口提供一致的解决方案，从发电到电力储存和消费者的选择性控制。

可靠保护

人员和财产可靠的保护是任何配电系统的关键要求。EFEN的全面解决方案确保电力供应，基础设施和工业的所有领域最大的安全性。

智能控制

高效节能减少了峰值负荷，并降低能源成本。预警系统可将计划外停产时间减少到最小程度。EFEN的智能解决方案，确保配电系统的可靠通讯和最大的可用性。

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