



MEV 真空断路器

MEV Vacuum Circuit Breaker

用户手册

User Manual

注意事项！

在断路器安装使用前请仔细阅读本使用手册：

断路器的安装和使用必须遵守本手册的要求。

断路器的使用场合应符合户内正常的环境使用条件。

对断路器的任何操作和维护都应该由经过专业培训的专职电气人员进行。

禁止把断路器置于超出其额定参数的情况下运行。

必须注意断路器的任何标识。

必须保证断路器的联锁条件和工作规程的适用性和安全性。

不能在开关柜及二次控制回路带电的情况下从事检修工作。

必须确保断路器不受任何外力的冲击，否则将损坏设备。

对断路器的任何违规操作均可能损坏设备，甚至引起严重事故。

应把本手册放在可以方便拿到的地方。

应由专业人员负责断路器的安全管理。

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1.概述

1-1 总则:

MEV 真空断路器 (以下简称断路器) 适用于交流50Hz, 额定电压1500/2000V, 额定电流5000A及以下的配电网中, 用来分配电能和保护线路及电源设备免受过载、欠电压、短路、单相接地等故障的危害, 该断路器具有智能化保护功能, 选择性保护精确、能提高供电可靠性。

1-2 引用总则:

MEV 断路器符合以下标准:

GB/T 14048.2 《低压开关设备和控制设备 第2部分: 断路器》

GB/T 1984 《高压交流断路器》

IEC 62271-100 《高压交流断路器》

IEC 60694 《高压开关设备和控制设备标准的共用技术要求》

1-3 正常使用条件:

环境温度

最高温度: +70℃

最低温度: -25℃ (可定制-40℃, 在订货时注明)

最高日平均温度: + 35℃

环境湿度

日平均相对湿度: ≤95%

月平均相对湿度: ≤90%

日平均饱和蒸汽压: ≤2.2X10⁻³MPa

月平均饱和蒸汽压: ≤1.8X10⁻³MPa

海拔高度: ≤2000m, 常规产品满足海拔2000m以下使用, 高海拔产品需在订货时注明。

地震强度: ≤8度

其他: 使用场所无易燃和爆炸危险, 无化学腐蚀性气体以及无剧烈震动。

注: 当使用环境不同或有其它特殊要求时需与制造厂协商。

2.结构原理

2-1 主体结构

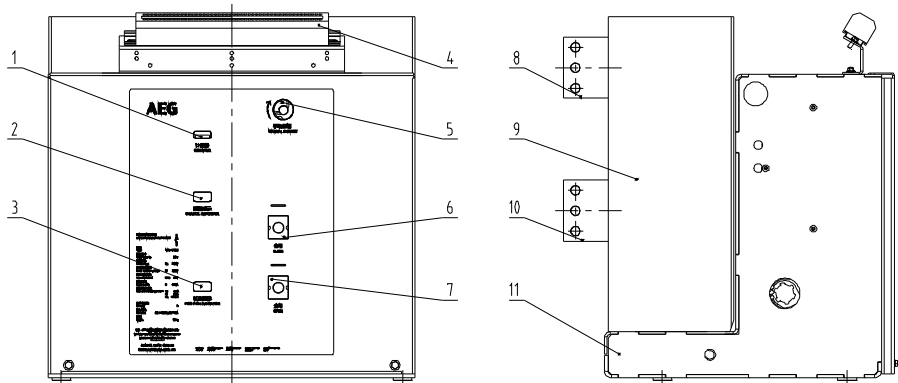
断路器的导电回路为绝缘框结构, 导电回路设置在绝缘件内, 这种结构能有效的防止外力冲击、具有良好的散热性, 断路器导电回路安装在机构箱后部, 与机构连成一个整体。

断路器在合闸位置时主回路电流路径为: 由固定在真空灭弧室上的上支架, 到真空灭弧室内部静触头, 经动触头及其连接的导电夹、软连接, 至下出线座, 由绝缘拉杆与内部碟形弹簧经过断路器连杆来完成断路器的操作运动及保持触头接触。

2-2 操作机构

断路器操作机构为弹簧储能机构, 机构箱内有合闸单元、一个或几个线圈组成的分闸单元、辅助开

关、指示装置等部件；前方设有合分闸按钮、手动储能操作孔、弹簧储能状态指示牌、合分闸指示牌。



- | | | |
|----------|----------|---------|
| 1 计数器 | 2 储能指示 | 3 合分闸指示 |
| 4 二次接线端子 | 5 手动储能操作 | 6 合闸按钮 |
| 7 分闸按钮 | 8 引出排上 | 9 绝缘框 |
| 10 引出排下 | 11 框架 | |

2-2-1 储能

断路器合闸所需要的能量由合闸弹簧提供，储能即可以由电机电动完成，也可以使用储能手柄手动完成。

2-2-2 合闸

在合闸过程中，不论用手动按下“合闸”按钮或远方操作使合闸脱扣电磁铁动作，均可使断路器进行合闸操作。

注：当断路器已处于合闸状态，不能进行再次合闸操作。

2-2-3 分闸

既可按“分闸”按钮，也可接通外部电源使分闸脱扣电磁铁或过流脱扣电磁铁动作，使断路器实现分闸操作。

2-2-4 欠压保护功能

断路器合闸动作完成后，分闸保持掣子与轴保持在合闸位置，二次控制电压小于等于额定电压90%时，欠压模块必须启动对元件储能，进入保持状态；当二次控制电压下降至额定电压的65%时，欠压模块能量释放给断路器的分闸线圈，使分闸保持掣子与分闸半轴解锁从而实现分闸操作。

3.技术参数

MEV真空断路器技术数据										
分断能力代号		S				H				
额定电流 In	A	2500	3200	4000	5000	2500	3200	4000	5000	
极数		3P								
额定工作电压 Ue	V	AC1500				AC2000				
额定绝缘电压 Ui	V	3600				3600				
额定冲击耐受电压 Uimp	kV	40				40				
额定工频耐受电压 1min	kV	20				20				
使用类别		B				B				
隔离功能		Yes				Yes				
短路分断 GB/T14048.2, AC1500/2000V										
额定极限短路分断能力 Icu	kA	50	50	50	50	66	66	66	66	
额定运行短路分断能力 Ics	kA	50	50	50	50	66	66	66	66	
额定短路开断程序	kA	O-CO-CO-CO-CO-CO-CO-CO				O-CO-CO-CO-CO-CO-CO				
额定短路耐受电流 Icw(1s)	kA	50	50	50	50	66	66	66	66	
额定短路接通能力 Icm	kA	105	105	105	105	145	145	145	145	
短路开断和关合 GB/T1984		E1级 (AC1500/2000V)								
分闸时间	ms	20~50								
合闸时间	ms	25~60								
安装										
固定式	宽度	mm	388	540	540	580	388	540	540	580
	高度	mm	540	540	540	558	540	540	540	558
	深度	mm	425	482	482	482	425	482	482	482
标准接线方式			后水平	后垂直	后垂直	后垂直	后水平	后垂直	后垂直	后垂直
重量	kg	140	155	170	190	140	155	170	190	
操作性能										
机械寿命, 弹操机构	有维护	次	60000	50000	50000	50000	60000	50000	50000	50000
	无维护	次	40000	30000	30000	30000	40000	30000	30000	30000
电气寿命, 弹操机构	有维护	次	60000	50000	50000	50000	60000	50000	50000	50000
	无维护	次	40000	30000	30000	30000	40000	30000	30000	30000

主回路电阻	$\mu\Omega$	≤ 9	≤ 8	≤ 9	≤ 8
操作顺序		分-180s-合分			
飞弧距离	mm	0			

4.型号解释

MEV	H			3		F		40		S	
产品系列	分断能力			极数		安装方式		额定电流		操作机构	
ME 系列 真空断路器	S	Icu	50	3	3 极	F	固定式	25	2500A	S	弹簧机构
		Ics	50					32	3200A		
		Icw	50					40	4000A		
	H	Icu	66					50	5000A		
		Ics	66								
		Icw	66								

注：

分断能力：分断能力是在 AC1500V、AC2000V 电压下的短路分断电流

- S 分断适用于 2500-5000A, AC1500V

- H 分断适用于 2500-5000A, AC2000V

标准配置：

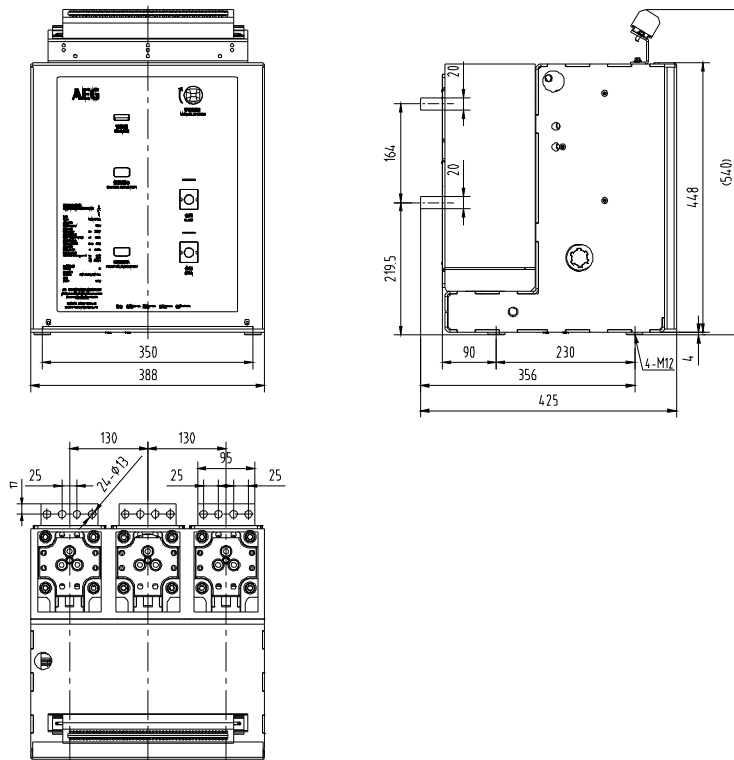
- 固定式断路器本体
- 储能电机，合闸线圈，分闸线圈- 6NO+6NC 辅助触点

选型示例

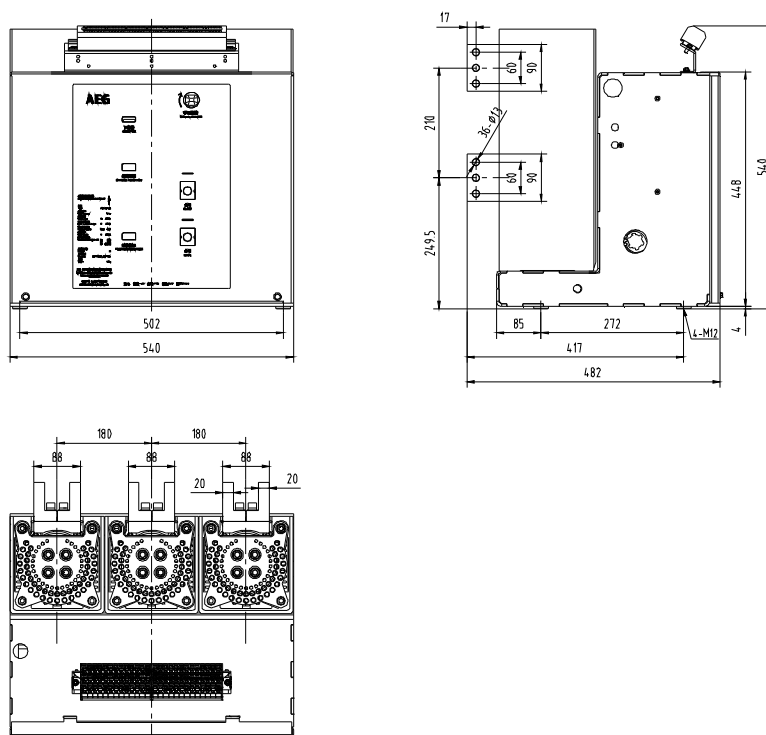
需求：额定电流 4000A, 3P, 固定式, 短路分断能力 66kA, 弹簧操作机构, 型号：MEVH3F40S

5.外形尺寸

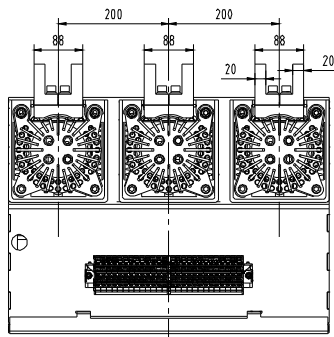
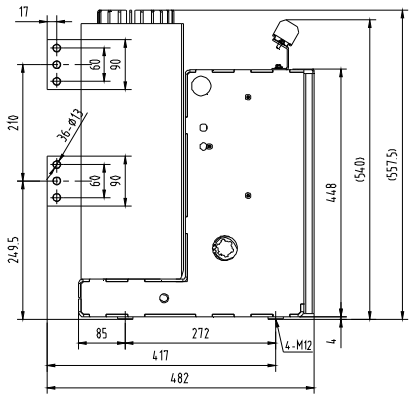
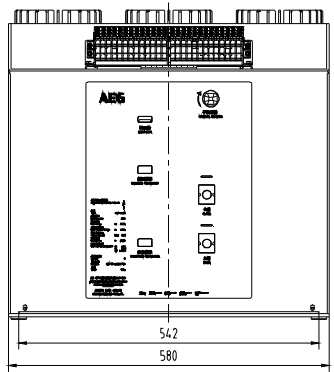
● 2500A-相距130mm



● 3200/4000A-相距180mm

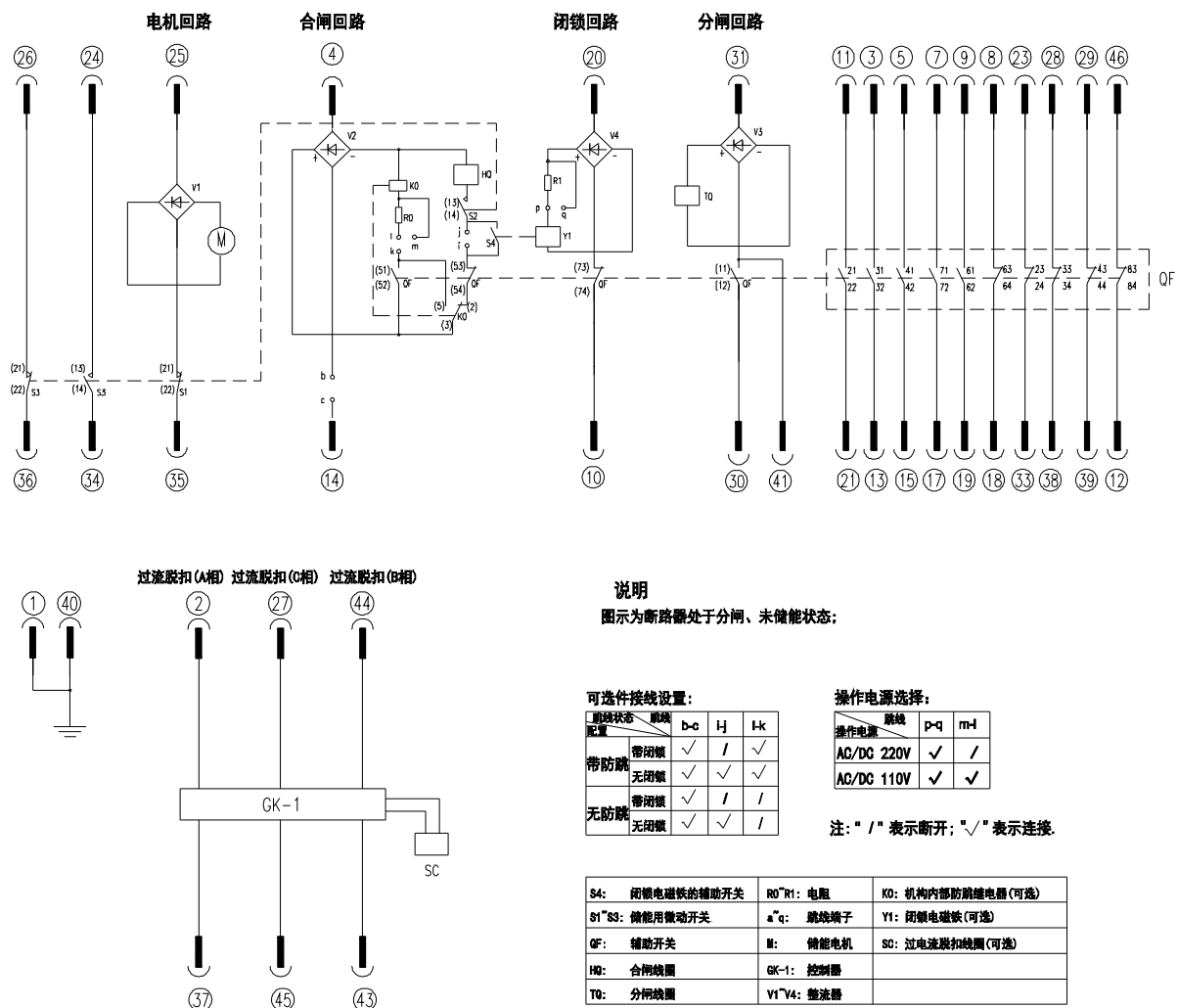


● 5000A-相距200mm



6.电气原理图

● 固定式（端子）



7.安装、调试与操作

7-1 断路器从包装箱中起吊时，挂钩应挂在断路器上有起吊标志的起吊位置处，移动时不得使上、下引出排受力，同时不应让断路器受到较大的冲击震动。

7-2 安装在开关柜中的断路器不应受到拉力或变形，在底部安装点的螺栓需加碟形弹簧垫片。连接引出排时，不能使引出排受到永久性的拉力，压力。连接时，需用强度为 ≥ 8.8 级的螺栓，并使用碟形弹簧来紧固。

7-3 在操作中遇到问题，如不能解决，请与制造厂联系，切勿自行拆装。

7-4 调试与操作中的各项工作应由受过专门培训、详细了解本断路器性能的人员进行，工作中必须考虑相应的保护和预防措施。

无故障操作前提之一是按GB和IEC标准相应的规定，在正常工作条件下使用断路器。

- 检查断路器有无损坏或任何其它有危害性的环境影响。若有此现象，通电前应先排除以恢复到正常的工作条件。

- 清除污垢，尤其是绝缘件表面的脏污。这些可能是由于在运输或储存过程造成的脏污会影响产品绝缘性能。

- 检查一次回路接触、二次回路连接和接地体的连接状态。

- 手动操作试验。

8.维护与保养

必须由AEG公司人员或对本设备熟悉并经培训合格的用户方人员进行维修。如由用户方人员进行维修，则由用户方承担相应维修后果责任。

8-1 在正常使用期间，断路器免维护。由于断路器具有结构简单和耐用的特点，因此有很长的使用寿命。维护工作与零部件受磨损和老化情况有关。为使断路器可靠工作，所需进行的维护工作的间隔时间和检修范围将取决于工作环境的影响、操作次数、运行时间以及短路电流开断的次数等诸因数。

8-2 在进行维护工作前，所有的辅助电源均必须断开且没有再送电的危险。断路器本身处于分闸且弹簧未储能状态。为防止意外事故，在对操作机构上进行的各项工作应格外小心。

8-3 拆卸和更换断路器零部件，应由AEG公司人员或相应的受过培训的人员来实施，特别是在重新装配期间，需做必要的调整。

8-4 断路器维护保养

在运行满5年时（从新设备投入运行开始日计）或断路器操作满两万次时，需对结构进行检查：

- 切断储能电源，操作断路器合、分闸各一次以使机构释能。
- 检查滚动或滑动轴承表面的润滑脂情况
- 在电气和机械动作时检查各个元件功能的正确性。
- 做全面外观检查。

如有更换零部件重新装配设备时，应更换所有的紧固件。

在一些特殊使用场合或有损害的环境条件下运行的开关设备（如在高污秽和重腐蚀性气体的环境条件中），上述检查工作的最短间隔时间应小于5年。

9.运输与储存

9-1 产品运输时，断路器应处于分闸且弹簧未储能的状态下装入封闭的包装箱内加以固定，内置适量干燥剂。断路器应用塑料薄膜加以保护，以防在装卸时渗入水和在存储时侵入灰尘。

9-2 装卸包装箱应采用以下工具

- 起重机
- 叉车
- 行车

9-3 运输途中应注意如下事项：

- 避免冲击

- 避免其它破坏性的机械力
- 起吊器具不应搭钩在断路器本体或操作机构上。而应搭钩在断路器有起吊标志的起吊位置上。

9-4 断路器储存须处于操作机构分闸、储能弹簧未储能状态。

储存基本要求

- 干燥且通风良好的储存室，气候条件符合GB、IEC的有关规定。
- 储存室温度不低于-25℃。
- 不要拆卸或损坏包装物。用保护性的轻质覆盖物遮盖，并保持足够的空气流通。
- 定期检查是否有凝露现象等不适宜储存要求的状况。

10.随机文件

- 产品合格证
- 出厂检验报告
- 装箱单

11.备品备件

当用户需要时，可按照下述清单确定所需备件，并在订货时提出，以备不时之需。

订货号 (SAP)	产品型号
26400056	过流脱扣线圈 (Y8)
36490042	过流线路板
26490381	合闸闭锁电磁铁 110V (S4)
26490780	合闸闭锁电磁铁 220V (S4)
26490463	合分闸控制线路板 (需注明: 操作电压、有无防跳、有无闭锁)
26490092	合分闸辅助开关 (QF)
26490580	储能微动开关 (S1、S2、S3)
26400055	合分闸线圈 (110V)
26400054	合分闸线圈 (220V)
26490375	断路器储能电机 (100W/110V)
26490359	断路器储能电机 (100W/220V)
26441247	储能手柄

Caution!

Please read this manual carefully before installing and using the circuit breaker:

The installation and use of circuit breakers must comply with the requirements of this manual.

Circuit breaker should be used in accordance with the normal indoor environmental conditions.

Any operation and maintenance of the circuit breaker should be carried out by professional trained full-time electrical personnel.

It is forbidden to operate the circuit breaker beyond its rated parameters.

Attention must be paid to any identification of circuit breakers.

It is necessary to ensure the applicability and safety of interlocking conditions and working procedures of circuit breakers.

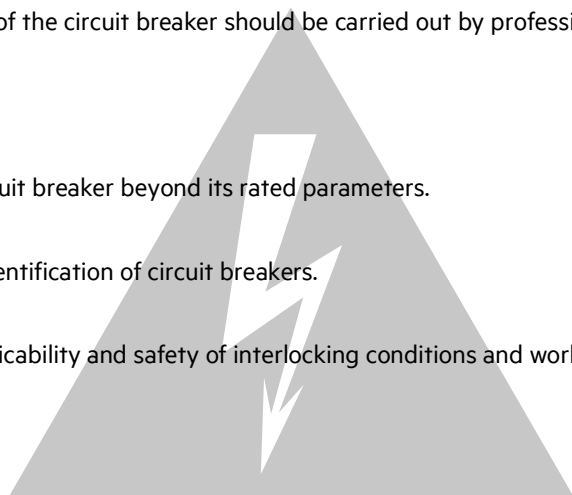
It is not allowed to carry out maintenance work when the switch cabinet and secondary control circuit are charged.

It must be ensured that the circuit breaker is not impacted by any external force, otherwise the equipment will be damaged.

Any illegal operation of the circuit breaker may damage the equipment and even cause serious accidents.

This manual should be placed in a convenient place.

Professional personnel should be responsible for the safety management of circuit breakers.



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1. Overview

1-1 General:

MEV vacuum circuit breaker (hereinafter referred to as circuit breaker) is suitable for AC 50Hz, rated voltage 1500/2000V, rated current 5000A and below in the distribution network, used to distribute electric energy and protect lines and power equipment from overload, undervoltage, short circuit, single-phase grounding and other faults, the circuit breaker has intelligent protection function, selective protection is accurate, can improve the reliability of power supply.

1-2 General provisions:

MEV breaker complies with the following standards:

GB/T 14048.2	Low-voltage switchgear and controlgear-Part 2 :Circuit-breakers
GB/T 1984	High-voltage alternating-current circuit-breakers
IEC 62271-100	High-voltage switchgear and controlgear - Part 100: Alternating current circuit-breakers
IEC 60694	Common specifications for high-voltage switchgear and controlgear standards

1-3 Normal operating conditions:

Ambient temperature

Maximum temperature: + 40°C

Minimum temperature: - 25°C (-40 °C, Indicate at the time of ordering)

Maximum daily average temperature: + 35°C

Ambient humidity

Daily average relative humidity: ≤95%

Monthly average relative humidity: ≤90%;

Daily average saturated vapor pressure: ≤2.2×10⁻³ Mpa

Monthly average saturated vapor pressure: ≤1.8×10⁻³ Mpa

Altitude: ≤ 2000m, conventional products can be used below 2000m above sea level, and high-altitude products need to be noted when ordering.

Earthquake intensity: ≤8 degrees

Others: no inflammable and explosion hazard, no chemical corrosive gas and no violent vibration.

Note: in case of different use environment or other special requirements, it is necessary to consult with the manufacturer.

2. Structural principle

2-1 Main structure

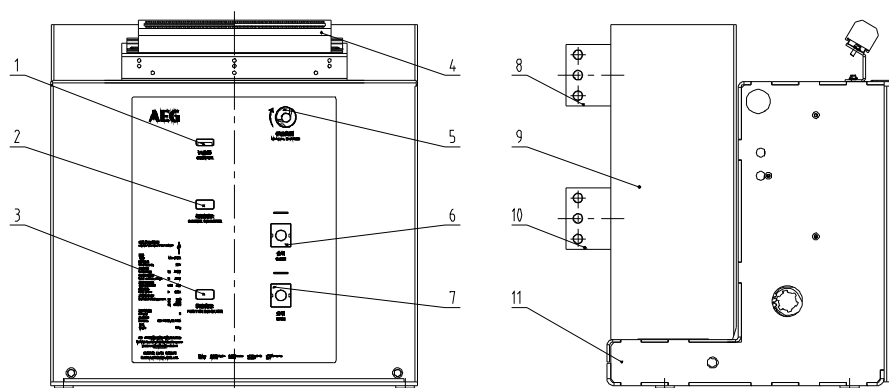
The conductive circuit of the circuit breaker is a fixed structure, and the conductive circuit is set in the insulating parts. This structure can effectively prevent the influence of external factors such as external force impact and pollution environment on the vacuum interrupter. The conductive circuit of the circuit breaker is installed at the back of the mechanism box and connected with the mechanism as a

whole.

Primary circuit current route: when breaker is at the closing position, current flow from the upper terminal to the upper bracket , which is fixed in the arc quenching chamber, then into the vacuum interrupter contacts, the movable contact, and connection of conductive clips, soft connection, to the lower terminal, the insulating pull rod and the internal disc spring pass through the connecting rod of the circuit breaker to complete the operation movement of the circuit breaker and keep the contact.(Fig.2)

2-2 Operating mechanism

The operating mechanism of the circuit breaker is a spring energy storage mechanism. There are closing unit, opening unit composed of one or several coils, auxiliary switch, indicating device and other components in the mechanism box; the front is provided with closing and opening button, manual energy storage operation hole, spring energy storage status indicator board and closing and opening indicator board.(Fig.1,2)



- | | | |
|----------------------------|-----------------------------------|----------------------------------|
| 1 Counter | 2 Energy Storage Indication | 3 Closing and Opening Indication |
| 4 Secondary terminal block | 5 Manual energy storage operation | 6 Closing button |
| 7 opening button | 8 Upper lead out row | 9 insulating frames |
| 10 Lower lead out row | 11 frames | |

2-2-1 Energy storage

The energy required for closing the circuit breaker is provided by the closing spring. Energy storage can be done either by motor or by hand with energy storage handle.

2-2-2 Closing

During the closing process, the circuit breaker can be closed no matter whether the "closing" button is pressed manually or the closing coil is activated by remote operation.

Note: when the circuit breaker is in the closing state, or the closing locking device is selected but the external power supply is not connected, and the handcart type circuit breaker is in the process of propulsion, the closing operation cannot be carried out.

2-2-3 Opening

Either press the "opening" button, or connect the external power supply to make the opening trip or overcurrent trip electromagnet act, so that the circuit breaker can realize the opening operation.

2-2-4 Undervoltage protection function

When the secondary control voltage is less than or equal to 90% of the rated voltage, the undervoltage module must start to store energy for components and enter the holding state; when the secondary control voltage drops to 50% of the rated voltage, the energy of the undervoltage module is released to the opening coil of the circuit breaker to release the opening holding switch and the opening half shaft So as to realize the opening operation.

3. Technical parameter

MEV Vacuum Circuit Breaker Technical Data										
Breaking capability code			S				H			
Rated current (In)		A	2500	3200	4000	5000	2500	3200	4000	5000
Number of poles			3P							
Rated operating voltage (Ue)		V	AC1500				AC2000			
Rated insulation voltage (Ui)		V	3600				3600			
Rated impulse withstand voltage (Uimp)		kV	40				40			
Rated power frequency withstand voltage (1min)		kV	20				20			
Use categories			B				B			
Isolation function			Yes				Yes			
Short-circuit breaking GB/T14048.2, AC1500/2000V										
Rated limit short-circuit breaking capacity (Icu)		kA	50	50	50	50	66	66	66	66
Rated operating short-circuit breaking capacity (Ics)		kA	50	50	50	50	66	66	66	66
Rated short-circuit interrupting procedure		kA	O-CO-CO-CO-CO-CO-CO-CO				O-CO-CO-CO-CO-CO-CO			
Rated short-circuit withstand current (Icw/1s)		kA	50	50	50	50	66	66	66	66
Rated short-circuit turn-on capability (Icm)		kA	105	105	105	105	145	145	145	145
Short-circuit opening and closing GB/T1984			E1 class （AC1500/2000V）							
Opening time		ms	20~50							
Closing time		ms	30~70							
Installation										
Fixed	Width	mm	388	540	540	580	388	540	540	580
	Height	mm	540	540	540	558	540	540	540	558

Fixed	Depth	mm	425	482	482	482	425	482	482	482
Standard wiring			Level	Vertical	Vertical	Vertical	Level	Vertical	Vertical	Vertical
Weight		kg	140	155	170	190	140	155	170	190
Operational performance										
Mechanical life, spring mechanism	Maintenance	times	60000	50000	50000	50000	60000	50000	50000	50000
	Maintenance-free	times	40000	30000	30000	30000	40000	30000	30000	30000
Electrical life, spring mechanism	Maintenance	times	60000	50000	50000	50000	60000	50000	50000	50000
	Maintenance-free	times	40000	30000	30000	30000	40000	30000	30000	30000
Main loop resistance		μΩ	≤9			≤8	≤9			≤8
Operation procedure			O-180s-CO							
Arcing distance		mm	0							

4. Model Explained

MEV	H			3		F		40		S	
Product series	Breaking capacity			Number of poles		Installation		Rated current		Operating mechanism	
ME series VCB	S	Icu	50	3	3 poles	F	Fixed	25	2500A	S	Spring
		Ics	50					32	3200A		
		Icw	50					40	4000A		
	H	Icu	66					50	5000A		
Ics		66									
Icw		66									

Note:

Breaking capacity: Breaking capacity is the short-circuit breaking current at AC1500V, AC2000V voltage

- S breaking is suitable for 2500-5000A, AC1500V

- H breaking is suitable for 2500-5000A, AC2000V

Standard configuration:

- Fixed circuit breaker body

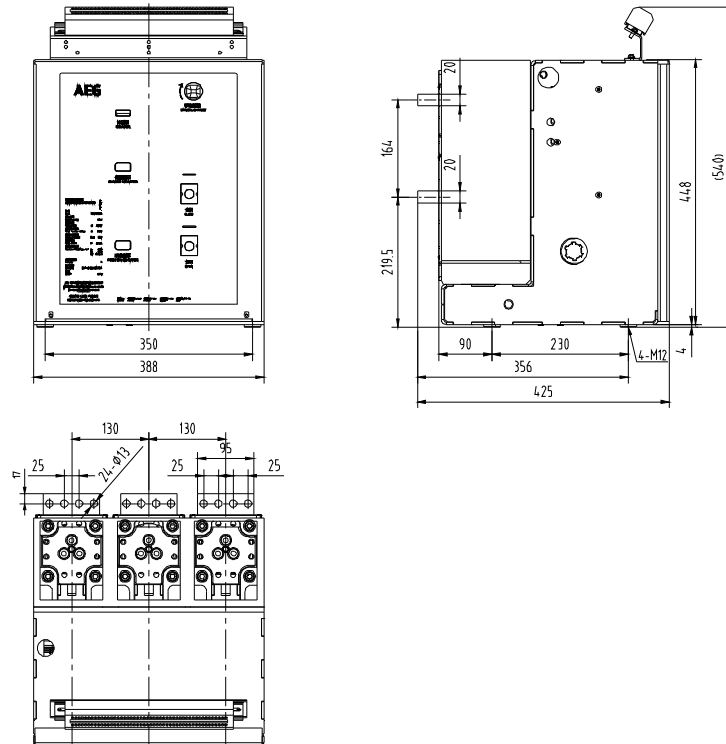
- Energy storage motor, closing coil, opening coil - 6NO+6NC auxiliary contact

Selection example

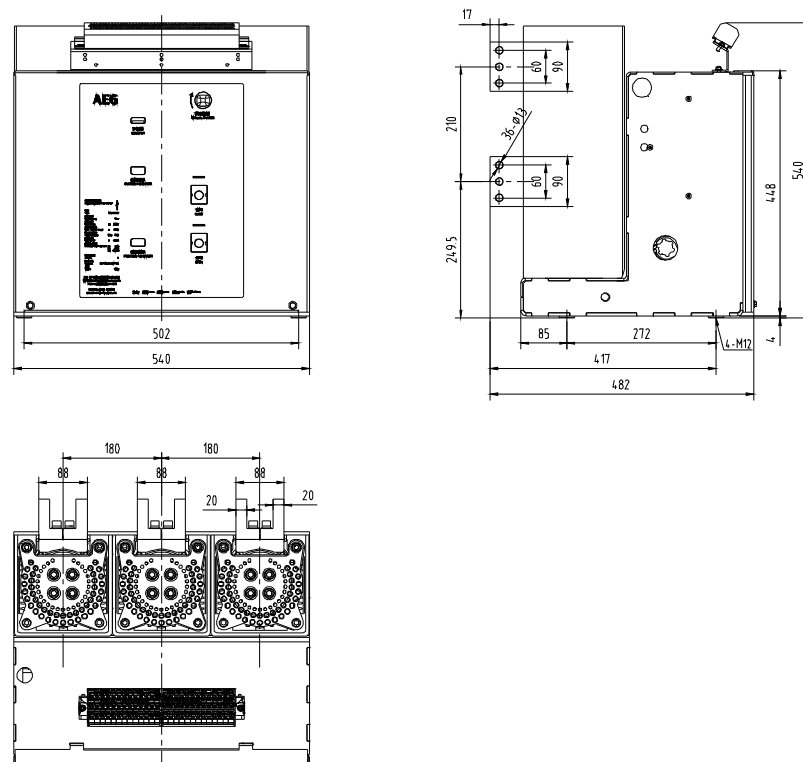
Requirements: Rated current 4000A, 3P, fixed, short circuit breaking capacity 66kA, spring operating mechanism, model: MEVH3F40S

5. Dimensions

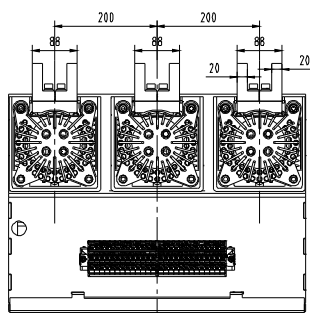
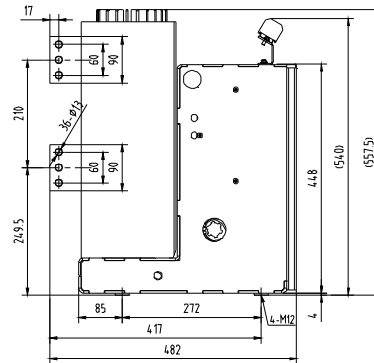
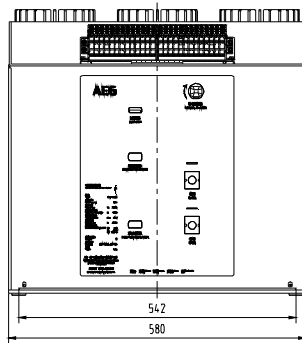
● 2500A - 130mm apart



● 3200/4000A - 180mm apart

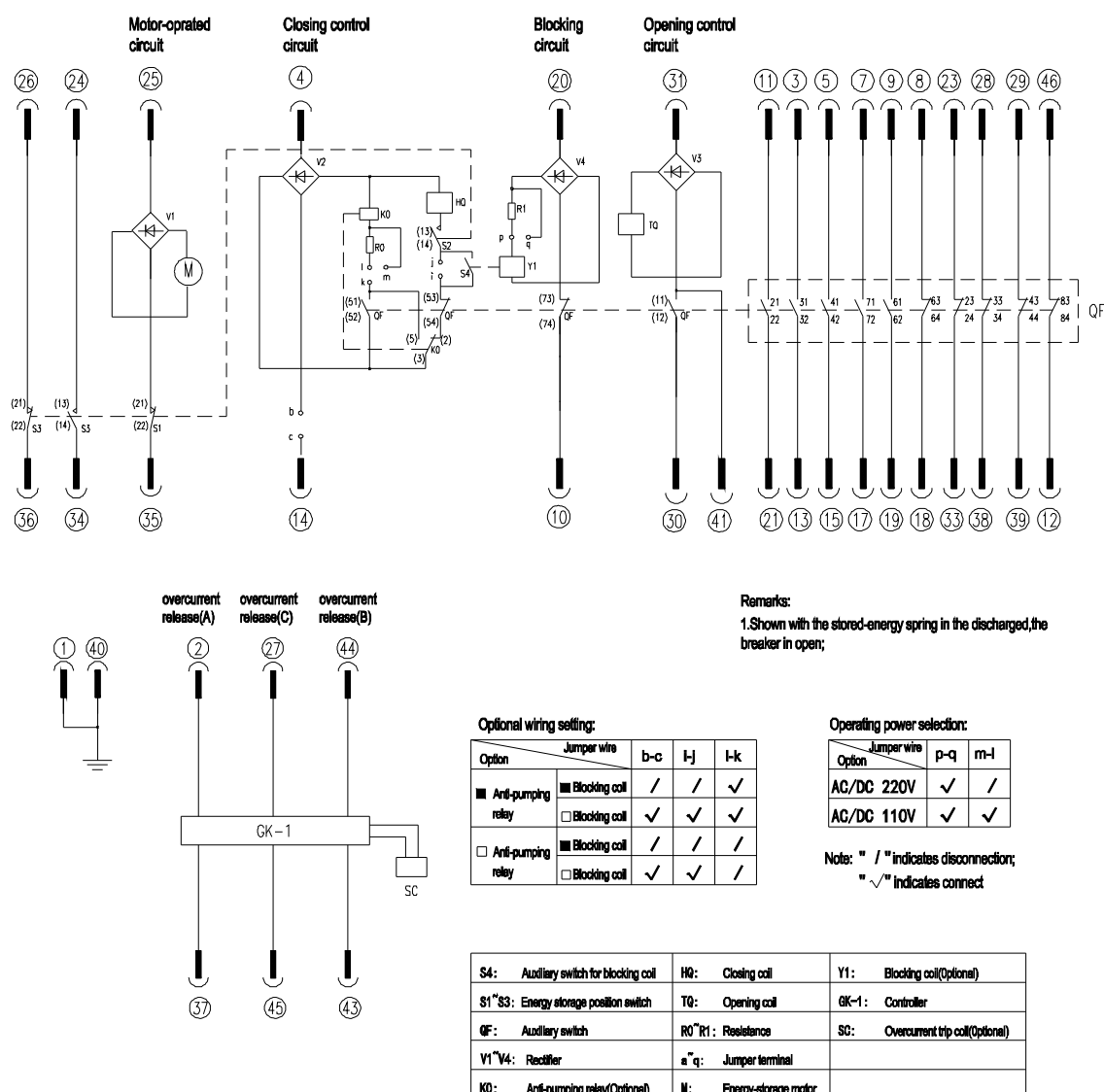


- 5000A – 200mm apart



6. Electrical schematic diagram

● Fixed type (terminal)



7. Installation, commissioning and operation

7-1 When the circuit breaker is lifted from the packing box, the hook shall be hung on the lifting position with lifting mark on the circuit breaker. When moving, the upper and lower lead out rows shall not be stressed, and the circuit breaker shall not be subject to large impact and vibration.

7-2 The circuit breaker installed in the switch cabinet should not be subjected to tension or deformation, and the bolts at the bottom mounting point should be equipped with disc spring gaskets. When connecting the lead-out row, the lead-out row should not be subjected to permanent tension and pressure. For connection, bolts with a strength of ≥ 8.8 are required and fastened with disc springs.

7-3 In case of problems in operation, if it can't be solved, please contact the manufacturer. Do not

disassemble the circuit breaker by yourself.

One of the preconditions for trouble free operation is to use the circuit breaker under normal working conditions according to the corresponding provisions of GB and IEC standards.

- check the circuit breaker for damage or any other harmful environmental impact. If there is such a phenomenon, it should be eliminated before power on to restore to normal working conditions.
- Remove dirt, especially on the surface of insulating parts. These may be due to contamination during transportation or storage, which may affect the insulation performance of the product.
- check the connection status of primary circuit contact, secondary circuit connection and grounding body.
- Manual operation test.

8. Maintenance and Maintenance

Maintenance must be carried out by AEG personnel or the user's personnel who are familiar with the equipment and have been trained and qualified. If the maintenance is carried out by the user's personnel, the user shall be responsible for the consequences of the repair.

8-1 During normal use, the circuit breaker is free of maintenance. Because the circuit breaker has the characteristics of simple structure and durability, it has a long service life. The maintenance work is related to the wear and aging of parts. In order to make the circuit breaker work reliably, the interval time and range of maintenance work needed to be carried out will depend on the influence of working environment, operation times, operation time and short circuit current breaking times and other factors.

8-2 Before maintenance, all auxiliary power supply must be disconnected and there is no danger of power transmission again. The circuit breaker itself is open and the spring is not stored energy. In order to prevent accidents, special care should be taken in the operation mechanism.

8-3 Disassembly and replacement of circuit breaker parts shall be carried out by AEG personnel or corresponding trained personnel, especially during reassembly, necessary adjustment shall be made.

8-4 Maintenance of circuit breaker

The operation structure shall be inspected when the circuit breaker has been operated for 5 years (from the day when the new equipment is put into operation) or when the breaker operates for the specified times (20000 times) :

- Cut off the energy storage power supply and operate the circuit breaker to close and open once to release energy.
- Check the grease condition of rolling or sliding bearing surface.
- Check the correctness of each component function during electrical and mechanical action.
- Do a comprehensive appearance inspection.

In case of replacement of parts, all fasteners shall be replaced.

The minimum interval of the above inspection work shall be less than 5 years for the switchgear operating in some special use occasions or under harmful environmental conditions (such as in the environment with high pollution and heavy corrosive gas).

9. Transportation and storage

9-1 When the product is transported, the circuit breaker shall be placed in a closed packing box without energy storage, and a proper amount of desiccant shall be built in. The circuit breaker shall be protected with plastic film to prevent water penetration during loading and unloading and dust intrusion during storage.

9-2 The following tools shall be used to load and unload the packing box

- Crane
- Forklift
- Driving

9-3 Pay attention to the following items during transportation:

- Avoid shocks
- Avoid other destructive mechanical forces
- The lifting appliance should not be hooked on the circuit breaker body or operating mechanism. It should be hooked at the lifting position with lifting mark.

9-4 The circuit breaker shall be stored in the state of opening of operating mechanism and energy storage spring without energy storage.

Basic storage requirements

- The dry and well ventilated storage room shall meet the relevant provisions of GB and IEC standards.
- The temperature of the storage room shall not be lower than -25 ° C.
- Do not disassemble or damage the package. Cover with a protective light covering and maintain adequate ventilation.
- Regularly check whether there is condensation phenomenon and other conditions not suitable for storage requirements.

10. Random documents

- a. Product certificate
- b. Factory inspection report
- c. Packing list

11. Spare parts

When the user needs, the spare parts can be determined according to the following list, and put forward when ordering, so as to meet the needs.

Order number (SAP)	Product model
26400056	Over-current tripping coil (Y8)
36490042	Over-current control circuit board
26490381	Closing locking electromagnet 110V (S4)
26490780	Closing locking electromagnet 220V (S4)
26490463	Closing/opening control circuit board (please mention: operation voltage, whether there is anti-tripping,
26490092	Closing/opening auxiliary switch (QF)
26490580	Energy storage position switch (S1, S2, S3)
26400055	Closing/Opening coil (110V)
26400054	Closing/Opening coil (220V)
26490375	Breaker energy-saving motor (100W, 110V)
26490359	Breaker energy-saving motor (100W, 220V)
26441247	Mechanism energy-saving handle

AEG

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