

MediPower KMP A3

Air Insulated Medium Voltage Switchgear

Powerful ■ Safe ■ Highly Available



High power switchgear systems

For primary applications

The name **MediPower** represents powerful medium voltage energy distribution systems. With permanent further development and high testing effort, KÖHL fully guarantees its customers the efficient performance of this product according to the requirements of IEC 62271-200.

As in the case of all KÖHL systems, the focus is on best personal protection and maximum availability. Here, the internal arc classification is proven by certificate up to IAC AFLR 40kA/1s for all panel types.



STRENGTH

The ratings speak for themselves – **MediPower KMP A3** has been developed for the distribution of energy at the highest level, even in difficult ambient conditions such as high temperatures or harmful polluted air. The massive frame construction and heavy, multi-interlocked doors already demonstrate a high quality standard at first glance.

SAFETY

Well-conceived constructive measures prioritize personal protection to safeguard the user against the effects of any accidental arcs that occur. The successfully passed tests confirm this circumstance by certificate under internal arc conditions according to the latest standard IEC 62271-200 for all panel types. Through the qualification according to IAC AFLR, the switchgear is suitable for free set-up in the room under observance of the level of protection.

In addition, KÖHL offers a proven technology for the further increase of safety for the user and materials with an **active arc fault protection system**.

HIGH AVAILABILITY

Intelligent design and the use of high-quality materials reduce the necessity of shutdowns for time-consuming maintenance to a minimum. Due to a design using withdrawable technology the user can exchange circuit breakers – or even measuring devices, if required – directly and quickly without much effort.

Technical data

General characteristic values		
Standards and requirements		IEC 62271-200, VDE 0671-200
Ambient temperature	°C	Standard: -5 bis +40, average value over 24h: +35 (deviation upon request)
Relative humidity, 24h average		95%
Protection class		IP 31, IP 41
Connection type		Cable from below; Bus bar from below
Panel widths	mm	650, 800, 1000
Internal arc classification		IAC AFLR
Operational availability category		LSC2A, LSC2B
Altitude	m	1000

Electrical characteristic values		
Rated voltage	kV	12 17,5
Rated power frequency withstand voltage	kV	28 38
Rated lightning impulse withstand voltage	kV	75 95
Rated frequency	Hz	50-60
Rated bus bar current	A	630, 1250, 1600, 2000, 2500, 3150
Rated short-time current (3s)	kA	20; 25; 31,5; 40
Rated peak withstand current	kA	50; 63; 80; 100
IAC AFLR (1s)	kA	25; 31,5; 40

Mechanical characteristic values	
Material / plate thickness	Steel plate, stainless steel / 2mm
Surface treatment	Sendzimirised or structured powder coating on epoxy-polyester basis
Colour / painted surface	According to DIN 43656 / lightweight structure, layer thickness $\geq 40 \mu\text{m}$
Gloss level	Glossy
Chemical resistance	Against benzole and benzine according to MAK Diluted acid 10% and diluted lye 10% according to MAK
Decontaminability	Decontaminable

Panel dimensions W/D/H	mm	650/1200/2200	800/1200/2200	1000/1200/2200
Incoming-/outgoing-/coupling panel and bus tie up to 1250A, up to 31.5KA/3s		■		
Incoming-/outgoing-/coupling panel and bus tie up to 2000A, up to 40KA/3s			■	
Incoming-/outgoing-/coupling panel and bus tie up to 3150A, up to 40KA/3s			■	■
Motor panel with vacuum contactor		■	■	
Measurement panel with/without bus bar earthing switch		■	■	■
Switch disconnecter with/without fuses up to 2500A, up to 25kA/3s		■	■	■

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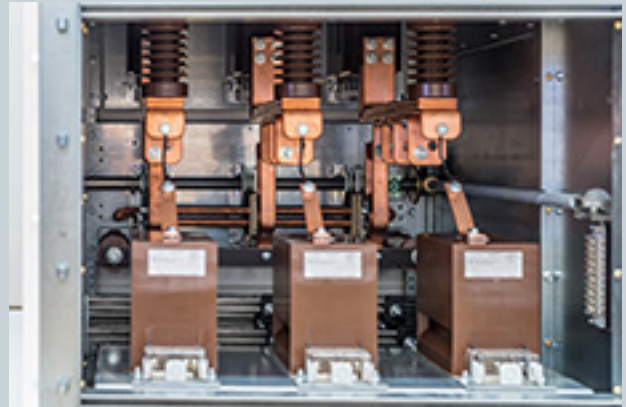
FEATURES

- Circuit breakers of various manufacturers:
ABB (VD4, HD4, VM1, VM1-T), SIEMENS (SION-series), Schneider Electric EasyPact EXE (upon request)
- Circuit breaker and vacuum contactor in withdrawable technology or fixed mounted
- Disconnecter switch with / without fuses in fixed mounted technology
- Free selection of the VT / CT / PT equipment according to customer specification
- Voltage transformer in withdrawable or fixed mounted technology
- Free selection of protection relay devices and communication protocols according to customer specification
- Individual interlocking scenarios according to customer specification
- Type-tested pressure relief duct, including corner units and outlet flaps
- Optional integration of an active arc fault protection system

Proven safety acc. IEC 62271-200



- Internal pressure relief for every functional room. Implementation with deflection plates or type-tested pressure relief duct.



- VT equipping easily accessible and individually configurable.



- Individually equippable, removable LV cabinet with two standard heights: 500mm and 800mm (additional heights upon request).



- Elaborate cable connection made of high-quality copper for easy connection on the customer side.



- Massive design of the interlocking technology and user guidance with user-friendly double actuation for the prevention of incorrect operation.



- Intelligent earthing concept with manual or motor drive

KÖHL s.à r.l.
POWER DISTRIBUTION SYSTEMS

17, Am Scheerleck
L-6868 Wecker / Luxembourg
Tel.: +352 71 99 71 - 0
Fax: +352 71 99 71 - 99

sales@koehl-sarl.eu
www.koehl-sarl.eu



Non-binding technical data and figures.
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