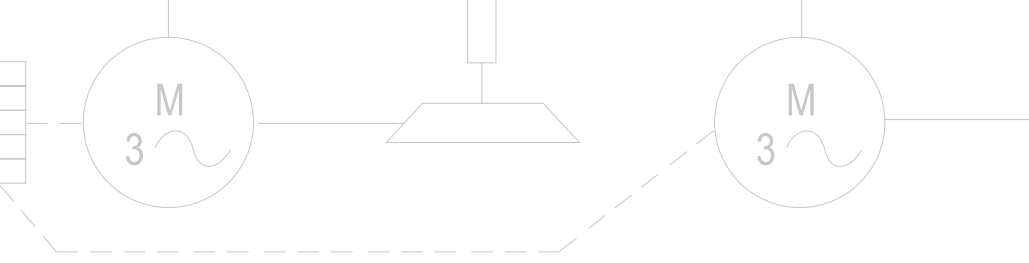
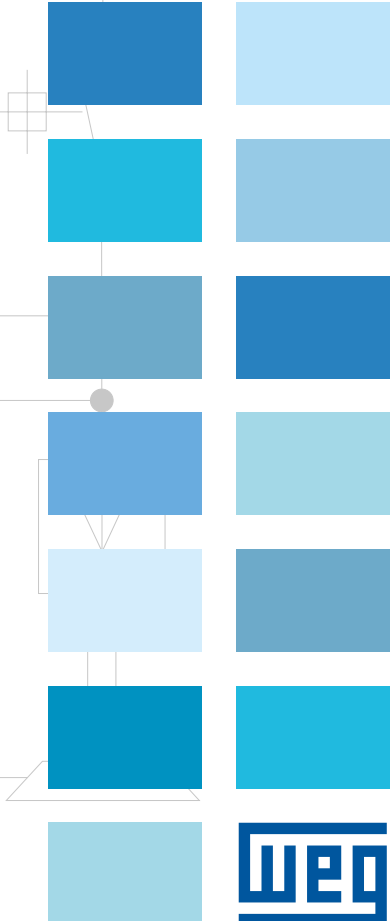
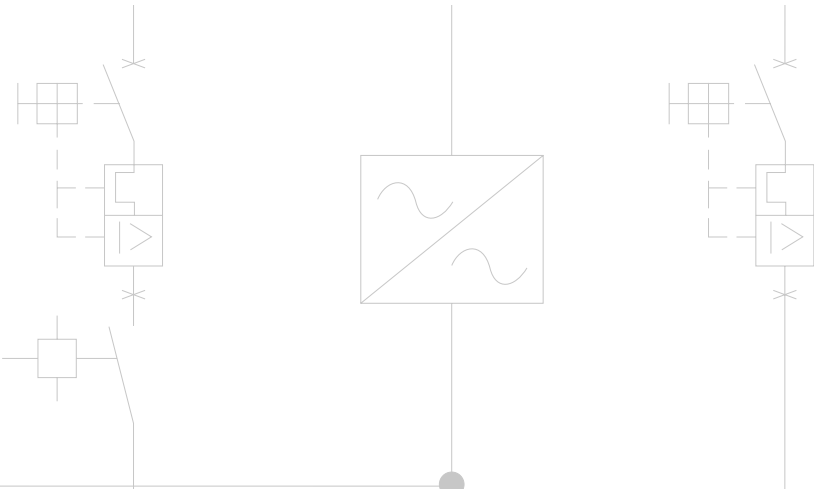


# MTW

## Medium Voltage Switchgear and Motor Control Centers





W 1000  
RESTAURACIÓN /  
RESERVA DE AGUA

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA CON  
LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO!  
RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

W 1000  
ADMINISTRACIÓN /  
AGRICOLA / IRRIGACIÓN

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA CON  
LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO!  
RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

W 1000  
FERRETERIA / ESTACIÓN /  
MISMA

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA CON  
LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO!  
RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

W 1005  
FERROVIA DE AGUA

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA CON  
LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO!  
RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

W 1000  
SALIDA DE EMERGENCIA

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA CON  
LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

¡CUIDADO! RIESGO DE DESCARGA  
CON LA PUERTA CERRADA  
CON LA CLAVE DE SERVICIO  
DISPONIBLE

# MTW Medium Voltage Switchgear and Motor Control Centers

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Developed for the **various market segments**, WEG electric panels meet the highest **quality and performance** requirements, being designed with a high standardization rate. They offer simple assembly, installation, maintenance, future expansions and interchangeability.

The products are factory assembled and tested for 2.3 kV to 36 kV voltages and were developed to meet the requirements of 62271-200 standard, while preserving the flexibility in adapting to the different characteristics demanded by the market.



- Versatility and flexibility
- Easy maintenance
- Simplified inspection
- Easy mounting and connection



- Reduced dimensions
- Careful selection of materials
- Standardization



- Personnel safety
- In compliance with IEC 62271-200
- Internal-arc resistant
- Closed door racking

# INTEGRAL ENERGY MANAGEMENT



## Applications

The switchgear have a wide range of applications in medium voltage systems, the main ones being:

- Utility substations
- Main factory and industrial facility protection and sectioning
- Pumping stations
- Power generation thermal and hydroelectric plants
- Medium voltage motor start
- Unitary substations
- Power distribution systems

## Segments

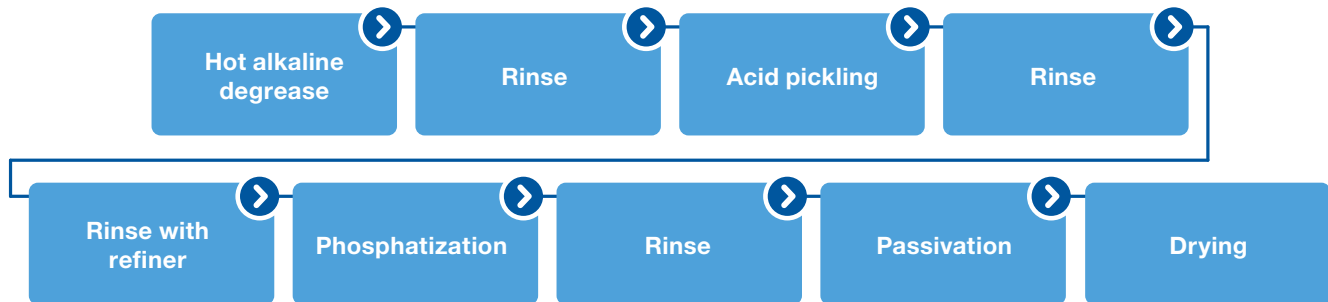
Steel and Metallurgy 	Mining and Cement 	Chemicals and Petrochemicals 	Paper and Cellulose 	Food and Beverage 
Plastic and Rubber 	Sugar and Ethanol 	Water/Waste 	Power Generation 	Marine 

## Technical Data

### Construction Characteristics

The MTW medium voltage switchgear is a medium voltage switchgear with a metal enclosure, which undergo an alkaline degrease treatment, phosphatization and powder painting. Overpressure relief devices on top or side provide pressure relief in case of internal arc. The general bus consists of one or more rectangular bars in electrolytic copper with tin plated fittings and dimensioned in such a way to withstand the thermal and dynamic efforts. The low voltage compartment is located in the upper front part. This compartment houses the measurement instruments, protection, terminals, thermostats, auxiliary contactors, etc., and it is completely isolated from the medium voltage compartment by means of a steel plate.

### Surface Treatment Process of the Plates before the Final Painting



### Safety

The MTW switchgear are internal-arc resistant and manufactured according to the requirements of IEC 62271-200 standard, ensuring total safety in the operation for both operators and installations.

## ADVANTAGES

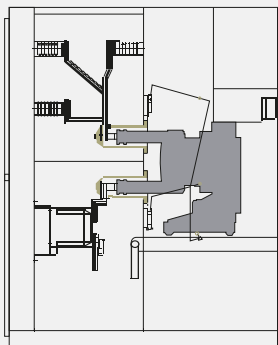
- Switchgear developed and manufactured with type tests according to IEC 62271-200
- Various options of device combination to meet the customer's needs and demands
- Fast withdrawable circuit breaker/contactors replacement using the cart for handling and installation
- Fast and easy expansion due to its modular design
- Minimum maintenance
- Easy access to the compartments for maintenance by means of removable covers and doors
- Interlock system against incorrect operations
- High safety level for the operators, with all the main circuit breaker operations executed with the medium voltage door closed
- Air-insulated switchgear, with reduced dimensions, allowing smaller sizes of electric rooms
- No need for insulating gas handling or pressure supervision
- Quality assurance according to ISO 9001
- Metal enclosure, shutters and separators grounded
- Switchgear with internal arc rating according to IEC, with front, side and rear access, for all the short-circuit currents

## Technical Data

### Interlocks

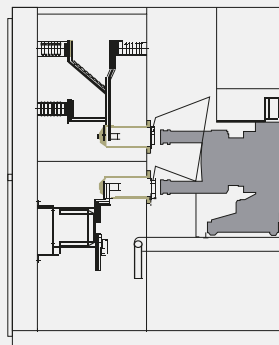
- Interconnections between the circuit breaker/contactors compartment door and its compartment do not allow access to them in the "ON" position.
- Interconnections between circuit breaker/contactors and earthing switch do not allow switching them on simultaneously
- The circuit breaker/contactors can only be moved to the "TEST/EXTRACTED" position in the "OFF" condition without having to open the switchgear door
- The circuit breaker/contactors cannot be operated between the "INSERTED" and "TEST/EXTRACTED" positions
- For the units equipped with contactors, in case one of the fuses actuates, the contactor will automatically switch off

Position of the circuit breaker/contactors	Interlock
Inserted/Service	<p>It is impossible to move the circuit breaker/contactors switched on</p> <p>It is impossible to close the earthing switch</p> <p>It is impossible to open the door of the circuit breaker/contactors compartment</p>
Between the Inserted and Test/Extracted position	<p>It is impossible to open the door of the circuit breaker/contactors compartment</p> <p>It is impossible to switch on the circuit breaker/contactors</p> <p>It is impossible to close the earthing switch</p> <p>It is impossible to disconnect the plug from the circuit breaker/contactors control</p>
Test/Extracted	<p>It is impossible to switch on the circuit breaker/contactors</p> <p>It is impossible to connect the circuit breaker/contactors if the earthing switch is closed</p> <p>It is impossible to close the contactor/circuit breaker compartment door without connecting the circuit breaker control plug</p>



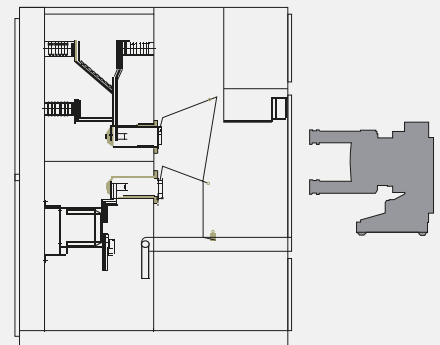
#### "INSERTED" Position

*It is impossible to move the circuit breaker/contactors switched on.*



#### "TEST/EXTRACTED" Position

*The circuit breaker/contactors is extracted or inserted with the compartment door closed.*



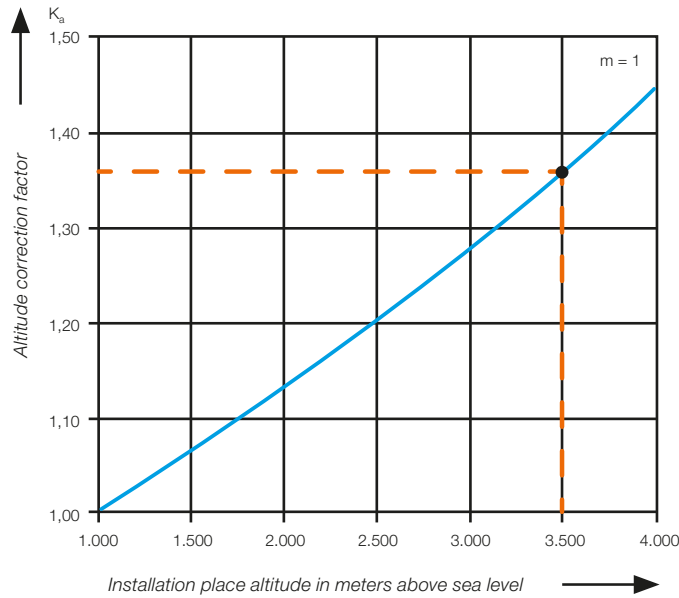
#### "REMOVED" Position

*Automatic flaps protect against touch while the circuit breaker/contactors is extracted.*

## Technical Data

### Altitude Ratio-Corrector Factor $K_a$

For installation at altitudes above 1,000 m of sea level, the altitude correction factor  $K_a$  is applied to the rated lightning impulse withstand voltage (BIL), depending on the installation altitude above sea level, as shown in the chart below:



### E.g.:

For an installation at 3,500 meters above sea level, 7.2 kV of rated voltage, 60 kV of rated lightning-impulse withstand voltage (BIL):

$$\text{Rated lightning-impulse withstand voltage (BIL) to choose} = 60 \text{ kV} \cdot 1.36 = 81.6 \text{ kV}$$

### Result:

We need to choose a switchgear with a rated lightning-impulse withstand voltage (BIL) equal to or above the result (81.6 kV). According to the dielectric strength table below, you should choose a switchgear for a rated voltage of 17.5 kV with a rated lightning-impulse withstand voltage (BIL) of 95 kV.

Dielectric strength table							
Rated voltage	kV	3.6	7.2	12	17.5	24	36
Rated lightning-impulse withstand voltage (BIL)							
Between phases and earth	kV	40	60	75	95	125	170

Information according to IEC 60694, item 2.2.1.



## Technical Data

### Main Standards

Device	Description	IEC Standard
Switchgear	MTW	IEC 62271-200
	Degree of protection	IEC 60694
Devices	Power circuit breakers	IEC 62271-100
	Power contactors	IEC 62271-106
	Switch disconnectors and earthing switches	IEC 62271-102
	Switch disconnector/fuses	IEC 62271-105
	Fuses	IEC 60282-1
Measurement transformers	Current transformers	IEC 61869-2
	Voltage transformers	IEC 61869-3

### Concepts

Internal arc classification		
General designation	IAC (Internal Arc Classified)	
Accessibility types	A	Restricted to the authorized personnel
	B	Unrestricted, including public in general
	C	Restricted by installation
Sides of the enclosure	F	Front
	L	Side
	R	Rear
Testing values	$I_{cc} \text{ (kA)} - t \text{ (s)}$	

#### E.g.:

**IAC AFLR 40kA 1s:** internal arc-resistant equipment, access restricted to authorized personnel by all the sides (front, side and rear), with value of 40 kA in one second.

**IAC BF ALR 25kA 1s:** internal arc-resistant equipment, unrestricted access, including general public, to the front of the switchgear; however, the access to the other sides (side and rear) is restricted to authorized personnel, with value of 25 kA in one second.

Loss of service continuity class	
It defines the possibility to keep the other compartments and/or functional units energized when opening one compartment of the main circuit	
LSC 1	Switchgear without compartmentalization between the medium voltage equipment
LSC 2A	Safe access to the compartment of the functional unit With busbar energized, as well as with adjacent units energized MV cables must be connected to the ground
LSC 2B	Safe access to the functional unit compartment With busbar energized, as well as with adjacent units energized The MV cables must be in a separate compartment Functional unit cable in maintenance may remain energized

Partition classes	
PM	All divisions between compartments must be metallic and will be properly grounded, ensuring safe access
PI	Divisions between compartments may be partial or totally made of insulating material

# MTW03 Switchgear



**Rated Voltage up to 17.5 kV**

**Rated Current up to 3,150 A**

**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) up to 31.5 kA**

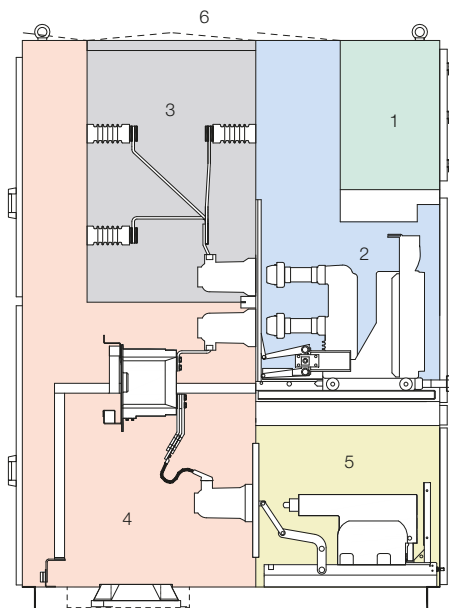
Technical data			
Electrical			
Rated voltage	kV	7,2	17,5
Rated current	A	630 - 1,250 - 1,600 - 2,000 - 2,500 - 3,150	
Rated lightning-impulse withstand voltage (BIL)	kV	60	95
Rated withstand voltage at industrial frequency	kV	20	38
Three-phase symmetrical short-circuit current (I <sub>cc</sub> ) (1s)	kA	25 - 31.5	
Internal arc testing classification	IAC BF ALR 31.5 kA 1s		
Mechanical			
Degree of protection <sup>1)</sup>	IP-4X		
Height	mm	2,300 (pressure relief on top)	
		2,650 (with top duct for the exit of gases)	
Width <sup>2)</sup>	mm	650 (≤1,250 A)	
		1,000 (≥1,600 A)	
Depth	mm	1,680 (lower cable inlet/outlet)	
		1,980 (upper cable inlet/outlet)	
Approximate weight	kg	1,200 (≤1,250 A)	
		1,400 (≥1,600 A)	
Plate thickness	Structure	mm (MSG)	3.04 (11)
	Walls		2.66 (12)
	Shield		2.66 (12)
Loss of service continuity class	LSC 2B		
Partition class	PM		
Seismic zone <sup>3)</sup>	UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g		
Ambient temperature	-5 °C...+40 °C		
Installation altitude	Up to 1,000 masl (for higher levels, see page 8)		

Notes: 1) Other degrees of protection under request.

2) For switchgear with switch disconnecter (630 or 1,250 A), width of 1,000 mm.

3) By means of computer simulation (Modal Analyses).

## Compartmentalizations



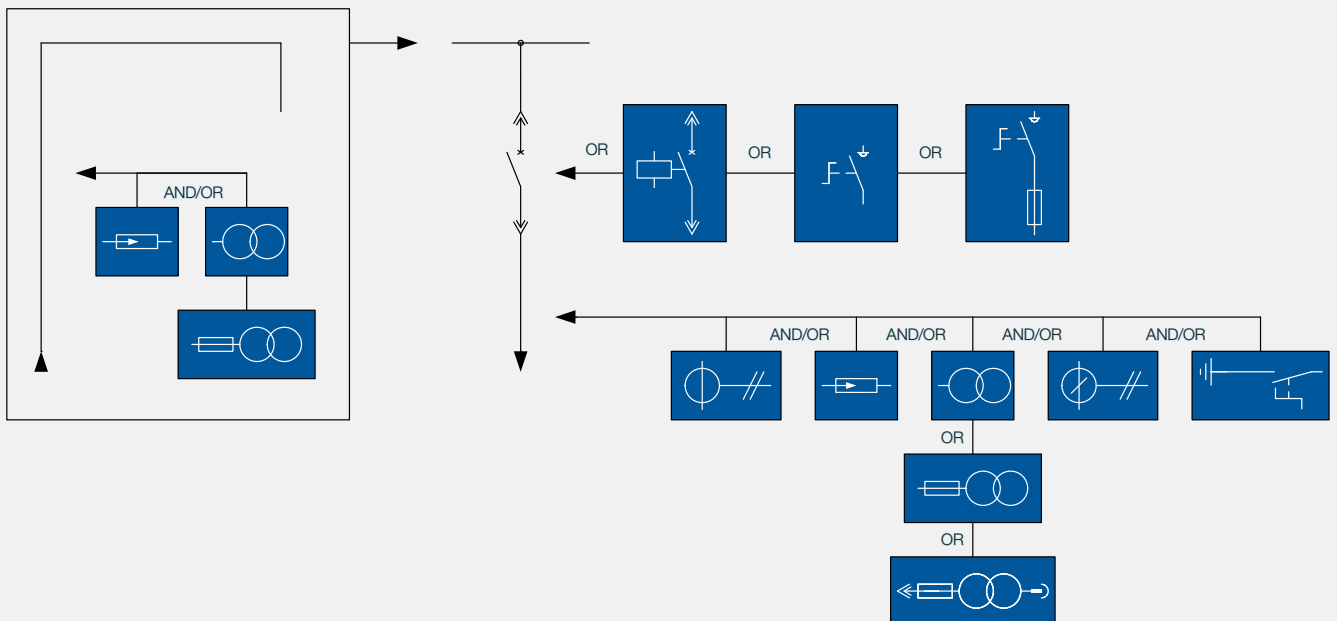
- 1) Low voltage compartment
- 2) Circuit breaker compartment
- 3) General bar compartment
- 4) Output cable and CT compartment
- 5) PT compartment
- 6) Flaps for evacuation of the gases

## Dimensions



Dimensions (mm)				
Cables entry	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	≤1,250 A	2,300	650	1,680
	≥1,600 A		1,000	
Top entry	≤1,250 A		650	1,980
	≥1,600 A		1,000	

## Possible Configurations



# MTW04 Switchgear



**Rated Voltage up to 17.5 kV**

**Rated Current up to 4,000 A**

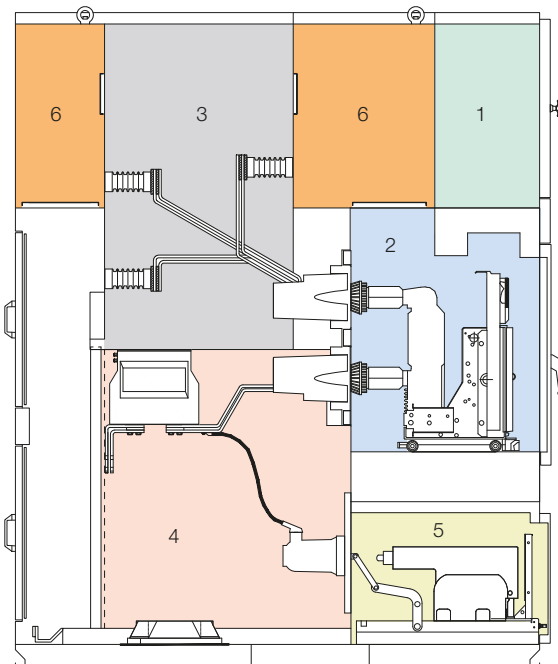
**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) up to 50 kA**

Technical data			
Electrical			
Rated voltage	kV	7.2	17.5
Rated current	A	630 - 1,250 - 1,600 - 2,000 - 2,500 - 3,150 - 4,000	
Rated lightning-impulse withstand voltage (BIL)	kV	60	95
Rated withstand voltage at industrial frequency	kV	20	38
Three-phase symmetrical short-circuit current (I <sub>cc</sub> ) (1s)	kA	40 - 50	
Internal arc testing classification	IAC AFLR 50 kA 1s		
Mechanical			
Degree of protection <sup>1)</sup>	IP-4X		
Height	mm	2,500 (duct for the exit of gases included)	
Width	mm	750 (≤2,000 A)	
		1,000 (2,500 A)	
Depth	mm	2,000 (lower cable inlet/outlet)	
		2,500 (upper cable inlet/outlet)	
Approximate weight	kg	1,400 (≤2,000 A)	
		1,900 (≥2,500 A)	
Plate thickness	Structure	mm (MSG)	3.04 (11)
	Walls		3.04 (11)
	Shield		3.04 (11)
Loss of service continuity class	LSC 2B		
Partition class	PM		
Seismic zone <sup>2)</sup>	UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g		
Ambient temperature	-5 °C...+40 °C		
Installation altitude	Up to 1,000 masl (for higher levels, see page 8)		

Notes: 1) Other degrees of protection under request.

2) By means of computer simulation (Modal Analyses).

## Compartmentalizations



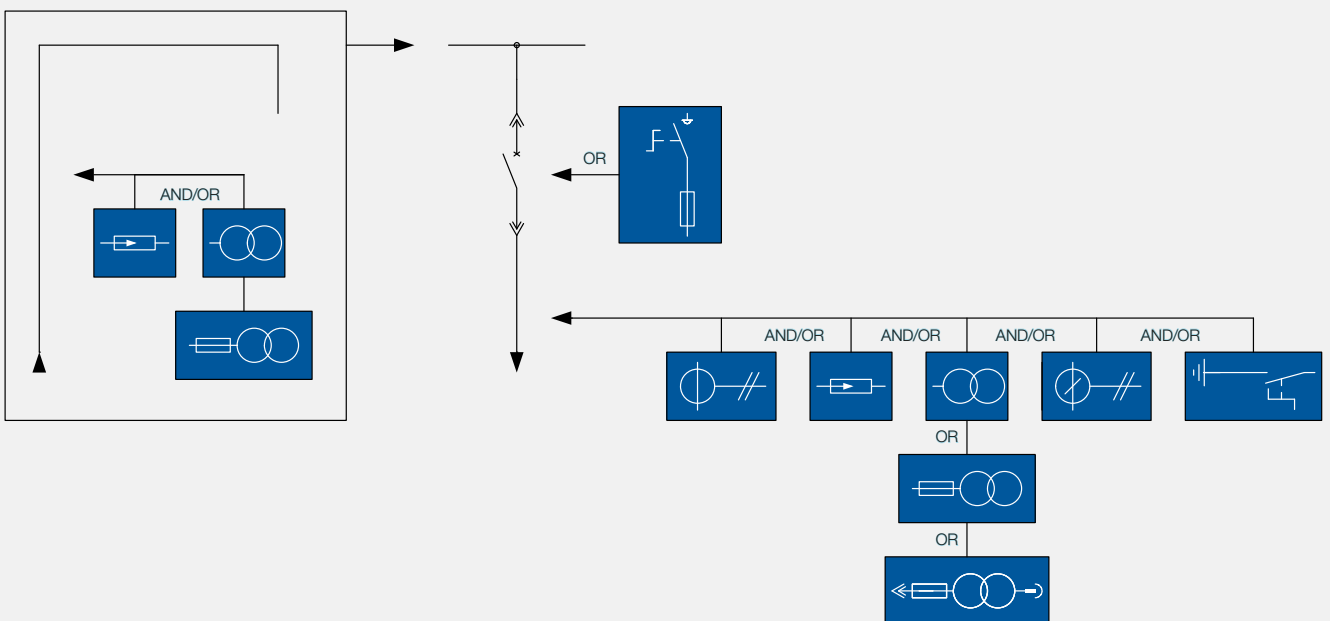
- 1) Low voltage compartment
- 2) Circuit breaker compartment
- 3) General bus compartment
- 4) Output cable and CT compartment
- 5) PT compartment
- 6) Duct for evacuation of the gases

## Dimensions



Dimensions (mm)				
Cables entry	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	$\leq 2,000$ A	2,500	750	2,000
	$\geq 2,500$ A		1,000	
Top entry	$\leq 2,000$ A		750	2,500
	$\geq 2,500$ A		1,000	

## Possible Configurations



# MTW05 Switchgear

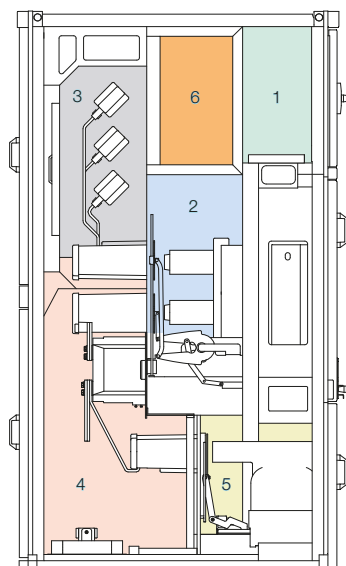
**Rated Voltage up to 17.5 kV**  
**Rated Current up to 2,500 A**  
**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) up to 31.5 kA**



Technical data			
Electrical			
Rated voltage	kV	7.2	17.5
Rated current	A	630 - 1,250 - 1,600 - 2,000 - 2,500	
Rated lightning-impulse withstand voltage (BIL)	kV	60	95
Rated withstand voltage at industrial frequency	kV	20	38
Three-phase symmetrical short-circuit current (I <sub>cc</sub> ) (1s)	kA	25 - 31.5	
Internal arc testing classification	IAC BF ALR 31.5 kA 1s		
Mechanical			
Degree of protection <sup>2)</sup>	IP-41		
Height	mm	2,300 (duct for the exit of gases included)	
Width	mm	600 (≤1,250 A)	
		750 (≤2,000 A)	
		950 (2,500 A)	
Depth	mm	1,300 (lower cable inlet/outlet)	
		1,600 (upper cable inlet/outlet)	
Approximate weight	kg	1,000 (≤1,250 A)	
		1,150 (≤2,000 A)	
		1,300 (2,500 A)	
Plate thickness	Structure and walls	mm (MSG)	1.90 (14)
	Struts		3.04 (11)
	Front part		2.66 (12)
Loss of service continuity class	LSC 2B		
Partition class	PI		
Seismic zone <sup>3)</sup>	UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g		
Ambient temperature	-5 °C...+40 °C		
Installation altitude	Up to 1,000 masl (for higher levels, see page 8)		

Notes: 1) Other degrees of protection under request.  
 2) By means of computer simulation (Modal Analyses).

## Compartmentalizations



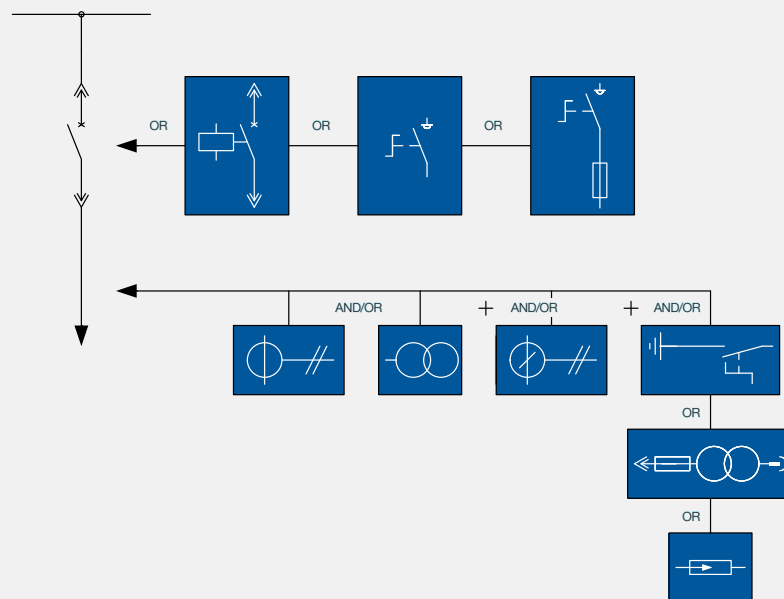
- 1) Low voltage compartment
- 2) Circuit breaker compartment
- 3) General bar compartment
- 4) Output cable and CT compartment
- 5) PT compartment
- 6) Duct for evacuation of the gases

## Dimensions



Dimensions (mm)				
Cables entry	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	≤1,250 A	2,300	600	1,300
Top entry				1,600
Bottom entry	≤2,000 A	2,300	750	1,300
Top entry				1,600
Bottom entry	2,500 A	2,300	950	1,300
Top entry				1,600

## Possible Configurations



# MTW04 Switchgear - 24 kV

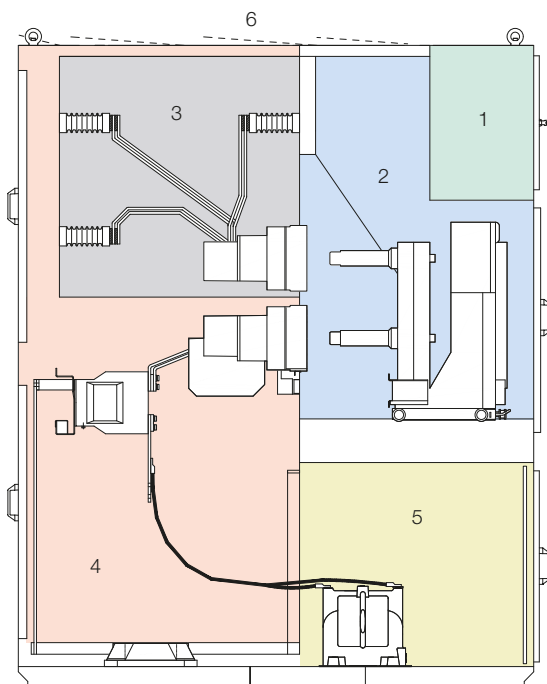


**Rated Voltage up to 24 kV**  
**Rated Current up to 1,250 A**  
**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) up to 25 kA**

Technical data		
Electrical		
Rated voltage	kV	24
Rated current	A	630 - 1,250
Rated lightning-impulse withstand voltage (BIL)	kV	125
Rated withstand voltage at industrial frequency	kV	50
Three-phase symmetrical short-circuit current (I <sub>cc</sub> ) (1s)	kA	25
Internal arc testing classification	IAC BF ALR 25 kA 1s	
Mechanical		
Degree of protection <sup>1)</sup>	IP-4X	
Height	mm	2,500 (pressure relief on top)
		2,850 (with top duct for the exit of gases)
Width	mm	800
Depth	mm	2,000
Approximate weight	kg	2,000
Plate thickness	Structure	1.90 (14)
	Walls	3.04 (11)
	Base	2.66 (12)
Loss of service continuity class	LSC 2B	
Partition class	PM	
Seismic zone <sup>2)</sup>	UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g	
Ambient temperature	-5 °C...+40 °C	
Installation altitude	Up to 1,000 masl (for higher levels, see page 8)	

Notas: 1) Other degrees of protection under request.  
 2) By means of computer simulation (Modal Analyses).

## Compartmentalizations



- 1) Low voltage compartment
- 2) Circuit breaker compartment
- 3) General bar compartment
- 4) Output cable and CT compartment
- 5) PT compartment
- 6) Flaps for evacuation of the gases

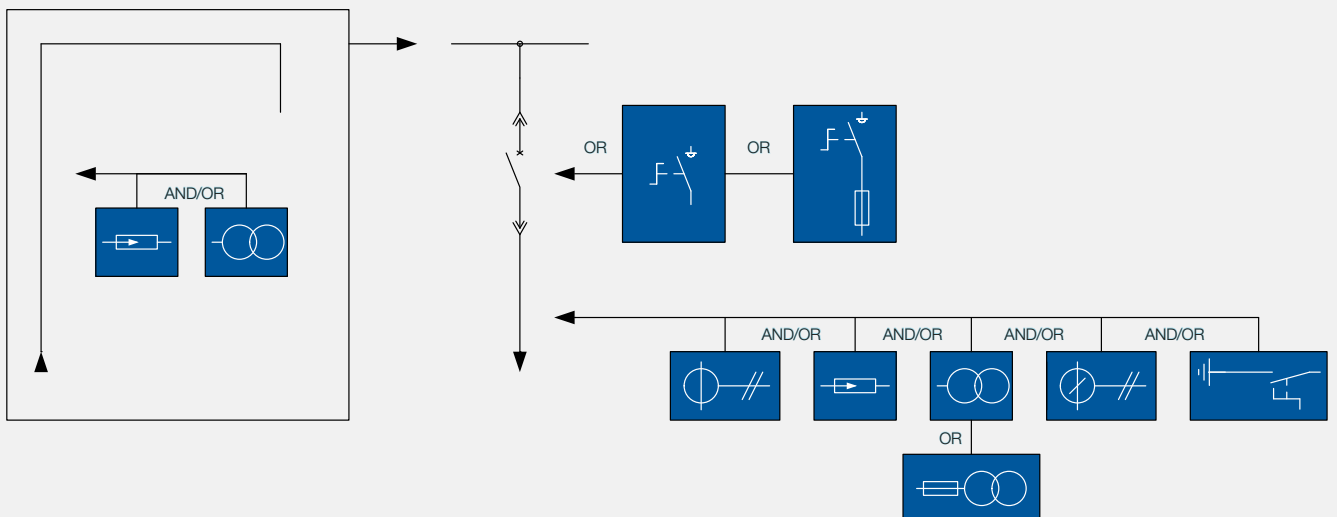


## Dimensions



Dimensions (mm)				
Cables entry	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	1,250 A	2,500	1,200	2,000
Top entry	≤1,250 A		1,200	2,500

## Possible Configurations



# MTW04 Switchgear - 36 kV

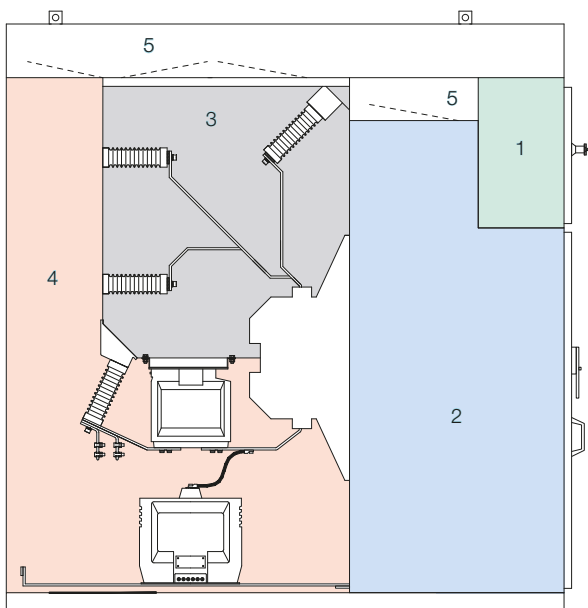


**Rated Voltage up to 36 kV**  
**Rated Current up to 2,500 A**  
**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) up to 31.5 kA**

Technical data			
Electrical			
Rated voltage	kV	36	
Rated current	A	630 - 1,250 - 1,600 - 2,000 - 2,500	
Rated lightning-impulse withstand voltage (BIL)	kV	170	
Rated withstand voltage at industrial frequency	kV	70	
Three-phase symmetrical short-circuit current (I <sub>cc</sub> ) (1s)	kA	25	31.5
Internal arc testing classification		IAC AFLR 25 kA 1s	IAC AFLR 31.5 kA 1s <sup>1)</sup>
Mechanical			
Degree of protection <sup>2)</sup>		IP-4X	
Height	mm	2,750 (pressure relief on top)	
		3,000 (with top duct for the exit of gases)	
Width	mm	1,200	
Depth	mm	2,600	4,200 (with deflector)
Approximate weight	kg	2,200	
Plate thickness	Structure	mm (MSG)	3.00
	Walls		2.60
	Shield		2.60
Loss of service continuity class		LSC 2B	
Partition class		PM	
Seismic zone <sup>3)</sup>		UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g	
Ambient temperature		-5 °C...+40 °C	
Installation altitude		Up to 1,000 masl (for higher levels, see page 8)	

Notes: 1) Deflector and covers for pressure relief.  
 2) Other degrees of protection under request.  
 3) By means of computer simulation (Modal Analyses).

## Compartmentalizations



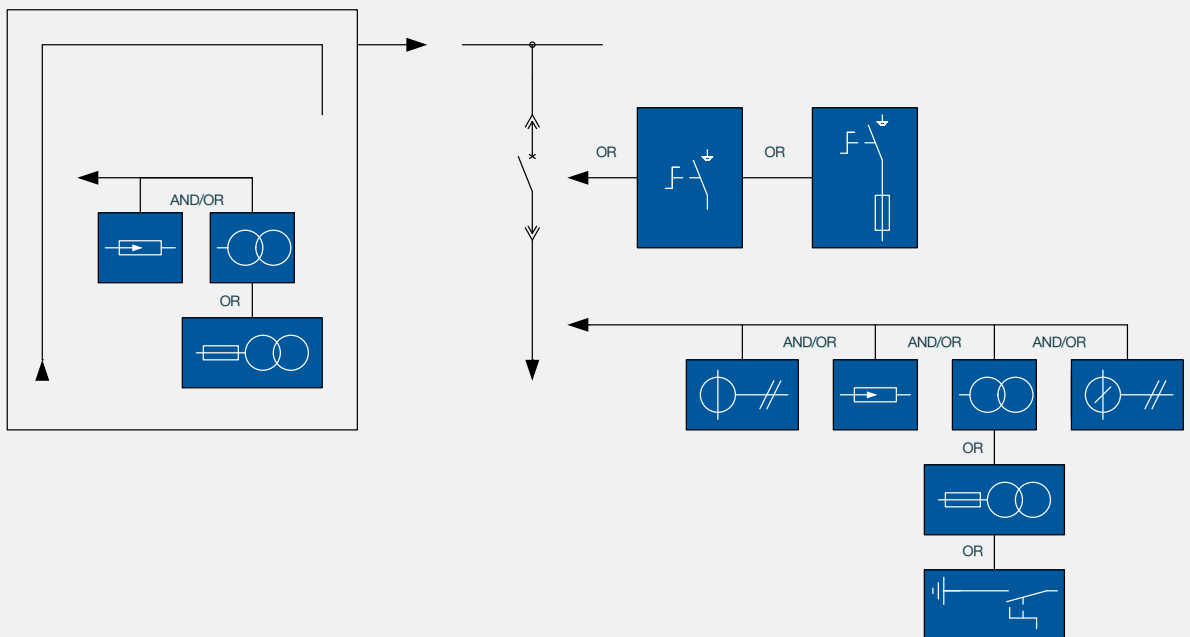
- 1) Low voltage compartment
- 2) Circuit breaker compartment
- 3) General bar compartment
- 4) Output cable, CT and PT compartment
- 5) Flaps for evacuation of the gases

## Dimensions



Dimensions (mm)					
Cables entry	Icc (kA)	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	25	≤2,500 A	2,750	1,200	2,600
Top entry		≤2,500 A			2,850
Bottom entry	31.5	≤2,500 A			4,200
Top entry		≤2,500 A			

## Possible Configurations



# MTW04 Switchgear - MV MCC Version

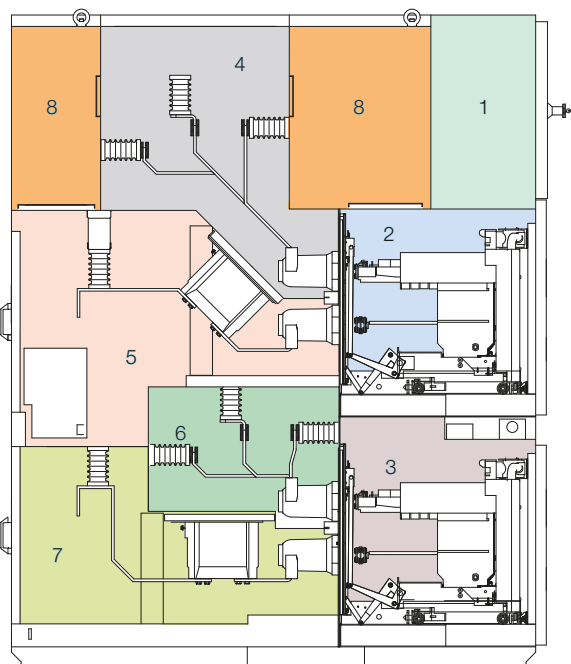


**Rated Voltage up to 12 kV**  
**Rated Current up to 4,000 A**  
**Three-Phase Symmetrical Short-Circuit Current (I<sub>cc</sub>) 50 kA**

Technical data			
Electrical			
Rated voltage	kV	7.2	12
Rated current	A	630 - 1,250 - 1,600 - 2,000 - 2,500 - 3,150 - 4,000	
Rated lightning-impulse withstand voltage (BIL)	kV	60	75
Rated withstand voltage at industrial frequency	kV	20	38
Three-phase symmetric short-circuit current (I <sub>cc</sub> ) (1s)	kA	25 - 31.5 - 40 - 50	
Internal arc testing classification	IAC BF ALR 50 kA 1s		
Mechanical			
Degree of protection <sup>1)</sup>	IP-4X		
Height	mm	2,500 (duct for the exit of gases included)	
Width	mm	900 (for two contactors of 400 A)	
Depth	mm	2,000 (lower cable inlet/outlet)	
		2,200 (upper cable inlet/outlet)	
Approximate weight	kg	1,500	
Plate thickness	Structure	mm (MSG)	3.00
	Walls		2.60
	Shield		2.60
Loss of service continuity class	LSC 2A		
Partition class	PM		
Seismic zone <sup>2)</sup>	UBC-4 - Horizontal acceleration of 0.6 g and vertical acceleration of 0.36 g		
Ambient temperature	-5 °C...+40 °C		
Installation altitude	Up to 1,000 masl (for higher levels, see page 8)		

Notes: 1) Other degrees of protection under request.  
 2) By means of computer simulation (Modal Analyses).

## Compartmentalizations



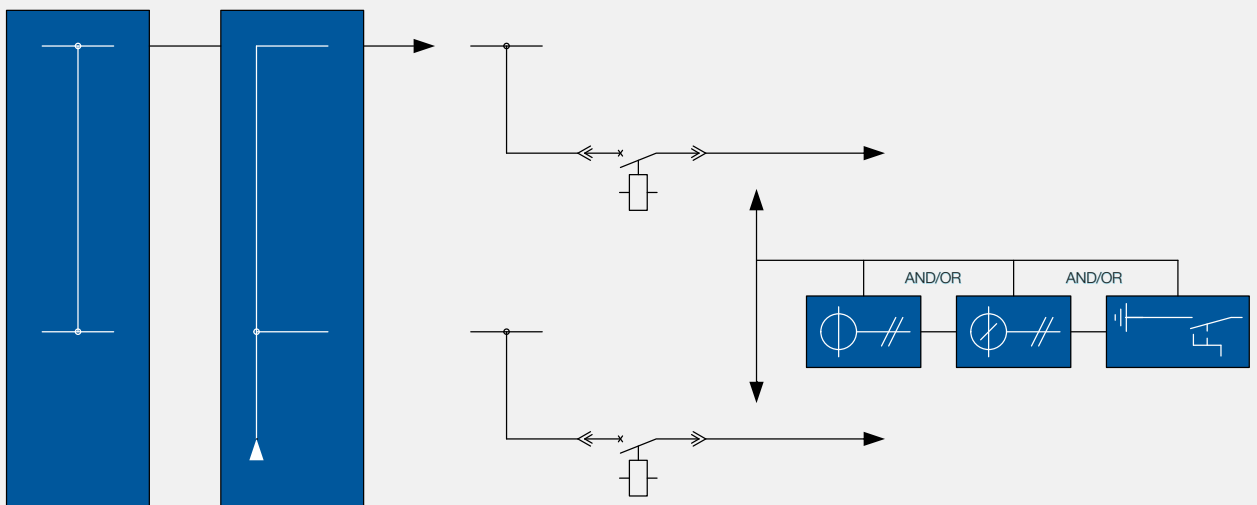
- 1) Low voltage compartment
- 2) Contactor compartment 1
- 3) Contactor compartment 2
- 4) General bar compartment 1
- 5) Output cable and CT compartment 1
- 6) General bar compartment 2
- 7) Output cable and CT compartment 2
- 8) Ducts for evacuation of the gases

## Dimensions








Dimensions (mm)				
Cables entry	Current (A)	Height (X)	Width (Y)	Depth (Z)
Bottom entry	≤400 A	2,500	900	2,000
Top entry	≤400 A		900	2,200

## Possible Configurations



## General Comparison of WEG Switchgear

Designation	MTW03		MTW04				MTW05	
								
Rated voltage (Vr)	7.2	17.5	7.2	17.5	24	36	7.2	17.5
Rated current (A)	3,150	3,150	4,000	4,000	1,250	2,500	2,500	2,500
Three-phase symmetrical short circuit current (Icc) 1s (kA)	31.5	31.5	50	50	25	31.5	31.5	31.5
System for evacuation of the gases due to internal arc	Pressure relief covers "Flaps" (top)		Side duct		Pressure relief covers "Flaps" (top)		Side duct	
Internal arc classification	IAC BF ALR		IAC AFLR		IAC BFALR	IAC AFLR	IAC BF ALR	



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