

Medium voltage switchgear type W 24 - 901121

rated voltage 25 kV
rated current up to 1250 A



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ISO 9001
BUREAU VERITAS
Certification



General

The metal-enclosed, air-insulated medium-voltage switchgears, type W 24 can be universally applied. They range from the compact ring cable switchgears up to complex power distribution switchgears. The switch panels are type-tested in compliance with DIN VDE 0670, part 6 including Pehla directive no. 4.

The design of the air-insulated switch panels corresponds to the specifications of the DIN VDE 0670, part 6. The resistance to accidental arcs of the switch panels has been determined at 16, 20, 25 and 31.5 kA; 1 s, by and independent testing institute. The installed switchgear equipment is designed in compliance with DIN VDE 0670, part 1000.

The air-insulated medium-voltage switch panels are metal-encapsulated. The doors and covers of the switchgear are painted in structural paint (available in different colours according to the customer's request). The front of the switch panels has a single-wing door of steel plate with the door hinge optionally on the right or left. A window of compound glass is inserted in the door.

The cover in front of the bus bar area is either screwed on or designed as a door for the relay box positioned behind it. Bus bar area could be from panel to panel separated with insulating plate with bushings on request.

Above door, there is self-closing flap for inserting a glass-fibre reinforced plastic insulating plate when switch is disconnected and the door is closed. The panels have top covers of galvanized sheet steel for relief of pressure; are closed at the back and open at the bottom.

The switch panels are available as individual panels or as a switchgear unit, the equipment and panel sequence of which can be selected by the customer.

The optional interlocking features of the devices practically rule out any incorrect operation. All installed switchgear equipment can be operated manually or via motor-operated mechanism with closed panel door.

Cables could be connected using any standard cable heads.

There is an ability to install overvoltage limiters – Raychem SPA-I 24 in standard.

Connecting cables are conducted into the switch panels from below and are mounted on cross rails, which can be adjusted in two dimensions.

This switchgear guarantees the environmental compatibility, also in the event of a malfunction; there are no toxic reaction products under the influence of accidental arcs.

Technical data

rated voltage	25 kV
rated frequency	50 Hz
rated lightning impulse withstand voltage	125 kV
rated short-time withstand voltage	50 kV
rated short-circuit duration	1 s
rated current – panels with circuit breaker	630 and 1250 A
rated current – panels with load disconnecter H 27	400 and 630 A
rated current – panels with load disconnecter H 22	630 and 1250 A
rated short-time current – panels with circuit breaker	30 kA
rated short-time current – panels with load disconnecter H 27	20 kA
rated short-time current – panels with load disconnecter H 22	25 kA
rated peak current – panels with circuit breaker	75 kA
rated peak current – panels with load disconnecter H 27	50 kA
rated peak current – panels with load disconnecter H 22	63 kA
degree of protection	IP 3X

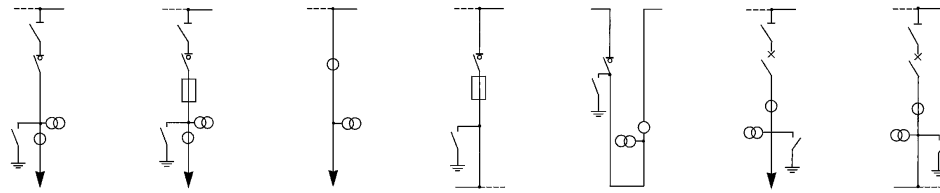
Panel dimensions

width	900 mm
depth	1100 mm
height (in reliance on the relay box height)	2100, 2280, 2460 mm

Relay box dimensions

width	900 mm
depth	up to 265 mm
height	455, 635, 815 mm

Air insulated medium voltage switch panels W 24 - 901121



Switch panel type W 24 - 901121	WK Cable panel	WT Transformer feeder panel	WM Measuring panel	WÜ Bus sectionaliser panel	WÜM Bus sect. / measuring panel	WL Circuit - breaker panel	WÜL Circuit-break. bus section. panel
Disconnecting switch	•*	•*	-	-	-	•	•
Load disconnecter / circuit-breaker	H 22 EA / EK	H 22 SEA	-	H 22 EK / EA / SEA	H 22 EK / EA / SEA	V 25 KUF	V 25 KUF
Earthing switch	•	•	•	•**	•	•	•
Current transformer	•	•	•	-	•	•	•
Voltage transformer	•	•	•	-	•	•	-

- Optional
- Not possible
- * Not possible with current or voltage transformers
- ** Not possible with load disconnecter H 22 SEA

Weights

Type	Designation	Weight [kg]
WK 24-901121-22	cable panel	245
WT 24-901121-22	transformer feeder panel	275
WÜ 24-901121-22	bus sectionaliser panel	300
WM 24-901121	measuring panel	240
WÜM 24-901121-27	bus sectionaliser / measuring panel	290
WÜL 24-901121-V625/V1225	circuit breaker bus sectionaliser panel	350
WL 24-901121-V625/V1225	circuit breaker panel	350

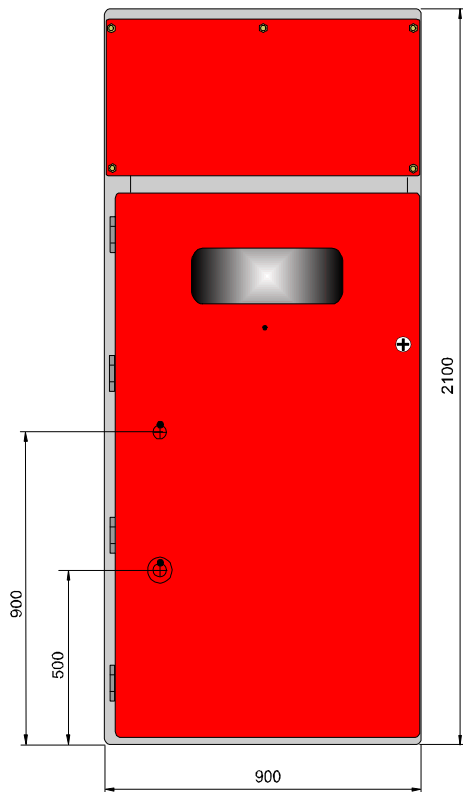
Equipment

- insulating protective plate in compliance with DIN VDE 0681 Part 8
- two ending metal sheets
- control levers for emergency manual control of used devices
- switchgear key

Auxiliary equipment

- panel illumination
- capacitive voltage testing system in compliance with (E) DIN VDE 0682 Part 415
- short-circuit indicator
- floor coverings

Switch panels type W 24 - 901121

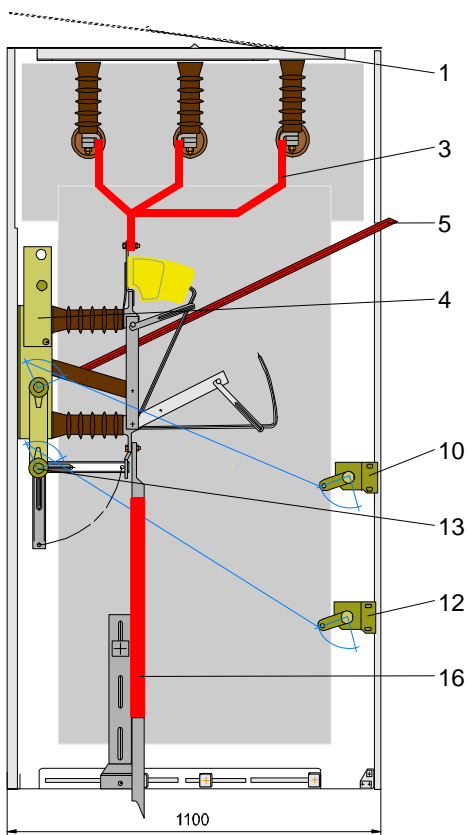


Switch panel type W 24 - 901121

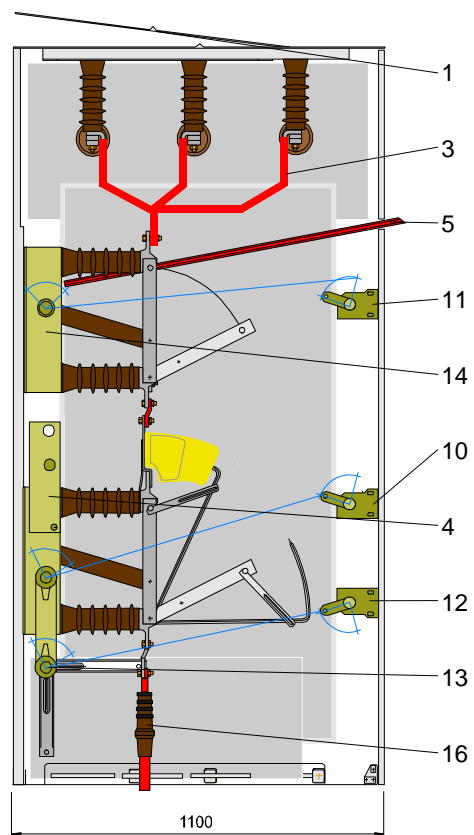
- Rated voltage 25 kV
- Rated current 630 and 1250 A
- Rated insulation level 125 kV

Position:

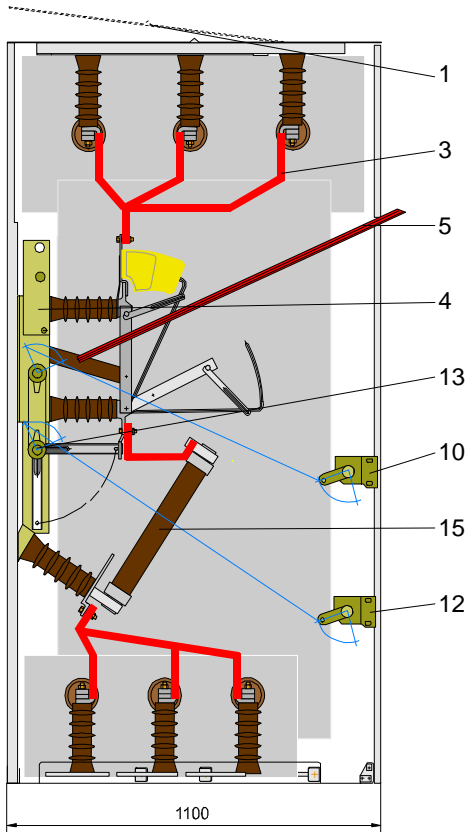
- 1 Pressure relief plate
- 2 Relay box
- 3 Bus terminal
- 4 Load disconnecter H 22
- 5 Withdraw able plate
- 6 Load disconnecter H 27
- 7 Current transformer
- 8 Voltage transformer
- 9 Vacuum circuit-breaker
- 10 Position indicator and actuation of load disconnecter
- 11 Position indicator and actuation of disconnector
- 12 Position indicator and actuation of earthing switch
- 13 Earthing switch
- 14 Disconnecting switch
- 15 HV-HBC fuse
- 16 Cable terminal



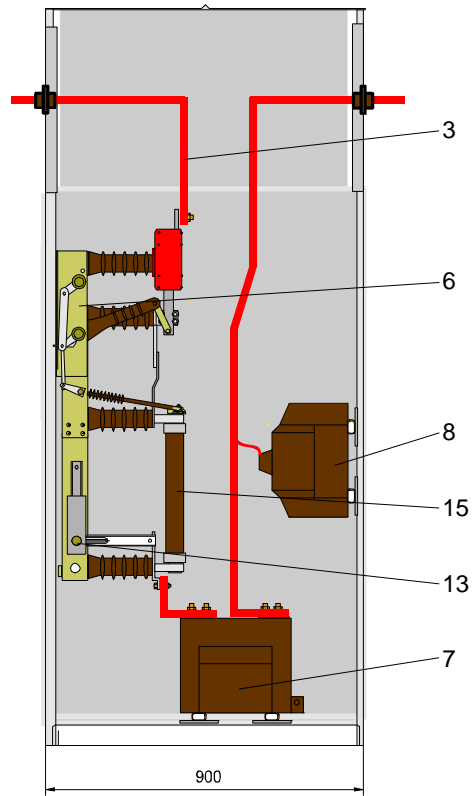
Cable panel with load disconnecter H 22



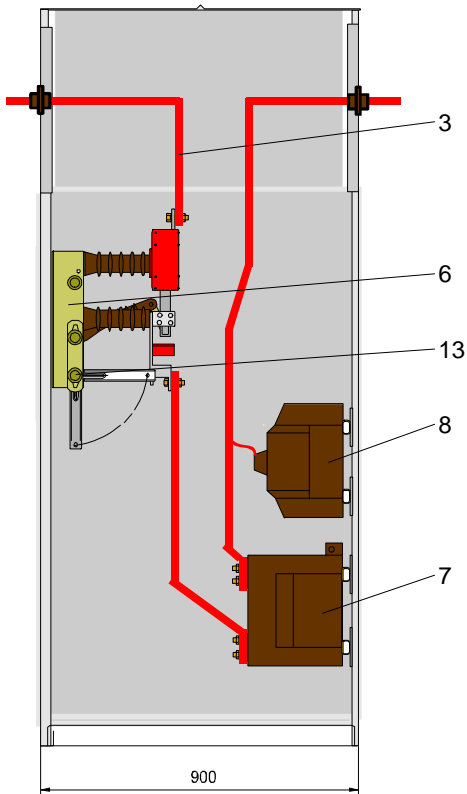
Cable panel with disconnector and load disconnecter H 22



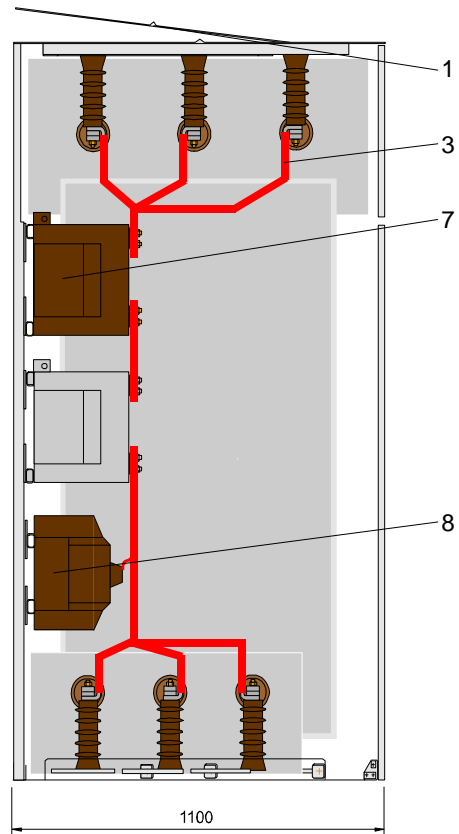
Bus sectionaliser panel
with fuse load disconnecter H 22 SEA



Bus sectionaliser / measuring panel
with fuse load disconnecter H 27 SEA*

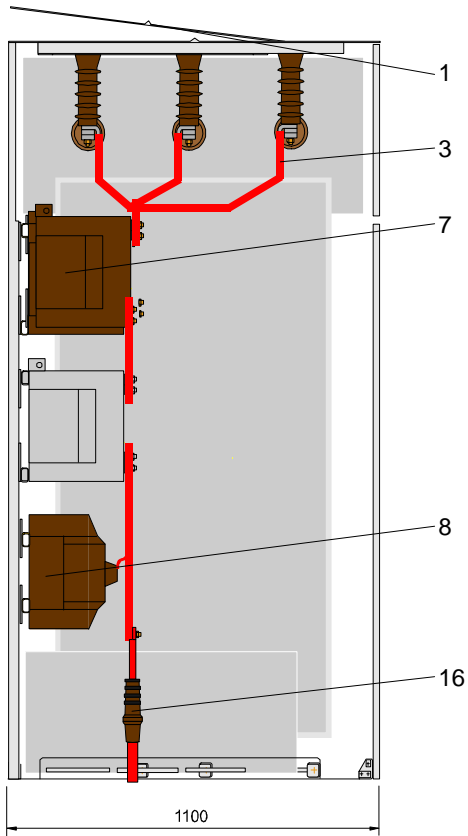


Bus sectionaliser / measuring panel with
(or without) load disconnecter H 27 EK / EA*

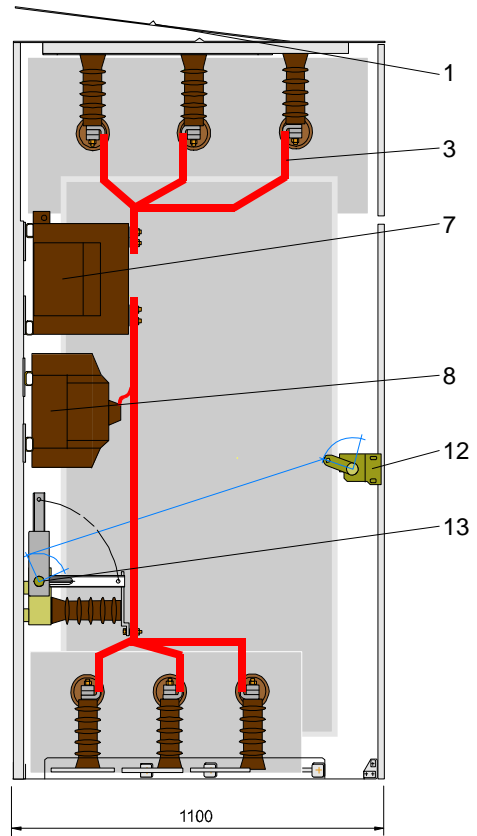


Measuring panel

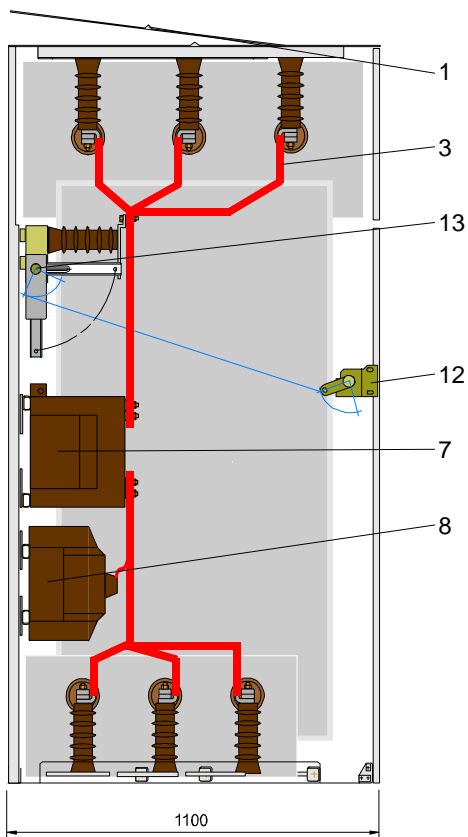
* the load disconnecter can also be installed on the right



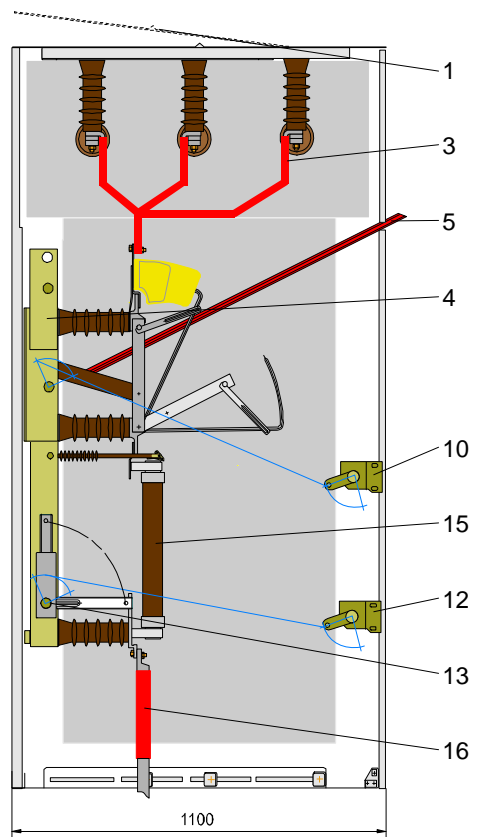
Measuring panel with cable terminal



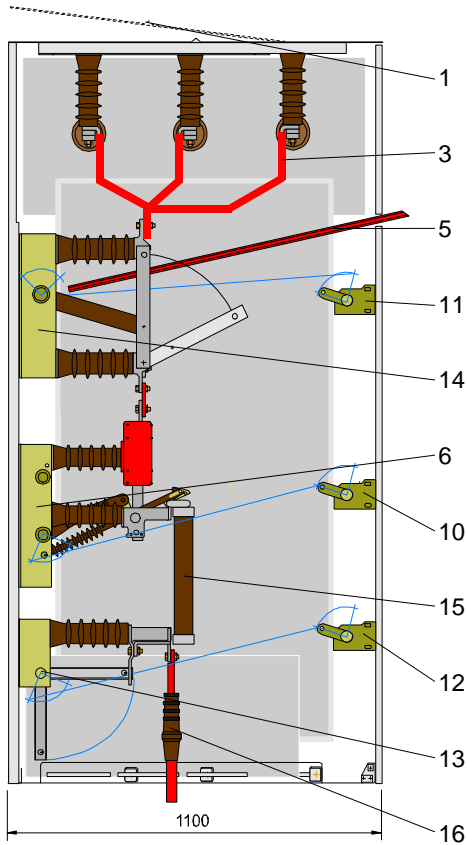
Measuring panel with earthing switch at the bottom



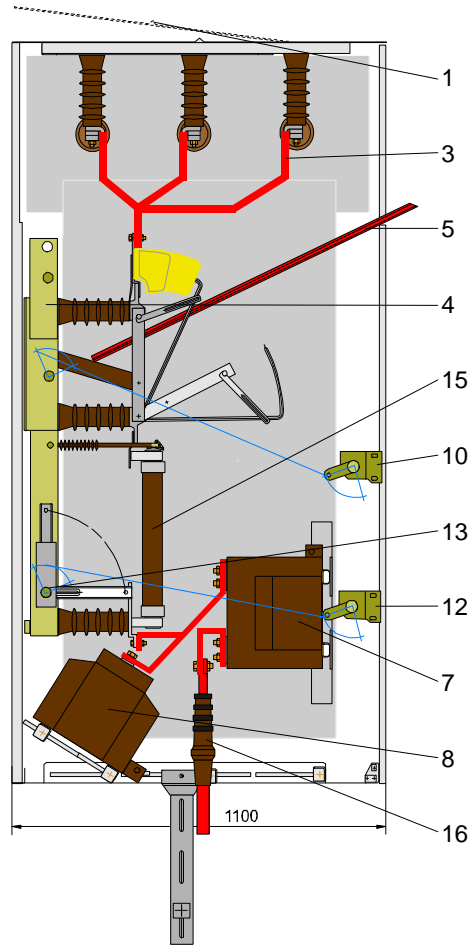
Measuring panel with earthing switch on the top



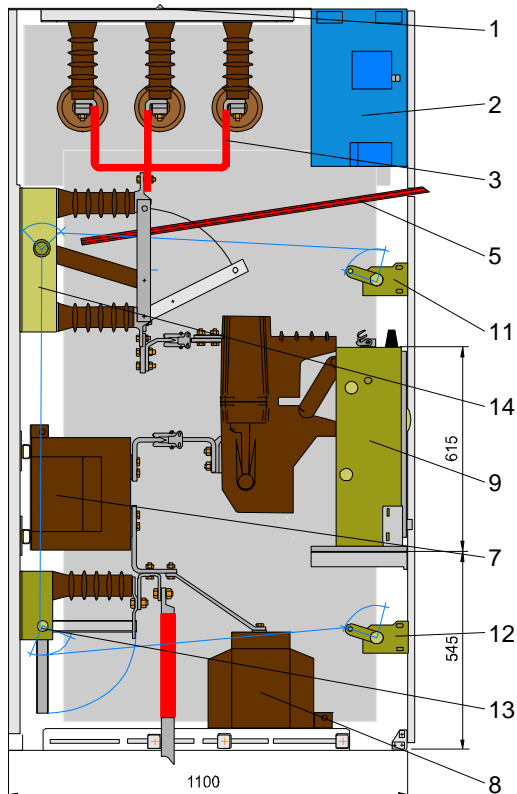
Transformer feeder panel with load disconnecter H 22 SEA



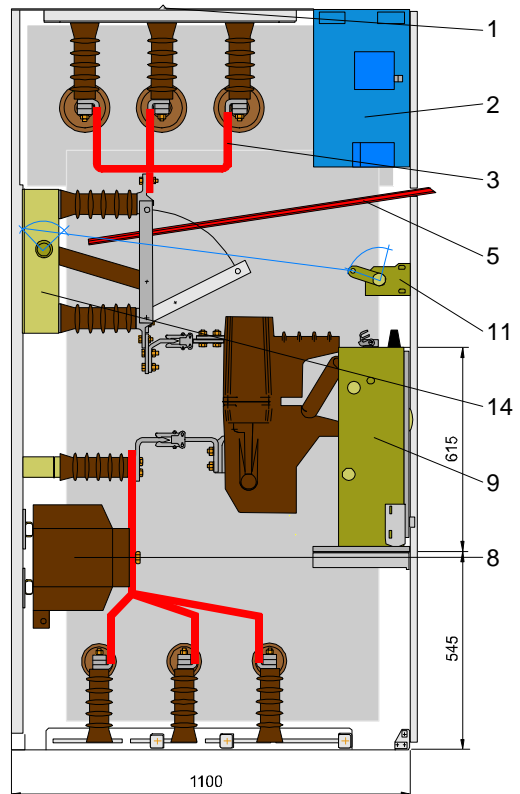
Transformer feeder panel with load disconnecter H 27 SuT



Transformer feeder panel with load disconnecter H22 SEA as well as current and voltage transformer

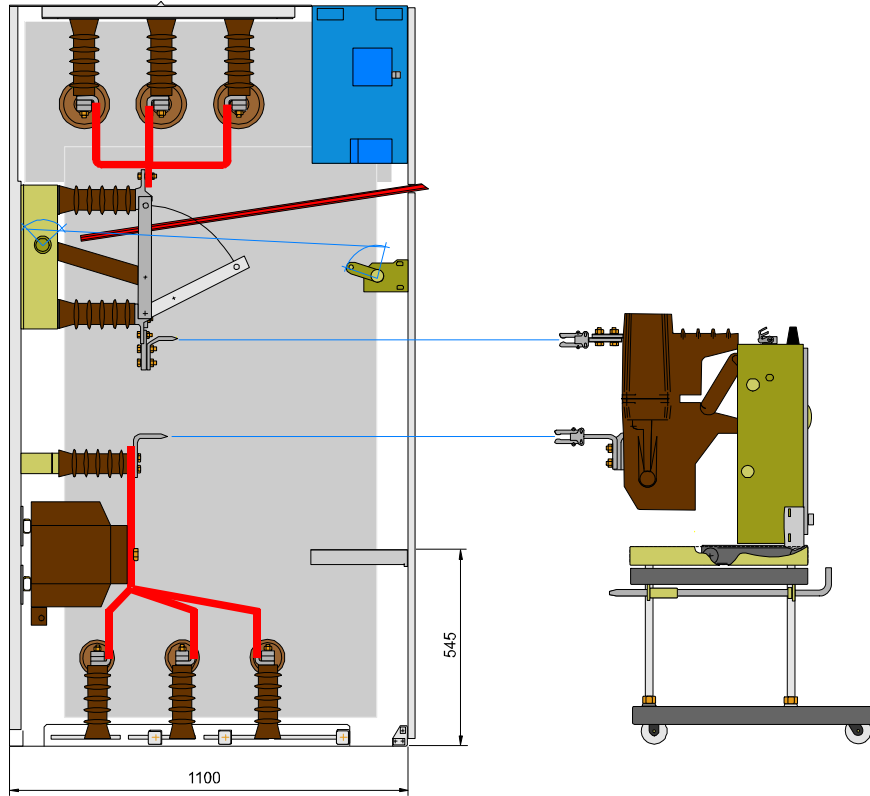


Circuit-breaker panel in mobile stationary-mounted design



Circuit-breaker bus sectionaliser panel in mobile stationary-mounted design

Circuit-breaker bus sectionaliser panel in mobile stationary-mounted design – auxiliary truck



Relay boxes

