DRIESCHER
Air-insulated Indoor - Compact measuring panel
W12/24-38,5
• Rated voltage up to 38,5 kV
• Rated current 630 A
General description

The metal-enclosed, air-insulated medium-voltage compact measuring panel; type W12/24 is used specifically when an extremely high supply reliability must be guaranteed and a high level of personal safety is essential. This panel fulfills the specific requirements of the user in all points and guarantees safe and problem-free use in the energy distribution network.

The switch panel frame is made of a screwed, hot-dip galvanised composite structure. On the front of the panels, there is a single-leaf steel sheet door with mimic diagrams. The door hinge can be on the right or left as desired. The door and the opening of the low-voltage compartments are painted and can be locked with profile cylinders.

Cables to be connected can be fed out at the bottom or at the rear and laid on adjustable beams. Standardised current and voltage transformers can be used in the measuring panel. The measuring panel can also be fitted with the arc-fault limiter ABS® or the quick earthing switch UFEST™. The panel is also available with h.v.h.b.c. fuses or as a compact switchgear with transformer switch-disconnector M3007.

The compact measuring panel is available in the following sizes and versions:
- **Type W12/24** - 1050 mm width, 800 mm depth and 1200 mm height (1400 mm with low voltage compartment).
- **Type W12/38,5** - 1500 mm width, 1000 mm depth and 1400 mm Height.

Equipment variants

- Panel lightning
- Busbar earthing system with locking ball-pins
- Capacitive voltage detection system
- Surge voltage protector (SVP)
- Short-circuit indicator
- Increased low voltage compartment
- Arc-fault protection limiter ABS®
- Quick earthing switch system UFEST™
- As option as compact switchgear with transformer switch-disconnector M3007 or
- as switchgear with h.v.h.b.c. fuses

*(More information on request)*
Standards

The air-insulated compact switchgear W12/24 is in compliance with the requirements of EN 62271-200. The switchgear is designed for use under normal operating conditions in compliance with EN 62271-1, protection degree IP 4X. The weight is approx. 400 kg, depending on the weight of the used transformers. The compact switchgear and the switches are in compliance with the requirements of:

EN 62271-1
EN 62271-200
EN 60282-1

Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>W12/24</th>
<th>W12/38,5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Rated voltage</td>
<td>( U_r )</td>
<td>12/24 kV</td>
</tr>
<tr>
<td>• Rated current</td>
<td>( I_r )</td>
<td>630 A</td>
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<tr>
<td>• Rated frequency</td>
<td>( f_r )</td>
<td>50 Hz</td>
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<tr>
<td>• Rated short-time current</td>
<td>( I_k )</td>
<td>20 kA</td>
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<td>• Rated short-circuit duration</td>
<td>( t_k )</td>
<td>1 s</td>
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<td>• Rated peak withstand current</td>
<td>( I_p )</td>
<td>50 kA</td>
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<td>• Rated lightning impuls withstand voltage</td>
<td>( U_p )</td>
<td>125 kV</td>
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<tr>
<td>• Rated power-frequency withstand voltage</td>
<td>( U_d )</td>
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<tr>
<td>• Fault arc qualification</td>
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<td>IAC AFL 20 kA 1s</td>
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<tr>
<td>• Degree of protection</td>
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<td>IP 4X</td>
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</table>

Designs / Versions W12/24

Fig.: Side views - Compact measuring panel W12/24 examples, Switchgear with Transformer switch-disconnector M3007, Switchgear with h.v.h.b.c. fuses