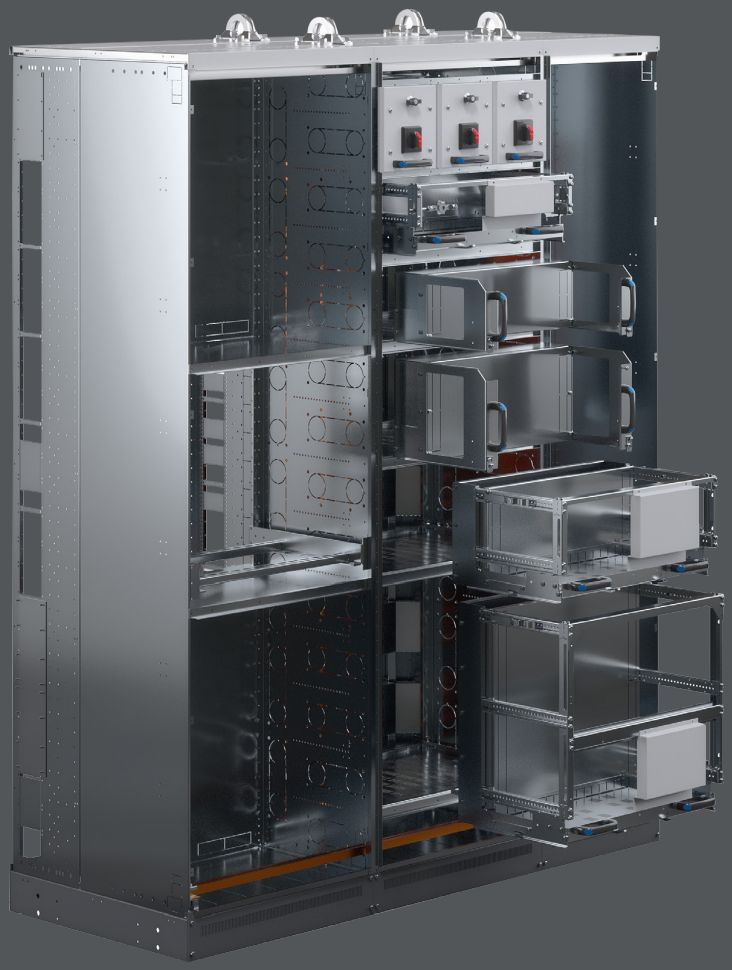
LV Distribution & MCC Panels



SLV Series

Switching Life to Infinity

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LV Distribution & MCC Panels
SLV Series

SLV series stand alone panels are designed for low voltage and high current applications and are suitable for expansion by combining them side by side. The fully modular structure provides ease of assembly and disassembly, and allows the interior design to be easily configured suitable for the intended use. Our panels suitable for indoor usage, are designed from IP 31 to IP 55 protection degree.

The framework of the panels is manufactured with 2 mm and door of the panels is manufactured with 1,5 mm high quality galvanized steel and all outer surface are protected against corrosion with electrostatic powder paint.

SLV series panels are presented to you as empty as well as as electro-mounted (such as distribution panel, control panel, isolation panel, medical isolation panel, compensation panel) in accordance with your projects.

Advantages

- Functional and Robust framework structure manufactured with 2 mm galvanized sheet steel
- Four different points locking system enables the door to be fixed to the framework
- Reusable washable filter and filter holder grid design
- Allow to expand side by side for multiple combinations
- -5 to 40°C operation temperature due to its fabricated cast gasket.
- Protection of all doors and outer surface parts against corrosion with electrostatic powder paint
- Allow to use in various combinations by sliding the part of the bottom cover assembly and brush that is fixed easily to the assembly
- Specially designed natural ventilation and forced ventilation module
- Allow to intervene without removing the cover plate thanks to hinged structure

Application Areas

- Industrial Facilities
- Power Generation
- Power Distribution
- Motor Control Centers
- Power Factor Correction
- Automation Systems

Technical Features

- Application : Indoor
- Modularity : Fully Modular & Expandable
- Degree of Protection : IP 31 / IP 55
- Mech Impact Resist. : IK 10
- Framework : 2 mm Pre-Galvanized Sheet Steel
- Paint : Eletrostatic Powder Paint
- Color : RAL 7015 – RAL 9003

Standards

- IEC 62208
  Empty Enclosures for LV Switchgear and Controlgear Assemblies
- IEC 61439-1
  LV Switchgear and Controlgear Assemblies
- IEC 60529
  Degrees of Protection provided by Enclosures (IP Code)
- IEC 62262
  Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

Technical Specifications

Descriptions		
Material	Framework	: Sheet steel 2.0 mm
	Door	: Sheet steel, 1.5 mm
	Rear & Side covers	: Sheet steel, 1.5 mm
	Gland plates	: Sheet steel, 1.5 mm
	Mounting plate	: Sheet steel, 1.5 mm
Surface finish	Framework	: Pre-Galvanized
	Door	: Powder-coated
	Rear & Side covers	: Powder-coated
Color	RAL 7015 – RAL 9003	
Modularity	Fully Modular Structure	
Application	Indoor	
Degree of Protection	IP 31 / IP 55	
Mechanical Impact Resistance	IK 10	
Sealing	Polyurethane Cast Gasket	
Number of doors	1	
Operating Temperature	-5 °C, +40 °C	
Metal Partitioning	Form 1	

Dimensions

Width	Depth							Height
400	400	500	600	700	800	900	1000	1900
								2100
								2300
500	400	500	600	700	800	900	1000	1900
								2100
								2300
600	400	500	600	700	800	900	1000	1900
								2100
								2300
700	400	500	600	700	800	900	1000	1900
								2100
								2300
800	400	500	600	700	800	900	1000	1900
								2100
								2300
1000	400	500	600	700	800	900	1000	1900
								2100
								2300
1200	400	500	600	700	800	900	1000	1900
								2100
								2100

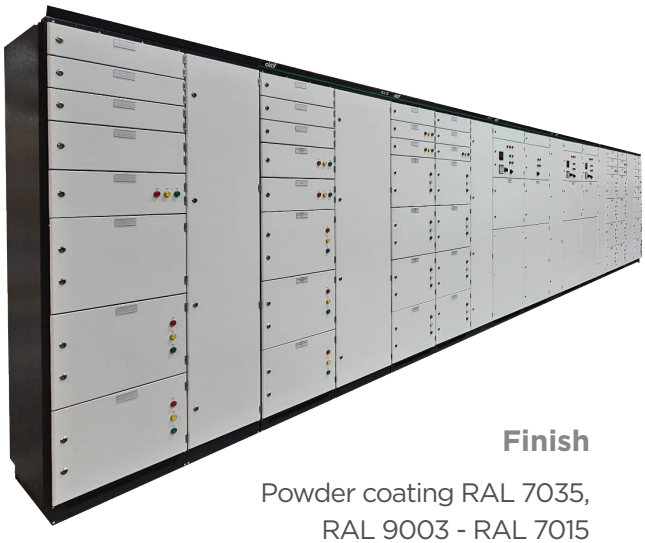
**100 mm base height is included in the panel height.*

LV Distribution & MCC Panels
SLV-E Series

SLV-E is a competetive structure for the industrial use. The cell centre system is DNV-GL certified, so it is suitable for the most demanding applications.

SLV-E can be made one-sided or twosided, and the variations include L and U -shapes. One cell centre can have more than one bus bar solution. The bus bars can be installed at any height, either in the middle section, in the back or at the top of the center. The bus bars can be made of either aluminium or
copper.

Type-tested withdrawable or removable units have been designed for easy maintenance and replacement. The unit structure is compact, and comes equipped with ventilation and locking and a separate compartment for cables and connections.



Finish

Powder coating RAL 7035,
RAL 9003 - RAL 7015

Standards

- EN 60529
- EN 62262
- IEC/EN 61439-1
- IEC/EN 61439-2
- IEC/EN 61439-3
- IEC/EN 62208

Dimensions

Width	200	300	450	600	750	900	1050
Height	1680	1820	1960	2100			
Depth	500	650	800	1000			
Base	50	100					

Electric Features

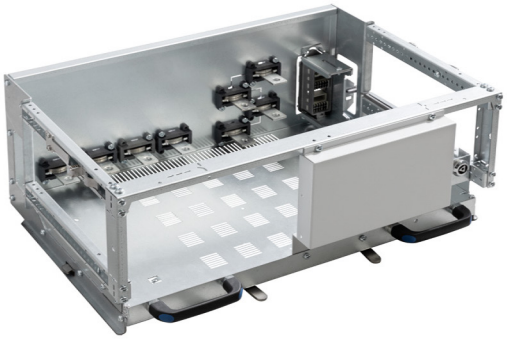
Nominal Voltage U_n	Insulation Voltage U_i	Nominal Current (Horizontal Busbar)	Nominal Current (Vertical Busbar)	Rated Short Time Withstand Current I_{cw}	Peak Value of Withstand Current I_{pk}	Nominal Frequency f	Arc Shortcircuit Strength
<- 690V	1000V	<- 3200A <- 5000A	<- 1280A <- 1500A	<- 100kA	<- 220kA	50 - 60Hz	50kA/0,3s (725V)

Mechanic Features

Enclosure Class	Impact Strength (Outer/Inner)	Type of Subdivision	Distance Between Insulators	Material Strength of Doors
<- IP55	IK09/07	2, 3, 4	350mm - 450mm	1,4mm

Materials

Frame	Insulating Flanges	Protective Screens
hot galvanized sheet metal	PC	hot galvanized sheet metal



The withdrawable or removable units are easy to maintain and replace.

LV Distribution & MCC Panels
SLV-F Series

The SLV-F series panels can be combined in numerous configurations, ranging from small-scale electrical socket-lighting panels to industrial distribution panels in L and U shapes.

In the SLV-F system, the side panels can be installed last after the cabinet has been furnished and cabled.

Most frame parts have been provided with pre-punched holes, which makes protective grounding easy. Doors are grounded through the frame structure via hinges and screws. Compartmentalization and depressurizing ceiling structure contribute to user safety in the event of a short-circuit.

Finish

Powder coating RAL 7035,
RAL 9003 - RAL 7015

Standards

- EN 60529
- EN 62262
- IEC/EN 61439-1
- IEC/EN 61439-2
- IEC/EN 61439-3
- IEC/EN 62208

Dimensions

Width	300	450	600	750							
Height	140	280	420	560	700	840	980	1120	1400	1680	1960
Depth	80	160	250	320	510						
Base	40	140									

Electric Features

Nominal Voltage U_n	Insulation Voltage U_i	Nominal Current I_n	Rated Short Time Withstand Current I_{cw}	Peak Value of Withstand Current I_{pk}	Nominal Frequency f	Arc Shortcircuit Strength
<- 690V	1000V	<- 1000A <- 3150A	<- 21,6kA <- 60kA	<- 42,6kA <- 132kA	50 – 60Hz	-

Mechanic Features

Enclosure Class	Impact Strength (Outer/Inner)	Type of Subdivision	Material Strength of Doors
<- IP55	IK09/07	2, 3, 4	1,4mm

Materials

Frame	Insulating Flanges	Protective Screens
hot galvanized sheet metal	PC	hot galvanized sheet metal / PVC

LV Distribution & MCC Panels

SLV-C Series

Designed for demanding outdoor conditions, the cable distribution and protective cabinets are made of AlMg3 marine aluminium and galvanised steel sheeting.

SLV-Cseries is developed to provide effective protection to low-voltage and instrument centres. The robust structure consists of two main parts, the protective cabinet and the base, which are easily assembled and installed with screws, nuts, and rivets.

The protective cabinet is available in various sizes, and its fastening mechanism has been designed to allow for easy installation of the SLV-F series enclosure centre inside it. Depending on their size, the cabinets come equipped with either one or two doors. The doors have hinges, three-point locking, and a hold-open hook for locking the door open during operation.

Finish

Powder coating RAL 7035, RAL 9003 - RAL 7015

Standards

- EN 60529
- EN 62262
- IEC/EN 61439-5
- IEC/EN 62208

Dimensions

Width	400	600	850	1050	1350	1600	1900
Height	1120	1405	1685	1965			
Depth	360						
Base	300	700					

Electric Features

Nominal voltage U_n	Insulation voltage U_i	Nominal current I_n	Rated Short Time Withstand Current I_{cw}	Peak Value Of Withstand Current I_{pk}	Nominal frequency f	Arc Shortcircuit Strength
-	-	-	-	-	50 – 60Hz	-

Mechanic Features

Enclosure Class	Impact Strength (Outer/Inner)	Type of Subdivision	Material Strength of Doors
<-IP34D	IK10	-	2,5 mm

Materials

Frame	Insulating Flanges	Protective Screens
AlMg3	-	-

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