

# S·E·P<sup>®</sup>

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## EUROPE



PRODUCT OVERVIEW 2024



The specialist in products for small and medium-sized  
electrical distribution cabinets and panels



Online Configurator



## Page Subject

3. Content
4. Explanation of how to use this catalog with QR code
5. Intro QR code
6. The lead role for electrical cabinets
6. Company Schotman Elektro B.V.
7. kWh Energy meters - surge protection devices - sockets (WCD)
8. Bell transformer - DIN Rail Accessories - Timer - Lock-out Safety Box
9. Universal Terminals - Connection Terminals - Distribution blocks
10. Power Distribution Blocks - Connection Wiring Boxes - Rail Clamps
11. Cable Glands - Ferrules -Terminal Blocks - Markers
12. Encoding - Stickers - Cable Lug - Neoprene Grommet - Wiring
13. Connection Bridges - Busbars - End Covers - Branch Terminal - Covers
14. Fastening Material - C Profiles -Distribution Blocks
15. Emergency Lighting - UPS - Transformers
16. Distribution Boxes - Cover Strips
17. Emergency Lighting - UPS - Transformers
18. Distribution Boards (Cabinets) PRO series
19. BUSBAR SYSTEMS (SPECIAL PRODUCTS)



## Use Tablet or Mobile for QR code

**Dear valued contact,**

We are pleased to introduce our compact pocket booklet, designed to provide you with quick and convenient access to all the information regarding our product groups. This content is directly linked to our website, offering essential resources for the construction of comprehensive electrical cabinets.

With the inclusion of printed QR codes in this booklet, you'll have immediate access to the specific information you require on our website.

Should you have any inquiries or require further information, please don't hesitate to contact us at your convenience via phone or email.

Best regards,

Sales Team  
Schotman Elektro



## Welcome to Schotman Elektro BV

**Schotman Elektro is the top electrical trading company and manufacturer in the Netherlands.**

We specialize in high-quality distribution cabinets, modular components and connection materials for electrical cabinets and panels. Our headquarters are located in the city of Assen. We're your go-to partner for sales and distribution of our SEP and GACIA products.

As an innovative organization, we're committed to developing, manufacturing, and delivering smart products to our wholesalers and partners. With our advanced warehouse facilities, we maintain our complete range in large quantities in stock.

Our expert technical team is always ready to provide you with advice and customized solutions for all types of distribution cabinets, whether they're intended for residential or utility applications.



**Technical support**



**High quality**



**Fast delivery service**



**Tailored package for the installation s**



**Personalized technical service**



## Sustainability and Innovation

Innovation in electrical engineering stands as one of the paramount themes. Without innovation, we risk stagnation in the future. It is particularly crucial to lead in product development and implement new technologies according to the latest standards. In our current landscape, selecting the right materials for your product poses a critical challenge. Given the strong reliance on electrical engineering in energy transition, significant progress is observed in distribution panels and the requisite materials. SEP Europe has seized that advantage, continuously engaging with the latest market developments.

**Our new products are extremely well-suited for residential sustainability.**

- Engineered for sustainability
- Space-saving solutions for distribution panels
- Comprehensive distribution panels tailored to the new trend of **SLIM COMPACT BUILDING**
- Ready and complete for on-site installation





# kWh meters - Surge Protection Devices - Sockets (WCD)

## kWh meters **CMD 3F digital serie**

- Tested according: Iec 620053-21
- Width: 125mm
- Available for direct and indirect measurement
- DIN Rail mounting
- Electronic and Digital Display



## kWh meters **LEM analog and digital serie**

- Tested according: IEC620053-21
- Width: 18mm, 36mm, 72mm
- Available for direct and indirect measurement
- DIN Rail mounting
- LEM012SS, LEM012SJ, LEM022SJ, LEM022SL, LEM012SD

## kWh meters **XBS MID certified**

- Tested according: IEC620053-21 / EN50470-3
- Width: 18 and 72mm
- Billable / MID
- DIN Rail mounting / standard modular
- 1 phase and 3 phase
- CE-EMC and CE-LVD



## Surge Protection Device: **OVB-SPD serie**

- Tested according: EN/IEC61643-11
- Width: 18 and 72mm
- Poles: 2, 4
- Installation method: NEN-EN-IEC-62305
- Signal contact: yes
- Class: IB-II-C-IIID and I+II B+C



## Modulair Sockets **WCD serie**

Suitable for use in households, utilities, and industrial applications.

- DIN Rail mounting
- Single and double sockets
- Available in gray and yellow
- With and without voltage indicator and volt meter

### General



The SEP CWCD and iWCD type sockets streamline the servicing, maintenance, and diagnostics of cabinets. These sockets come standard with child protection, ensuring their safety for use in non-industrial settings as well. Additional options, such as power indicators, lids, and voltage displays, complete the range. Mounting the sockets is also highly flexible, allowing for installation on DIN Rails, screws, or Mounting Plates with glue.



BTR24 BTR12

## Bell transformer **BTR serie**

- Universal bell transformer in 12VA and 24VA
- DIN Rail modular
- On/Off switch, short-circuit protection and temperature protection
- Compatible with Nest Hello, Ring, and standard doorbell systems
- IP20

## Beltrafo **expansionset +**

SEP expansion sets are designed for quick installation of an addition to an existing cabinet.

The sets are supplied complete with connecting wires and connection materials, ensuring that users always have the correct components for a complete installation.



## Digital weekly time switches **CPTS serie**

- DIN-Rail modular
- Channels: 1 / contact: 1 change-over
- Voltage type of power supply voltage: AC
- Power supply voltage: 110-230
- Frequency of power supply voltage: 50



## Lock-Out Set in mini compact box **SAF-010 SAFETY LOCKS**

- Personal protection a must for every electrical installer
- Complete set for ensuring safety during installation of circuit breakers or equipment repair
- All parts can also be ordered separately
- Universally applicable



## A MUST-HAVE FOR EVERY ELECTRICAL INSTALLER!

The contents are also available for individual purchase





## Universal Terminal **AKN50CU serie**

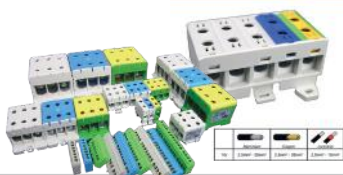
- Tested according to 60947-7-1/EN61238-1
- Poles: 1
- Nominal current: 145A-160A
- Labeling possibility
- Nom voltage: 1000VAC / 1500DVC
- Cross-section range, see all information on our website



CB | C E



CU 135A | AL 120A 5 polig



## Connection terminals **CK serie**

- Tested according: EN60947-7:2009/ EN61238-1:2003
- Mounting method: Screw Connection/DIN-Rail

- CK1 2,5 - 35mm<sup>2</sup>
- CK1 2,5 - 50mm<sup>2</sup>

C E

## Terminal Covers for CK series:

### **CK61, CK66 en CK71 serie**

- Universal solution suitable for aluminum and copper connections ranging from 1.5mm<sup>2</sup> to 240mm<sup>2</sup>.
- Depending on suitability for DIN Rail and bottom mount
- Suitable for powering distribution cabinets and control panels and more



C E



## Marking Strips for Terminal (cover) **CK serie**

- Large complete range of markers.
- When combined with CK Covers, you can label the terminal blocks for clarity and better organization, according to chosen functionality.

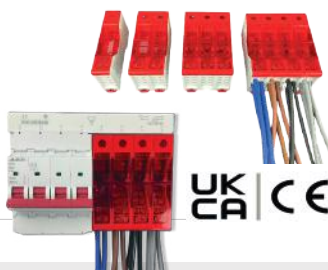
C E

## Terminal Blocks **LTB serie**

- Entire series available in gray, blue, and green.
- Poles: 17, 12, and 15
- Flexible wire diameter: 10mm<sup>2</sup>.
- Solid wire diameter: 16mm<sup>2</sup>.



C E



## Distribution Blocks **HJ1-9 serie**

- Poles: 1, 2, 3, and 4.
- Configuration: 8x 6mm<sup>2</sup>.
- Solid wire diameter: 16mm<sup>2</sup>.

UK CA | C E

## Power Distribution Blocks **PDB serie**

- Tested according: IEC 60497-7-1 / EN 60998-1 BS IEC 60947-7-1 / BS EN 60998-1
- DIN Rail / bottom, mounting
- Connection method: Hexagon screw
- Protection: IP 20



## Connection Wiring Boxes. 100A **BVT serie**

- Tested according: 60947-7-1
- Poles: 2 and 4 with cover
- Nominal current: 100A at 40°C
- Frequency: 50/60Hz (AC+DC)
- Cross-sectional range: 50mm<sup>2</sup>
- Insulation voltage: 500V



## Distribution Boxes . 125 en 160A **CVT serie**

- Tested according: 60947-7-1
- Poles: 2 and 4 with cover
- Nominal current: 125A or 160A (CVT1411)
- Frequency: 50Hz
- Low and compact design

Also referred as a Distribution Block



## CU Rail Clamps **KK serie**

- Suitable for: flat rail
- Max. conductor cross-section: 120
- Current rail thickness: 0 - 10
- Suitable for connection of round conductor
- Choice of 10 sizes
- Hexagon and star screw head



## Rail Clamp set **BS serie**

- Mounting method: Vertical branching
- Type: Vertical branching

The Branching Clamp is a complete set of components used to create a branch clamp for the main rail. Includes 1 x bottom nut plate, 1 x CU bracket, 1 x clamping bracket, 2 x hex bolts (M6) with cylindrical head flange.



## Hex Screw Bolt **M6x30 BZK serie**



## Rail System Support **LBS serie**

- poles: 1, 2, 3 en 4





## Cable Glands - Nuts and Plugs 7NCG serie

- M20x1.5 CableGland short thread
- Size: 6-12
- Thread type: metric
- Suitable for cable diameter 6-12
- Quality class: Polyamide (PA)

## Ferrules CIH / CIHT series

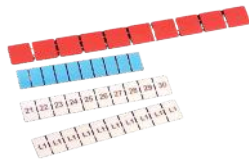
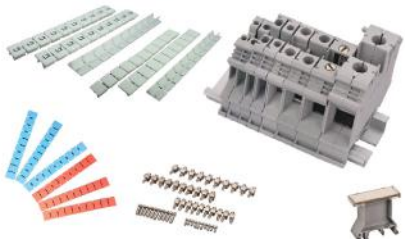
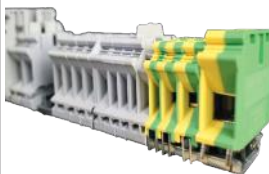


- Insulation material: Polypropylene (PP)
- Material: copper
- Insulated: yes
- Surface protection: tinned
- Construction: standard



## Terminal Blocks XIN-XTB1 series

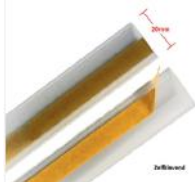
- Tested according: IEC60947-1
- Terminal Blocks, End Plates, Separating Plates,
- Twin- and Fuse-Terminals, Ground Terminals,
- End-Supports, and Jumpers



## Markers for Terminal Blocks XIN-ZB markers

- Plastic strips with printing
- Pitch: matching the terminal blocks
- Coding direction: horizontal
- Colors: white, red, blue





## Variety Encoding Material

- Double-sided A5 (Dutch)
- A4 document holder for placement in the meter cupboard
- Encoding strip: 1 meter

## Stickers for coding see our website for various designs

- Self-adhesive vinyl
- Color: yellow with black print
- Clarity in functions or warning symbols



## Cable Lug, Butt connectors and Pins

- Tested according: DIN46228
- Various sizes ranging from 10mm<sup>2</sup> to 120mm<sup>2</sup>
- Design: Straight, 45 and 90 degrees
- Available: M5, M6, M8, M10, M12, M14, M16

## Neoprene Stretch Tulles

These stretch tulles are used for the protection or finishing of cables and are available in various sizes and colors.

Our cable lugs are heated to 700 degrees to prevent breakage after crimping.



## Standard Connecting Wiring

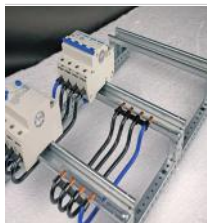
The SEP standard wiring is specially designed to establish reliable electrical connections. The assembly cord and fully assembled high-quality sleeve ensure a dependable connection while limiting heat generation. The standard lengths and cross-sections are carefully selected to minimize assembly time and lead time.

**Colors: grey, black, yellow, green, brown and blue**

- Tested according: NEN-EN-IEC 61439 / H07V2-K
- Fire retardant: IEC/EN 60332-1-2
- Diameters: 2.5 to 16mm<sup>2</sup>
- Lengths: 90mm to 900mm
- 90, 125, 185, 250, 265, 350, 500, 675, 800, 900 mm
- Conductor cross-sections: 2.5, 4, 6, 10, 16mm<sup>2</sup>







## Connection Bridges **KAM SERIES**

- Tested according: IEC 61439
- Poles: 3 and 4
- Types: 6
- Length: 125mm and 150mm

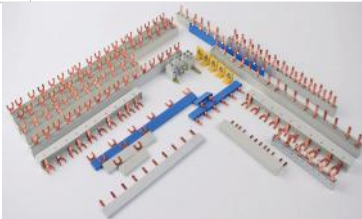


create overview and save time!



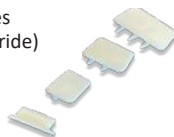
## Busbars **Fork or Pin**

- Tested according to: DIN EN 609439-1
- Facilitates quicker and easier connections
- Wide range of lengths and phases available
- Applicable for products with a pitch of 17.8mm
- Customizable comb sizes: 10mm<sup>2</sup> - 16mm<sup>2</sup> - 25mm<sup>2</sup>
- Standard: up to 125A
- NEW 16F03006... series: 16mm<sup>2</sup> and 125A



## End Covers / Caps **SVK serie**

- Applicable for: 1, 2, 3 and 4 phases
- Quality class: PVC ( Polyvinyl Chloride)
- Snap-on (Clip on) mountable
- Halogen free



## Terminal Blocks **FT series**

### Branch terminal **SEP series FT**

- Interconnectable
- Wide variety for all situations
- Color: Grey and blue for optimal visibility
- Pin and fork configurations
- 1, 2, and 3 connection positions

**NEW!**



**IK-D**



**IK**



## Busbar Protection Covers **IK-IK-D series**

- IK serie for application: touch protection rail module: 17.6 - 18mm / Fork or Pin
- IK-D covers for distribution busbar systems

## Power Terminal Blocks **BFT50 serie**

- Connection position: straight
- Connection method: screws
- Poles: 1

The BFT terminal blocks can be directly connected to a busbar with a connection range of 6-50mm<sup>2</sup> solid. Can be laterally combined into one unit. IP20 protection to avoid any risk of accidental contact.



# Fastening Material - C Profiles - Distribution Blocks



L: 5 meter

## C-profile SEP length 5 meters

- Material: galvanized steel
- C-profile: single
- For application and technical information, please refer to our website.

Transportation costs related to length will be applied!



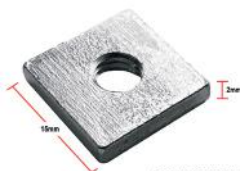
## related products



Klein verpakking: 18 stuks



Klein verpakking: 30 stuks



Klein verpakking: 100 stuks



## Connective Distribution Blocks MDB16

- Tested according: IEC 60947-7-1
- 12x16mm<sup>2</sup>
- Nominal insulation voltage Ui: 750 VAC
- Material: Thermoplastic
- Mounting method: DIN Rail
- Connection method: screw connection
- Flammability class of insulation material compliant with UL 94: VO



## SEP MDB-C Connection Covers for DIN Rails (set of 4)



The SEP MDB-16 distribution blocks can be directly mounted on the circuit breaker or switch. The MDB-16 block features 12 connections per pole, each suitable for up to 16mm<sup>2</sup> wiring. These terminal blocks can be laterally assembled, allowing for multiple distributions. With up to a maximum load of 320Amp, the blocks are ideal for power distribution.





# Emergency Lighting - UPS - Transformers



CE

## Emergency Lighting **EXPI EN EXPO SERIES**

Emergency lighting EXPI and EXPO series

- EXPI: Recessed emergency lighting fixture
- EXPO: Surface-mounted emergency lighting fixture, includes all accessories / pictograms etc.

## UPS **650HP without battery**

- Output power: 650VA
- Output voltage: 220-240 VAC
- Input voltage: 175 - 265 VAC
- Number of primary phases: 1

Includes all accessories / pictograms and more



CE



## Transformer various models

- Toroidal transformer: 80, 120, 160, and 200VA
- Table transformer: 70VA
- Block transformer: 100, 160, 250VA

CE

## Emergency Light 45x45mm - LED

- for use in the meter cupboard
- for socket in the basement
- handy flashlight
- always have light at hand



SEP Europe LND-10 is an emergency lighting unit that can easily be plugged into a socket. When the power goes out, the LED lights turn on and provide sufficient illumination. It is ideal to combine with a socket in the meter cupboard, allowing for quick identification of any issues during power outages. Additionally, it is convenient for use in hallways, providing light for safe navigation down stairs in the event of a power outage.

The compact unit can also be used as a flashlight by simply removing it from the socket and carrying it by hand.

**Tip:** Place the emergency light in the meter cupboard (socket) for easy access.



## Empty Distribution Boxes **CHB series**

- Empty distribution boxes available in 12, 24, 36 modules
- Supplied with plastic enclosures
- Including attributes (earth bar, connection bar, covers)

## Enclosures surface mount **LS series** and flush mount **LF series**

- Tested according: 61439-1 /-1 / -3
- Plastic enclosures surface mount: LS series
- Plastic enclosures flush mount: LF series
- Available in 6, 8, 12, 16, 24, and 36 modules
- Protection degree: IP40



LF6 flush mount 6 modules



LS24 surface mount 24 modules



## Enclosures for surface and flush mount applications **TS en TF series**

Plastic enclosure with

- **TS serie** in 4, 6, 8, 10, 12, 15, 18, 24 en 36 modules
- **TF serie** in 4, 6, 8, 10, 12, 15, 18, 24 en 36 modules

## Extension Distribution Boxes **S serie**

- In 1, 2, 4, 6, and 8 modules
- White plastic enclosure
- Integrated DIN-Rail
- Height 130mm - all types
- Depth 60mm - all types
- Protection degree: IP20



## Plastic Junction Boxes (Enclosures) **BT series**

- Modular construction (wall- ceiling mount)
- Equipped with mounting studs on the base plate for DIN Rail mounting and more
- Option for mounting with 20mm<sup>2</sup> gable glands
- Including cable glands
- Choice of 12 models (round-square-rectangular)

## Split Cover Strips **CHBS series**

- Compatible with, among others,  
**CHB, LF, LS, TS and S series**
- Universal applications for various brands
- Cover plates for neat finishing of the distribution cabinets
- RAL colors: 9002, 9010, 7035, 9016

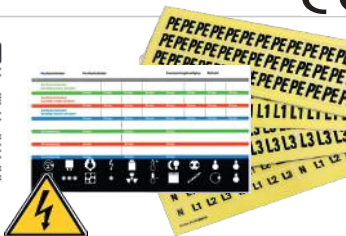


## Combination and Expansion Sets

### SEP+ Plus package

Planning to expand the installed distribution cabinets later? Make smart use of an SEP+ package. This package is pre-wired and prepared for quick installation on-site.

Order a complete set with just one item number.



## Vinyl Sticker Sheets in yellow/black CHB serie

- Various sticker sheets for better overview and clear marking of circuit breakers (components) in distribution cabinets.
- L1, L2, L3, N, PE, PEN, NLP, residual voltage caution
- Phase N-L1-L2-L3-DPN
- CHB circuit declaration stickers

## Spacer for modular components CSP

- 9mm CSP
- Universal size compatible with various brands
- Small, simple, functional regarding heat management



## Surface mount plastic Distribution Cabinets IP65 equipped with transparent door

- 1 row 18 module cabinet
- 2 rows 36 module cabinet
- 3 rows 54 module cabinet
- 4 rows 72 module cabinet



Welcome to Schotman Elektro,

As an electrical representative, I am here to personally guide you in exploring our extensive range of products and services. Whether you're seeking advice on the best electronic solutions for distribution boards or interested in our sales opportunities, I'm ready to assist.

With years of experience and expertise in the field of electrical engineering, my colleagues and I, can support you in making the right choices and providing solutions that meet your specific needs.

## Scan my business card!

I look forward to collaborating with you and seeing how we can help you achieve your goals.



# Distribution Cabinets (Boards) PRO series

## Double-insulated Distribution Cabinets PRO MK series. Surface mounted up to 160A

- 160mm depth (all versions)
- Enclosure: redesigned with practical details
- Faster assembly and installation
- Suitable up to 160A, equipped with blind door
- Top and bottle cable entries

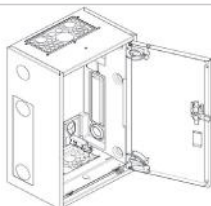


## Double-insulated Distribution Cabinets PRO S series IP40

- Surface-mounted up to 250A- 210mm depth (all versions)
- Enclosure: redesigned with practical details
- Faster assembly and installation
- Suitable for components up to 250A
- Depending on width: 1 or 2 doors

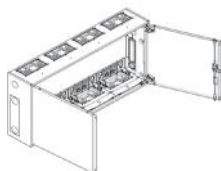


PRO IP40 S13 (b=300, h=500, d=210mm)



## SEP PRO SK series

Complete surface-mounted distribution boards comes with DIN mounting frame included. The cabinets are equipped with PE/N rail and have cable entries at the top and bottom. These distribution boards are suitable for modular components up to 160A (max. 400A).



**ONLY FOR SPECIAL ORDERS**



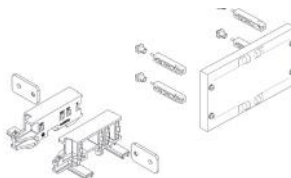
## Empty Distribution Boards PRO SP series IP55

- Delivered empty as standard, but can be equipped with units from our series, up to 400A
- 225mm depth for complete SP series.



## Building Unit Components for S and SP series

- Cover plates, mounting plates, support rails
- Terminal blocks, modular fields
- NH fuses



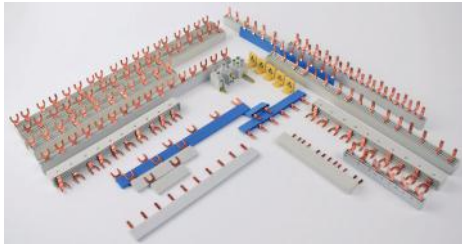
## Accessories for the PRO series

The accessories consist of various products, for examples:

- Cable Glands, Cable Entry, Lock Cylinders
- Suspension Kit, Cable Entry Plates, Connection Sets
- Horizontal and vertical shielding
- Terminal Rails, Coding Strips, Cover Plates and more



## Closed Busbar Systems (Special Product)



## General

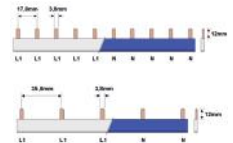
The SEP insulated busbar system is designed for connecting modular components, providing a reliable and efficient connection, reducing failures and enhancing heat management in the cabinet. When combined with accessories, the use of busbars can significantly decrease wiring within the cabinet, improving the overall appearance and clarity of the system.

## Technical parameters



Complies with	IEC 60439-1 2000-08
According	IEC 664
Busbar material	E-Cu-ETP
Isolation material	Ultramid PA6 glass fiber reinforced
Form test	125°C (after 1,8MPa)
Glow wire test	960°C according IEC60895-2-12
Flammability class	V0
Tracking index	550
Short circuit strength	25kA / 100A gl
Disruptive strength	36kV / mm
Climate stability	IEC 68-2
Operating voltage	500V AC
Surge voltage	4kV
Isolation group	According VDE 0110-T1
Overtoltage category	III
Degree of soiling	2
Halogen free	According DIN EN 50267-2-2
Colors	Related to RAL7035 and RAL5015 (grey/blue)
Type	PIN and FORK
Cross section	10mm <sup>2</sup>
Max. current one side line-in	63A
Max. current central line-in	100A*

Closed Busbar 10mm<sup>2</sup> - PIN (17,8mm)

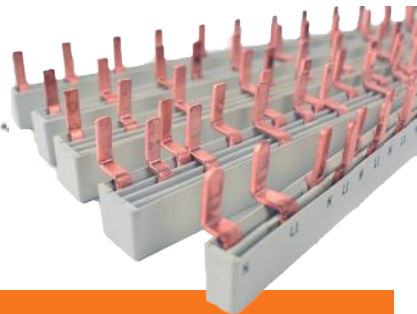
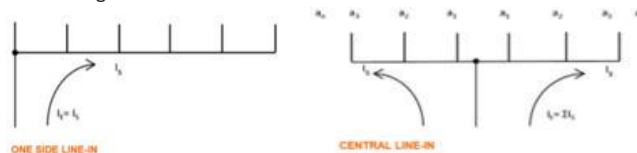


Example:



## General parameters

- Insulated busbar
- No cutting is necessary as the material is already at the required length
- Wide range of busbars
- Wide range of connection accessories



**We are also capable of producing custom-made busbars in large volumes to suit your needs.**



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