



ENYSTAR –  
DISTRIBUTION BOARDS  
UP TO 250 A WITH DOOR

[hensel-electric.de](http://hensel-electric.de)


**HENSEL**



[hensel-electric.de](https://www.hensel-electric.de)



## Distribution boards up to 250 A

Combinable enclosure system with door for the assembly of distribution boards up to 250 A to be operated by ordinary persons (DBO) in accordance with IEC 61439-3, Degree of protection: IP 65, made from polycarbonate, protection class II ,



Empty boxes

20\_29



Circuit breaker boxes

30\_35



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see our website  
[hensel-electric.de](https://www.hensel-electric.de)  
to get detailed information.

# MORE THAN 90 YEARS OF EXPERIENCE – YOUR ELECTRICAL ENERGY POWERS US

Electrical energy flows everywhere. It provides light, heat and movement. As a family-owned company operating worldwide, we guarantee the safe distribution of electrical energy in industry, commerce and infrastructure.

With over 1,000 employees, 640 of them in Germany, 14 subsidiaries in Germany and abroad, we have been operating successfully in the market for over 90 years. We work enthusiastically to take our products and services to the next level. Solutions for photovoltaics and e-mobility are becoming increasingly important. In this way, we are making an active contribution to the energy transition and working towards a safer electric future.



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for more detailed information.**



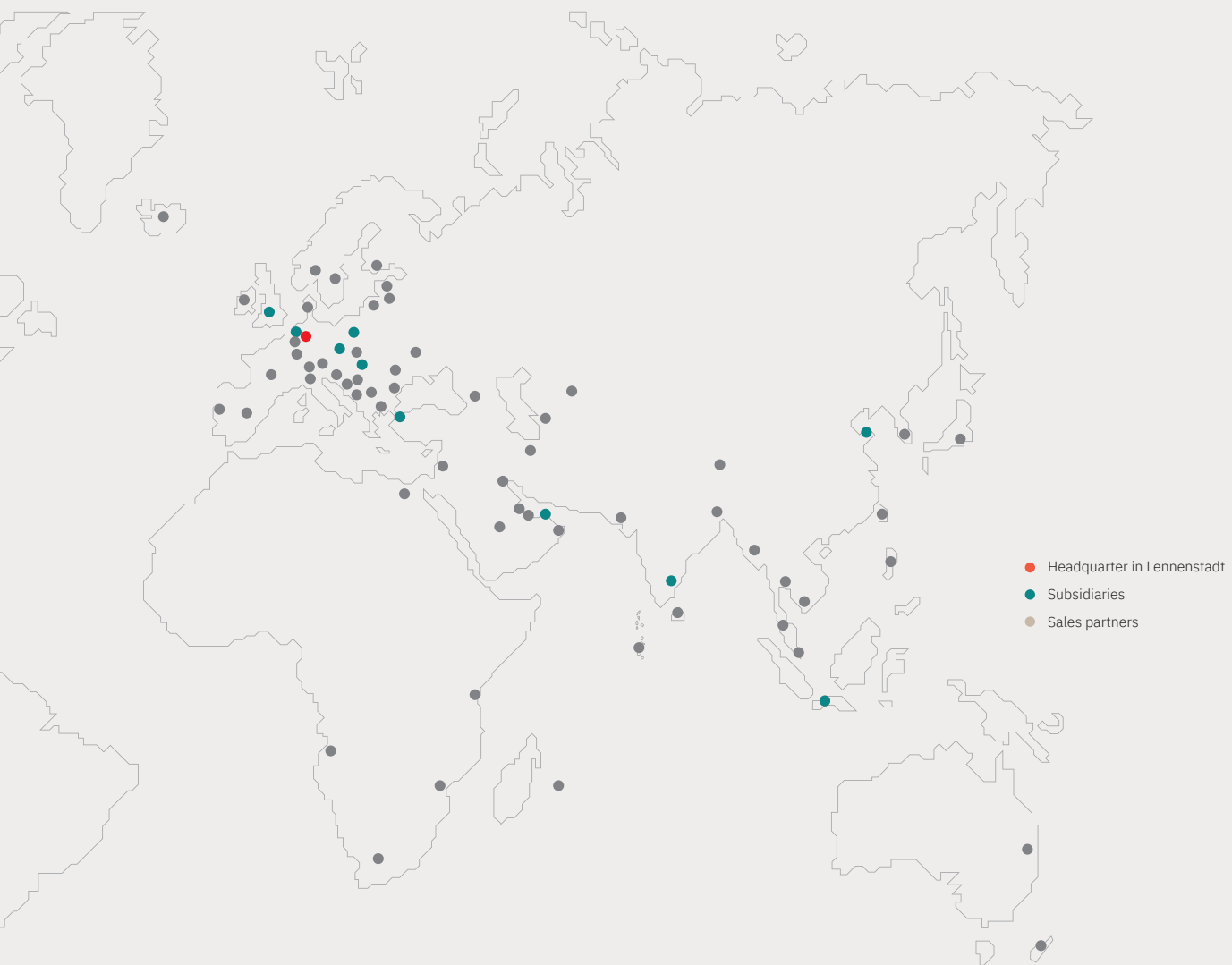
FAMILY  
COMPANY



SINCE  
1931

## International presence

HENSEL guarantees local support and a high degree of availability thanks to its 4 locations in Germany, 10 locations own by HENSEL and 60 international partners.



MORE THAN 60 INTERNATIONAL PARTNERS



ELECTRICAL INSTALLATION AND DISTRIBUTION SYSTEMS



1000 EMPLOYEES



13 SUBSIDIARIES NATIONALLY AND INTERNATIONALLY



# COMBINABLE ENCLOSURE SYSTEM

For the construction of distribution boards up to 250 A

IN ACCORDANCE WITH  
IEC 61439-3

IP  
65






For protected outdoor installation, here e.g. with a protective roof.

Suitable for interiors in industry and commerce.



- + Expandable in all directions
- + In accordance with IEC 61439-3
- + Distribution boards up to 250 A for operation by non-specialists (DBO)
- + Degree of protection IP 65
- + Protection Class II, 
- + EMC-compatible busbar system
- + Suitable for indoor and protected outdoor installation
- + Functional boxes with standardised assemblies up to 250 A
- + For rail-mounted devices up to 100 A and terminals, switchgear and fuses up to 250 A



## PRE-ASSEMBLED FUNCTIONAL BOXES

**Quick, easy and safe.**





## The Hensel advantages

### Material:

- + Burning behaviour: Glow wire test IEC 60695-2-11, self-extinguishing, flame retardant
- + UV-resistant in accordance with IEC 61439-1, para. 10.2.4:
- + The material is tested for UV resistance.  
Toxic behaviour: silicone- and halogen-free
- + Chemical resistance: resistant to acids, alkalis, petrol and mineral oil



## The Hensel advantages

### Doors:

- + All box sizes with door
- + Transparent or opaque doors
- + Door hinge changeable
- + Sealable
- + Locking options with tool or key
- + Operation of the units behind the door with contact protection
- + No protruding drives

## Fast box connection

- + Open box walls that can be closed quickly, easily and individually with closing plates and mounting flanges
- + Integrated seals
- + Secure plugged-in box connections



## Pre-assembled functional boxes

- + Functional boxes with cover as contact protection

## Accessories

- + Connection box for the installation of units that must be operated from the outside, such as plugs, push-buttons and switches.
- + Cable entry via mounting flanges up to 72 mm cable diameter
- + contactable safety devices

## MODULAR ENCLOSURE SYSTEM

**For the construction of distribution boards up to 250 A  
in accordance with IEC 61439-3**

4 BOX SIZES  
FREELY COMBINABLE!



### Can be combined in all directions

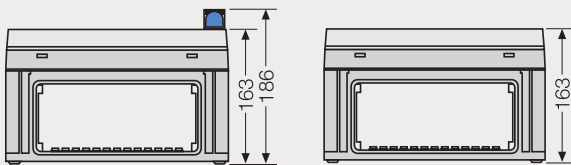
- + Four box sizes can be freely combined in all directions and can also be used as individual boxes.
- + The innovative enclosure system is ideally suited for the quick and easy construction of distribution boards up to 250 A.
- + Open side panels, integrated seals and secure plug connections ensure quick electrical installation.
- + The modular structure in a basic 90 mm pattern allows free design of the outer shape. Obstacles on the building structure can be easily built around.
- + With an intermediate frame, the enclosure depth of box sizes 2, 3 and 4 can be increased in 50 mm steps.



### Enclosure depths

with hand operation

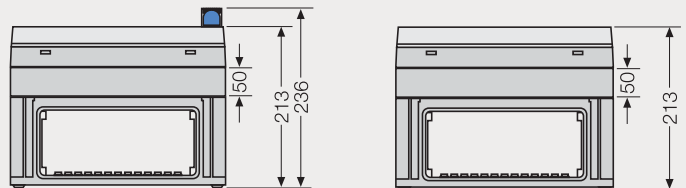
with tool operation



### Extension frame

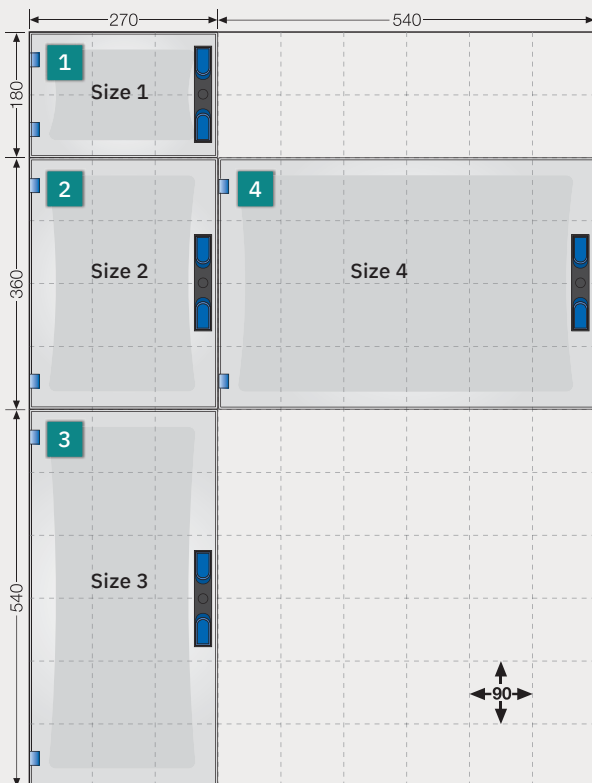
for extending installation depths by 50 mm with hand operation

with tool operation



### Distribution board with door

- + Combinable
- + Modular box system in a 90 mm pattern
- + 4 box sizes:  
270 x 180 mm, 270 x 360 mm, 270 x 540 mm and 540 x 360 mm
- + For the construction of distribution boards up to 250 A
- + Enclosures can also be used as single enclosures





# HIGH-QUALITY MATERIAL

## For demanding applications

- + Flame-retardant, self-extinguishing burning behaviour:  
Glow wire test 960°C in accordance with IEC 60695-2-11
- + UV-resistant



## TIGHT & SAFE

### In demanding environmental conditions



Safe, even in protected outdoor installations, e.g. with protective roof.

Ventilation option to reduce the formation of condensation



# ALWAYS THE RIGHT LOCKING SYSTEM

## For clear separation of access and operating areas



Operating areas for unskilled persons can be reached quickly and easily via door locking with hand operation



Devices which must only be operated by skilled persons, must be installed in a separate area which can only be opened using a tool

Hand operated doors in areas to which unskilled persons have access for operating devices

Locking facilities with keys prevent the unauthorized opening of doors

Standard tool operation for slotted screwdrivers (option triangle, square, double bit)





# SAFETY FOR PERSONS

## for persons

Protection covers for operating devices and bus-mounted devices for protection against contact







cover strips cover unused equipmentb openings from accidental touch



## COMBINABLE SOLUTIONS

**for the self-assembly of distribution boards up to 250 A**

An electrician can assemble the distribution alone.

Individual boxes with electrical functions.



# DEPENDENT ON THE SYSTEM

## Electrical parameters



Rated current: up to 250 A  
 Rated insulation voltage: 690 V a.c., 1000 V d.c.  
 rated short-time withstand current: max. 13 kA / 1 s

### Electrical Rated values

## System properties



### Environmental conditions

Ambient temperature  
 + for distribution boards in accordance with IEC 61439:  
 -5 °C to 35 °C, max. + 40 °C,  
 Relative humidity: 50% at 40 °C,  
 100% at 25 °C  
 + for empty enclosures: - 25 °C bis + 70 °C  
 The climatic influences and effects on the equipment are to be considered, see technical details /operating and ambient conditions



### Impact strength

Degree of protection against mechanical load  
 IK 08 (5 Joules) according to IEC 50102



### Application area

**The enclosures are suitable for outdoor installation, protected against weather influences.**  
 However, pay attention to the climatic effects on the installed equipment, see operating and ambient conditions in index technical data.



### Protection against foreign solid objects and direct contact

Dust-proof  
 Degree of protection IP 65



### Insulation

Insulated enclosures (Protection Class II)



### Protection against ingress of water with harmful effects

Protected against water jets  
 Degree of protection IP 65

## DEPENDENT ON MATERIAL

### Material properties: Polycarbonate



Glow wire test 960 °C in accordance with IEC 60695-2-11 self-extinguishing, flame-retardant

#### Burning behaviour



Resistance against acids 10% and alkaline 10%, petrol and mineral oil

#### Chemical resistance



UV-resistant in accordance with IEC 61439-1 para. 10.2.4: the material is examined for UV resistance

#### UV resistance



Silicone- and halogen-free

#### Toxic behaviour



# COMBINABLE ENCLOSURES WITH DOOR

**Can be combined in all directions.**

4 BOX SIZES  
FREELY COMBINABLE!



## Combinable enclosures with door



Empty boxes



Circuit-breaker boxes

## Combinable enclosures with door and closing plates

Empty and circuit-breaker boxes with closing plates



Box walls closed  
with closing plates



Order mounting  
flanges separately

# ENYSTAR

## EMPTY BOX

**for the assembly of distribution boards up to 250 A  
intended to be operated by ordinary persons  
in accordance with IEC 61439-3**


IP  
65







## System properties

- + All enclosure sizes with door
- + Transparent or opaque doors
- + Device installation either on mounting plates or DIN rails
- + Installation depths extendable by using extension frames
- + Enclosures can also be used as single boxes when enclosure walls are covered with closing plates
- + Door lockings with hand or tool operation
- + Protection class II, 
- + Degree of protection: IP 66
- + Material: PC (polycarbonate)
- + Colour: grey, RAL 7035



Please scan the QR code or see our website [hensel-electric.de](https://hensel-electric.de) to get detailed information.

ENYSTAR - EMPTY BOXES WITH TRANSPARENT DOOR  
DOOR LOCKING WITH HAND OPERATION

	<b>FP 0140</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 180 x 270 x 186 mm</li> </ul>	 
	<b>FP 0141</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 186 x 276 x 186 mm</li> </ul>	   
	<b>FP 0240</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 270 x 186 mm</li> </ul>	 
	<b>FP 0241</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 276 x 186 mm</li> </ul>	   
	<b>FP 0340</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 540 x 270 x 186 mm</li> </ul>	 
	<b>FP 0341</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 546 x 276 x 186 mm</li> </ul>	   
	<b>FP 0440</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 540 x 186 mm</li> </ul>	 
	<b>FP 0441</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 546 x 186 mm</li> </ul>	   

**FP 0461**

- + built-in dimensions W x H x D: 486 x 306 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 186 mm





**ENYSTAR** - EMPTY BOXES WITH OPAQUE DOOR  
DOOR LOCKING WITH HAND OPERATION

	<b>FP 0150</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 180 x 270 x 186 mm</li> </ul>	 
	<b>FP 0151</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 186 x 276 x 186 mm</li> </ul>	   
	<b>FP 0250</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 270 x 186 mm</li> </ul>	 
	<b>FP 0251</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 276 x 186 mm</li> </ul>	   
	<b>FP 0350</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 540 x 270 x 186 mm</li> </ul>	 
	<b>FP 0351</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 546 x 276 x 186 mm</li> </ul>	   
	<b>FP 0450</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 540 x 186 mm</li> </ul>	 
	<b>FP 0451</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 546 x 186 mm</li> </ul>	   

**FP 0471**

- + built-in dimensions W x H x D: 486 x 306 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 186 mm



ENYSTAR - EMPTY BOXES WITH TRANSPARENT DOOR  
DOOR FASTENER WITH TOOL OPERATION

	<b>FP 0100</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 180 x 270 x 163 mm</li> </ul>	
	<b>FP 0101</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 186 x 276 x 163 mm</li> </ul>	  
	<b>FP 0210</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 270 x 163 mm</li> </ul>	
	<b>FP 0211</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 276 x 163 mm</li> </ul>	  
	<b>FP 0310</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 540 x 270 x 163 mm</li> </ul>	
	<b>FP 0311</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 546 x 276 x 163 mm</li> </ul>	  
	<b>FP 0400</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 540 x 163 mm</li> </ul>	
	<b>FP 0401</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 546 x 163 mm</li> </ul>	  



**FP 0411**

- + built-in dimensions W x H x D: 486 x 306 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 163 mm



ENYSTAR - EMPTY BOXES WITH OPAQUE DOOR  
DOOR FASTENER WITH TOOL OPERATION

	<b>FP 0120</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 180 x 270 x 163 mm</li> </ul>	
	<b>FP 0121</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 126 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 186 x 276 x 163 mm</li> </ul>	  
	<b>FP 0230</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 270 x 163 mm</li> </ul>	
	<b>FP 0231</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 276 x 163 mm</li> </ul>	  
	<b>FP 0330</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 540 x 270 x 163 mm</li> </ul>	
	<b>FP 0331</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 486 x 216 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 546 x 276 x 163 mm</li> </ul>	  
	<b>FP 0420</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm</li> <li>+ dimensions H x W x D: 360 x 540 x 163 mm</li> </ul>	
	<b>FP 0421</b>	<ul style="list-style-type: none"> <li>+ built-in dimensions W x H x D: 306 x 486 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 546 x 163 mm</li> </ul>	  

**FP 0431**

- + built-in dimensions W x H x D: 486 x 306 mm, max. installation depth with built-in mounting plate 136 mm, with built-in DIN rail 125 mm
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 163 mm



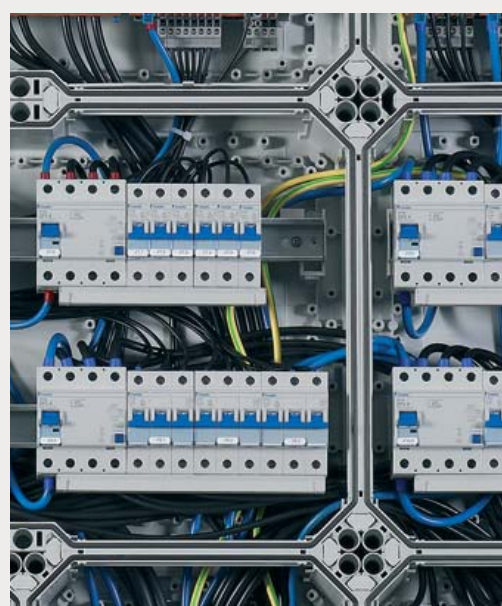


# ENYSTAR CIRCUIT BREAKER BOX


**with or without N and PE terminals**  
**for the assembly of distribution boards up to 250 A**  
**intended to be operated by ordinary persons**  
**in accordance with IEC 61439-3**

IP  
65





## System properties

- + Transparent doors
- + door locking with hand operation, lockable with tool or key
- + Circuit breaker boxes with or without PE and N terminals
- + Protection against direct contact with hazardous live parts for operable installation devices
- + Blanking strips for unused DIN rail openings
- + Attached labelling strips for circuit identification
- + Enclosures can also be used as single boxes when enclosure walls are covered with closing plates
- + Protection class II, 

- + Degree of protection: IP 66
- + Material: PC (polycarbonate)
- + Colour: grey, RAL 7035



Please scan the QR code or see our website [hensel-electric.de](https://hensel-electric.de) to get detailed information.

**ENYSTAR** - CIRCUIT BREAKER BOXES

WITH N AND PE TERMINALS, FOR THE INSTALLATION OF DIN RAIL EQUIPMENT UP TO 63 A

	<b>FP 1109</b>	<ul style="list-style-type: none"> <li>+ with 1x 9 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ PE/N 2 x 25 mm<sup>2</sup>, 8 x 4 mm<sup>2</sup>, Cu each</li> <li>+ dimensions H x W x D: 180 x 270 x 186 mm</li> </ul>	
	<b>FP 1108</b>	<ul style="list-style-type: none"> <li>+ with 1x 9 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ PE/N 2 x 25 mm<sup>2</sup>, 8 x 4 mm<sup>2</sup>, Cu each</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 186 x 276 x 186 mm</li> </ul>	  
	<b>FP 1219</b>	<ul style="list-style-type: none"> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 3 x 25 mm<sup>2</sup>, 12 x 4 mm<sup>2</sup>, Cu</li> <li>+ with 2x 12 modules (18 mm)</li> <li>+ dimensions H x W x D: 360 x 270 x 186 mm</li> </ul>	
	<b>FP 1218</b>	<ul style="list-style-type: none"> <li>+ with 2x 12 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 3 x 25 mm<sup>2</sup>, 12 x 4 mm<sup>2</sup>, Cu</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 276 x 186 mm</li> </ul>	  
	<b>FP 1319</b>	<ul style="list-style-type: none"> <li>+ with 3x 12 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 6 x 25 mm<sup>2</sup>, 24 x 4 mm<sup>2</sup>, Cu</li> <li>+ dimensions H x W x D: 540 x 270 x 186 mm</li> </ul>	
	<b>FP 1318</b>	<ul style="list-style-type: none"> <li>+ with 3x 12 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 6 x 25 mm<sup>2</sup>, 24 x 4 mm<sup>2</sup>, Cu</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 546 x 276 x 186 mm</li> </ul>	  
	<b>FP 1409</b>	<ul style="list-style-type: none"> <li>+ with 2x 27 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 6 x 25 mm<sup>2</sup>, 24 x 4 mm<sup>2</sup>, Cu</li> <li>+ dimensions H x W x D: 360 x 540 x 186 mm</li> </ul>	
	<b>FP 1408</b>	<ul style="list-style-type: none"> <li>+ with 2x 27 modules (18 mm)</li> <li>+ FIXCONNECT® plug-in terminal technology for PE and N</li> <li>+ per PE/N 6 x 25 mm<sup>2</sup>, 24 x 4 mm<sup>2</sup>, Cu</li> <li>+ with closing plates for all box walls</li> <li>+ dimensions H x W x D: 366 x 546 x 186 mm</li> </ul>	  



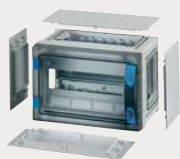
**FP 1418**

- + with 3x 17 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 8 x 25 mm<sup>2</sup>, 32 x 4 mm<sup>2</sup>, Cu
- + dimensions H x W x D: 546 x 366 x 186 mm



**ENYSTAR** - CIRCUIT BREAKER BOXES

WITHOUT PE AND N TERMINAL, FOR THE INSTALLATION OF DIN RAIL EQUIPMENT UP TO 63 A



**FP 1105**

- + with 1x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 186 mm



**FP 1215**

- + with 2x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 186 mm



**FP 1315**

- + with 3x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 186 mm



**FP 1415**

- + with 3x 17 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 186 mm





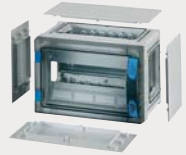
**ENYSTAR** - CIRCUIT BREAKER BOXES

WITHOUT PE AND N TERMINAL, WITH REMOVABLE DIN RAIL RACK AND EARTH CONNECTION



**FP 1106**

- + with 1x 12 modules (18 mm)
- + dimensions H x W x D: 180 x 270 x 186 mm



**FP 1107**

- + with 1x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 186 mm



**FP 1216**

- + with 2x 12 modules (18 mm)
- + dimensions H x W x D: 360 x 270 x 186 mm



**FP 1217**

- + with 2x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 186 mm



**FP 1316**

- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 540 x 270 x 186 mm



**FP 1317**

- + with 3x 12 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 186 mm



**FP 1406**

- + with 2x 27 modules (18 mm)
- + dimensions H x W x D: 360 x 540 x 186 mm



**FP 1417**

- + with 3x 17 modules (18 mm)
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 366 x 186 mm



ENYSTAR - CIRCUIT BREAKER BOXES

WITHOUT PE AND N TERMINAL, FOR THE INSTALLATION OF DIN RAIL EQUIPMENT UP TO 100 A



FP 1101

- + with 1x 12 modules (18 mm)
- + dimensions H x W x D: 180 x 270 x 186 mm



FP 1249

- + with 2x 12 modules (18 mm)
- + dimensions H x W x D: 360 x 270 x 186 mm



FP 1349

- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 540 x 270 x 186 mm



FP 1439

- + with 2x 27 modules (18 mm)
- + dimensions H x W x D: 360 x 540 x 186 mm



ENYSTAR - CIRCUIT BREAKER BOXES

FOR MINIATURE CIRCUIT BREAKERS (MCB)



FP 1211

- + with 1x 12 modules (18 mm)
- + dimensions H x W x D: 360 x 270 x 186 mm



ENYSTAR - CIRCUIT BREAKER BOXES

TERMINAL BOX



FP 1100

- + 1 x 2.5 mm<sup>2</sup>-16 mm<sup>2</sup>, 1 x 16 mm<sup>2</sup>-25 mm<sup>2</sup>, 1 x 16 mm<sup>2</sup>-16 mm<sup>2</sup>,  
1 x 16 mm<sup>2</sup>-35 mm<sup>2</sup>, 1 x 1.5 mm<sup>2</sup>-10 mm<sup>2</sup>
- + dimensions H x W x D: 180 x 270 x 163 mm



# ENYSTAR ACCESSORIES





- FP CB 210**
- + connection Box
  - + suitable for box wall: 270 mm



- FP ZR 20**
- + extension frame
  - + suitable for box size: 2
  - + for extension of the installation depth by 50 mm
  - + dimensions H x W x D: 360 x 270 x 50 mm



- FP ZR 30**
- + extension frame
  - + suitable for box size: 3
  - + for extension of the installation depth by 50 mm
  - + dimensions H x W x D: 540 x 270 x 50 mm



- FP ZR 40**
- + extension frame
  - + suitable for box size: 4
  - + for extension of the installation depth by 50 mm
  - + dimensions H x W x D: 360 x 540 x 50 mm



- FP TS 27**
- + DIN rail 216 x 15 mm, 216 mm long



- FP TS 36**
- + DIN rail 306 x 15 mm, 306 mm long



- FP TS 54**
- + DIN rail 486 x 15 mm, 486 mm long



- FP DS 02**
- + spacer
  - + set with 2 pieces





**FP MP 10**

- + Mounting plate
- + suitable for box size: 1, 2, 3
- + dimensions H x W x D: 126 x 216 x 4 mm



**FP MP 20**

- + Mounting plate
- + suitable for box size: 2, 3, 4
- + dimensions H x W x D: 306 x 216 x 4 mm



**FP MP 30**

- + Mounting plate
- + suitable for box size: 3, 4
- + dimensions H x W x D: 486 x 216 x 4 mm



**FP MP 40**

- + Mounting plate
- + suitable for box size: 4
- + dimensions H x W x D: 306 x 486 x 4 mm



**FP BZ 13**

- + Fixing screw
- + Länge:



- FP AP 10**
- + cover
  - + suitable for box size: 1
  - + dimensions H x W: 130 x 220



- FP AP 20**
- + cover
  - + suitable for box size: 2
  - + dimensions H x W: 310 x 220



- FP AP 30**
- + cover
  - + suitable for box size: 3
  - + dimensions H x W: 490 x 220



- FP AP 40**
- + cover
  - + suitable for box size: 4
  - + dimensions H x W: 310 x 490



- AS 12**
- + blanking strip
  - + modules: 12



- AS 18**
- + blanking strip
  - + modules: 18



- FP TW 18**
- + partition
  - + suitable for box wall: 180 mm



- FP TW 27**
- + partition
  - + suitable for box wall: 270 mm



- FP TW 36**
- + partition
  - + suitable for box wall: 360 mm



- FP PL 2**
- + sealing device
  - + set with 2 pieces
  - + without sealing wire and without seal
  - + suitable for sealing of the cover (not for circuit breaker box)

	<b>FC PN 20</b>	<ul style="list-style-type: none"> <li>+ PE terminal, N terminal</li> <li>+ per PE/N 2x 25 mm<sup>2</sup> screw-type terminals and 8x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 24</b>	<ul style="list-style-type: none"> <li>+ PE terminal, N terminal</li> <li>+ per PE/N 3x 25 mm<sup>2</sup> screw-type terminals and 12x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 36</b>	<ul style="list-style-type: none"> <li>+ PE terminal, N terminal</li> <li>+ per PE/N 6x 25 mm<sup>2</sup> screw-type terminals and 24x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 54</b>	<ul style="list-style-type: none"> <li>+ PE terminal, N terminal</li> <li>+ per PE/N 6x 25 mm<sup>2</sup> screw-type terminals and 24x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 51</b>	<ul style="list-style-type: none"> <li>+ PE terminal, N terminal</li> <li>+ per PE/N 8x 25 mm<sup>2</sup> screw-type terminals and 32x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FC PE 10</b>	<ul style="list-style-type: none"> <li>+ PE terminal</li> <li>+ suitable for mounting on DIN rail</li> <li>+ 2x 25 mm<sup>2</sup> screw-type terminals and 8x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 054</b>	<ul style="list-style-type: none"> <li>+ PE terminal</li> <li>+ 6x 25 mm<sup>2</sup> screw-type terminals and 24x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FP FC 051</b>	<ul style="list-style-type: none"> <li>+ PE terminal</li> <li>+ 8x 25 mm<sup>2</sup> screw-type terminals and 32x 4 mm<sup>2</sup> plug-in terminals</li> </ul>
	<b>FC BS 5</b>	<ul style="list-style-type: none"> <li>+ FIXCONNECT®-Labelling system for circuit description</li> <li>+ Set with 5 pieces</li> </ul>
	<b>KKL 34</b>	<ul style="list-style-type: none"> <li>+ main line branch terminal</li> <li>+ 1 x 1,5 mm<sup>2</sup>-16 mm<sup>2</sup> round, Cu, 1 x 2,5 mm<sup>2</sup>-25 mm<sup>2</sup> round, Cu</li> <li>+ suitable for mounting on DIN rail</li> <li>+ rated current: I<sub>n</sub> = 80 A</li> </ul>
	<b>KKL 48</b>	<ul style="list-style-type: none"> <li>+ main line branch terminal</li> <li>+ 1 x 1,5 mm<sup>2</sup>-16 mm<sup>2</sup> round, Cu, 1 x 2,5 mm<sup>2</sup>-25 mm<sup>2</sup> round, Cu</li> <li>+ suitable for mounting on DIN rail</li> <li>+ rated current: I<sub>n</sub> = 80 A</li> </ul>
	<b>KKL 54</b>	<ul style="list-style-type: none"> <li>+ main line branch terminal</li> <li>+ 1 x 1,5 mm<sup>2</sup>-16 mm<sup>2</sup> round, Cu, 1 x 2,5 mm<sup>2</sup>-25 mm<sup>2</sup> round, Cu</li> <li>+ suitable for mounting on DIN rail</li> <li>+ rated current: I<sub>n</sub> = 80 A</li> </ul>



**FP VP 18** + closing plate  
+ suitable for box wall: 180 mm



**FP VP 27** + closing plate  
+ suitable for box wall: 270 mm



**FP VP 36** + closing plate  
+ suitable for box wall: 360 mm



**FP VS 10** + closing plate  
+ suitable for box size: 1



**FP VS 20** + closing plate  
+ suitable for box size: 2























**FP VS 30** + closing plate  
+ suitable for box size: 3



**FP VS 40** + closing plate  
+ suitable for box size: 4





	<b>FP FG 200</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ knockouts: without</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FG 222</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ elastic membranes: 17 x 6 mm - 13 mm, 1 x 11 mm - 30 mm, 2 x 9 mm - 17 mm, 2 x 8 mm - 23 mm</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FM 225</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ 13 x M20, M25, 7 x M16, M25</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FM 232</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ 2 x M25, M32, M40, 8 x M25, M32</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FM 240</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ 5 x M25, M32, M40, 2 x M25, M32</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FM 263</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ 2 x M20, 2 x M25, M32</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FG 272</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ elastic membranes: 1 x 30 mm - 72 mm</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FG 273</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ elastic membranes: 2 x 30 mm - 72 mm</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FG 282</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ insert: 2 x 30 mm - 72 mm</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP ZE 272</b>	<ul style="list-style-type: none"> <li>+ strain relief</li> <li>+ for 2 cables with max. 60 mm external diameter</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP GS 27</b>	<ul style="list-style-type: none"> <li>+ box fin</li> <li>+ for inserting cables across 2 boxes</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<b>FP FG 300</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ knockouts: without</li> <li>+ suitable for box wall: 360 mm</li> </ul>	
	<b>FP FG 331</b>	<ul style="list-style-type: none"> <li>+ flange</li> <li>+ elastic membranes: 22 x 6 mm - 13 mm, 6 x 9 mm - 17 mm, 2 x 8 mm - 23 mm, 1 x 11 mm - 30 mm</li> <li>+ suitable for box wall: 360 mm</li> </ul>	

	<p><b>FP BF 18</b></p>	<ul style="list-style-type: none"> <li>+ ventilation flange</li> <li>+ recommended alignment: vertical</li> <li>+ suitable for box wall: 180 mm</li> </ul>	
	<p><b>FP BF 27</b></p>	<ul style="list-style-type: none"> <li>+ ventilation flange</li> <li>+ recommended alignment: vertical</li> <li>+ suitable for box wall: 270 mm</li> </ul>	
	<p><b>FP BF 36</b></p>	<ul style="list-style-type: none"> <li>+ ventilation flange</li> <li>+ recommended alignment: vertical</li> <li>+ suitable for box wall: 360 mm</li> </ul>	
	<p><b>BE 44</b></p>	<ul style="list-style-type: none"> <li>+ ventilation insert</li> </ul>	
	<p><b>BM 20G</b></p>	<ul style="list-style-type: none"> <li>+ pressure compensation element</li> <li>+ to reduce condensation through pressure compensation</li> <li>+ for knockouts M20</li> </ul>	 
	<p><b>BM 40G</b></p>	<ul style="list-style-type: none"> <li>+ pressure compensation element</li> <li>+ to reduce condensation through pressure compensation</li> <li>+ for knockouts M40</li> </ul>	 
	<p><b>FP DB 27</b></p>	<ul style="list-style-type: none"> <li>+ canopy</li> <li>+ suitable for box wall: 270 mm</li> <li>+ dimensions W x D: 270 x 245 mm</li> </ul>	
	<p><b>FP DB 36</b></p>	<ul style="list-style-type: none"> <li>+ canopy</li> <li>+ suitable for box wall: 360 mm</li> <li>+ dimensions W x D: 360 x 245 mm</li> </ul>	
	<p><b>Mi DB 01</b></p>	<ul style="list-style-type: none"> <li>+ canopy end plate</li> <li>+ set with 2 pieces</li> <li>+ dimensions W x D: 74 x 245 mm</li> </ul>	

	<b>FP TW 1</b>	+ locking device insertion conversion kit + from hand to tool operation
	<b>FP TW 2</b>	+ locking device insertion conversion kit + double-bit + set with 2 pieces
	<b>FP TW 3</b>	+ locking device insertion conversion kit + triangular lock + set with 2 pieces
	<b>FP TW 4</b>	+ locking device insertion conversion kit + square lock + set with 2 pieces
	<b>FP TS 1</b>	+ locking device + for hand operation
	<b>FP TS 2</b>	+ spare key + set with 2 pieces
	<b>FP PL 3</b>	+ sealing device + set with 2 pieces + without sealing wire and without seal + suitable for door sealing
	<b>US 1</b>	+ spare key
	<b>DS 1</b>	+ spare key + triangle
	<b>FP AL 40</b>	+ external brackets + set with 4 pieces
	<b>FP MS 1</b>	+ mounting profile + height: 1980 mm
	<b>Lackstift RAL 7016</b>	+ varnishing pen



- FP BZ 13**
- + fixing screw
  - + length: 13 mm



- FP WT 1**
- + wall separator
  - + for connecting enclosure walls of different sizes



- FP GV 10**
- + connector
  - + Set with 10 pieces



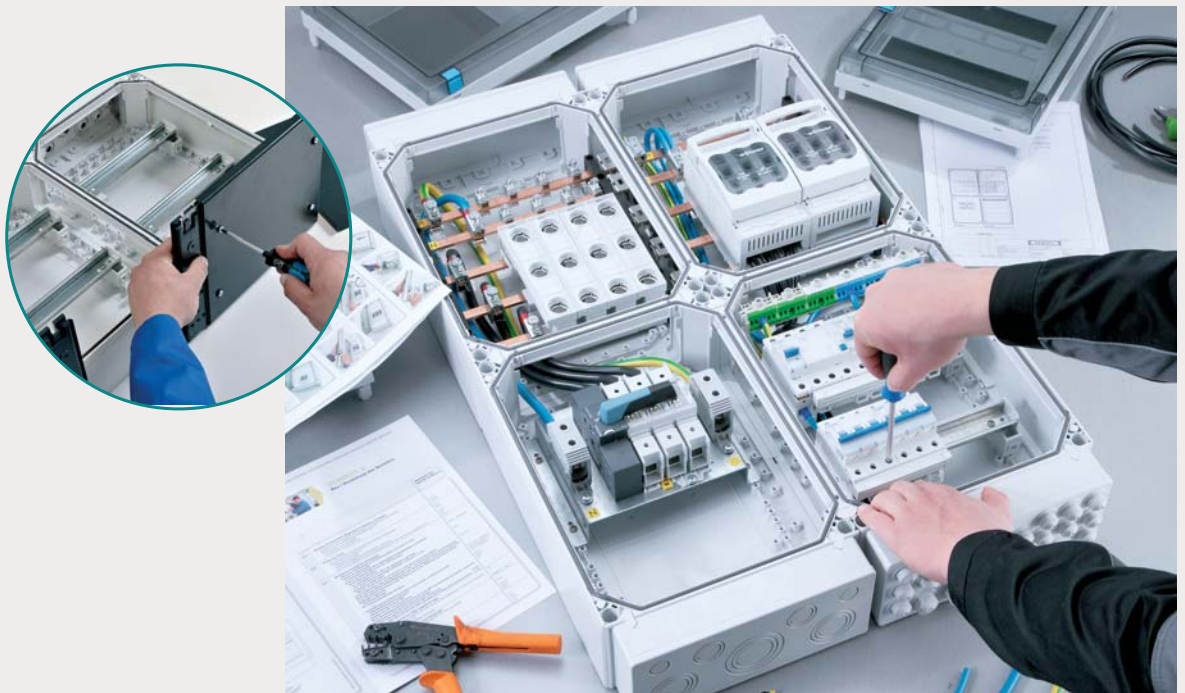
# ENYSTAR

## FOR EVERY BOX THE RIGHT ACCESSORIES

[hensel-electric.de](http://hensel-electric.de)

**Take advantage of the high-quality range from  
HENSEL and rely on tested system solutions**

- + Connection Box
- + Extension frames, DIN rails, spacers
- + Mounting plates, fixing screws
- + Covers, blanking strips
- + Flanges, metal inserts for flanges, ventilation flanges
- + Conversion kits for lid fasteners
- + Terminals
- + Wall gasket, wall separator, fixing spacers
- + Pressure compensation element, canopy
- + Components for wall mounting





## ENYSTAR CONNECTION BOX

**Professional system solution  
for ENYSTAR distribution boards**

### Simple and safe installation

- + For the installation of devices that must be operated externally, such as plug devices, push buttons and switches
- + For mounting to box walls 270 mm
- + Can be combined in the ENYSTAR system from HENSEL

MORE ACCESSORIES



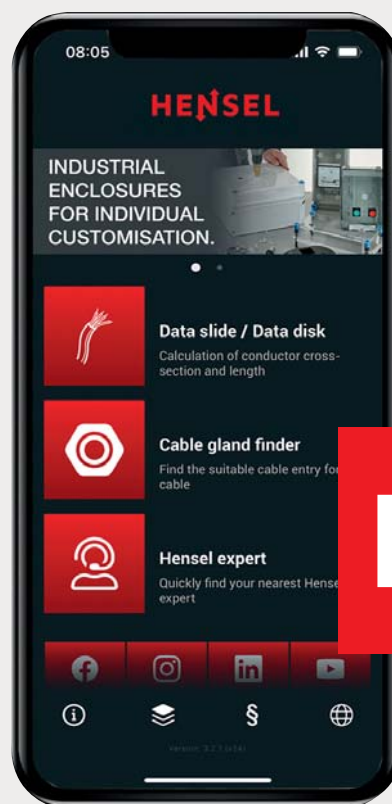
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Calculation of conductor cross section and length
- + **Cable gland finder**  
Find the suitable cable entry for your cable
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AVAILABLE FOR ANDROID AND  
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**ANDROID**  
Scan QR-Code



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**+ CALCULATION TOOL**

**for the verification of the permissible temperature rise**

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**+ PORTAL 61439**

The platform with all information about design and assembly according to IEC 61439 / EN 61439.







FOR A SAFE  
ELECTRIC FUTURE.



**HENSEL**





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