



MINI-LIST

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HENSEL



PRODUCT LEAFLET
FOR PRO'S

hensel.in

HENSEL

HENSEL

2 ___ 5 HENSEL – a strong brand

PRODUCT OVERVIEW

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125 ___ 149	ENYFLEX – Empty Enclosures
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SERVICE

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Further technical information
can be found on the Internet at
www.hensel.in > **Products**

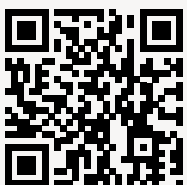
MORE THAN 90 YEARS OF EXPERIENCE – YOUR ELECTRICAL ENERGY POWERS US

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, and 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.



Please scan the QR code or see our website www.hensel.in 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 owned by HENSEL and 60 international partners.



MORE THAN 60 INTERNATIONAL PARTNERS



ELECTRICAL INSTALLATION AND DISTRIBUTION SYSTEMS

1000 EMPLOYEES



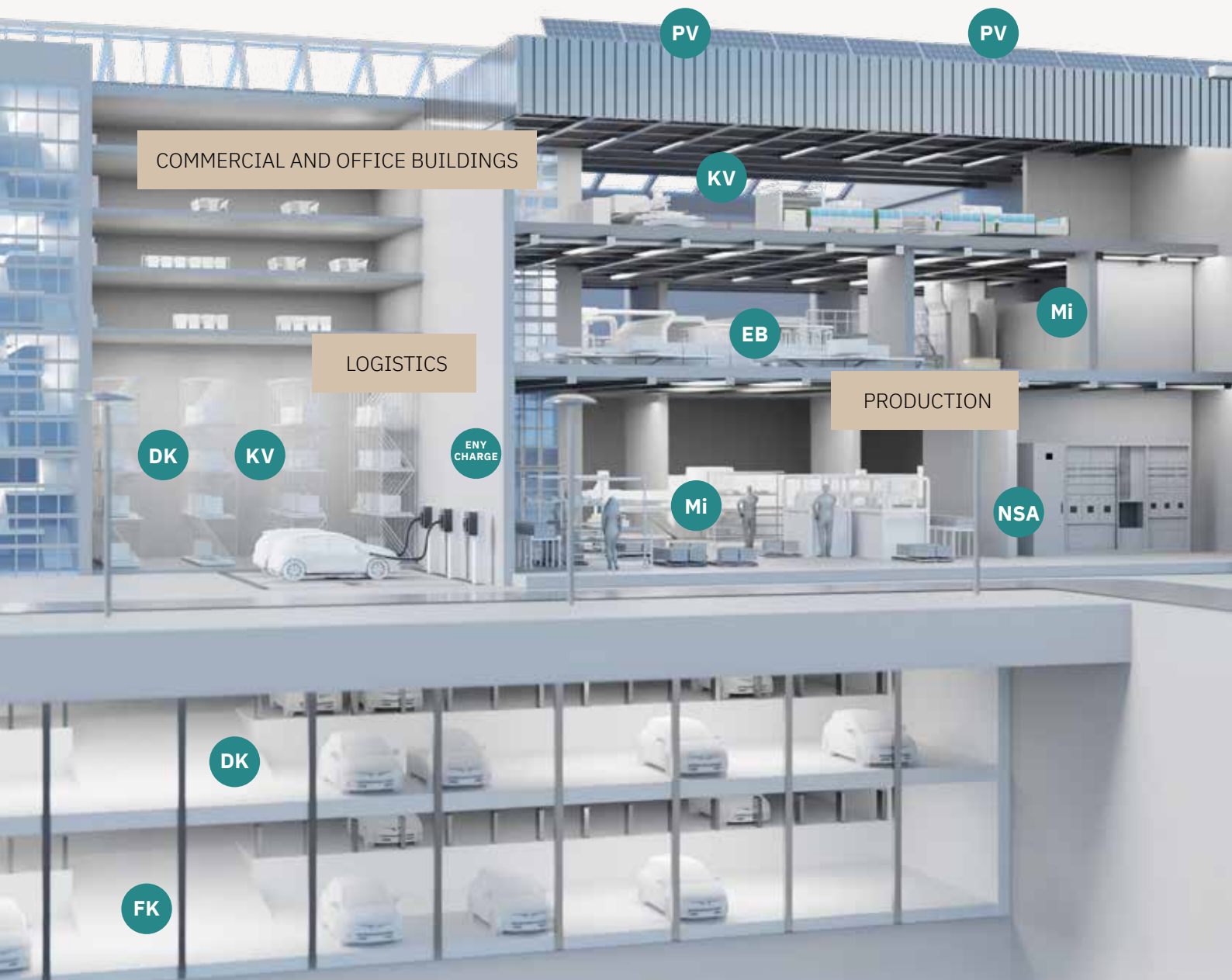
14 SUBSIDIARIES NATIONALLY AND INTERNATIONALLY

POWER DISTRIBUTION FROM A TO Z FOR DEMANDING APPLICATION

Electrical energy flows everywhere.

It provides light, heat and movement.

With our products and solutions, we guarantee the safe distribution of electrical energy in industry, commerce and infrastructure.



COMMERCIAL AND OFFICE BUILDINGS

LOGISTICS

PRODUCTION

DK

KV

EV
CHARGE

Mi

NSA

DK

FK

PV

PV

KV

EB

Mi

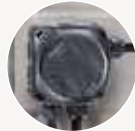
ENYCASE®

Cable junction boxes



DK

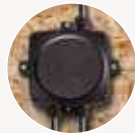
For indoor - normal environment and (or) protected outdoor installation



KF

weatherproof

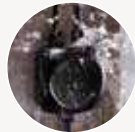
For unprotected outdoor and offshore applications



KX

Suitable for Ex Zones 2 and 22

For use in potentially explosive atmospheres



WP

waterproof

For encapsulation, for extreme applications



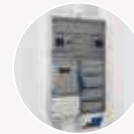
FK

with functional integrity

E30–E90 and PH120 insulation integrity

ENYSTAR®

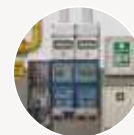
Distribution boards with doors up to 250 A



FP

ENYMOD

Mi power distributors up to 630 A



Mi

ENYSUN

Product solutions for photovoltaic distribution systems



PV

ENYFLEX

Customised solutions and individual applications according to IEC 62208



EB

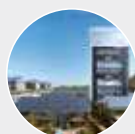
ENYBOARD

KV distributors up to 63 A



KV

For indoor - normal environment and (or) protected outdoor installation



KV

weatherproof

For unprotected outdoor installation

ENYPOWER

Insulation-encapsulated low-voltage switchgear up to 1600 A



NSA

KF

WP



ENYCASE – THE
CABLE JUNCTION BOX
FOR PRO'S

hensel.in

HENSEL



FOR A SAFE ELECTRIC FUTURE.

SMALLER IS SOMETIMES
BIG ENOUGH

NEW



DK 0200



DK 0100

THE NEW ENYCASE DK 0100

The compact entry into the HENSEL world.
With all the advantages of the HENSEL Junction Boxes.

www.hensel.in

HENSEL

The right box for every application

In dry, damp, wet or even fire-prone areas –
Cable junction boxes from HENSEL distribute electricity for all areas of application always safe and reliable.



DK Series: IP 66

for harsh environmental conditions,
with and without terminals,
elastic membranes or
metric knockouts

14_31



RK Series: IP 66
with terminal blocks,
elastic membranes

32_33



KF Series: IP 66 / IP 67 / IP 69

weatherproof, for unprotected
outdoor installation,
with and without terminals,
metric knockouts

34_43



WP Series: IP 66 / IP 68 / IP 69

submersion up to 20 meters, 168 hours
waterproof, encapsulating for
extreme applications
with terminals, metric knockouts

44_50



KX Series: IP 66

for use in potentially explosive
atmospheres
suitable for Ex zone 2 and 22,
with terminals

51_57



FK Series: IP 66

E30/E60/E90 intrinsic fire resistance
PH120 insulation integrity
with terminals

58_67

Variable cable entry - tight through and through



Cable entry via integrated elastic sealing diaphragms



Removable sealing diaphragms or extension ring for cable gland connections



Multi-stage diaphragms for screwed cable glands in different sizes

Cable entry through the bottom.

Modern terminal technology – innovative and flexible



Secured against self-loosening, also for flexible conductors without a ferrule



Two terminal strips possible, different terminal positions

Raised terminals with more space for wiring.



Various conductor cross-sections and types possible. All terminals with 2 terminal points per pin

Flexible fastening – equipped for every requirement



External brackets for fastening are always included

Internal fastening option



Pole mounting

Fastening for the back



Detailed product information – designed with daily work in mind



Retaining strap secures the lid against falling down



Quick to close with a quarter turn, easily recognisable locking position

Sealable without accessories



Optionally without knockouts for individually drilled cable entries

Burning behaviour: Glow wiretest in accordance with IEC 60695-2-11: up to 960 °C, flame retardant, self-extinguishing

ENYCASE®

DK SERIES

FOR NORMAL ENVIRONMENT AND PROTECTED
OUTDOOR

with copper conductors terminal, from 0.14 mm² - 70 mm²

Cable entry via elastic membranes or metric knockouts

IP
66



System properties

- + VDE tested
- + With elastic membrane, which can be removed for cable entry via cable glands (to 16 mm²)
- + Multi-level knockouts for cable glands in different sizes
- + Cable entry through the bottom of the box via integrated elastic membrane
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + Lid fasteners sealable without accessories
- + Different terminal positions and fastening options
- + Material: polypropylene or polycarbonate
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
 DK WITH JUNCTION TERMINAL, 2.5 mm² UP TO 240 mm²

	DK 0202 G	<ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	  
	DK 0402 G	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0404 G	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0604 G	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	  
	DK 0606 G	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	  
	DK 1006 G	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	  
	DK 1010 G	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	  
	DK 1610 G	<ul style="list-style-type: none"> + with copper branch terminal + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	  



- DK 1616 G**
- + with copper branch terminal
 - + 16 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 155 x 210 x 92 mm



- DK 2525 G**
- + with copper branch terminal
 - + 25 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 205 x 255 x 112 mm



- DK 3535 G**
- + with copper branch terminal
 - + 35 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 225 x 295 x 122 mm



- DK 5054 G**
- + with copper branch terminal
 - + 50 mm²
 - + 4-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 255 x 355 x 122 mm



- DK 5055 G**
- + with copper branch terminal
 - + 50 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 255 x 355 x 122 mm



- K 7055**
- + with copper branch terminal
 - + 70 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



- K 7004**
- + with copper branch terminal
 - + 70 mm²
 - + 4-pole terminal with 4 clamping units per pole, Screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
 DK WITH JUNCTION TERMINAL, 2.5 mm² UP TO 240 mm²



K 7005

- + with copper branch terminal
- + 70 mm²
- + 5-pole terminal with 4 clamping units per pole, Screw connection
- + with metric knockouts
- + dimensions H x W x D: 450 x 300 x 170 mm



K 1204

- + with branch terminals for copper and aluminium conductors
- + 120 mm²
- + 4-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 450 x 300 x 170 mm



K 1205

- + with branch terminals for copper and aluminium conductors
- + 120 mm²
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 450 x 300 x 170 mm



K 2404

- + with branch terminals for copper and aluminium conductors
- + 240 mm²
- + 4-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 600 x 300 x 170 mm




K 2405

- + with branch terminals for copper and aluminium conductors
- + 240 mm²
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 600 x 300 x 170 mm



	DK 0100 G	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 84 x 84 x 55 mm 	  
	DK 0200 G	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	  
	DK 0400 G	<ul style="list-style-type: none"> + without terminals + 4 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0600 G	<ul style="list-style-type: none"> + without terminals + 6 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	  
	DK 1000 G	<ul style="list-style-type: none"> + without terminals + 10 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	  
	DK 1600 G	<ul style="list-style-type: none"> + without terminals + 16 mm² + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	  
	DK 2500 G	<ul style="list-style-type: none"> + without terminals + 25 mm² + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	  
	DK 3500 G	<ul style="list-style-type: none"> + without terminals + 35 mm² + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	  
	DK 5000 G	<ul style="list-style-type: none"> + without terminals + 50 mm² + with metric knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	  

DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
 DK BLACK SERIES, WITH TERMINALS

	<p>DK 0202 B</p> <ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	
	<p>DK 0404 B</p> <ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	
	<p>DK 0606 B</p> <ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	
	<p>DK 1010 B</p> <ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	



- DK 0100 B**
- + without terminals
 - + 2.5 mm²
 - + with elastic membranes, which can be removed for cable entry via cable glands
 - + dimensions H x W x D: 84 x 84 x 55 mm



- DK 0200 B**
- + without terminals
 - + 2.5 mm²
 - + with elastic membranes, which can be removed for cable entry via cable glands
 - + dimensions H x W x D: 93 x 93 x 62 mm



- DK 0400 B**
- + without terminals
 - + 4 mm²
 - + with elastic membranes, which can be removed for cable entry via cable glands
 - + dimensions H x W x D: 104 x 104 x 70 mm



- DK 0600 B**
- + without terminals
 - + 6 mm²
 - + with elastic membranes, which can be removed for cable entry via cable glands
 - + dimensions H x W x D: 130 x 130 x 77 mm



- DK 1000 B**
- + without terminals
 - + 10 mm²
 - + with elastic membranes, which can be removed for cable entry via cable glands
 - + dimensions H x W x D: 130 x 180 x 77 mm



ENYCASE®

DK SERIES

FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR

with terminals for aluminum and copper conductors

IP
66

System properties

- + Separate clamping units for aluminum and copper conductors
- + Material: polypropylene or polycarbonate
- + Burning behaviour:
Glow wire test in accordance with IEC 60695-2-11: 750 °C / 960 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.



- DK 2516 A**
- + with terminal blocks for copper and aluminium conductors
 - + 25 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 205 x 255 x 112 mm



- KF 3550 A**
- + with terminal blocks for copper and aluminium conductors
 - + 35 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 225 x 295 x 122 mm



- KF 5050 A**
- + with terminal blocks for copper and aluminium conductors
 - + 50 mm²
 - + 3-pole terminal with 2 clamping units per pole, Screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 255 x 355 x 122 mm



- K 7051**
- + with terminal blocks for copper and aluminium conductors
 - + 50 mm²
 - + 5-pole terminal with 4 clamping units per pole, Screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



- K 7042**
- + with branch terminals for copper and aluminium conductors
 - + 95 mm²
 - + 4-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



- K 7052**
- + with branch terminals for copper and aluminium conductors
 - + 95 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



- K 9951**
- + with terminal blocks for copper and aluminium conductors
 - + 95 mm²
 - + 1-pole terminal with 4 clamping units per pole, Screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 450 x 300 x 170 mm



DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
DK-CABLE JUNCTION BOX WITH TERMINALS, FOR ALUMINIUM (ALU) AND COPPER (CU) CONDUCTORS



K 1204

- + with branch terminals for copper and aluminium conductors
- + 120 mm²
- + 4-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 450 x 300 x 170 mm



K 1205

- + with branch terminals for copper and aluminium conductors
- + 120 mm²
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 450 x 300 x 170 mm



K 2404

- + with branch terminals for copper and aluminium conductors
- + 240 mm²
- + 4-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 600 x 300 x 170 mm



K 2405

- + with branch terminals for copper and aluminium conductors
- + 240 mm²
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 600 x 300 x 170 mm



K 2401

- + with terminal blocks for copper and aluminium conductors
- + 240 mm²
- + 5-pole terminal with 4 clamping units per pole, Screw connection
- + with metric knockouts
- + dimensions H x W x D: 600 x 300 x 170 mm



DK SERIES FOR PROTECTED INSTALLATION

with main line branch terminal for copper conductors, sealable
Cable entry via metric knockouts

IP
66



System properties

- + 5-polige Hauptleitungsabzweigklemme (HLAK) mit 4 Leiteranschlüssen pro Pol. Mit 2 Schrauben pro Klemmstelle für einen sicheren Kontaktdruck
- + Multi-level knockouts for cable glands in different sizes
- + Cable entry through the bottom of the box via integrated elastic membrane
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + lid fasteners sealable without accessories
- + Material: polycarbonate
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



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DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
 DK WITH MAIN LINE BRANCH TERMINALS, FOR COPPER CONDUCTORS

	<p>DK 2524 S</p>	<ul style="list-style-type: none"> + with main line branch terminal + 25 mm² + 4-pole terminal with 5 clamping units per pole, Screw connection + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	 
	<p>DK 3525 S</p>	<ul style="list-style-type: none"> + with main line branch terminal + 35 mm² + 5-pole terminal with 5 clamping units per pole, Screw connection + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	 
	<p>DK 3534 S</p>	<ul style="list-style-type: none"> + with main line branch terminal + 35 mm² + 2-pole terminal with 5 clamping units per pole, Screw connection + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	 
	<p>DK 5035 S</p>	<ul style="list-style-type: none"> + with main line branch terminal + 50 mm² + 5-pole terminal with 5 clamping units per pole, Screw connection + with metric knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	 

DK SERIES FOR PROTECTED INSTALLATION












for safety lighting circuits, for equipotential bonding conductors
Cable entry via integrated elastic membranes or metric knockouts



System properties

- + VDE tested
- + Cable junction box with red lid for safety lighting circuits
- + With elastic membrane, which can be removed for cable entry via cable glands
- + Multi-level knockouts for cable glands in different sizes
- + Cable entry through the bottom of the box via integrated elastic membrane
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + High-position terminals with more space for wiring
- + Every pole allows the connection of various conductor cross sections and conductor types
- + Terminals prevent damage of conductors, also with flexible conductors without ferrule
- + Different terminal positions and fastening options
- + Material: polypropylene or polystyrene
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey RAL 7035, with red lid RAL 3000

DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
 DK WITH RED LID, FOR SAFETY LIGHTING CIRCUITS, FOR EQUIPOTENTIAL BONDING CONDUCTORS

	DK 0202 R	<ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	  
	DK 0402 R	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0404 R	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0604 R	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	  
	DK 0200 R	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	  
	DK 0400 R	<ul style="list-style-type: none"> + without terminals + 4 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	  
	DK 0600 R	<ul style="list-style-type: none"> + without terminals + 6 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	  

DK SERIES FOR PROTECTED INSTALLATION

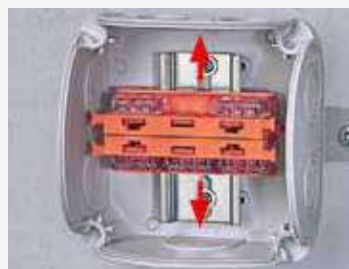
with terminals in plug-in technology

IP
66



























System properties

- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + Verschiedene Leiterquerschnitte und Leiterarten in Stecktechnik
- + Material: polypropylene
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey RAL 7035 or black RAL 9011



Please scan the QR code or see our website hensel.in to get detailed information.

DK SERIES - FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR
DK WITH PLUG-IN TERMINALS

	DK 0102 W	<ul style="list-style-type: none"> + 2.5 mm² + with 5x 221-413 connecting terminal + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 84 x 84 x 55 mm 	 
	DK 0102 X	<ul style="list-style-type: none"> + 2.5 mm² + with 5x 221-413 connecting terminal + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 84 x 84 x 55 mm 	 
	DK 0404 W	<ul style="list-style-type: none"> + 4 mm² + with 5x 221-413 connecting terminal + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	 
	DK 0606 W	<ul style="list-style-type: none"> + 6 mm² + with 5x 221-613 connecting terminal + 5-pole terminal with 3 clamping units per pole, Plug-in terminal connection with lever + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	 
	DK 0202 P	<ul style="list-style-type: none"> + with push-in branch terminal + 2.5 mm² + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	 
	DK 0402 P	<ul style="list-style-type: none"> + with push-in branch terminal + 4 mm² + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	 
	DK 1610 P	<ul style="list-style-type: none"> + with 10x terminal block PTI 6 + 16 mm² + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	 
	DK 2516 P	<ul style="list-style-type: none"> + with 10x terminal block PTI 16/S + 25 mm² + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	 



DK 3525 P

- + with 10x terminal block PT 16 N
- + 35 mm²
- + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection
- + with metric knockouts
- + dimensions H x W x D: 225 x 295 x 122 mm



KF 0402 P

- + with push-in branch terminal
- + 4 mm²
- + 5-pole terminal with 4 clamping units per pole, plug-in terminal connection
- + with metric knockouts
- + dimensions H x W x D: 104 x 104 x 70 mm



ENYCASE®

RK SERIES

FOR PROTECTED INSTALLATION

with terminal blocks

Cable entry via elastic membranes

IP
66

CUSTOMIZED SOLUTIONS?
TALK TO US!



System properties

- + Up to 24 terminal blocks prevent damage of conductors, also with flexible conductors without ferrule
- + With elastic membrane, which can be removed for cable entry via cable glands
- + Multi-level knockouts for cable glands in different sizes
- + Closes quickly by a quarter turn - locked position well visible (open - locked)r
- + Lid fasteners sealable without accessories
- + Material: polypropylene
- + Burning behaviour:
glow wire test in accordance with IEC 60695-2-11: 750 °C,
flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or
see our website
hensel.in
to get detailed information.

	RK 0203 T	<ul style="list-style-type: none"> + with 3x terminal block WKM 2,5 / 15 + 2.5 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RK 0205 T	<ul style="list-style-type: none"> + with 5x terminal block WKM 2,5 / 15 + 2.5 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RK 0207 T	<ul style="list-style-type: none"> + with 7x terminal block WKM 2,5 / 15 + 2.5 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RK 0405 T	<ul style="list-style-type: none"> + with 5x terminal block WKM 4 / 15 + 4 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 104 x 104 x 70 mm 	 
	RK 0610 T	<ul style="list-style-type: none"> + with 10x terminal block WT 4 + 6 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	 
	RK 0612 T	<ul style="list-style-type: none"> + with 12x terminal block WT 4 + 6 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	 
	RK 0614 T	<ul style="list-style-type: none"> + with 14x terminal block WT 4 + 6 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 130 x 77 mm 	 
	RK 1019 T	<ul style="list-style-type: none"> + with 19x terminal block WT 4 + 10 mm² + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	 
	RK 1024 T	<ul style="list-style-type: none"> + with 24x terminal block WT 4 + 10 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + with elastic membranes, which can be removed for cable entry via cable glands + dimensions H x W x D: 130 x 180 x 77 mm 	 

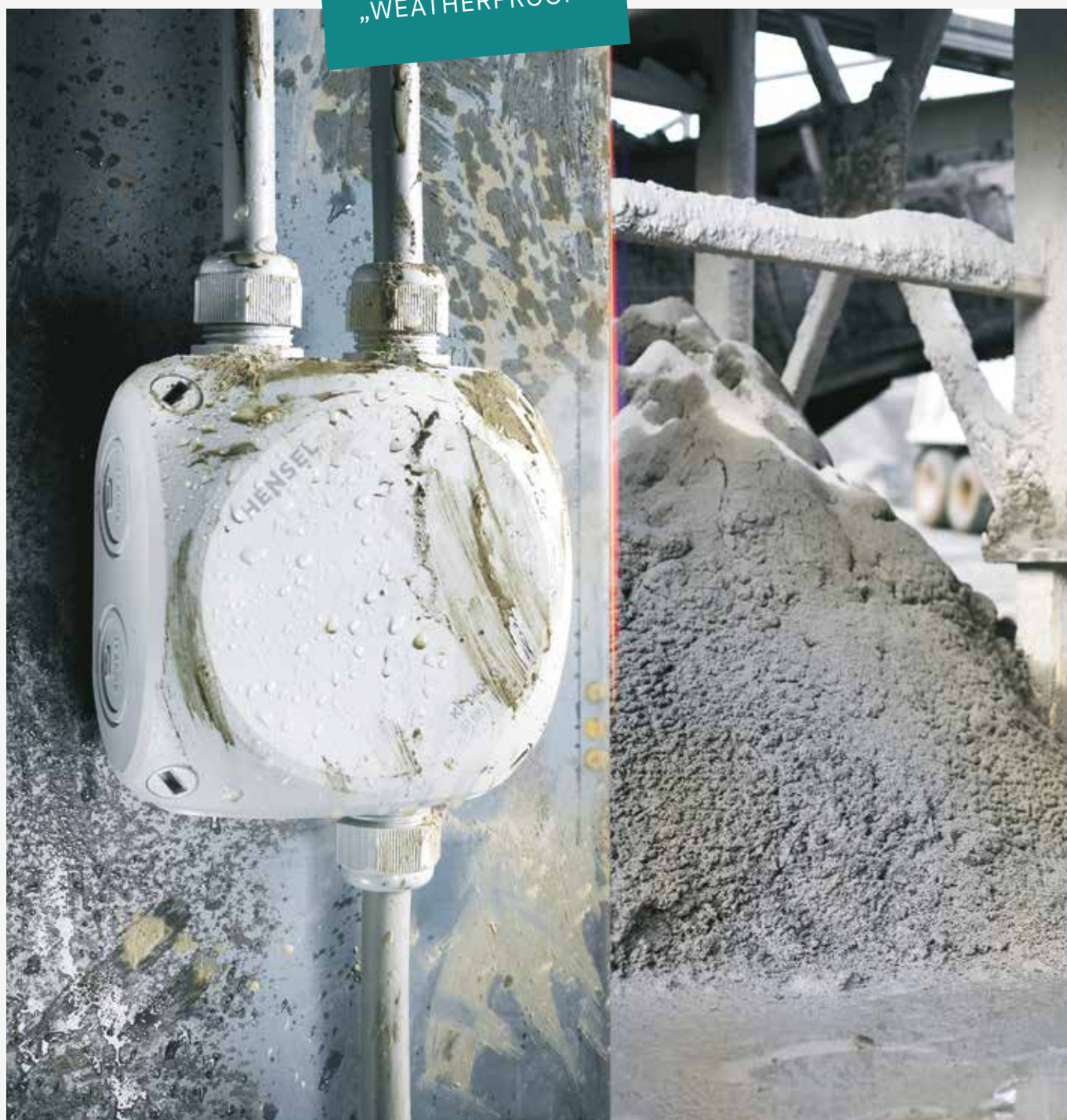
KF SERIES

“WEATHERPROOF”,
FOR OUTDOOR INSTALLATION

Cable entry via metric knockouts



„WEATHERPROOF“





System properties

- + Weatherproof: UV-resistant, rainproof, temperature-resistant, impact-resistant, halogen-free and silicone-free
- + VDE tested, DNV GL certificate
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + Degree of protection IP 66 / IP 67 / IP 69 with cable glands as accessory, for temporary submersion and direct blasting with high-pressure cleaner
- + Cable entry through the bottom of the box
- + High-position terminals (up to 10 mm²) with more space for wiring
- + Material: PC-GFS polycarbonate
- + Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- + Colour: grey RAL 7035 or black RAL9011



Please scan the QR code or see our website hensel.in to get detailed information.

KF SERIES - "WEATHERPROOF", FOR OUTDOOR INSTALLATION
KF WITH JUNCTION TERMINAL

	KF 0202 G	<ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	    
	KF 0402 G	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	    
	KF 0404 G	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	    
	KF 0604 G	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	    
	KF 0606 G	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	    
	KF 1006 G	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	    
	KF 1010 G	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	    
	KF 1610 G	<ul style="list-style-type: none"> + with copper branch terminal + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	    



- KF 1616 G**
- + with copper branch terminal
 - + 16 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 155 x 210 x 92 mm



- KF 2525 G**
- + with copper branch terminal
 - + 25 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 205 x 255 x 112 mm



- KF 3535 G**
- + with copper branch terminal
 - + 35 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 225 x 295 x 122 mm



- KF 5050 G**
- + with copper branch terminal
 - + 50 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 255 x 355 x 122 mm



- KF 0202 B**
- + with copper branch terminal
 - + 2.5 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 93 x 93 x 62 mm



- KF 0402 B**
- + with copper branch terminal
 - + 4 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 104 x 104 x 70 mm










































- KF 0404 B**
- + with copper branch terminal
 - + 4 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 104 x 104 x 70 mm



- KF 0604 B**
- + with copper branch terminal
 - + 6 mm²
 - + 5-pole terminal with 2 clamping units per pole, screw connection
 - + with metric knockouts
 - + dimensions H x W x D: 130 x 130 x 77 mm



KF SERIES - "WEATHERPROOF", FOR OUTDOOR INSTALLATION
 KF WITH JUNCTION TERMINAL

	KF 0606 B	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	   
	KF 1006 B	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	   
	KF 1010 B	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	   
	KF 1610 B	<ul style="list-style-type: none"> + with copper branch terminal + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   
	KF 1616 B	<ul style="list-style-type: none"> + with copper branch terminal + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   
	KF 2525 B	<ul style="list-style-type: none"> + with copper branch terminal + 25 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	   
	KF 3535 B	<ul style="list-style-type: none"> + with copper branch terminal + 35 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	   
	KF 5050 B	<ul style="list-style-type: none"> + with copper branch terminal + 50 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	   

	KF 0200 G	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + with metric knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	    
	KF 0400 G	<ul style="list-style-type: none"> + without terminals + 4 mm² + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	    
	KF 0600 G	<ul style="list-style-type: none"> + without terminals + 6 mm² + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	    
	KF 1000 G	<ul style="list-style-type: none"> + without terminals + 10 mm² + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	    
	KF 1600 G	<ul style="list-style-type: none"> + without terminals + 16 mm² + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	    
	KF 2500 G	<ul style="list-style-type: none"> + without terminals + 25 mm² + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	    
	KF 3500 G	<ul style="list-style-type: none"> + without terminals + 35 mm² + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	    
	KF 5000 G	<ul style="list-style-type: none"> + without terminals + 50 mm² + with metric knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	    

	KF 0200 B	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + with metric knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	
	KF 0400 B	<ul style="list-style-type: none"> + without terminals + 4 mm² + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	
	KF 0600 B	<ul style="list-style-type: none"> + without terminals + 6 mm² + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	
	KF 1000 B	<ul style="list-style-type: none"> + without terminals + 10 mm² + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	
	KF 1600 B	<ul style="list-style-type: none"> + without terminals + 16 mm² + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	
	KF 2500 B	<ul style="list-style-type: none"> + without terminals + 25 mm² + with metric knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	
	KF 3500 B	<ul style="list-style-type: none"> + without terminals + 35 mm² + with metric knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	
	KF 5000 B	<ul style="list-style-type: none"> + without terminals + 50 mm² + with metric knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	

KF SERIES

FOR UNPROTECTED OUTDOOR INSTALLATION

box walls without knockouts

IP
66/67
69


















































System properties

- + Weatherproof: UV-resistant, rainproof, temperature-resistant, Impact-resistant, halogen-free and silicone-free
- + VDE tested, DNV GL - Certificate No.: TAE00000EE
- + Cable entries can be drilled individually
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + Degree of protection IP 66/ IP 67 / IP 69 with cable glands as accessories, temporary submersion up to 1 meter, max. 15 minutes
- + cable entry through the bottom of the box
- + Material: PC-GFS polycarbonate
- + Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- + Colour: grey RAL 7035 or black RAL9011



Please scan the QR code or see our website hensel.in to get detailed information.

KF SERIES - "WEATHERPROOF", FOR OUTDOOR INSTALLATION
KF WITHOUT KNOCKOUTS

	KF 0200 H	<ul style="list-style-type: none"> + without terminals + 2.5 mm² + box walls without knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	    
	KF 0400 H	<ul style="list-style-type: none"> + without terminals + 4 mm² + box walls without knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	    
	KF 0600 H	<ul style="list-style-type: none"> + without terminals + 6 mm² + box walls without knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	    
	KF 1000 H	<ul style="list-style-type: none"> + without terminals + 10 mm² + box walls without knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	    
	KF 1600 H	<ul style="list-style-type: none"> + without terminals + 16 mm² + box walls without knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	    
	KF 2500 H	<ul style="list-style-type: none"> + without terminals + 25 mm² + box walls without knockouts + dimensions H x W x D: 205 x 255 x 112 mm 	    
	KF 3500 H	<ul style="list-style-type: none"> + without terminals + 35 mm² + box walls without knockouts + dimensions H x W x D: 225 x 295 x 122 mm 	    
	KF 5000 H	<ul style="list-style-type: none"> + without terminals + 50 mm² + box walls without knockouts + dimensions H x W x D: 255 x 355 x 122 mm 	    



- KF 0200 C**
- + without terminals
 - + 2.5 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 93 x 93 x 62 mm



- KF 0400 C**
- + without terminals
 - + 4 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 104 x 104 x 70 mm



- KF 0600 C**
- + without terminals
 - + 6 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 130 x 130 x 77 mm



- KF 1000 C**
- + without terminals
 - + 10 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 130 x 180 x 77 mm



- KF 1600 C**
- + without terminals
 - + 16 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 155 x 210 x 92 mm



- KF 2500 C**
- + without terminals
 - + 25 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 205 x 255 x 112 mm



- KF 3500 C**
- + without terminals
 - + 35 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 225 x 295 x 122 mm



- KF 5000 C**
- + without terminals
 - + 50 mm²
 - + box walls without knockouts
 - + dimensions H x W x D: 255 x 355 x 122 mm



ENYCASE®

WP SERIES

„WATERPROOF”, ENCAPSULATING
FOR EXTREME APPLICATIONS

e.g. for outdoor installation with risk of condensation formation and water penetration as well as for installation in the ground, without live load.

SUBMERSION DOWN TO 20 METRES,
168 HOURS

IP
66/68
69

VE
DE





System properties

- + By sealing cable junction boxes with a sealing compound the ingress of water and formation of condensation is completely prevented.
- + VDE tested
- + The sealing compound can be easily removed for subsequent installation, the sealing compound can be pierced for testing purposes
- + Material: PC-GFS polycarbonate
- + Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- + Colour: grey RAL 7035 or black RAL9011



Please scan the QR code or see our website hensel.in to get detailed information.

Permanent waterproof connection -

Cable junction boxes for encapsulating in accordance with DIN VDE V 0606-22-100



Which applications require waterproof connections?

- + Pump shafts
- + Ground-level installation ducts in outdoor areas
- + Flood areas close to rivers
- + Unprotected outdoor installations which are in close proximity to the ground

Why is the IP degree of protection alone not sufficient?

- + All degrees of protection allow water ingress
- + The accumulation of condensation cannot always be prevented
- + Ventilation measures cannot be applied in all environments

The waterproof connection:

- + Sealing the cable junction boxes with a fast setting, permanently elastic sealing compound completely prevents the ingress of water and excludes forming of condensation.
- + The sealing compound features outstanding insulation properties. As the compound is transparent, it is possible for visual inspections of the installation to be carried out at any time. The durable elastic material is self-sealing, therefore it is also easy for the electrical connections to be tested after they have been sealed.
- + The sealing compound can be easily removed for repairs, subsequent installations or changes to installations.
- + Another benefit: the sealed cable junction boxes also offer reliable protection against shock and vibration. The sealing compound does not, however, provide strain relief as it only adheres to material and does not stick together. Suitable cable entries must also be used here, e.g. Hensel AKM.



The sealing compound can be pierced for testing purposes

In case of re-installation or testing the sealing compound can be removed easily



The ingress of water and formation of condensation are completely prevented.

ENYCASE - CABLE JUNCTION BOXES

WP SERIES, "WATERPROOF", FOR INSTALLATION UNDER WATER AND IN THE GROUND

DK Cable Junction Boxes

	<p>WP 0202 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	
	<p>WP 0402 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	
	<p>WP 0404 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	
	<p>WP 0604 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	
	<p>WP 0606 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	
	<p>WP 1006 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	
	<p>WP 1010 G</p>	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	
	<p>WP 0202 B</p>	<ul style="list-style-type: none"> + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	

	WP 0402 B	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	
	WP 0404 B	<ul style="list-style-type: none"> + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	
	WP 0604 B	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	
	WP 0606 B	<ul style="list-style-type: none"> + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	
	WP 1006 B	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	
	WP 1010 B	<ul style="list-style-type: none"> + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	
	GH 0350	<ul style="list-style-type: none"> + Sealing compound refill bag + 350 ml 	
	GH 0500	<ul style="list-style-type: none"> + Sealing compound refill bag + 500 ml 	
	GH 0850	<ul style="list-style-type: none"> + Sealing compound refill bag + 850 ml 	
	GH 1200	<ul style="list-style-type: none"> + Sealing compound refill bag + 1200 ml 	



KX SERIES

CABLE JUNCTION BOXES FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

suitable for Ex zone 2 and 22



IP
66

System properties

- + Ex marking for explosive gas atmospheres: II 3G Ex ec IIC T6 Gc
- + Ex marking for explosive dust atmospheres: II 3D Ex tc IIIC T85 Dc
- + With drill markings on the box walls for flexible positioning of the cable entries
- + Degree of protection IP 66, Ex cable glands available as an accessory
- + Suitable for areas with a high level of mechanical hazards
- + Can be closed quickly by a quarter turn - locked position well visible
- + With high-position terminal or terminal blocks
- + Various conductor cross sections and types
- + Terminals with wire protection including for flexible conductors without ferrules
- + Various terminal positions
- + Material: Polycarbonate
- + Burning behaviour: Glow wire test according to IEC 60695-2-11: 750°C, flame retardant, self-extinguishing
- + Colour: black, similar to RAL 9011

WHEN SAFETY IS CRITICAL.

For electrical installation in potentially explosive atmospheres, or hazardous areas for short, according to European **Directive 2014/34/EU (also known as “ATEX directive”)** specially tested products are required. The electrical specialist must select suitable equipment taking the operational environment into account.

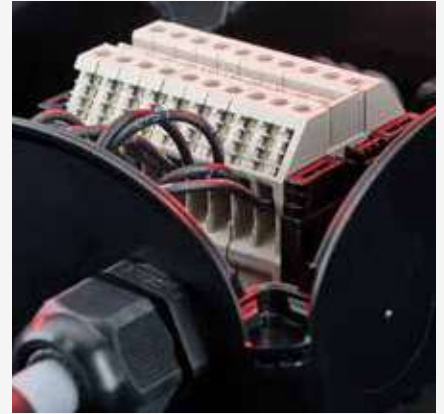
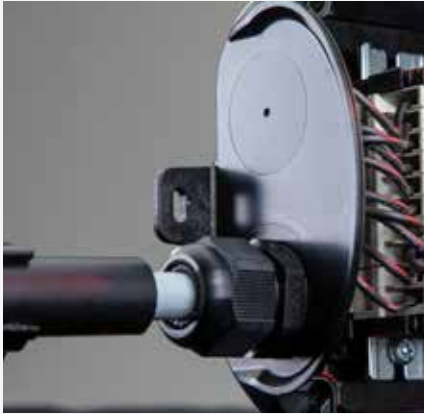
It goes without saying that this equipment must meet the necessary quality requirements for explosion hazardous areas. At the same time, however, they should also be able to be used flexibly and be adaptable to the many challenges present on construction sites.



Please scan the QR code or
see our website
hensel.in
to get detailed information.

REQUIREMENTS CAN CHANGE QUICKLY. THE SOLUTION: FLEXIBLE PRODUCTS FOR CONSTRUCTION SITES.

Thanks to modern terminal technology and variable cable entry, many requirements can be solved on site with just a few product variants of the KX Series cable junction boxes – flexible and safe.



NEW EX CABLE JUNCTION BOXES AND CABLE GLANDS FOR EX ZONES 2 AND 22

with many benefits for the electrical specialist

CABLE JUNCTION BOXES
FOR HAZARDOUS AREAS

IP
66





Flexible cable entry

allows easy adaptation to new installation situations on site

- + Smooth walls can be custom-drilled for cable entries.
- + Drill markings for easy positioning of the drill.
- + Depending on the box size a maximum of 7 to 10 cable entries can be created.



Flexible terminal technology

allows plenty of space for wiring

- + Modern terminal technology with 2 clamping units per pole also combines different conductor cross sections and conductor types in a single pole.
- + High-positioned terminal for more space for wiring, even when the maximum number of conductors are installed
- + Variable positioning of the terminal in the housing according to the position of the cable entry.
- + Integrated wire protection and protection against loosening.



Einfache Montage

with pluggable external brackets

- + Plug-in external brackets always included
- + Easy marking due to optimal accessibility
- + Slotted holes for perfect alignment



	KX 0202 C	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with copper branch terminal + 2.5 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + dimensions H x W x D: 93 x 93 x 62 mm 	 
	KX 0404 C	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with copper branch terminal + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + dimensions H x W x D: 104 x 104 x 70 mm 	 
	KX 0606 C	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with copper branch terminal + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + dimensions H x W x D: 130 x 130 x 77 mm 	 
	KX 1010 C	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with copper branch terminal + 10 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + dimensions H x W x D: 130 x 180 x 77 mm 	 
	RX 0203 T	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with 3x terminal block WKM 2,5 / 15 + 2.5 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RX 0205 T	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with 5x terminal block WKM 2,5 / 15 + 2.5 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RX 0207 T	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with 7x terminal block WKM 2,5 / 15 + 2.5 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + dimensions H x W x D: 93 x 93 x 62 mm 	 
	RX 0610 T	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with 10x terminal block WT 4 + 6 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + dimensions H x W x D: 130 x 130 x 77 mm 	 
	RX 0614 T	<ul style="list-style-type: none"> + For hazardous areas, can be used in zone 2 and 22 + with 14x terminal block WT 4 + 6 mm² + 1-pole terminal with 2 clamping units per pole, Screw connection + dimensions H x W x D: 130 x 130 x 77 mm 	 



AXM 20

- + For hazardous areas, can be used in zone 2 and 22
- + cable glands
- + for knockouts M20



AXM 25

- + For hazardous areas, can be used in zone 2 and 22
- + cable glands
- + for knockouts M25



AXM 32

- + For hazardous areas, can be used in zone 2 and 22
- + cable glands
- + for knockouts M32



ENYCASE®

FK SERIES

APPROVED FOR INTRINSIC FIRE RESISTANCE
AND INSULATION INTEGRITY

Cable entry via metric knockouts

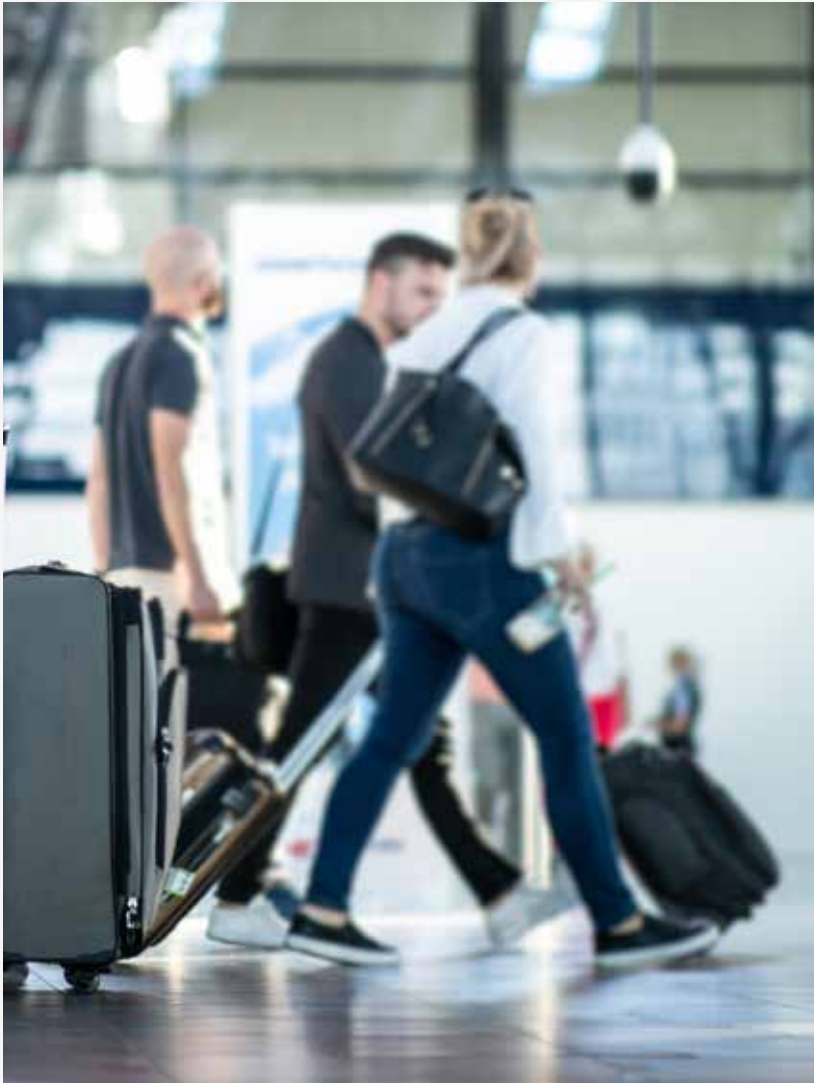
HIGH-TEMPERATURE-
RESISTANT
CERAMIC TERMINAL

E30
E60
E90

PH120

IP
66





System properties

- + Functional integrity up to E90 in accordance with DIN 4102 Section 12 in conjunction with function-retaining cables
- + Insulation integrity PH120 in accordance with BS EN 50200 in connection with insulation-preserving cables
- + Multi-level knockouts for cable glands in different sizes
- + Closes quickly by a quarter turn - locked position well visible (open - locked)
- + Material: polycarbonate with GFS
- + Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- + Colour: orange, RAL 2003



Please scan the QR code or see our website hensel.in to get detailed information.



FK SERIES

PLANNING PROCESS FOR INTRINSIC FIRE RESISTANCE

1. Requirements

- + **Country-specific requirements and national laws have to be observed!**
- + The relevant local regulations of legislators, fire brigades or similar services, which are placed on the building and its use must be observed.

2. E30 / E60 / E90 PH120?

- + Are there any requirements for intrinsic fire resistance in electrical installations E30/E60/E90 or
- + Testing for insulation integrity PH120: BS EN 50200



PRICE AND INSULATION INTEGRITY

3. Selection of material

Selection should be carried out according to:

- + intrinsic fire resistance E30 or E90 or insulation integrity e.g. PH120
- + cable junction or cable connection
- + installation procedure in buildings
- + type of cable installation
- + anchoring method on the building material
- + approval of materials according to certificate Prüfzeugnis

4. Manufacturer

Country-specific requirements and national laws have to be observed!

The selection of a cable manufacturer is carried out according to









































- + type of cable installation
- + required cable junction or cable connection

5. Operating

Country-specific requirements and national laws have to be observed!

Professional execution of the installation work

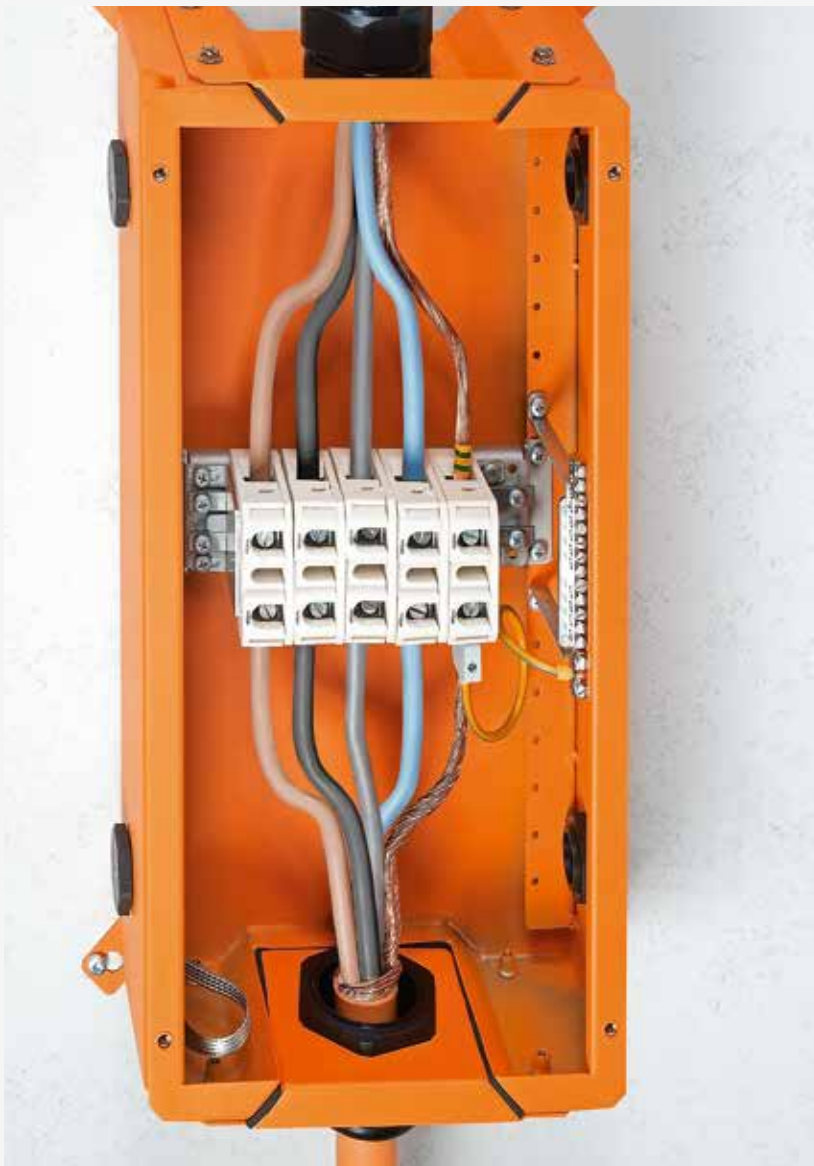
FK SERIES - APPROVED FOR INTRINSIC FIRE RESISTANCE AND INSULATION INTEGRITY
FK MADE FROM CERAMIC

	<p>FK 0402</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	   
	<p>FK 0404</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 4 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	   
	<p>FK 0604</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	   
	<p>FK 0606</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 6 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	   
	<p>FK 1608</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 16 mm² + 9-pole terminal with 2 clamping units per pole, Screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   
	<p>FK 1606</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   
	<p>FK 1610</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   
	<p>FK 1616</p>	<ul style="list-style-type: none"> + with terminals made from ceramic with resistance to high temperatures + 16 mm² + 5-pole terminal with 2 clamping units per pole, screw connection + with metric knockouts + dimensions H x W x D: 155 x 210 x 92 mm 	   

FK-SERIE

APPROVED FOR INTRINSIC FIRE RESISTANCE
AND INSULATION INTEGRITY

IP
66



System properties

- + Intrinsic fire resistance in accordance with DIN 4102 Part 12 (German standard) in combination with function-retaining cables
- + Insulation integrity PH120 in accordance with BS EN 50200 in combination with insulation retaining cables
- + Protection against accidental contact is ensured by the enclosure
- + External brackets for fastening
- + Cable junction box for tunnel application for large conductor cross-sections up to 50 mm²
- + Communication junction box E30 for the installation of connecting device for telecommunications
- + Material: sheet steel, powder-coated
- + Colour: orange, RAL 2003

FK SERIES - APPROVED FOR INTRINSIC FIRE RESISTANCE AND INSULATION INTEGRITY
 FK MADE OF SHEET STEEL



FK 9025

- + with terminals made from ceramic with resistance to high temperatures
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 150 x 150 x 80 mm



FK 9105

- + with terminals made from ceramic with resistance to high temperatures
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 150 x 200 x 80 mm



FK 9255

- + with terminals made from ceramic with resistance to high temperatures
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 200 x 200 x 80 mm



FK 9259

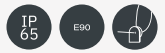
- + with terminals made from ceramic with resistance to high temperatures
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + with metric knockouts
- + dimensions H x W x D: 200 x 200 x 80 mm





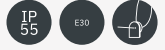
FK 6505

- + with terminals made from ceramic with resistance to high temperatures
- + 50 mm²
- + 5-pole terminal with 2 clamping units per pole, screw connection
- + dimensions H x W x D: 276 x 515 x 138 mm



FK 5000

- + dimensions H x W x D: 255 x 255 x 160 mm



FK SERIES - APPROVED FOR INTRINSIC FIRE RESISTANCE AND INSULATION INTEGRITY
FK MADE OF SHEET STEEL



FK 5110

- + connecting device for telecommunications
- + screwless for 10 pairs



FK 5120

- + connecting device for telecommunications
- + screwless for 20 pairs

















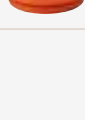

FK 5210

- + connecting device for telecommunications
- + screw-type connection for 10 pairs




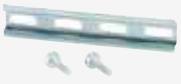

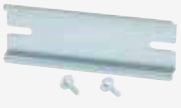



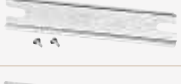




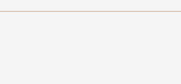
FK 5220

- + connecting device for telecommunications
- + screw-type connection for 20 pairs

	AKMF 20	+ cable glands + for knockouts M20	IP 66/67/69 
	AKMF 25	+ cable glands + for knockouts M25	IP 66/67/69 
	AKMF 32	+ cable glands + for knockouts M32	IP 66/67/69 
	AKMF 40	+ cable glands + for knockouts M40	IP 66/67/69 
	EDKF 20	+ grommets + for knockouts M20	IP 65 
	EDKF 25	+ grommets + for knockouts M25	IP 65 
	EDKF 32	+ grommets + for knockouts M32	IP 65 
	EDKF 40	+ grommets + for knockouts M40	IP 65 

CABLE JUNCTION BOXES ACCESSORIES



	DK TS 02	+ DIN rail 15 mm + DIN rail 15 x 5.5 mm, 67 mm long
	DK TS 04	+ DIN rail 15 mm + DIN rail 15 x 5.5 mm, 77 mm long
	DK TS 01	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 71 mm long
	DK TS 06	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 97 mm long
	DK TS 10	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 147 mm long
	DK TS 16	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 175 mm long
	DK TS 16 Q	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 120 mm long
	DK TS 25	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 218 mm long
	DK TS 25 Q	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 168 mm long
	DK TS 35	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 256 mm long
	DK TS 35 Q	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 186 mm long
	DK TS 50	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 314 mm long
	DK TS 50 Q	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 214 mm long



- DK KL 02** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DK KH 02** + Support for terminals



- DK KL 04** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DK KH 04** + Support for terminals



- DK KL 06** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DK KH 06** + Support for terminals



- DK KS 10** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DK KS 16** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DK KS 25** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal


















- DK KS 35** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal






















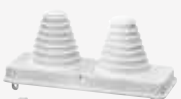


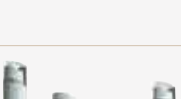
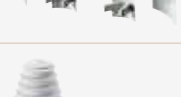
- DK KS 50** + 5-pole terminal with 2 clamping units per pole, screw connection
+ copper branch terminal



- DKL 04** + 5-pole terminal with 1 clamping units per pole, Screw connection
+ copper branch terminal

	DK MB 1	+ pipe and pole mounting set	
	DK MB 2	+ pipe and pole mounting set	
	DK MB 3	+ pipe and pole mounting set	
	LDM 25 G	+ grommets + for knockouts M25	
	LDM 25 B	+ grommets + for knockouts M25	
	LDM 32 G	+ grommets + for knockouts M32	
	LDM 32 B	+ grommets + for knockouts M32	
	DEW GUARD HDG 050	+ dimensions H x W : 50 x 75 mm + Temperature range : - 30 °C to 90 °C	
	DEW GUARD HDG 075	+ dimensions H x W : 75 x 100 mm + Temperature range : - 30 °C to 90 °C	
	DEW GUARD HDG 100	+ dimensions H x W : 100 x 100 mm + Temperature range : - 30 °C to 90 °C	
	DEW GUARD HDG 150	+ dimensions H x W : 150 x 150 mm + Temperature range : - 30 °C to 90 °C	

	KHR 01	<ul style="list-style-type: none"> + cable retention system + set with 10 x 6 retaining rings + for cable diameter 6.5 - 14 mm
	KHR 02	<ul style="list-style-type: none"> + cable retention system + set with 10 x 6 retaining rings + for cable diameter 10 - 16 mm
	DK BZ 5	<ul style="list-style-type: none"> + labelling material + set with 5 pieces
	DK BZ 10	<ul style="list-style-type: none"> + fixing screw + set with 10 pieces
	DK BS 5	<ul style="list-style-type: none"> + Labelling material + Set with 5 pieces
	PLS 06	<ul style="list-style-type: none"> + sealing device + without sealing wire and without seal
	PLS 50	<ul style="list-style-type: none"> + sealing device + without sealing wire and without seal
	EKA 20	+ removable trunking adapter
	ERA 20	<ul style="list-style-type: none"> + removable conduit adapter + for knockouts M20
	DPS 02	+ removable grommet
	DK AL 2	<ul style="list-style-type: none"> + external fixing + set with 2 pieces
	DK ZE 10	<ul style="list-style-type: none"> + strain relief + set with 10 pieces

	Mi AL 40	<ul style="list-style-type: none"> + external brackets + set with 4 pieces 	
	Mi MB 2	<ul style="list-style-type: none"> + pipe and pole mounting set 	
	Mi FM 40	<ul style="list-style-type: none"> + flange + 2 x M25, M32, 5 x M32, M40 + suitable for box wall: 300 mm 	
	Mi FM 50	<ul style="list-style-type: none"> + flange + 2 x M20, 4 x M32, M40, M50 + suitable for box wall: 300 mm 	
	Mi FM 60	<ul style="list-style-type: none"> + flange + 3 x M40, M50, M63, + suitable for box wall: 300 mm 	
	Mi FM 63	<ul style="list-style-type: none"> + flange + 3 x M40, M50, M63, + suitable for box wall: 300 mm 	
	Mi FP 70	<ul style="list-style-type: none"> + Flange + elastic membranes: 1 x 32 mm - 70 mm + suitable for box wall: 300 mm 	IP 65
	Mi FP 72	<ul style="list-style-type: none"> + flange + elastic membranes: 2 x 30 mm - 72 mm, + suitable for box wall: 300 mm 	IP 65
	Mi FP 82	<ul style="list-style-type: none"> + flange + insert: 2 x 30 mm - 72 mm + suitable for box wall: 300 mm 	
	Mi ZE 62	<ul style="list-style-type: none"> + strain relief + for 2 cables with max. 60 mm external diameter + to be used only in connection with Mi FP 82 	
	Mi SA 2	<ul style="list-style-type: none"> + dust protection cover 	
	KST 82	<ul style="list-style-type: none"> + stepped grommets 	IP 54

CABLE ENTRY – THE RIGHT CABLE GLAND FOR EVERY BOX

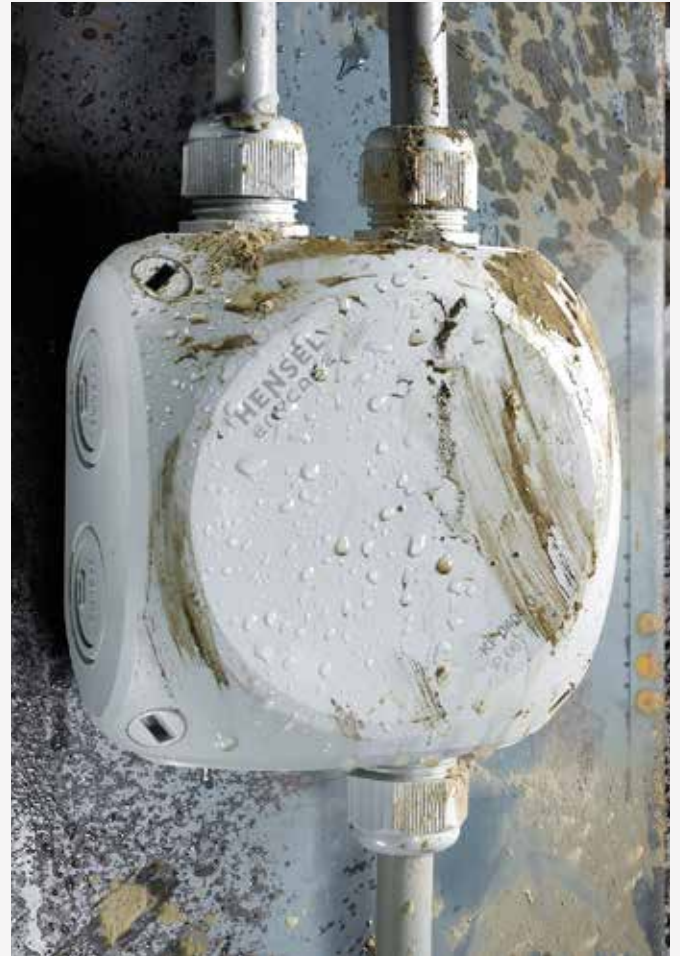
**Use the high-quality cable glands from HENSEL and
you can rely on tested system solutions**

- + Large selection of cable glands and screw fittings
- + Degree of protection tests from IP 31 - IP 69
- + Hexagon nut and necessary sealing rings always included
- + Available in grey, black and orange

TESTED IN THE SYSTEM AND
READY FOR IMMEDIATE USE!

IP
31-69









POLE MOUNTING MADE EASY

Professional assembly solutions for housing installation on round poles

MORE ACCESSORIES



hensel.in

Pole mounting solutions for simple, secure and flexible installation

- + For mounting installation housings on round poles via profile clamps
- + Profile clamps and fixing screws included
- + Clamping range 60 to 150 mm
- + Easy assembly: Mounting holes with pre-cut M4 threads
- + Weatherproof thanks to stainless steel V2A
- + Available for cable junction boxes, KV small-type distribution boards and Mi distributors




ENYBOARD –
KV SMALL-TYPE DISTRIBUTION BOARD
FOR PRO'S

[hensel.in](https://www.hensel.in)

HENSEL



The right box for every application KV small-type distribution boards until 63 A

- + 3 up to 54 modules
- + IP 54-65
- + Protection class II, 
- + in accordance with DIN EN 60670-24 / DIN 43871



KV small-type distribution boards:
IP 54 / IP 65
Circuit breaker box,
elastic membranes

94_104



KV small-type distribution boards:
IP 54 / IP 65
Circuit breaker box,
metric knockouts

105_109



KV small-type distribution boards:
IP 65
Circuit breaker box „weatherproof“,
for outdoor installation,
elastic membranes

110_113



KV small-type distribution boards:
IP 65
Circuit breaker boxes with additional
space for electrical devices not to be
manually actuated,
elastic membranes

114_116



KV small-type distribution boards:
IP 54 / IP 65
Meter box,
elastic membranes

117_118

THE SMALL DISTRIBUTION BOARD WITH MANY PRACTICAL ADVANTAGES

KV small-type distribution boards are quite big in economical energy distribution for trade and industry. Close to the workplace. Safe due to the highest material quality. Standard-compliant thanks to HENSEL know-how.



ONE DOOR ACROSS ALL INSTALLATION SERIES



The HENSEL advantages



Visually clean installation due to enclosed cable entry cover.
Modern FIXCONNECT® plug-in terminal technology

Support rails with end stop for the built-in unit

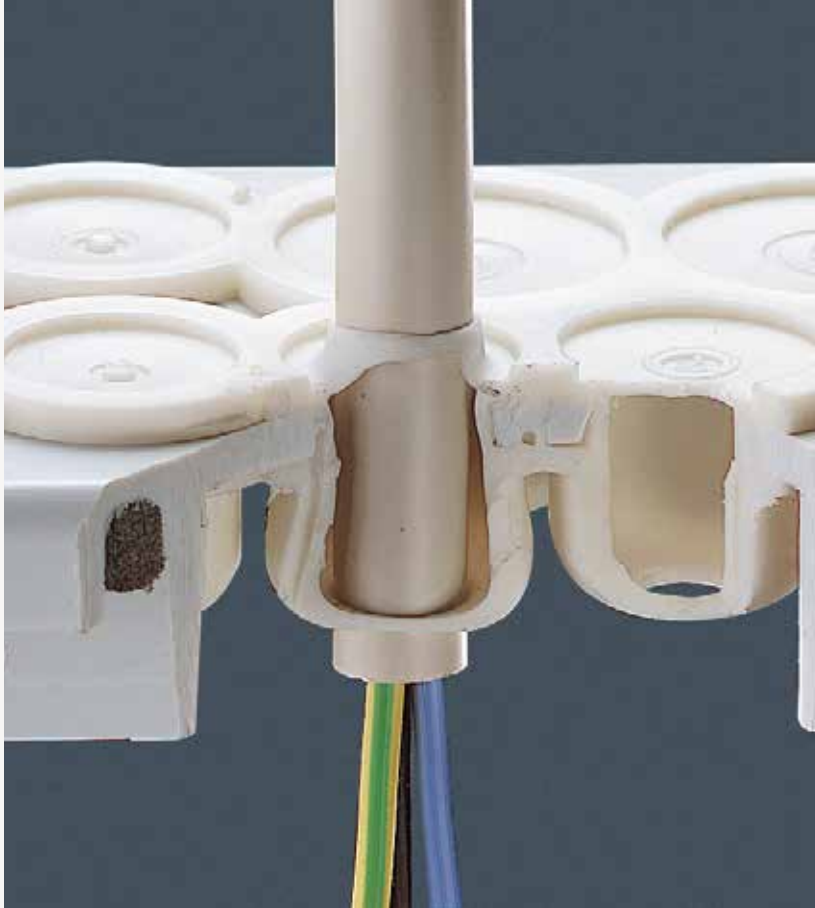


Integrated accessory compartment - everything has its place, nothing gets lost

Flame-retardant, self-extinguishing burning behaviour: Glow wire test in accordance with IEC 60695-2-11



Practical solutions for the cable entry



Cable entry with integrated, elastic membranes

Cable entry via knockouts with cable glands



Mounting sets for pipe and pole mounting

Pole mounting for KV small-type distribution boards with up to 54 modules



Securely closed with built-in lock and lead sealing



Sealing of lower part and lid



Door lockable and/or sealable with built-in lock



Door hinge can be easily changed by means of latching

Modern boxes with plenty of space for mounting



Compact user friendly solution, optically optimized by cable entry cover



THAT'S JUST RIGHT!
ACCESSORIES FOR
REAL PRO'S.

Any item can be found
easily and quickly at
[hensel.in](https://www.hensel.in)

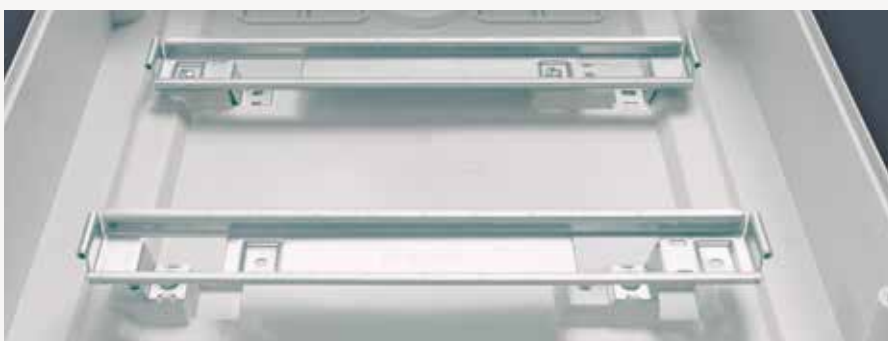


Scan the QR
code directly
now



Plenty of space for wiring, more convenient access for wiring

Multiple box attachments – even on pillars or narrow components



Variable installation depth by repositioning the support rails at different heights

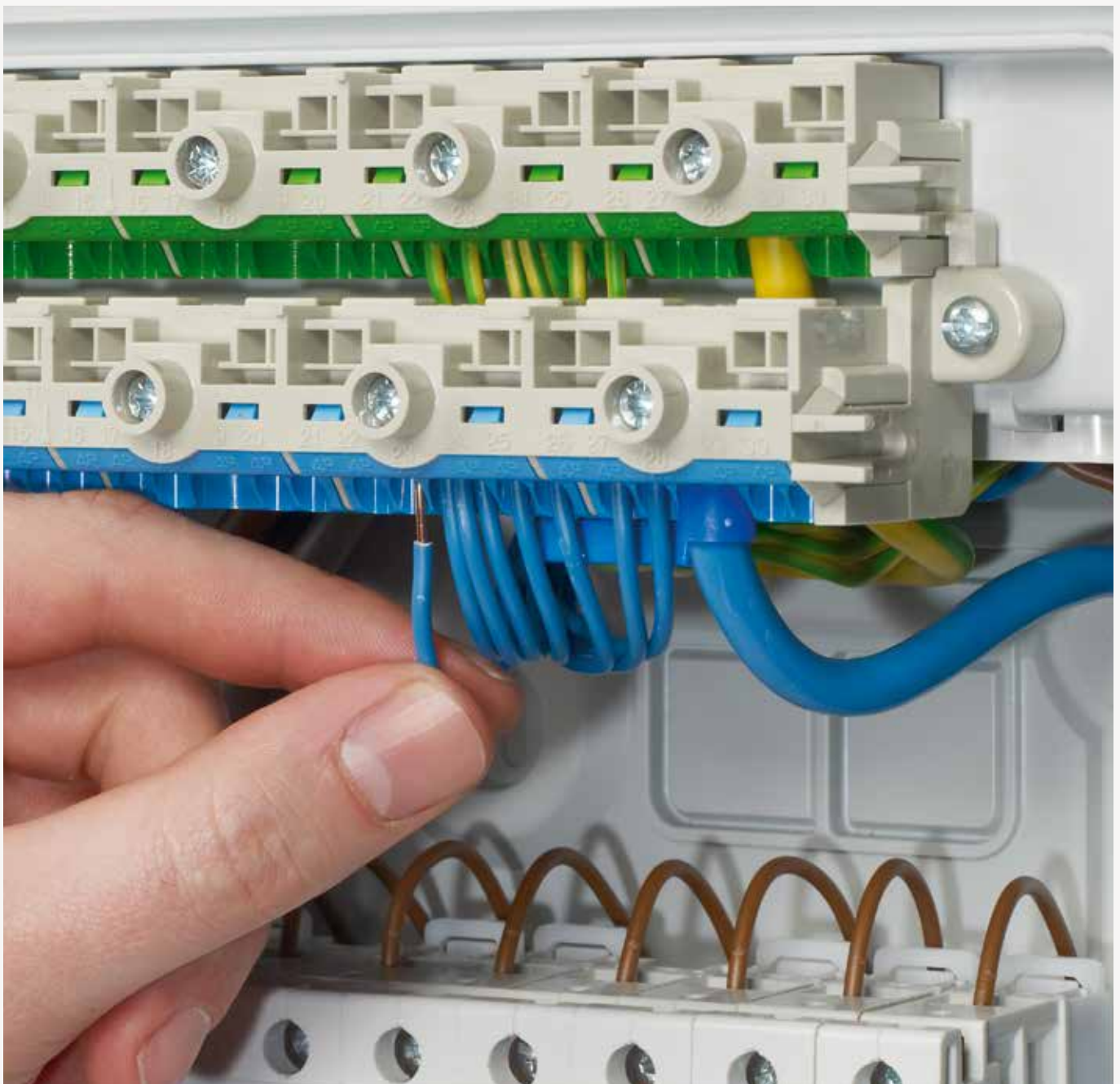


Enclosed cover strips

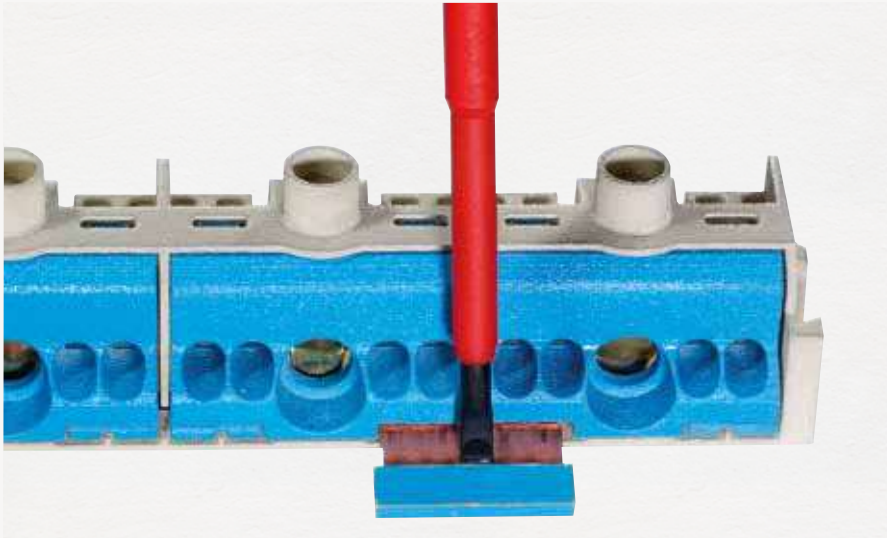
FIXCONNECT® PLUG-IN TERMINAL TECHNOLOGY

Fast assembly thanks to FIXCONNECT® plug-in terminal technology

PE/N terminal in plug-in terminal technology



Pluggable jumpers for
different N potentials



Labelling option for the terminal



Plenty of space for circuit
identification

Editable template at
hensel.in



KV EXTRA

With space for operation-independent electrical devices

Built-in installation devices in accordance with the standard (in envelope dimensions in accordance with DIN 43880) and operation-independent devices can be installed in the same enclosure at the same time.

IP
65

KV PC WEATHER PROOF

For unprotected outdoor installation

Weatherproof KV small-type distribution boards are quite big on economical power distribution for outdoor commercial and industrial installations.

WEATHERPROOF



PRODUCT RANGE OVERVIEW

KV Small-type distribution boards

- + Small-type distribution boards in accordance with DIN 43871 up to IP 65
- + For rail mounted units up to 63 A in accordance with DIN 43880
- + Operation by non-specialists possible
- + In accordance with IEC 60670-24

MODULES 1 TE = 18 mm	IP 54 FIXCONNECT® with terminal	IP 65 FIXCONNECT® with terminal	IP 65 KV without terminal	IP 54 KV without terminal
3 modules Single row with 3 modules	KV 1503	KV 9103	KV 8103	KV 1603
4,5 modules Single row with 4.5 modules	KV 1504	KV 9104	KV 8104	KV 1604
6 modules Single row with 6 modules	KV 1506	KV 9106	KV 8106	KV 1606
9 modules Single row with 9 modules	KV 1509	KV 9109	KV 8109	KV 1609
12 modules Single row with 12 modules	KV 1512	KV 9112	KV 8112 KV 8112 G	KV 1612
18 modules Single row with 18 modules	KV 1518	KV 9118	KV 8118 KV 8118 G	KV 1618
24 modules 2 rows each with 12 modules	KV 2524	KV 9224	KV 8224 KV 8224 G	KV 1624
36 modules 2 rows each with 18 modules	KV 2536	KV 9236	KV 8236	KV 1636
36 modules 3 rows each with 12 modules	KV 3536	KV 9336	KV 8336	KV 1636
48 modules 4 rows each with 12 modules	KV 4548	KV 9448	KV 8448 KV 8448 G	KV 1648
54 modules 3 rows each with 18 modules	KV 3554	KV 9354	KV 8354	KV 1654

**CIRCUIT BREAKER
BOXES**



IP 65	IP 65	IP 54	IP 65	IP 65
KV metric without terminal	FIXCONNECT® metric with terminal	KV metric without terminal	KV extra	KV weatherproof
KV 6103				KV PC 9103
KV 6104				KV PC 9104
KV 6106				KV PC 9106
KV 6109				KV PC 9109
KV 6112 M	KV 9112 M	KV 1612 M	KV 9220	KV PC 9112
KV 6118 M	KV 9118 M	KV 1618 M	KV 9230	
KV 6124 M	KV 9224 M	KV 1624 M	KV 9330	KV PC 9224
KV 6136 M	KV 9236 M	KV 1636 M	KV 9350	
KV 6136 M	KV 9336 M	KV 1636 M	KV 9440	KV PC 9336
KV 6148 M	KV 9448 M	KV 1648 M		KV PC 9448
KV 6154 M	KV 9354 M	KV 1654 M		

KV SMALL-TYPE DISTRIBUTION BOARDS CIRCUIT BREAKER BOX

Conduit entry via integrated elastic membranes





System properties

- + Compact user friendly solution, optically optimized by cable entry cover
- + Integrated compartment for accessories - everything has its proper place
- + Screws made of stainless steel V2A
- + FIXCONNECT® plug-in terminal technology for PE and N
- + Connection for copper conductors
- + 12 up to 54 modules: attached blanking strips for DIN rail equipment openings
- + 3 up to 9 modules: protective cover can be cut out

- + Material: polystyrene
- + Burning behaviour:
glow wire test in accordance with
IEC 60695-2-11: 750 °C,
flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



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

KV SMALL-TYPE DISTRIBUTION BOARDS - WITH FIXCONNECT® N AND PE TERMINALS
IP65, 3-54 TE

	KV 9103	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 3 modules (18 mm) + dimensions H x W x D: 197 x 102 x 92 mm 	 
	KV 9104	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 4.5 modules (18 mm) + dimensions H x W x D: 228 x 126 x 111 mm 	 
	KV 9106	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 6 modules (18 mm) + dimensions H x W x D: 238 x 146 x 111 mm 	 
	KV 9109	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 9 modules (18 mm) + dimensions H x W x D: 238 x 200 x 111 mm 	 
	KV 9112	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 12 modules (18 mm) + dimensions H x W x D: 333 x 295 x 129 mm 	 
	KV 9118	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 18 modules (18 mm) + dimensions H x W x D: 333 x 403 x 129 mm 	 
	KV 9224	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 2x 12 modules (18 mm) + dimensions H x W x D: 458 x 295 x 129 mm 	 



KV 9236

- + with FIXCONNECT® N- und PE terminal
- + with 2x 18 modules (18 mm)
- + dimensions H x W x D: 483 x 403 x 129 mm



KV 9336

- + with FIXCONNECT® N- und PE terminal
- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 583 x 295 x 129 mm



KV 9448

- + with FIXCONNECT® N- und PE terminal
- + with 4x 12 modules (18 mm)
- + dimensions H x W x D: 708 x 295 x 129 mm



KV 9354

- + with FIXCONNECT® N- und PE terminal
- + with 3x 18 modules (18 mm)
- + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS - WITH FIXCONNECT® N AND PE TERMINALS
IP54, 3-54 TE

	KV 1503	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 3 modules (18 mm) + dimensions H x W x D: 197 x 102 x 92 mm 	 
	KV 1504	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 4.5 modules (18 mm) + dimensions H x W x D: 228 x 126 x 111 mm 	 
	KV 1506	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 6 modules (18 mm) + dimensions H x W x D: 238 x 146 x 111 mm 	 
	KV 1509	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 9 modules (18 mm) + dimensions H x W x D: 238 x 200 x 111 mm 	 
	KV 1512	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 12 modules (18 mm) + dimensions H x W x D: 333 x 295 x 129 mm 	 
	KV 1518	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 18 modules (18 mm) + dimensions H x W x D: 333 x 403 x 129 mm 	 
	KV 2524	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 2x 12 modules (18 mm) + dimensions H x W x D: 458 x 295 x 129 mm 	 



KV 2536

- + with FIXCONNECT® N- und PE terminal
- + with 2x 18 modules (18 mm)
- + dimensions H x W x D: 483 x 403 x 129 mm



KV 3536

- + with FIXCONNECT® N- und PE terminal
- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 583 x 295 x 129 mm



KV 4548

- + with FIXCONNECT® N- und PE terminal
- + with 4x 12 modules (18 mm)
- + dimensions H x W x D: 708 x 295 x 129 mm



KV 3554

- + with FIXCONNECT® N- und PE terminal
- + with 3x 18 modules (18 mm)
- + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS - WITHOUT TERMINALS

IP 65, 3-54 TE

	KV 8103	<ul style="list-style-type: none"> + without terminals + with 1x 3 modules (18 mm) + dimensions H x W x D: 197 x 102 x 92 mm 	 
	KV 8104	<ul style="list-style-type: none"> + without terminals + with 1x 4.5 modules (18 mm) + dimensions H x W x D: 228 x 126 x 111 mm 	 
	KV 8106	<ul style="list-style-type: none"> + without terminals + with 1x 6 modules (18 mm) + dimensions H x W x D: 238 x 146 x 111 mm 	 
	KV 8109	<ul style="list-style-type: none"> + without terminals + with 1x 9 modules (18 mm) + dimensions H x W x D: 238 x 200 x 111 mm 	 
	KV 8112	<ul style="list-style-type: none"> + without terminals + with 1x 12 modules (18 mm) + dimensions H x W x D: 333 x 295 x 129 mm 	 
	KV 8118	<ul style="list-style-type: none"> + without terminals + with 1x 18 modules (18 mm) + dimensions H x W x D: 333 x 403 x 129 mm 	 
	KV 8224	<ul style="list-style-type: none"> + without terminals + with 2x 12 modules (18 mm) + dimensions H x W x D: 458 x 295 x 129 mm 	 



KV 8236

- + without terminals
- + with 2x 18 modules (18 mm)
- + dimensions H x W x D: 483 x 403 x 129 mm



KV 8336

- + without terminals
- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 583 x 295 x 129 mm



KV 8448

- + without terminals
- + with 4x 12 modules (18 mm)
- + dimensions H x W x D: 708 x 295 x 129 mm



KV 8354

- + without terminals
- + with 3x 18 modules (18 mm)
- + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS - WITHOUT TERMINALS

IP 65, 3-54 TE



- KV 8112 G**
- + without terminals
 - + with 1x 12 modules (18 mm)
 - + dimensions H x W x D: 333 x 295 x 129 mm



- KV 8118 G**
- + without terminals
 - + with 1x 18 modules (18 mm)
 - + dimensions H x W x D: 333 x 403 x 129 mm



- KV 8224 G**
- + without terminals
 - + with 2x 12 modules (18 mm)
 - + box walls without knockouts
 - + dimensions H x W x D: 458 x 295 x 129 mm



- KV 8448 G**
- + without terminals
 - + with 4x 12 modules (18 mm)
 - + box walls without knockouts
 - + dimensions H x W x D: 708 x 295 x 129 mm





KV 1603

- + without terminals
- + with 1x 3 modules (18 mm)
- + dimensions H x W x D: 197 x 102 x 92 mm



KV 1604

- + without terminals
- + with 1x 4.5 modules (18 mm)
- + dimensions H x W x D: 228 x 126 x 111 mm



KV 1606

- + without terminals
- + with 1x 6 modules (18 mm)
- + dimensions H x W x D: 238 x 146 x 111 mm



KV 1609

- + without terminals
- + with 1x 9 modules (18 mm)
- + dimensions H x W x D: 238 x 200 x 111 mm



KV 1612

- + without terminals
- + with 1x 12 modules (18 mm)
- + dimensions H x W x D: 333 x 295 x 129 mm



KV 1618

- + without terminals
- + with 1x 18 modules (18 mm)
- + dimensions H x W x D: 333 x 403 x 129 mm



KV 2624

- + without terminals
- + with 2x 12 modules (18 mm)
- + dimensions H x W x D: 458 x 295 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS - WITHOUT TERMINALS

IP 54, 3-54 TE



KV 2636

- + without terminals
- + with 2x 18 modules (18 mm)
- + dimensions H x W x D: 483 x 403 x 129 mm



KV 3636

- + without terminals
- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 583 x 295 x 129 mm



KV 4648

- + without terminals
- + with 4x 12 modules (18 mm)
- + dimensions H x W x D: 708 x 295 x 129 mm



KV 3654

- + without terminals
- + with 3x 18 modules (18 mm)
- + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS CIRCUIT BREAKER BOX

cable entry via metric knockouts



System properties

- + Compact user friendly solution, optically optimized by cable entry cover
- + Integrated compartment for accessories - everything has its proper place
- + Screws made of stainless steel V2A
- + FIXCONNECT® plug-in terminal technology for PE and N
- + Connection for copper conductors
- + 12 up to 54 modules: attached blanking strips for DIN rail equipment openings

- + Material: polystyrene
- + Burning behaviour:
glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

KV SMALL-TYPE DISTRIBUTION BOARDS - WITHOUT TERMINALS

IP 65, 3-54 TE

	KV 6103	<ul style="list-style-type: none"> + without terminals + with 1x 3 modules (18 mm) + with metric knockouts + dimensions H x W x D: 197 x 102 x 92 mm 	 
	KV 6104	<ul style="list-style-type: none"> + without terminals + with 1x 4.5 modules (18 mm) + with metric knockouts + dimensions H x W x D: 228 x 126 x 111 mm 	 
	KV 6106	<ul style="list-style-type: none"> + without terminals + with 1x 6 modules (18 mm) + with metric knockouts + dimensions H x W x D: 238 x 146 x 111 mm 	 
	KV 6109	<ul style="list-style-type: none"> + without terminals + with 1x 9 modules (18 mm) + with metric knockouts + dimensions H x W x D: 238 x 200 x 111 mm 	 
	KV 8112 M	<ul style="list-style-type: none"> + without terminals + with 1x 12 modules (18 mm) + with metric knockouts + dimensions H x W x D: 333 x 295 x 129 mm 	 
	KV 8118 M	<ul style="list-style-type: none"> + without terminals + with 1x 18 modules (18 mm) + with metric knockouts + dimensions H x W x D: 333 x 403 x 129 mm 	 
	KV 8224 M	<ul style="list-style-type: none"> + without terminals + with 2x 12 modules (18 mm) + with metric knockouts + dimensions H x W x D: 458 x 295 x 129 mm 	 



- KV 8236 M**
- + without terminals
 - + with 2x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 483 x 403 x 129 mm



- KV 8336 M**
- + without terminals
 - + with 3x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 583 x 295 x 129 mm



- KV 8448 M**
- + without terminals
 - + with 4x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 708 x 295 x 129 mm



- KV 8354 M**
- + without terminals
 - + with 3x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 630 x 403 x 129 mm





- KV 9112 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 333 x 295 x 129 mm



- KV 9118 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 333 x 403 x 129 mm



- KV 9224 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 2x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 458 x 295 x 129 mm



- KV 9236 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 2x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 483 x 403 x 129 mm



- KV 9336 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 3x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 583 x 295 x 129 mm



- KV 9448 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 4x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 708 x 295 x 129 mm



- KV 9354 M**
- + with FIXCONNECT® N- und PE terminal
 - + with 3x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 630 x 403 x 129 mm





- KV 1612 M**
- + without terminals
 - + with 1x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 333 x 295 x 129 mm



- KV 1618 M**
- + without terminals
 - + with 1x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 333 x 403 x 129 mm



- KV 2624 M**
- + without terminals
 - + with 2x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 458 x 295 x 129 mm



- KV 2636 M**
- + without terminals
 - + with 2x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 483 x 403 x 129 mm



- KV 3636 M**
- + without terminals
 - + with 3x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 583 x 295 x 129 mm



- KV 4648 M**
- + without terminals
 - + with 4x 12 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 708 x 295 x 129 mm



- KV 3654 M**
- + without terminals
 - + with 3x 18 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS

CIRCUIT BREAKER BOX

„WEATHERPROOF“

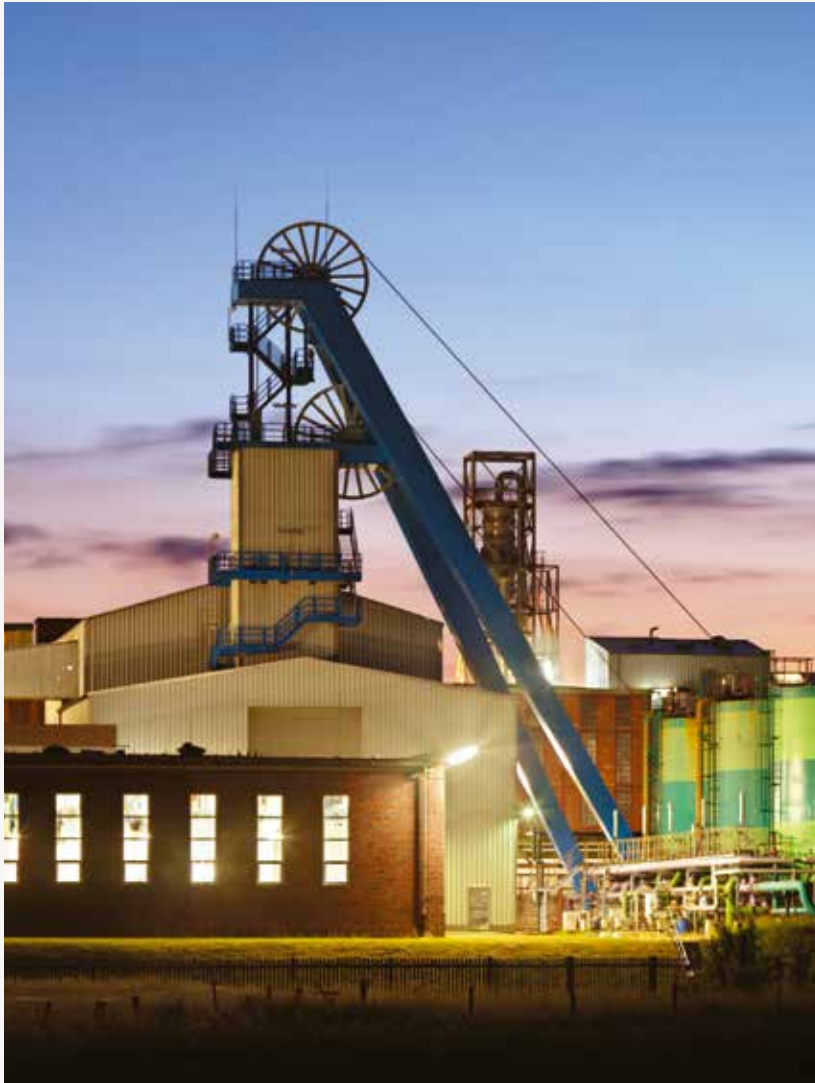
FOR OUTDOOR INSTALLATION

Cable entry via elastic membranes or metric knockouts



„WEATHERPROOF“





System properties

- + Weatherproof: UV-resistant, rainproof, temperature-resistant, impact-resistant, halogen-free and silicone-free
- + Compact user friendly solution, optically optimized by cable entry cover
- + Integrated compartment for accessories - everything has its proper place
- + Screws made of stainless steel V2A
- + Conduit entry via integrated elastic membranes
- + Cable entry via metric knockouts
- + FIXCONNECT® plug-in terminal technology for PE and N
- + Connection for copper conductors
- + 12 up to 54 modules: attached blanking strips for DIN rail equipment openings
- + 3 up to 9 modules: protective cover can be cut out
- + Material: polystyrene
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

KV PC-SMALL-TYPE DISTRIBUTION BOARDS - "WEATHERPROOF", FOR OUTDOOR INSTALLATION
(HARSH ENVIRONMENT AND/OR OUTDOOR)



- KV PC 9103**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 3 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 197 x 102 x 92 mm



- KV PC 9104**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 4.5 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 228 x 126 x 111 mm



- KV PC 9106**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 6 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 238 x 146 x 111 mm



- KV PC 9109**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 9 modules (18 mm)
 - + with metric knockouts
 - + dimensions H x W x D: 238 x 200 x 111 mm



- KV PC 9112**
- + with FIXCONNECT® N- und PE terminal
 - + with 1x 12 modules (18 mm)
 - + dimensions H x W x D: 333 x 295 x 129 mm



- KV PC 9224**
- + with FIXCONNECT® N- und PE terminal
 - + with 2x 12 modules (18 mm)
 - + dimensions H x W x D: 458 x 295 x 129 mm





- KV PC 9336**
- + with FIXCONNECT® N- und PE terminal
 - + with 3x 12 modules (18 mm)
 - + dimensions H x W x D: 583 x 295 x 129 mm



- KV PC 9448**
- + with FIXCONNECT® N- und PE terminal
 - + with 4x 12 modules (18 mm)
 - + dimensions H x W x D: 708 x 295 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS

CIRCUIT BREAKER BOXES WITH ADDITIONAL SPACE FOR ELECTRICAL DEVICES NOT TO BE MANUALLY ACTUATED

Cable entry via elastic membranes



KV-EXTRA





System properties

- + Pre-assembly and wiring in the workshop is possible in case of built-in terminal blocks
- + Within the same enclosure standard-conforming installation devices (sizes according to DIN 43880) and non-operator-controlled devices can be installed
- + Compact user friendly solution, optically optimized by cable entry cover
- + Integrated compartment for accessories - everything has its proper place
- + Screws made of stainless steel V2A
- + Cable entry via integrated elastic membranes
- + 12 up to 36 modules: blanking strips for unused DIN rail openings included Geräteausschnitt beigefügt
- + DIN-rails with stopper for proper position of installation device
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

KV "EXTRA"-SMALL-TYPE DISTRIBUTION BOARDS - WITH ADDITIONAL SPACE FOR ELECTRICAL DEVICES NOT TO BE MANUALLY ACTUATED



KV 9220

- + without terminals
- + with 1x 12 modules (18 mm)
- + dimensions H x W x D: 458 x 295 x 129 mm



KV 9230

- + without terminals
- + with 1x 18 modules (18 mm)
- + dimensions H x W x D: 483 x 403 x 129 mm



KV 9330

- + without terminals
- + with 2x 12 modules (18 mm)
- + dimensions H x W x D: 583 x 295 x 129 mm



KV 9440

- + without terminals
- + with 3x 12 modules (18 mm)
- + dimensions H x W x D: 708 x 295 x 129 mm



KV 9350

- + without terminals
- + with 2x 18 modules (18 mm)
- + dimensions H x W x D: 630 x 403 x 129 mm



KV SMALL-TYPE DISTRIBUTION BOARDS METER BOX

Cable entry via integrated elastic membranes

IP
65



System properties

- + DIN-rails with stopper for proper position of installation device
- + Sealable
- + DIN-rails with stopper for proper position of installation device
- + Screws made of stainless steel V2A
- + Burning behaviour: glow wire test in accordance with IEC 60695-2-11: 750 °C, flame-retardant, self-extinguishing
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

KV SMALL-TYPE DISTRIBUTION BOARDS - KV-METER BOXES



KV 9331

- + without terminals
- + dimensions H x W x D: 583 x 295 x 182 mm



KV 9337

- + without terminals
- + with KWH meter support and meter fastening screws for meters with three-point fastening
- + with hinged flap, protection cover and DIN rail for 12 modules
- + dimensions H x W x D: 583 x 295 x 182 mm



KV 9338

- + without terminals
- + with KWH meter support and meter fastening screws for meters with three-point fastening
- + dimensions H x W x D: 583 x 295 x 182 mm







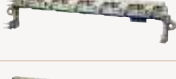
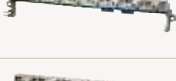
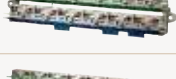







KV 9339

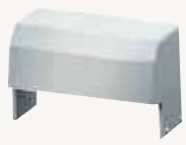
- + without terminals
- + with KWH meter support and meter fastening screws for meters with three-point fastening
- + dimensions H x W x D: 583 x 295 x 182 mm



KV SMALL-TYPE DISTRIBUTION BOARDS
ACCESSORIES



	KV FC 03	+ PE terminal, N terminal + per PE/N 1x 25 mm ² screw-type terminals and 4x 4 mm ² plug-in terminals	
	KV FC 04	+ PE terminal, N terminal + per PE/N 2x 25 mm ² screw-type terminals and 4x 4 mm ² plug-in terminals	
	KV FC 06	+ PE terminal, N terminal + per PE/N 2x 25 mm ² screw-type terminals and 4x 4 mm ² plug-in terminals	
	KV FC 09	+ PE terminal, N terminal + per PE/N 2x 25 mm ² screw-type terminals and 8x 4 mm ² plug-in terminals	
	KV FC 12	+ PE terminal, N terminal + per PE/N 3x 25 mm ² screw-type terminals and 12x 4 mm ² plug-in terminals	
	KV FC 18	+ PE terminal, N terminal + per PE/N 4x 25 mm ² screw-type terminals and 16x 4 mm ² plug-in terminals	
	KV FC 24	+ PE terminal, N terminal + per PE/N 6x 25 mm ² screw-type terminals and 24x 4 mm ² plug-in terminals	
	KV FC 36	+ PE terminal, N terminal + per PE/N 8x 25 mm ² screw-type terminals and 32x 4 mm ² plug-in terminals	
	FC BS 5	+ FIXCONNECT®-Labelling system for circuit description + Set with 5 pieces	
	FC BS 6	+ FIXCONNECT®-Labelling system for circuit description	
	EVS 16	+ connector + for lateral connection of KV enclosures + Pg 16	IP 54
	AVS 16	+ connector + for lateral connection of KV enclosures + Pg 16	IP 65
	KHR 01	+ cable retention system + set with 10 x 6 retaining rings + for cable diameter 6.5 - 14 mm	
	KHR 02	+ cable retention system + set with 10 x 6 retaining rings + for cable diameter 10 - 16 mm	



KV EB 03 + cable entry cover



KV EB 04 + cable entry cover



KV EB 06 + cable entry cover



KV EB 09 + cable entry cover



KV EB 12 + cable entry cover



KV EB 18 + cable entry cover



KV PL 2 + sealing device
+ set with 2 pieces
+ without sealing wire and without seal
+ for sealing between the enclosure base and upper part (doors can be sealed without accessories)



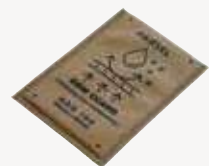
KV PL 3 + sealing device
+ set with 2 pieces
+ without sealing wire and without seal
+ for sealing between the enclosure base and upper part (doors can be sealed without accessories)



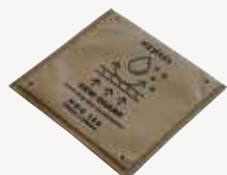
DEW GUARD HDG 050 + dimensions H x W : 50 x 75 mm
+ Temperature range : - 30 °C to 90 °C



DEW GUARD HDG 075 + dimensions H x W : 75 x 100 mm
+ Temperature range : - 30 °C to 90 °C














DEW GUARD HDG 100 + dimensions H x W : 100 x 100 mm
+ Temperature range : - 30 °C to 90 °C



DEW GUARD HDG 150 + dimensions H x W : 150 x 150 mm
+ Temperature range : - 30 °C to 90 °C

KV SMALL-TYPE DISTRIBUTION BOARDS - ACCESSORIES

	KV MB 3	+ pipe and pole mounting set + for KV with 3 modules
	KV MB 4	+ pipe and pole mounting set + for KV with 4.5 modules
	KV MB 6	+ pipe and pole mounting set + for KV with 6 modules
	KV MB 9	+ pipe and pole mounting set + for KV with 9 modules
	KV MB 12	+ pipe and pole mounting set + for KV with 12 modules
	KV MB 18	+ pipe and pole mounting set + for KV with 18 modules
	AS 12	+ blanking strip + modules: 12
	AS 18	+ blanking strip + modules: 18
	KV ES 1	+ locking device + key lock with 2 keys
	KV ES 2	+ spare key + set with 2 pieces
	KV ES 3	+ locking device + key lock with 2 keys



POLE MOUNTING MADE EASY

**Professional assembly solutions for
box installation on round poles**

MORE ACCESSORIES



[hensel.in](https://www.hensel.in)

Pole mounting solutions for simple, secure and flexible installation

- + For mounting installation boxes on round poles via profile clamps
- + Profile clamps and fixing screws included
- + Clamping range 60 to 150 mm
- + Easy assembly: Mounting holes with pre-cut M4 threads
- + Weatherproof thanks to stainless steel V2A
- + Available for cable junction boxes, KV small-type distribution boards and Mi distributors

NOTES

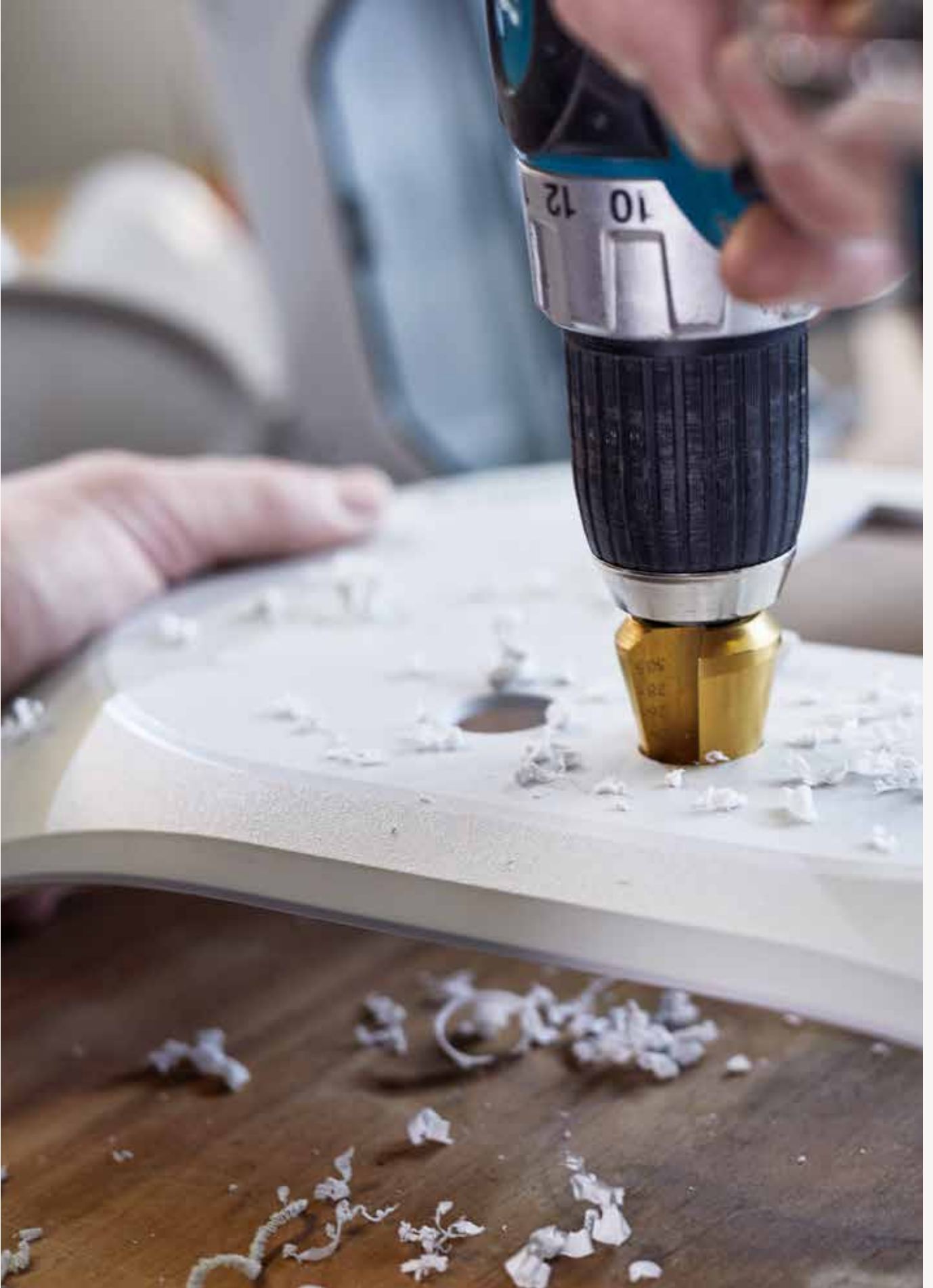
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ENYFLEX –
EMPTY ENCLOSURES
FOR PRO'S

hensel.in

HENSEL



The right empty enclosures for every application

according to IEC 62208,
for customer-specific solutions and individual applications.



EB empty enclosures
box walls without knockouts

136_139



KG empty enclosures
with metric knockouts

140



K empty enclosures
with metric knockouts

141

For customized solutions and individual applications

The robust enclosures developed, manufactured and marketed by HENSEL are suitable as universal encapsulation for many demanding tasks in trade and industry.

For example, they protect individual installation of electrical devices and electronic components in manufacturing processes, in the automation of machines and systems or in the field of industrial control systems. They are used as industrial, display and operating enclosures in a variety of industries, applications and environments.



Please scan the QR code or
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hensel.in
to get detailed information.

EMPTY ENCLOSURES FOR INDUSTRIAL APPLICATIONS

We help you to find exactly the right enclosures and components that fit your application and make your product work in any environment.

EMPTY ENCLOSURES
ACCORDING TO IEC 62208





For customized solutions and individual applications

The robust enclosures developed, manufactured and marketed by HENSEL are suitable as universal encapsulation for many demanding tasks in trade and industry.

For example, they protect individual installation of electrical devices and electronic components in manufacturing processes, in the automation of machines and systems or in the field of industrial control systems. They are used as industrial, display and operating enclosures in a variety of industries, applications and environments.

Simple, quick and safe

Enclosures made from thermoplastics can be easily and quickly machined for customized applications. Whether drilling, milling or sawing, the enclosures can be easily machined with conventional tools.

Wherever sensitive electronic or electrical components and other sensitive components need to be protected against external influences, Hensel's robust enclosures are used. The high quality enclosures offer the highest level of protection against dust and water, corrosion, impact and UV radiation.

They can easily be used in extreme industrial environments and under tough conditions.

Empty Enclosures





GENERAL INFORMATION

IEC 62208 Enclosures for low-voltage switchgear and controlgear assemblies.



General information

The IEC 62208 standard applies to empty enclosures, prior to the incorporation of switchgear and controlgear components by the user, as supplied by the enclosure manufacturer. It specifies general definitions, classifications, characteristics and test requirements of enclosures to be used as part of switchgear and controlgear assemblies (e.g. in accordance with the IEC 61439-series).

Protection against electric shock

In order to protect individuals in the event of faults against electric shock and the accompanying risks, enclosures are classified with protection class I (electrical earth) and protection class II (protection by total or reinforced insulation). HENSEL empty enclosures are manufactured from insulating material and provide protection against electric shock according to protection class II..



IP-Codes

for protecting electrical equipment against dust and water

Electrical equipment must be protected from external influences and conditions for safety reasons. The two-digit IP-Codes indicate to what extent the enclosure provides protection against hazardous parts and ingress of dust (1st digit) or water (2nd digit). For example IP 65: Electrical equipment inside the enclosure is protected against dust and harmful water and humidity. Therefore the IP-Codes indicate the suitability of enclosures for different environmental conditions.



Effects

on the degree of protection (IP-Code) when devices are built in the lid

If any switches, displays, push buttons or other equipment are built into the lid of an enclosure, the manufacturer must consider the effects on the degree of protection at that specific point.

The installation of electrical equipment into the lid, door or wall of an enclosure can reduce the degree of protection of the enclosure in that specific installation area depending on the degree of protection of the equipment and depending on additional measures for sealing the point of entry.

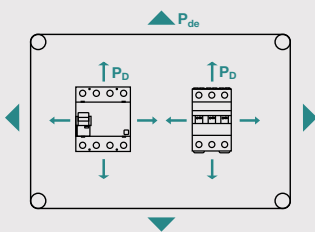
Example: The installation of an IP 44 socket into the lid of an IP 65 enclosure reduces the degree of protection in that specific area to IP 44. The enclosure itself still provides IP 65, but the manufacturer has to draw attention to the fact, that the socket only provides IP 44 for the area where it is installed.

Operating and ambient conditions

Empty enclosures according to IEC 62208 are applicable in ambient temperatures from -25 °C to +40 °C (outdoor installation) or from -5 °C to +40 °C (indoor installation).

The IEC 62208 requires the specification of the power dissipation capability P_{de} of the enclosures

The enclosure with its power dissipation capability P_{de} has to be able to dissipate the power loss P_D of the installed electrical equipment inside of the enclosure without exceeding the limits of operating and ambient temperatures.



P_{de} = power dissipation capability
 P_D = power dissipation

Temperature rise in enclosures and power dissipation

In relationship with the outside temperatures the temperature rise inside of enclosures, caused by the flowing current and the power loss P_D of the installed electrical equipment, has to be considered.

Most devices are designed for maximum ambient temperatures of +40 °C to +55 °C. Accordingly there may only be a narrow range for the temperature rise inside of the enclosure if the ambient temperature is close to the maximum operating temperature of the installed equipment.

The enclosure with its power dissipation capability P_{de} has to be able to dissipate the power loss P_D of the installed electrical equipment inside of the enclosure without exceeding the limits of operating and ambient temperatures. This ensures that the inside of an enclosure is not heated inadmissibly at a defined installed power loss and guarantees the operative readiness and reliable performance of the built-in electrical equipment.

The power dissipation P_D of the electrical equipment is given in the technical data of the respective manufacturers. The power dissipation capability P_{de} of Hensel empty enclosures are given in the technical data of this catalogue.

EXAMPLES OF APPLICATION

EMPTY ENCLOSURES
ACCORDING TO IEC 62208





EMPTY ENCLOSURES

FOR CUSTOMIZED SOLUTIONS AND
INDIVIDUAL APPLICATIONS


in accordance with IEC 62208

IP
66





System properties

- + For low-voltage switchgear and controlgear assemblies, for example in accordance with IEC 61439-series
- + For the installation of devices that must be operated externally, such as plug devices, push buttons and switches
- + Installation of electrical equipment via DIN rails or mounting plates
- + Cable entry via metric knockouts respectively by drilling individually using ESM grommets or AKM/ASS cable glands
- + Fasteners for tool operation as standard
- + Screws made of stainless steel V2A
- + Hinges for K-series lids available for operating installation devices within a large area
- + Material: PS polystyrene or PC polycarbonate, UV-resistant
- + Burning behaviour:
Glow wire test in accordance with IEC 60695-2-11: 750 °C / 960 °C, flame-retardant, self-extinguishing
- + Empty enclosures are equipment with protection class II,  in accordance with IEC 61439-1, section 8.4.4
- + Degree of protection: up to IP 66
- + Colour: grey, RAL 7035 or black, RAL 9011



Please scan the QR code or see our website hensel.in to get detailed information.

EMPTY ENCLOSURES — EMPTY ENCLOSURES IN ACCORDANCE WITH IEC 62208
 EB EMPTY BOXES, BOX WALLS WITHOUT KNOCKOUTS

	EB 02 G	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 74 x 74 x 47 mm + box walls without knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	   
	EB 02 B	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 74 x 74 x 47 mm + box walls without knockouts + dimensions H x W x D: 93 x 93 x 62 mm 	   
	EB 04 G	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 83 x 83 x 55 mm + box walls without knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	   
	EB 04 B	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 83 x 83 x 55 mm + box walls without knockouts + dimensions H x W x D: 104 x 104 x 70 mm 	   
	EB 06 G	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 102 x 102 x 62 mm + box walls without knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	   
	EB 06 B	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 102 x 102 x 62 mm + box walls without knockouts + dimensions H x W x D: 130 x 130 x 77 mm 	   
	EB 10 G	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 97 x 150 x 62 mm + box walls without knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	   
	EB 10 B	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 97 x 150 x 62 mm + box walls without knockouts + dimensions H x W x D: 130 x 180 x 77 mm 	   



EB 25 G

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 170 x 220 x 96 mm
- + box walls without knockouts
- + dimensions H x W x D: 205 x 255 x 112 mm



EB 25 B

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 170 x 220 x 96 mm
- + box walls without knockouts
- + dimensions H x W x D: 205 x 255 x 112 mm



EB 35 G

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 190 x 260 x 106 mm
- + box walls without knockouts
- + dimensions H x W x D: 225 x 295 x 122 mm



EB 35 B

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 190 x 260 x 106 mm
- + box walls without knockouts
- + dimensions H x W x D: 225 x 295 x 122 mm



EB 50 G

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 215 x 320 x 106 mm
- + box walls without knockouts
- + dimensions H x W x D: 255 x 355 x 122 mm



EB 50 B

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 215 x 320 x 106 mm
- + box walls without knockouts
- + dimensions H x W x D: 255 x 355 x 122 mm



EMPTY ENCLOSURES — EMPTY ENCLOSURES IN ACCORDANCE WITH IEC 62208
KG EMPTY BOXES, BOX WALLS WITH METRIC KNOCKOUTS



KG 9001

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 101 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 136 x 115 mm



KG 9001 IN

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 101 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 136 x 115 mm



KG 9002

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 133 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 168 x 115 mm



KG 9002 IN

- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 133 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 168 x 115 mm



KG 9003

























- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 182 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 217 x 115 mm



KG 9003 IN


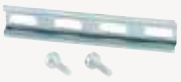
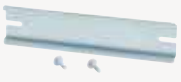


- + for installation equipment on DIN rails or mounting plates
- + installation dimensions height x width x depth: 205 x 182 x 95 mm
- + with metric knockouts
- + dimensions H x W x D: 253 x 217 x 115 mm



	K 0100	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 125 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 150 x 300 x 170 mm 	 
	K 0200	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 275 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 300 x 300 x 170 mm 	 
	K 0300	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 425 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 450 x 300 x 170 mm 	 
	K 0400	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 575 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 600 x 300 x 170 mm 	 
	K 0101	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 125 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 150 x 300 x 170 mm 	 
	K 0201	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 275 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 300 x 300 x 170 mm 	 
	K 0301	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 425 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 450 x 300 x 170 mm 	 
	K 0401	<ul style="list-style-type: none"> + for installation equipment on DIN rails or mounting plates + installation dimensions height x width x depth: 575 x 275 x 146 mm + box walls without knockouts + dimensions H x W x D: 600 x 300 x 170 mm 	 

EMPTY ENCLOSURES ACCESSORIES



	DK TS 01	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 71 mm long
	DK TS 02	+ DIN rail 15 mm + DIN rail 15 x 5.5 mm, 67 mm long
	DK TS 04	+ DIN rail 15 mm + DIN rail 15 x 5.5 mm, 77 mm long
	DK TS 06	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 97 mm long
	DK TS 10	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 147 mm long
	DK TS 25	+ DIN rail 35 mm + DIN rail 35 x 7.5 mm, 218 mm long
	DK TS 35	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 256 mm long
	DK TS 50	+ DIN rail 35 mm + DIN rail 35 x 15 mm, 314 mm long

EMPTY ENCLOSURES — ACCESSORIES
FOR EB EMPTY BOXES

ENYFLEX

Empty Enclosures



EB MP 02 + mounting plate
+ for EB 02.. empty boxes



EB MP 04 + mounting plate
+ for EB 04.. empty boxes



EB MP 06 + mounting plate
+ for EB 06.. empty boxes



EB MP 10 + mounting plate
+ for EB 10.. empty boxes






EB MP 25 + mounting plate
+ for EB 25.. empty boxes





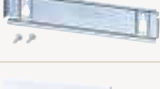



EB MP 35 + mounting plate
+ for EB 35.. empty boxes







EB MP 50 + mounting plate
+ for EB 50.. empty boxes

	DK MB 1	<ul style="list-style-type: none"> + pipe and pole mounting set + for cable junction boxes DK 02.. X, KF 02.. X, WP 02.. X, EB 02 X + for cable junction boxes DK 04.. X, KF 04.. X, WP 04.. X, EB 04 X + for cable junction boxes DK 06.. X, KF 06.. X, WP 06.. X, EB 06 X
	DK MB 2	<ul style="list-style-type: none"> + pipe and pole mounting set + for cable junction boxes DK 10.. X, KF 10.. X, WP 10.. X, EB 10 X + for cable junction boxes DK 16.. X, KF 16.. X
	DK MB 3	<ul style="list-style-type: none"> + pipe and pole mounting set + for cable junction boxes DK 25.. X, KF 25.. X, EB 25 X + for cable junction boxes DK 35.. X, KF 35.. X, EB 35 X + for cable junction boxes DK 50.. X, KF 50.. X, EB 50 X

EMPTY ENCLOSURES — ACCESSORIES
FOR KG EMPTY BOXES

	KG TS 01	<ul style="list-style-type: none"> + DIN rail 35 mm + DIN rail 35 x 7.5 mm, 81 mm long
	KG TS 02	<ul style="list-style-type: none"> + DIN rail 35 mm + DIN rail 35 x 7.5 mm, 108 mm long
	KG TS 03	<ul style="list-style-type: none"> + DIN rail 35 mm + DIN rail 35 x 7.5 mm, 162 mm long
	KG MP 01	<ul style="list-style-type: none"> + mounting plate + for KG 9001 empty enclosures
	KG MP 02	<ul style="list-style-type: none"> + mounting plate + for KG 9002 empty enclosures
	KG MP 03	<ul style="list-style-type: none"> + mounting plate + for KG 9003 empty enclosures

EMPTY ENCLOSURES — ACCESSORIES
FOR K EMPTY BOXES

	Mi TS 15	<ul style="list-style-type: none"> + DIN rail + DIN rail 35 x 15 mm, 134 mm long
	Mi TS 30	<ul style="list-style-type: none"> + DIN rail + DIN rail 35 x 15 mm, 284 mm long
	Mi TS 45	<ul style="list-style-type: none"> + DIN rail + DIN rail 35 x 15 mm, 434 mm long
	Mi TS 60	<ul style="list-style-type: none"> + DIN rail + DIN rail 35 x 15 mm, 584 mm long

EMPTY ENCLOSURES — ACCESSORIES
FOR K EMPTY BOXES

ENYFLEX

Empty Enclosures



- Mi MP 1**
- + mounting plate
- + suitable for box size: 1, 2, 3, 4, 6
- + dimensions H x W x D: 115 x 259 x 4 mm



- Mi MP 2**
- + mounting plate
- + suitable for box size: 2, 3, 4, 6, 8
- + dimensions H x W x D: 265 x 265 x 4 mm



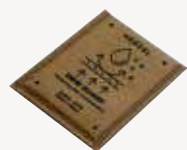
- Mi MP 3**
- + mounting plate
- + suitable for box size: 3, 4, 6
- + dimensions H x W x D: 415 x 265 x 4 mm



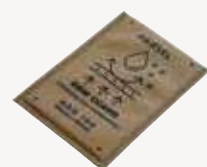
- Mi MP 4**
- + mounting plate
- + suitable for box size: 4, 6, 8
- + dimensions H x W x D: 565 x 265 x 4 mm



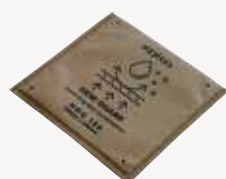
- DEW GUARD HDG 050**
- + dimensions H x W : 50 x 75 mm
- + Temperature range : - 30 °C to 90 °C





















- DEW GUARD HDG 075**
- + dimensions H x W : 75 x 100 mm
- + Temperature range : - 30 °C to 90 °C



- DEW GUARD HDG 100**
- + dimensions H x W : 100 x 100 mm
- + Temperature range : - 30 °C to 90 °C



- DEW GUARD HDG 150**
- + dimensions H x W : 150 x 150 mm
- + Temperature range : - 30 °C to 90 °C

	Mi PL 2	<ul style="list-style-type: none"> + locking device insertion conversion kit + seal closure + set with 2 pieces 	
	Mi SR 4	<ul style="list-style-type: none"> + locking device insertion conversion kit + tool operation + set with 4 pieces 	
	Mi SN 4	<ul style="list-style-type: none"> + Locking device insertion conversion kit + Hand closure + Set with 4 pieces 	
	Mi SV 2	<ul style="list-style-type: none"> + locking device insertion conversion kit + for padlock + set with 2 pieces 	
	Mi DV 01	+ Locking device insertion	
	Mi DR 04	<ul style="list-style-type: none"> + locking device insertion + triangle + set with 4 pieces 	
	DS 1	<ul style="list-style-type: none"> + spare key + triangle 	
	US 1	+ spare key	
	Mi AL 40	<ul style="list-style-type: none"> + external brackets + set with 4 pieces 	
	Mi ZS 20	<ul style="list-style-type: none"> + hinge + set with 2 pieces 	
	Mi ZS 30	+ hinge	
	Mi ZR 4	<ul style="list-style-type: none"> + extension frame + for enclosure size 4 + for extension of the installation depth by 85 mm + dimensions H x W x D: 600 x 300 x 85 mm 	
	Mi MB 1	<ul style="list-style-type: none"> + pipe and pole mounting set + for enclosure width 150 mm 	
	Mi MB 2	<ul style="list-style-type: none"> + pipe and pole mounting set + for enclosure width 300 mm 	

EMPTY ENCLOSURES

THE RIGHT ACCESSORIES FOR EVERY BOX

hensel.in

Use the high-quality cable glands from HENSEL and you can rely on tested system solutions

for EB empty enclosures

- + DIN rails
- + mounting plates
- + Mounting sets for box installation on round poles

for KG empty enclosures

- + DIN rails
- + mounting plates

for K empty enclosures

- + DIN rails
- + mounting plates
- + Mounting sets for box installation on round poles

CABLE ENTRY –

THE RIGHT CABLE GLAND FOR EVERY BOX

Use the high-quality cable glands from HENSEL and you can rely on tested system solutions

- + Large selection of cable glands and screw fittings
- + Degree of protection tests from IP 31 - IP 69
- + Hexagon nut and necessary sealing rings always included
- + Available in grey, black and orange

IP
31-69



POLE MOUNTING MADE EASY

**Professional assembly solutions for
housing installation on round poles**

Pole mounting solutions for simple, secure and flexible installation

- + For mounting installation housings on round poles via profile clamps
- + Profile clamps and fixing screws included
- + Clamping range 60 to 150 mm
- + Easy assembly: Mounting holes with pre-cut M4 threads
- + Weatherproof thanks to stainless steel V2A
- + Available for cable junction boxes, KV small-type distribution boards and Mi distributors

MORE ACCESSORIES



hensel.in

NOTES

A series of horizontal dotted lines for taking notes.



ENYSTAR –
DISTRIBUTION BOARDS
UP TO 250 A WITH DOOR

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HENSEL

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ENYSTAR®
Distribution Boards
up to 250 A



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

168_177



Circuit breaker boxes

178_183



Please scan the QR code or
see our website
hensel.in
to get detailed information.

COMBINABLE ENCLOSURE SYSTEM

For the construction of distribution boards up to 250 A

IP
65



IN ACCORDANCE WITH
IEC 61439-3




ENYSTAR®
Distribution Boards
up to 250 A



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



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

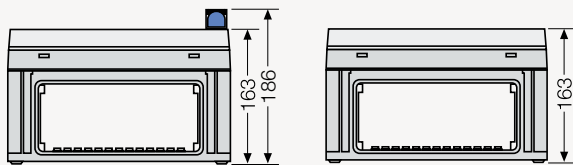
- + Four box sizes can be freely combined in all directions and can also be used as individual boxes.
- + The innovative enclosure system is ideally suited for the quick and easy construction of distribution boards up to 250 A.
- + Open side panels, integrated seals and secure plug connections ensure 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

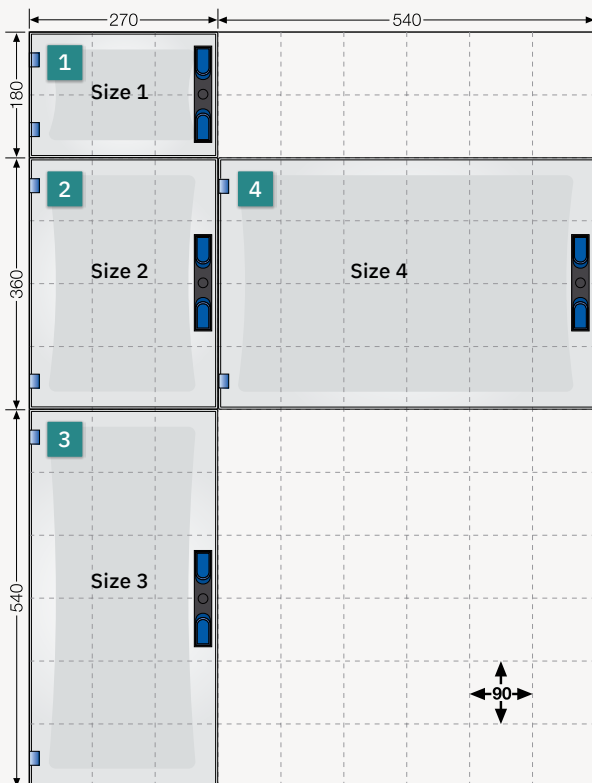
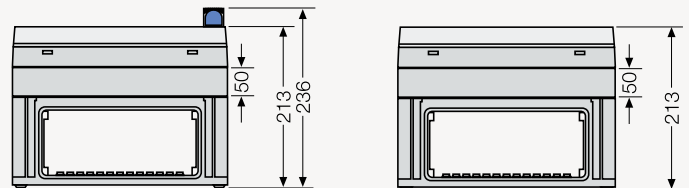
with tool operation



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

Ventilation option to reduce the formation of condensation



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



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 equipment 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

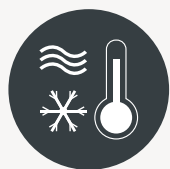
Electrical parameters



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



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

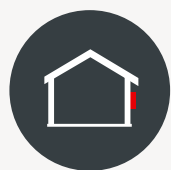
Environmental conditions

+ 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



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

Impact strength



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.

Application area



Dust-proof
 Degree of protection IP 65

Protection against foreign solid objects and direct contact



Insulated enclosures
 (Protection Class II)

Insulation



Protected against water jets
 Degree of protection IP 65

Protection against ingress of water with harmful effects

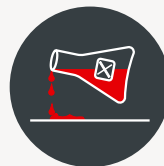
DEPENDENT ON MATERIAL

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

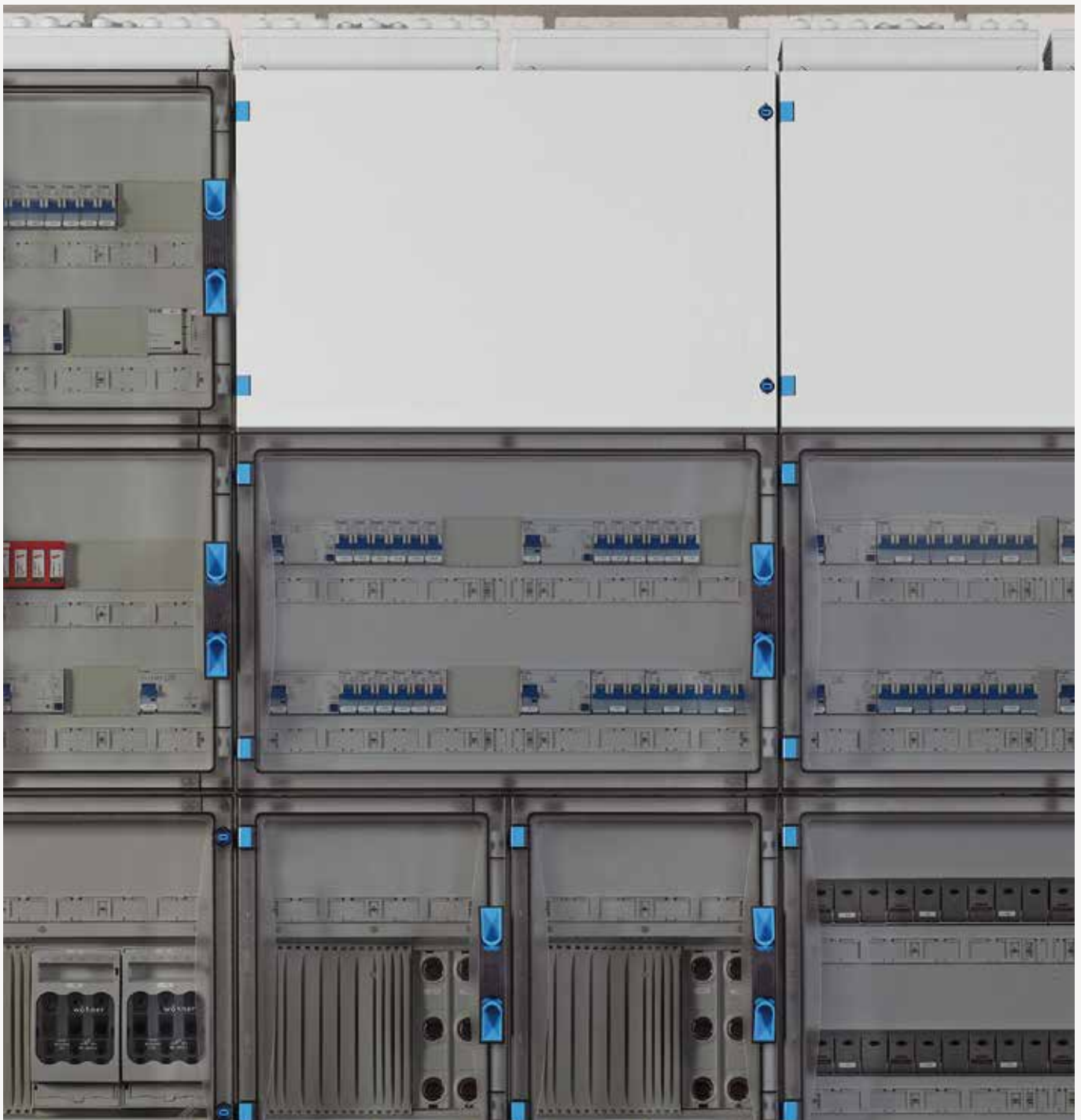


Order mounting
flanges separately

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 65
- + Material: PC (polycarbonate)
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

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



FP 0140

- + 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
- + dimensions H x W x D: 180 x 270 x 186 mm



FP 0141

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 186 mm



FP 0240

- + 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
- + dimensions H x W x D: 360 x 270 x 186 mm



FP 0241

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 186 mm



FP 0340

- + 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
- + dimensions H x W x D: 540 x 270 x 186 mm



FP 0341

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 186 mm



FP 0440

- + 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
- + dimensions H x W x D: 360 x 540 x 186 mm



FP 0441

- + 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
- + dimensions H x W x D: 366 x 546 x 186 mm





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



FP 0150

- + 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
- + dimensions H x W x D: 180 x 270 x 186 mm



FP 0151

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 186 mm



FP 0250

- + 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
- + dimensions H x W x D: 360 x 270 x 186 mm



FP 0251

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 186 mm



FP 0350

- + 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
- + dimensions H x W x D: 540 x 270 x 186 mm



FP 0351

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 186 mm



FP 0450

- + 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
- + dimensions H x W x D: 360 x 540 x 186 mm



FP 0451

- + 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
- + dimensions H x W x D: 366 x 546 x 186 mm





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



FP 0100

- + 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
- + dimensions H x W x D: 180 x 270 x 163 mm



FP 0101

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 163 mm



FP 0210

- + 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
- + dimensions H x W x D: 360 x 270 x 163 mm



FP 0211

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 163 mm



FP 0310

- + 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
- + dimensions H x W x D: 540 x 270 x 163 mm



FP 0311

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 163 mm



FP 0400

- + 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
- + dimensions H x W x D: 360 x 540 x 163 mm



FP 0401

- + 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
- + dimensions H x W x D: 366 x 546 x 163 mm





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



FP 0120

- + 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
- + dimensions H x W x D: 180 x 270 x 163 mm



FP 0121

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 163 mm



FP 0230

- + 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
- + dimensions H x W x D: 360 x 270 x 163 mm



FP 0231

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 163 mm



FP 0330

- + 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
- + dimensions H x W x D: 540 x 270 x 163 mm



FP 0331

- + 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
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 163 mm



FP 0420

- + 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
- + dimensions H x W x D: 360 x 540 x 163 mm



FP 0421

- + 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
- + dimensions H x W x D: 366 x 546 x 163 mm





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

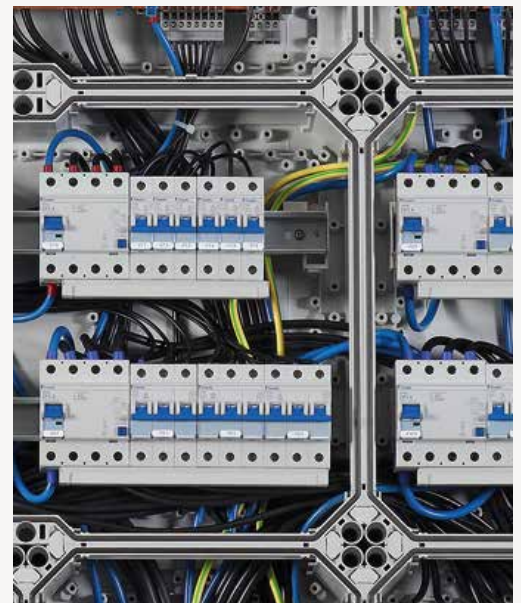


ENYSTAR CIRCUIT BREAKER BOX


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.in to get detailed information.

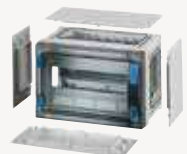
ENYSTAR - CIRCUIT BREAKER BOXES

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



FP 1109

- + with 1x 9 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + PE/N 2 x 25 mm², 8 x 4 mm², Cu each
- + dimensions H x W x D: 180 x 270 x 186 mm



FP 1108

- + with 1x 9 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + PE/N 2 x 25 mm², 8 x 4 mm², Cu each
- + with closing plates for all box walls
- + dimensions H x W x D: 186 x 276 x 186 mm



FP 1219

- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 3 x 25 mm², 12 x 4 mm², Cu
- + with 2x 12 modules (18 mm)
- + dimensions H x W x D: 360 x 270 x 186 mm



FP 1218

- + with 2x 12 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 3 x 25 mm², 12 x 4 mm², Cu
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 276 x 186 mm



FP 1319

- + with 3x 12 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- + dimensions H x W x D: 540 x 270 x 186 mm



FP 1318

- + with 3x 12 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- + with closing plates for all box walls
- + dimensions H x W x D: 546 x 276 x 186 mm



FP 1409

- + with 2x 27 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- + dimensions H x W x D: 360 x 540 x 186 mm



FP 1408

- + with 2x 27 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- + with closing plates for all box walls
- + dimensions H x W x D: 366 x 546 x 186 mm





FP 1418

- + with 3x 17 modules (18 mm)
- + FIXCONNECT® plug-in terminal technology for PE and N
- + per PE/N 8 x 25 mm², 32 x 4 mm², 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®
Distribution Boards
up to 250 A

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 mm²-16 mm², 1 x 16 mm²-25 mm², 1 x 16 mm²-16 mm²,
1 x 16 mm²-35 mm², 1 x 1.5 mm²-10 mm²
- + 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



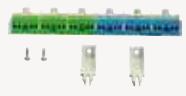
- FP TW 36**
- + partition
 - + suitable for box wall: 360 mm



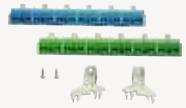
- FP PL 2**
- + sealing device
 - + set with 2 pieces
 - + without sealing wire and without seal
 - + suitable for sealing of the cover (not for circuit breaker box)



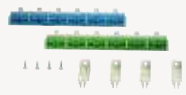
- FC PN 20**
- + PE terminal, N terminal
 - + per PE/N 2x 25 mm² screw-type terminals and 8x 4 mm² plug-in terminals



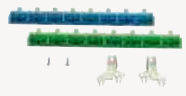
- FP FC 24**
- + PE terminal, N terminal
 - + per PE/N 3x 25 mm² screw-type terminals and 12x 4 mm² plug-in terminals



- FP FC 36**
- + PE terminal, N terminal
 - + per PE/N 6x 25 mm² screw-type terminals and 24x 4 mm² plug-in terminals



- FP FC 54**
- + PE terminal, N terminal
 - + per PE/N 6x 25 mm² screw-type terminals and 24x 4 mm² plug-in terminals



- FP FC 51**
- + PE terminal, N terminal
 - + per PE/N 8x 25 mm² screw-type terminals and 32x 4 mm² plug-in terminals



- FC PE 10**
- + PE terminal
 - + suitable for mounting on DIN rail
 - + 2x 25 mm² screw-type terminals and 8x 4 mm² plug-in terminals



- FP FC 054**
- + PE terminal
 - + 6x 25 mm² screw-type terminals and 24x 4 mm² plug-in terminals



- FP FC 051**
- + PE terminal
 - + 8x 25 mm² screw-type terminals and 32x 4 mm² plug-in terminals



- FC BS 5**
- + FIXCONNECT®-Labelling system for circuit description
 - + Set with 5 pieces



- KKL 34**
- + main line branch terminal
 - + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu
 - + suitable for mounting on DIN rail
 - + rated current: I_n = 80 A



- KKL 48**
- + main line branch terminal
 - + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu
 - + suitable for mounting on DIN rail
 - + rated current: I_n = 80 A



- KKL 54**
- + main line branch terminal
 - + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu
 - + suitable for mounting on DIN rail
 - + rated current: I_n = 80 A



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









































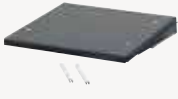
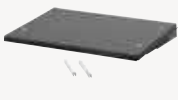
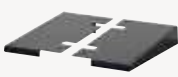
FP VS 30 + closing plate
+ suitable for box size: 3



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



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

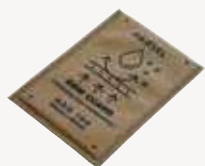
	FP BF 18	<ul style="list-style-type: none"> + ventilation flange + recommended alignment: vertical + suitable for box wall: 180 mm 	
	FP BF 27	<ul style="list-style-type: none"> + ventilation flange + recommended alignment: vertical + suitable for box wall: 270 mm 	
	FP BF 36	<ul style="list-style-type: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



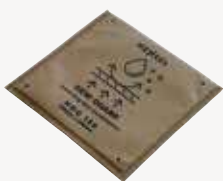
DEW GUARD + dimensions H x W : 50 x 75 mm
HDG 050 + Temperature range : - 30 °C to 90 °C



DEW GUARD + dimensions H x W : 75 x 100 mm
HDG 075 + Temperature range : - 30 °C to 90 °C



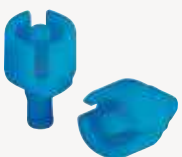
DEW GUARD + dimensions H x W : 100 x 100 mm
HDG 100 + Temperature range : - 30 °C to 90 °C



DEW GUARD + dimensions H x W : 150 x 150 mm
HDG 150 + Temperature range : - 30 °C to 90 °C



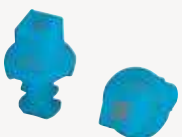
FP TW 1 + locking device insertion conversion kit
 + from hand to tool operation



FP TW 2 + locking device insertion conversion kit
 + double-bit
 + set with 2 pieces



FP TW 3 + locking device insertion conversion kit
 + triangular lock
 + set with 2 pieces



FP TW 4 + locking device insertion conversion kit
 + square lock
 + set with 2 pieces



FP TS 1 + locking device
 + for hand operation



FP TS 2 + spare key
 + set with 2 pieces



FP PL 3 + sealing device
 + set with 2 pieces
 + without sealing wire and without seal
 + suitable for door sealing



US 1 + spare key



DS 1 + spare key
+ triangle



FP AL 40 + external brackets
+ set with 4 pieces



FP MS 1 + mounting profile
+ height: 1980 mm



varnishing pen + varnishing pen
RAL 7016



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.in

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 spares
- + 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

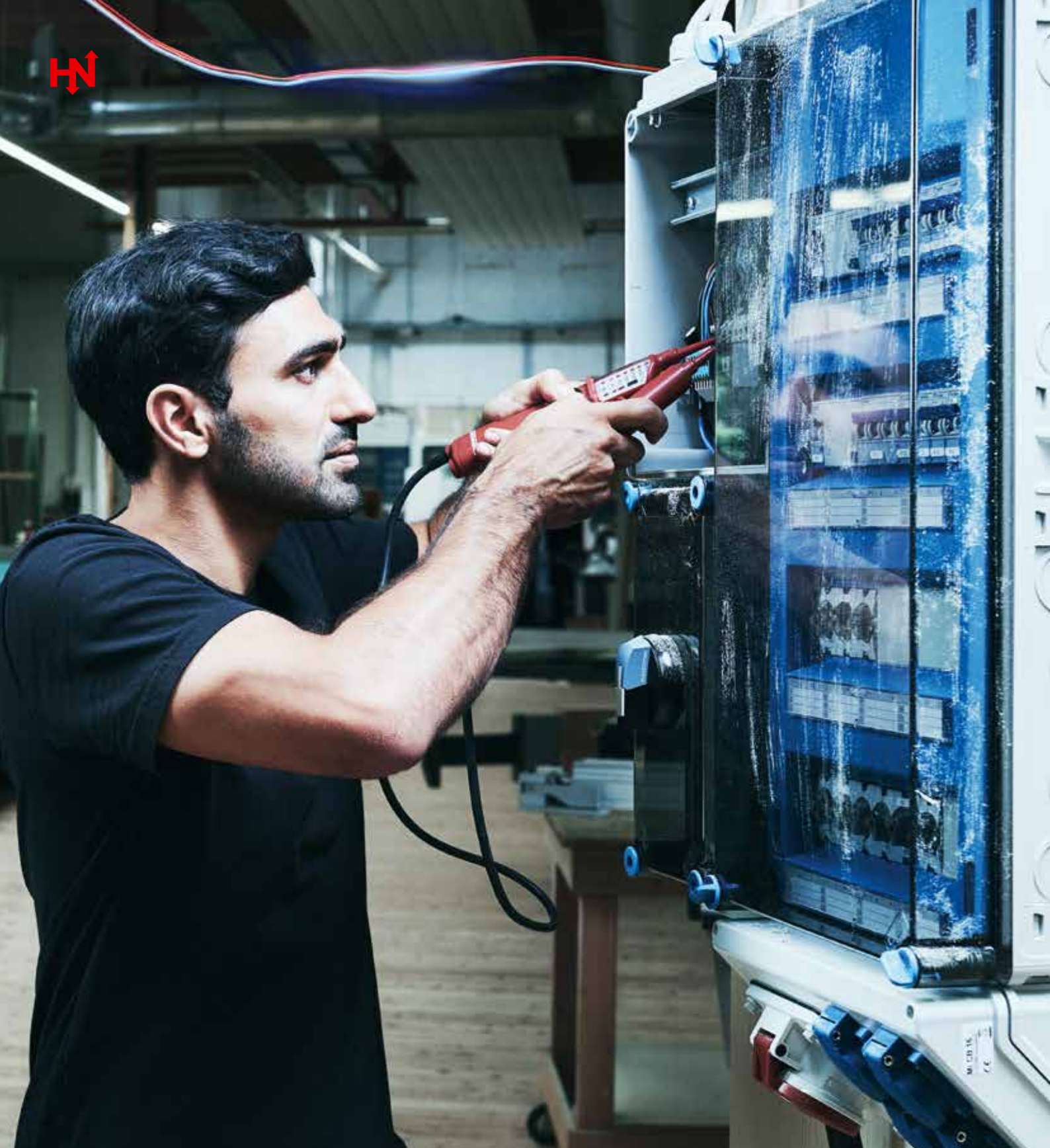


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NOTES

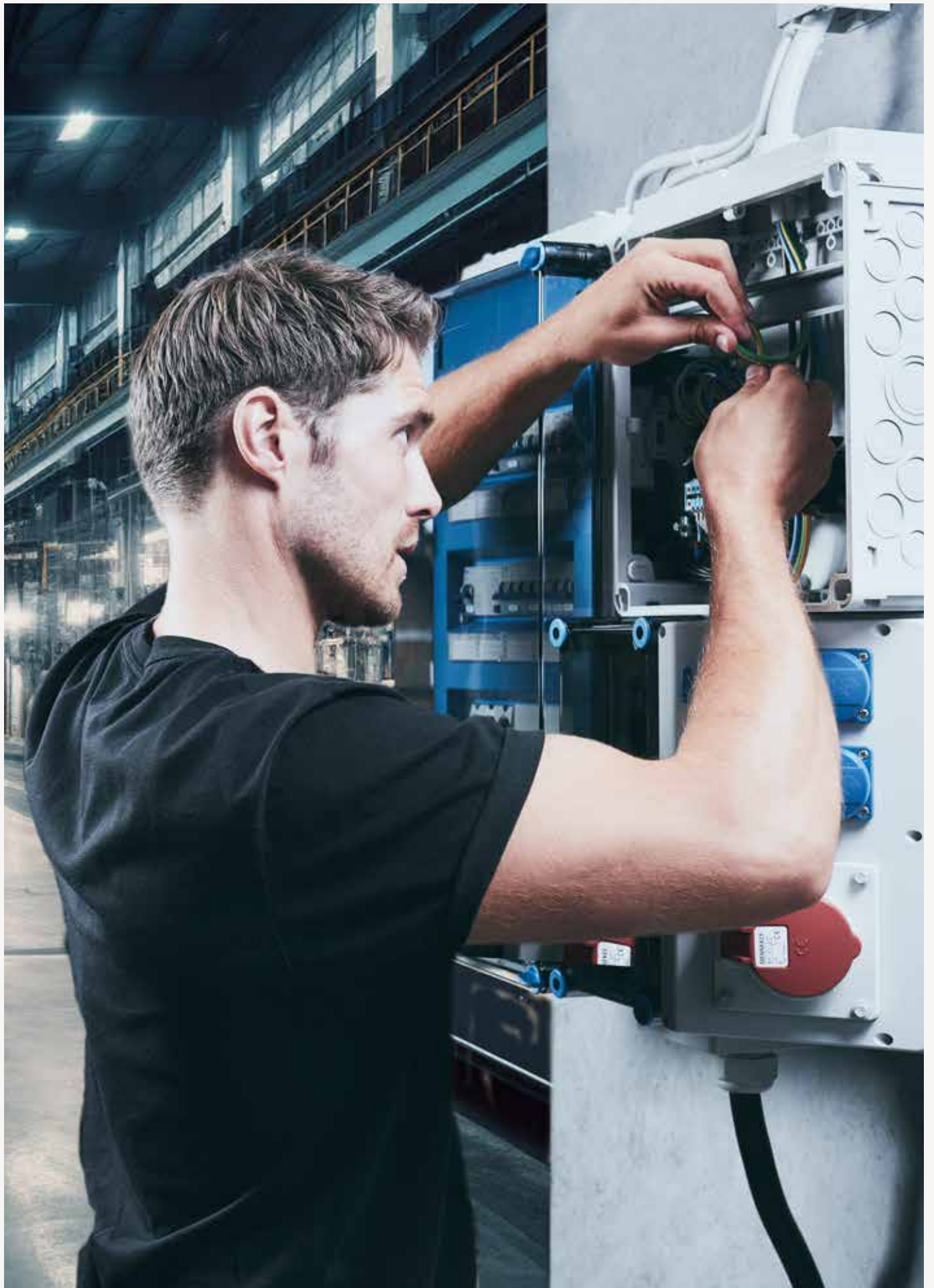
A series of horizontal dotted lines for taking notes.



ENYMOD – THE
POWER DISTRIBUTION BOARD
FOR PRO'S

hensel.in

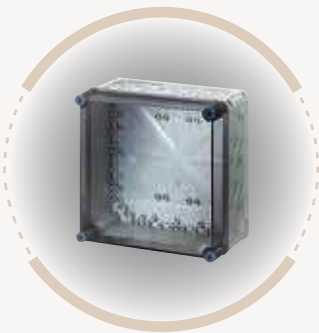
HENSEL



ENYMOD
Mi Power Distribution
Boards up to 630 A

Mi-Power distribution boards up to 630 A

combinable enclosure system, insulation-enclosed, total insulated, degree of protection IP 65, for the assembly of power switchgear and controlgear assembly (PSC) up to 630 A in accordance with IEC 61439 Part 2



Empty boxes

218_225



Circuit breaker boxes

with or without PE and N terminals /
with or without hinged cover

226_231

COMBINABLE ENCLOSURE SYSTEM

for the assembly of power switchgear and controlgear assemblies (PSC) up to 630 A

IP 65



MI POWER DISTRIBUTION
BOARDS UP TO 630 A





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

Safe, even in extreme environments with dust, dirt, moisture and in harsh industrial atmospheres.

- + Combinable enclosure system
- + Power distribution box up to 630 A as power switchgear and controlgear assembly (PSC)
- + In accordance with IEC 61439-2 (VDE 0660-600-2)
- + 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 630 A
- + Resistant in commercially used objects, in harsh industrial atmospheres and demanding environmental conditions.

POWER SWITCHGEAR AND CONTROLGEAR ASSEMBLY (PSC) IN ACCORDANCE WITH IEC 61439-2

Safe in dust, dirt, moisture and harsh industrial atmospheres

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



Enclosure system

- + Functional boxes with standardised assemblies up to 630 A
- + Functional boxes for measuring energy data
- + Thermoplastic touch protection covers
- + Touch protection covers with protected, editable and undetachable labelling strips
- + Operable devices with touch protection cover
- + Mounting plates for device installation
- + Cable entries on all box walls and via flanges with metric knockouts or elastic sealing membranes or cable insertion up to 72 mm cable diameter
- + Panel feed-throughs with large openings for the electrical connection between the boxes
- + Cable entries on all box walls via metric knockouts, via flanges with metric knockouts or elastic sealing membranes or cable insertion up to 72 mm cable diameter
- + Wall mounting directly on the box, via external brackets or with mounting rails
- + Sealing and locking option
- + Main busbar system EMC-compliant, with N/PEN conductor in the area of the outer conductor and N conductor with the same current carrying capacity as the outer conductor



HIGH-QUALITY MATERIAL

For demanding applications

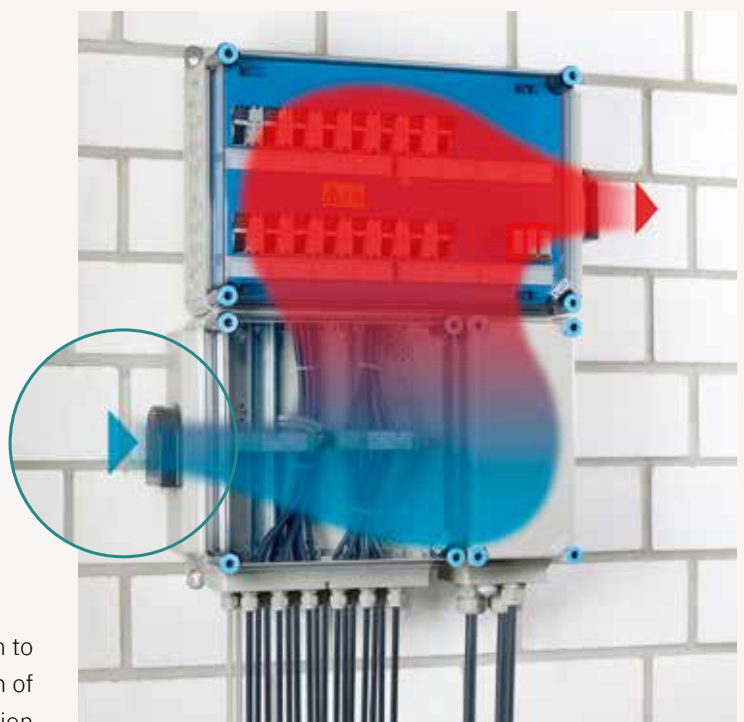


- + Flame-retardant, self-extinguishing
Burning behaviour: Glow wire test 960°C in accordance with IEC 60695-2-11
- + UV-resistant

Robust and resistant: Resistant to dust and water, Mi distribution boards withstand heavy loads.



Safe, even in extreme outdoors weather conditions, e.g. with protective roof.



Ventilation option to reduce the formation of condensation

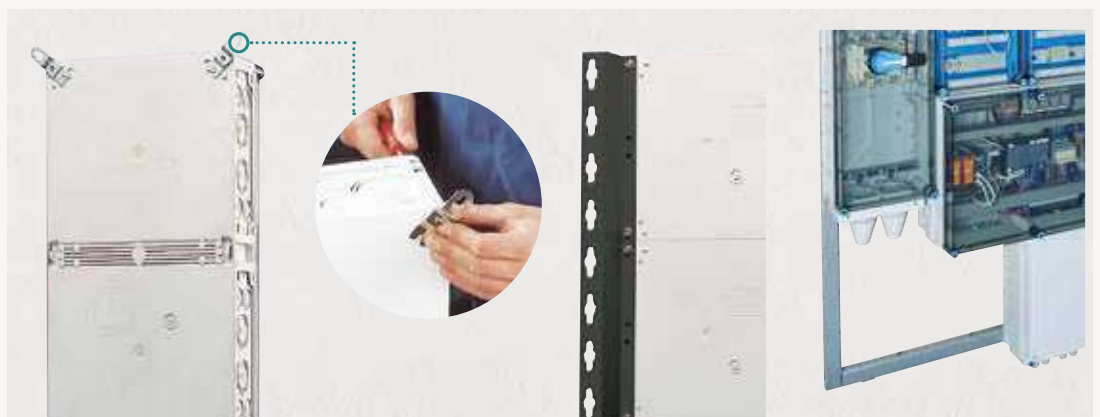
LIGHT AND FLEXIBLE

In assembly, connection and installation

Cable slot allows cables to be inserted from the front



Removable box fin to insert cables via two boxes or a simpler wiring

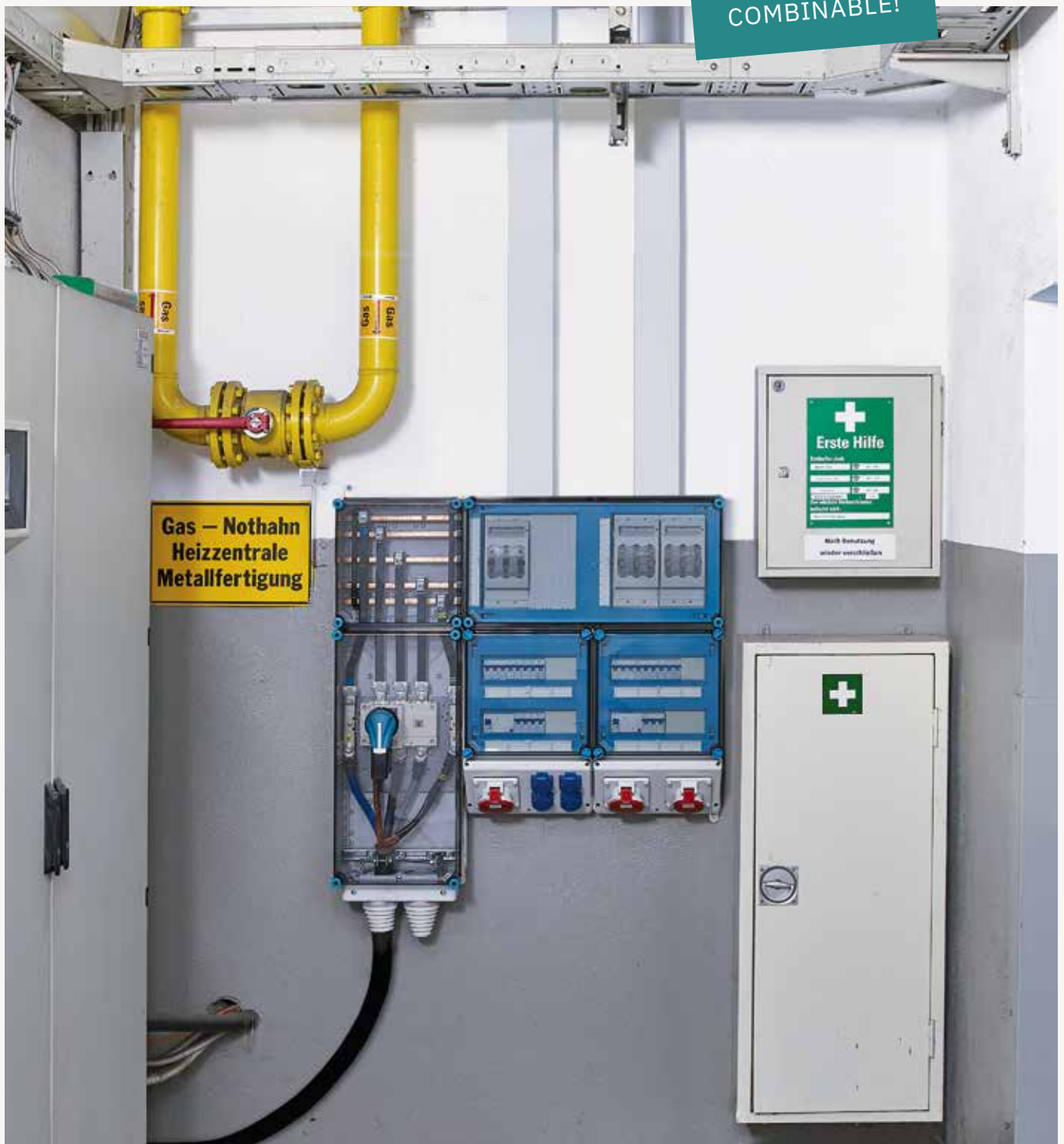


External brackets, mounting rails or mounting frame for wall mounting

MODULAR ENCLOSURE SYSTEM

to built up power switchgear and controlgear assemblies

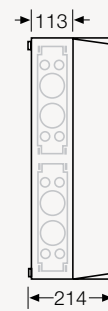
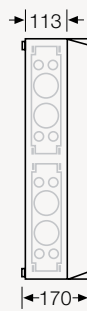
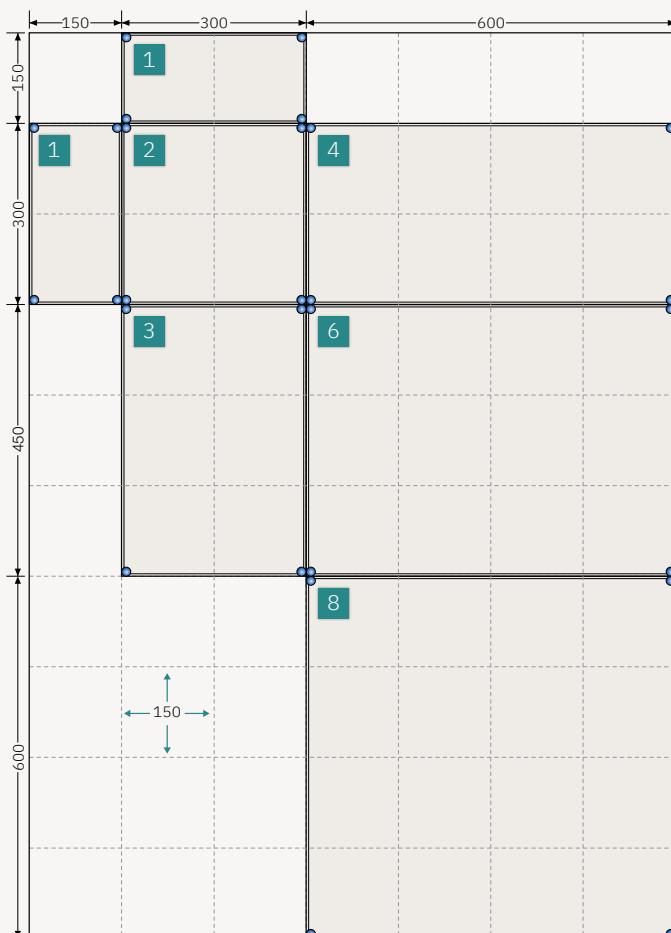
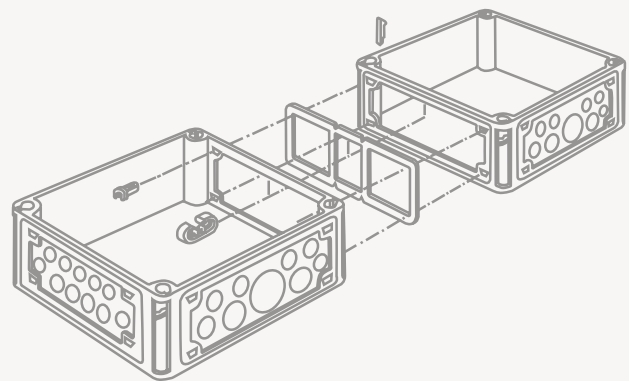
6 BOX SIZES
COMBINABLE!



ENYMOD
Mi Power Distribution
Boards up to 630 A

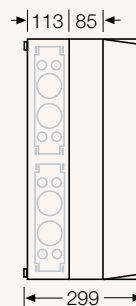
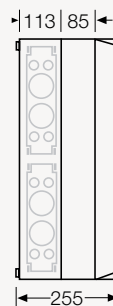
Combinable in all directions

- + Six box sizes can be freely combined in all directions and can also be used as individual boxes
- + The combinable enclosure system is ideally suited for the quick and easy construction of power switchgear assemblies (PSC) up to 630 A
- + Box size 6 (600 x 450 mm): Due to an enlarged terminal compartment directly in the housing, some electrical functions can be installed more economical.
- + 6 box sizes:
 - 1_ 150 x 300 mm
 - 2_ 300 x 300 mm
 - 3_ 450 x 300 mm
 - 4_ 600 x 300 mm
 - 5_ 600 x 450 mm
 - 6_ 600 x 600 mm



Enclosure depths

Different enclosure depths allow the installation of deeper devices.



Extension frame

for box sizes 4, 6 and 8 increase the enclosure depth by 85 mm in each case.



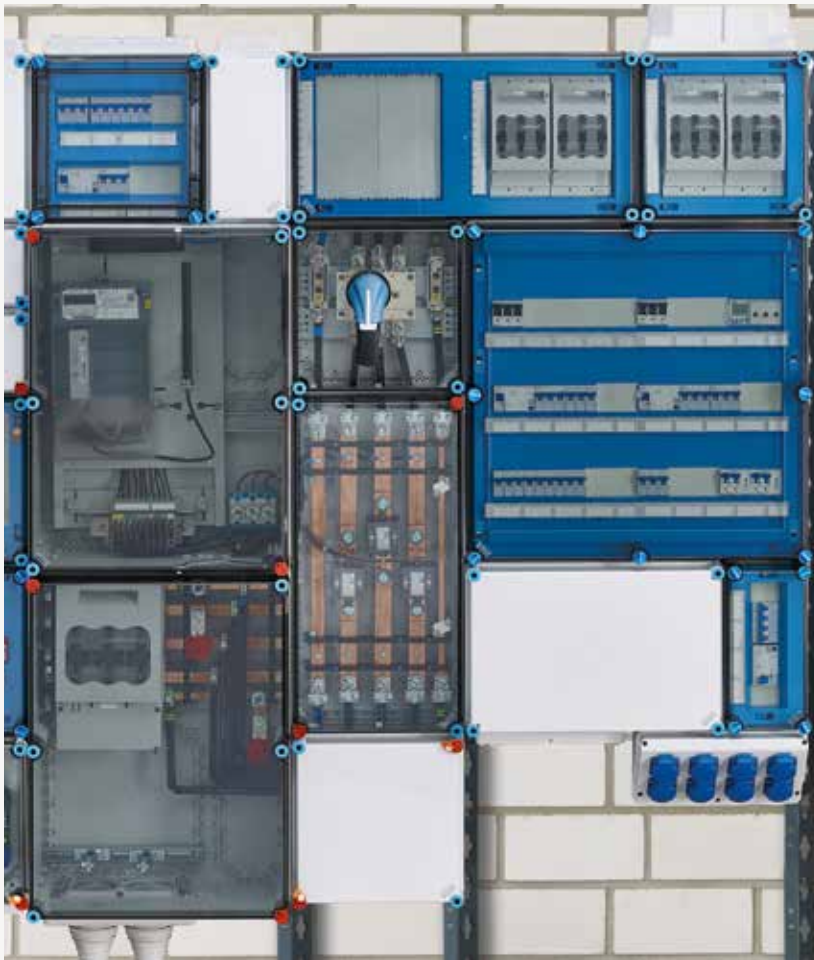
Please scan the QR code or see our website hensel.in to get detailed information.

MODULAR ENCLOSURE SYSTEM

Mi-Power distribution board are highly adaptable for confined spaces in industrial and commercial operations

- + modular
- + with high degree of protection
- + can be combined in all directions (vertical and horizontal)
- + Different cover heights and intermediate frames allow the installation of devices with different installation height





Transparent lids
Electrical functions are always in view thanks to transparent covers. Errors can be localized immediately. The current flow is always visible from the outside in the case of a error and for retrofitting.

Dimensionally stable and safe
Mi- boxes give way in the event of an impact or shock and immediately spring back to their original shape. Brief contact with live parts does not trigger a short circuit. Personal protection remains.

Flexible and expandable even when retrofitting additional circuits. Depending on the number of additional circuits required, box sizes are available to match. They can be mounted horizontally or vertically on any enclosure wall in a 150 mm grid.



DEPENDENT ON THE SYSTEM

Electrical parameters



Rated voltage: max. 690 V a.c.
 Rated insulation voltage: 690 V a.c., 1000 V d.c.
 Rated current max. 630 A
 Rated short-time withstand current max : max. 21 kA

Electrical Rated values

System properties



Ambient temperature

- + for distribution boards in accordance with IEC 61439:
 -5 °C up to 35 °C, max. + 40 °C,
 Relative humidity: 50% at 40 °C,
 100% at 25 °C
- + for empty enclosures:
 - 25 °C up to + 70 °C

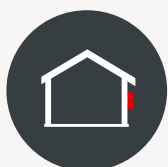
The climatic influences and effects on the equipment are to be considered, see technical details /operating and ambient conditions

Environmental conditions



Degree of protection against mechanical load IK 08 (5 Joules) in accordance with IEC 50102

Impact strength



The enclosures are suitable for protected outdoor installation.
 However, the climatic influences and effects on the operating equipment must be taken into account.

Application area



Dust-proof
 Degree of protection IP 65

Protection against foreign solid objects and direct contact



Insulated enclosures
 (Protection Class II)

Insulation

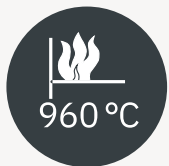


Protected against water jets
 Degree of protection IP 65

Protection against ingress of water with harmful effects

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 resistance according to IEC 61439-1 para. 10.2.4: The material is examined for UV resistance.

UV resistance

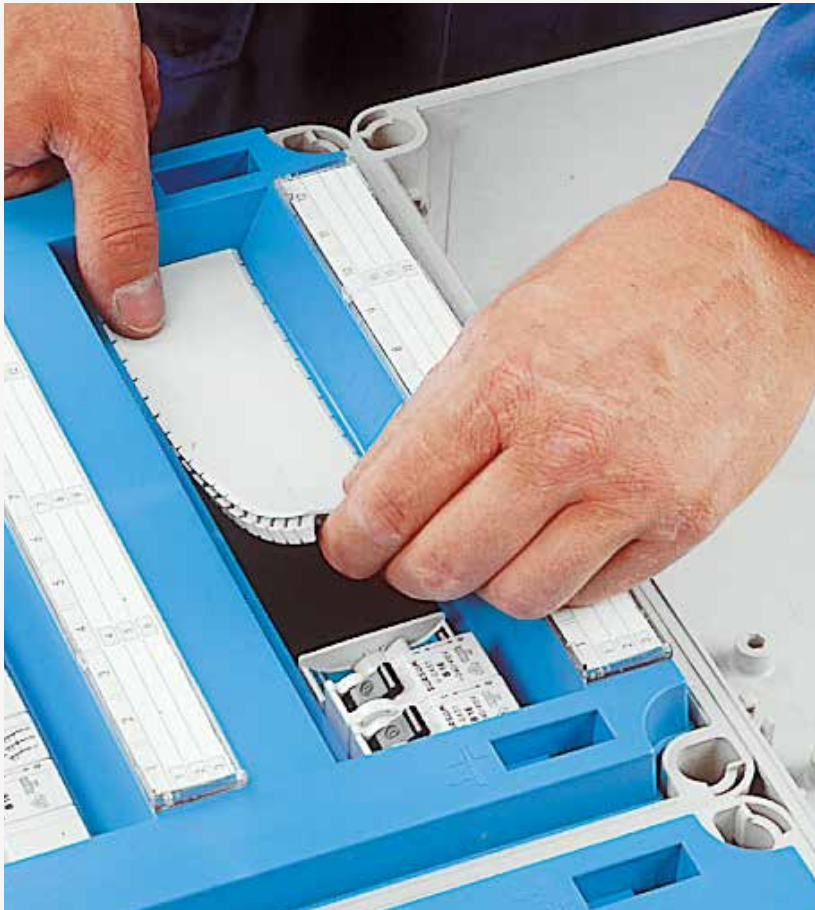


Silicone- and halogen-free

Toxic behaviour

SAFETY FOR PERSONS

by total insulation



Cover strips cover device cut-outs so that they are touch-proof

Complete protection against accidental contact for devices that can be operated and devices that are contacted on busbars



ENYMOD
Mi Power Distribution Boards up to 630 A



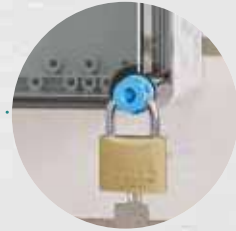
THAT'S JUST RIGHT!
ACCESSORIES FOR
REAL PRO'S.



Protection class II,
(protective insulation)

ALWAYS THE SUITABLE LOCKING SYSTEM

for access and operation areas

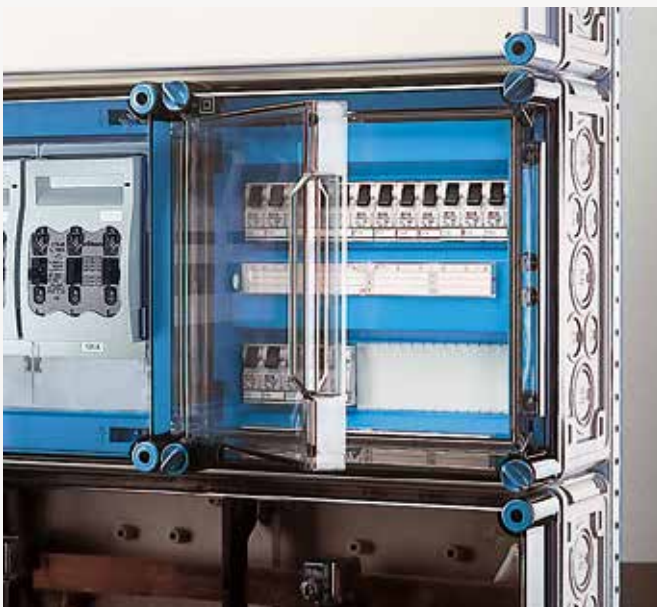


Seal closure or padlock prevent unauthorised opening of the lids



Depending on the electrical function, lid with manual actuation (for non-specialists) or tool actuation (for electricians)

Hinged flap and hinged lid for easy operation of devices



READY TO CONNECT AND COMBINABLE SOLUTIONS

For special applications



Changeover switch boxes (I-0-II) switch safely to substitute power sources

Main line distribution board for the pre-meter area



For the self-assembly of distribution boards up to 630 A



Individual boxes with electrical functions can be assembled by the electrician to form a distribution system..

Mi-CONNECTION BOX

The integrated system solution!

Integrated system solutions are the trend:

- + They reduce the installation effort
- + They enable space-saving installation
- + They enable a visually clean solution

SYSTEM SOLUTION INSTEAD OF COMPROMISES



FOR DEMANDING ENVIRONMENTAL CONDITIONS

**Mi distribution boards with different functional
boxes for your different areas of application**

CAN BE COMBINED
IN ALL DIRECTIONS



Boxes with electrical functions



Empty boxes



Circuit breaker boxes



Empty boxes
with hinged lid

Mi-POWER DISTRIBUTION BOARD

EMPTY BOXES


for the assembly of power distribution boards (PSC) up to 630 A in accordance with IEC 61439-2

IP
65





System properties

- + Transparent lids
- + Empty enclosure with hinged lid, trilaterally combinable
- + Device installation either on mounting plates or DIN rails
- + Installation depths extendable by using lids of different heights or extension frames
- + Enclosures can also be used as single boxes
- + Protection class II, 
- + Degree of protection: IP 65
- + Material: PC (polycarbonate)
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

Mi-POWER DISTRIBUTION BOARD — EMPTY BOXES
WITH TRANSPARENT LID



Mi 0100

- + Built-in dimensions W x H x D: 125 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 150 x 300 x 170 mm



Mi 0200

- + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 300 x 170 mm



Mi 0210

- + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 300 x 214 mm



Mi 0220

- + with hinged lid (door)
- + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 115 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 300 x 182 mm



Mi 0300

- + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 300 x 170 mm



Mi 0310

- + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 300 x 214 mm



Mi 0400

- + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 300 x 170 mm



Mi 0410

- + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 300 x 214 mm





Mi 0600

- + built-in dimensions W x H x D: 425 x 575 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 600 x 170 mm



Mi 0800

- + built-in dimensions W x H x D: 575 x 575 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 600 x 170 mm



Mi-POWER DISTRIBUTION BOARD — EMPTY BOXES
WITH OPAQUE LID

	Mi 0101	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 125 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 150 x 300 x 170 mm 	  
	Mi 0201	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 300 x 300 x 170 mm 	  
	Mi 0211	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 300 x 300 x 214 mm 	  
	Mi 0221	<ul style="list-style-type: none"> + with hinged lid (door) + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 115 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 300 x 300 x 182 mm 	  
	Mi 0301	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 450 x 300 x 170 mm 	  
	Mi 0311	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 450 x 300 x 214 mm 	  
	Mi 0401	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 600 x 300 x 170 mm 	  
	Mi 0411	<ul style="list-style-type: none"> + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm + dimensions H x W x D: 600 x 300 x 214 mm 	  



Mi 0601

- + built-in dimensions W x H x D: 425 x 575 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 600 x 170 mm



Mi 0801

- + built-in dimensions W x H x D: 575 x 575 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 600 x 170 mm



Mi-POWER DISTRIBUTION BOARD — EMPTY BOXES
WITH HINGED, TRANSPARENT LID



Mi 9100

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 125 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 165 x 170 mm



Mi 9200

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 315 x 170 mm



Mi 9210

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 275 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 315 x 214 mm



Mi 9300

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 315 x 170 mm



Mi 9310

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 425 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 315 x 214 mm



Mi 9400

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 315 x 170 mm



Mi 9410

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 575 x 275 mm, max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 315 x 214 mm





Mi 9101

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 125 x 275 mm,
max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 165 x 170 mm



Mi 9201

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 275 x 275 mm,
max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 315 x 170 mm



Mi 9211

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 275 x 275 mm,
max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 300 x 315 x 214 mm



Mi 9301

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 425 x 275 mm,
max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 315 x 170 mm



Mi 9311

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 425 x 275 mm,
max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 450 x 315 x 214 mm



Mi 9401

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 575 x 275 mm,
max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 315 x 170 mm



Mi 9411

- + with hinged lid, hinge, external
- + built-in dimensions W x H x D: 575 x 275 mm,
max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 135 mm
- + dimensions H x W x D: 600 x 315 x 214 mm



Mi-DISTRIBUTION

CIRCUIT BREAKER BOXES

with or without PE and N terminals with hinged flaps


for the assembly of power distribution boards (PSC) up to 630 A
in accordance with IEC 61439-2

IP
65









































System properties

- + Transparent lids
- + Hinged flap or hinged lid for an easy operation of installation devices
- + Hinged flap lock against unauthorised opening under accessories
- + Circuit breaker boxes with or without PE and N terminals
- + Protection against direct contact with hazardous live parts for operable installation devices
- + Attached labelling strips for circuit identification
- + Included blanking strips for unused DIN rail openings
- + Enclosures can also be used as single boxes
- + Protection class II, 
- + Degree of protection: IP 65
- + Material: PC (polycarbonate)
- + Colour: grey, RAL 7035



Please scan the QR code or see our website hensel.in to get detailed information.

Mi-POWER DISTRIBUTION BOARD — CIRCUIT BREAKER BOXES
WITH PE AND N TERMINALS

	Mi 1109	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 1x 9 modules (18 mm) + dimensions H x W x D: 150 x 300 x 170 mm 	  
	Mi 1112	<ul style="list-style-type: none"> + with 1x 12 modules (18 mm) + dimensions H x W x D: 150 x 300 x 170 mm 	  
	Mi 1111	<ul style="list-style-type: none"> + with 1x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 150 x 300 x 185 mm 	  
	Mi 1224	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 2x 12 modules (18 mm) + dimensions H x W x D: 300 x 300 x 170 mm 	  
	Mi 1220	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 2x 12 modules (18 mm) + with hinged lid (door) + dimensions H x W x D: 300 x 300 x 182 mm 	  
	Mi 1222	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 2x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 300 x 300 x 185 mm 	  
	Mi 1336	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 3x 12 modules (18 mm) + dimensions H x W x D: 450 x 300 x 170 mm 	  
	Mi 1333	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 3x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 450 x 300 x 185 mm 	  
	Mi 1448	<ul style="list-style-type: none"> + with FIXCONNECT® N- und PE terminal + with 4x 12 modules (18 mm) + dimensions H x W x D: 600 x 300 x 170 mm 	  



- Mi 1444**
- + with FIXCONNECT® N- und PE terminal
 - + with 4x 12 modules (18 mm)
 - + with hinged flap
 - + dimensions H x W x D: 600 x 300 x 185 mm



- Mi 1456**
- + with FIXCONNECT® N- und PE terminal
 - + with 2x 28 modules (18 mm)
 - + dimensions H x W x D: 300 x 600 x 170 mm
















- Mi 1684**
- + with FIXCONNECT® N- und PE terminal
 - + with 2x 28 modules and 2x 12 modules
 - + dimensions H x W x D: 450 x 600 x 170 mm



- Mi 1884**
- + with FIXCONNECT® N- und PE terminal
 - + with 3x 28 modules (18 mm)
 - + dimensions H x W x D: 600 x 600 x 170 mm



Mi-POWER DISTRIBUTION BOARD — CIRCUIT BREAKER BOXES
WITHOUT PE AND N TERMINALS

	Mi 1115	<ul style="list-style-type: none"> + with 1x 12 modules (18 mm) + dimensions H x W x D: 150 x 300 x 170 mm 	  
	Mi 1117	<ul style="list-style-type: none"> + with 1x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 150 x 300 x 185 mm 	  
	Mi 1225	<ul style="list-style-type: none"> + with 2x 12 modules (18 mm) + dimensions H x W x D: 300 x 300 x 170 mm 	  
	Mi 1226	<ul style="list-style-type: none"> + with 2x 12 modules (18 mm) + with hinged lid (door) + dimensions H x W x D: 300 x 300 x 182 mm 	  
	Mi 1227	<ul style="list-style-type: none"> + with 2x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 300 x 300 x 185 mm 	  
	Mi 1335	<ul style="list-style-type: none"> + with 3x 12 modules (18 mm) + dimensions H x W x D: 450 x 300 x 170 mm 	  
	Mi 1337	<ul style="list-style-type: none"> + with 3x 12 modules (18 mm) + with hinged flap + dimensions H x W x D: 450 x 300 x 185 mm 	  
	Mi 1441	<ul style="list-style-type: none"> + with 4x 12 modules (18 mm) + dimensions H x W x D: 600 x 300 x 170 mm 	  



- Mi 1440**
- + with 3x 12 modules (18 mm)
 - + dimensions H x W x D: 600 x 300 x 170 mm



- Mi 1443**
- + with 3x 12 modules (18 mm)
 - + with hinged flap
 - + dimensions H x W x D: 600 x 300 x 185 mm



- Mi 1445**
- + with 4x 12 modules (18 mm)
 - + with hinged flap
 - + dimensions H x W x D: 600 x 300 x 185 mm



- Mi 1455**
- + with 2x 28 modules (18 mm)
 - + dimensions H x W x D: 300 x 600 x 170 mm



- Mi 1683**
- + with 2x 28 modules and 2x 12 modules
 - + dimensions H x W x D: 450 x 600 x 170 mm



- Mi 1885**
- + with 3x 28 modules (18 mm)
 - + dimensions H x W x D: 600 x 600 x 170 mm



Mi-POWER DISTRIBUTION BOARD – CIRCUIT BREAKER BOX
FOR MINIATURE CIRCUIT-BREAKERS (MCB)



- Mi 1281**
- + with 1x 6 modules (18 mm)
 - + dimensions H x W x D: 300 x 300 x 170 mm



MI-POWER DISTRIBUTION BOARD ACCESSORIES



ENYMOD

Mi Power Distribution
Boards up to 630 A



- Mi CB 10**
- + connection Box
 - + suitable for box wall: 300 mm



- Mi ZR 4**
- + extension frame
 - + for enclosure size 4
 - + for extension of the installation depth by 85 mm
 - + dimensions H x W x D: 600 x 300 x 85 mm



- Mi ZR 6**
- + extension frame
 - + for enclosure size 6
 - + for extension of the installation depth by 85 mm
 - + dimensions H x W x D: 600 x 450 x 85 mm



- Mi ZR 8**
- + extension frame
 - + for enclosure size 8
 - + for extension of the installation depth by 85 mm
 - + dimensions H x W x D: 600 x 600 x 85 mm



Mi-POWER DISTRIBUTION BOARD — ACCESSORIES



Mi TS 15 + DIN rail 35 x 15 mm, 134 mm long



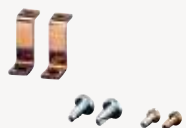
Mi TS 30 + DIN rail 35 x 15 mm, 284 mm long



Mi TS 45 + DIN rail 35 x 15 mm, 434 mm long



Mi TS 60 + DIN rail 35 x 15 mm, 584 mm long



Mi DS 25 + spacer
+ set with 2 pieces
+ height: 25 mm



Mi DS 50 + spacer
+ set with 2 pieces
+ height: 50 mm



- Mi MP 1**
- + mounting plate
 - + suitable for box size: 1, 2, 3, 4, 6
 - + dimensions H x W x D: 115 x 259 x 4 mm



- Mi MP 2**
- + mounting plate
 - + suitable for box size: 2, 3, 4, 6, 8
 - + dimensions H x W x D: 265 x 265 x 4 mm



- Mi MP 3**
- + mounting plate
 - + suitable for box size: 3, 4, 6
 - + dimensions H x W x D: 415 x 265 x 4 mm



- Mi MP 4**
- + mounting plate
 - + suitable for box size: 4, 6, 8
 - + dimensions H x W x D: 565 x 265 x 4 mm



- Mi MP 6**
- + mounting plate
 - + suitable for box size: 6
 - + dimensions H x W x D: 415 x 565 x 4 mm



- Mi MP 8**
- + mounting plate
 - + suitable for box size: 8
 - + dimensions H x W x D: 565 x 565 x 4 mm



- Mi BZ 11**
- + fixing screw
 - + length: 11 mm



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



- Mi EP 01**
- + Cover
 - + suitable for box size: 1
 - + dimensions H x W: 286 x 136 mm



- Mi EP 02**
- + cover
 - + suitable for box size: 2
 - + dimensions H x W: 286 x 286 mm



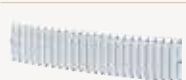
- Mi EP 03**
- + cover
 - + suitable for box size: 3, 6
 - + dimensions H x W: 436 x 286 mm



- Mi EP 04**
- + cover
 - + suitable for box size: 6
 - + dimensions H x W: 586 x 286 mm



- Mi EP 06**
- + cover
 - + suitable for box size: 6
 - + dimensions H x W: 450 x 600 mm



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



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



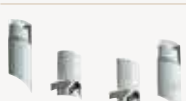
- DAE 12**
- + spacer
 - + set with 12 pieces








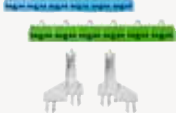






- Mi BS 6**
- + cover
 - + dimensions H x W: 46 x 108
 - + suitable for hinged flap



























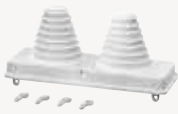









- Mi BS 12**
- + cover
 - + dimensions H x W: 46 x 216
 - + suitable for hinged flap



- Mi SA 2**
- + dust protection cover

	FC L 10	<ul style="list-style-type: none"> + FIXCONNECT® terminal + suitable for mounting on DIN rail
	FC N 10	<ul style="list-style-type: none"> + N terminal + suitable for mounting on DIN rail + 2x 25 mm² screw terminals and 8x 6 mm² plug-in terminals
	FC PE 10	<ul style="list-style-type: none"> + PE terminal + suitable for mounting on DIN rail + 2x 25 mm² screw-type terminals and 8x 4 mm² plug-in terminals
	FC PN 10	<ul style="list-style-type: none"> + PE terminal, N terminal + per PE/N 1x 25 mm² screw-type terminals and 4x 4 mm² plug-in terminals + suitable for mounting on DIN rail
	FC PN 30	<ul style="list-style-type: none"> + PE terminal, N terminal + per PE/N 3x 25 mm² screw-type terminals and 12x 4 mm² plug-in terminals
	FC PN 60	<ul style="list-style-type: none"> + PE terminal, N terminal + per PE/N 6x 25 mm² screw-type terminals and 24x 4 mm² plug-in terminals
	FC N 30	<ul style="list-style-type: none"> + N terminal + 6x 25 mm² screw terminals and 24x 6 mm² plug-in terminals
	FC PE 30	<ul style="list-style-type: none"> + PE terminal + 6x 25 mm² screw-type terminals and 24x 4 mm² plug-in terminals
	KKL 25	<ul style="list-style-type: none"> + 1-pole terminal with 2 clamping units per pole, Screw connection + copper branch terminal + rated current: I_n = 102 A
	KKL 34	<ul style="list-style-type: none"> + main line branch terminal + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu + suitable for mounting on DIN rail + rated current: I_n = 80 A
	KKL 48	<ul style="list-style-type: none"> + main line branch terminal + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu + suitable for mounting on DIN rail + rated current: I_n = 80 A
	KKL 54	<ul style="list-style-type: none"> + main line branch terminal + 1 x 1,5 mm²-16 mm² round, Cu, 1 x 2,5 mm²-25 mm² round, Cu + suitable for mounting on DIN rail + rated current: I_n = 80 A

	Mi FP 15	<ul style="list-style-type: none"> + flange + suitable for box wall: 150 mm 	
	Mi FM 15	<ul style="list-style-type: none"> + flange + 3 x M20, 1 x M32, M40, M50 + suitable for box wall: 150 mm 	
	Mi FP 20	<ul style="list-style-type: none"> + flange + suitable for box wall: 300 mm 	
	Mi FM 20	<ul style="list-style-type: none"> + flange + 15 x M16, 15 x M20 + suitable for box wall: 300 mm 	
	Mi FM 25	<ul style="list-style-type: none"> + flange + 19 x M16, M25, x + suitable for box wall: 300 mm 	
	Mi FM 32	<ul style="list-style-type: none"> + flange + 1 x M25, M32, M40, 8 x M25, M32 + suitable for box wall: 300 mm 	
	Mi FM 40	<ul style="list-style-type: none"> + flange + 2 x M25, M32, 5 x M32, M40 + suitable for box wall: 300 mm 	
	Mi FM 50	<ul style="list-style-type: none"> + flange + 2 x M20, 4 x M32, M40, M50 + suitable for box wall: 300 mm 	
	Mi FM 60	<ul style="list-style-type: none"> + flange + 3 x M40, M50, M63 + suitable for box wall: 300 mm 	
	Mi FM 63	<ul style="list-style-type: none"> + flange + 3 x M40, M50, M63, x + suitable for box wall: 300 mm 	
	Mi FP 38	<ul style="list-style-type: none"> + flange + elastic membranes: 29 x 7 mm - 12 mm, 4 x 7 mm - 14 mm, 4 x 11 mm - 20 mm, 1 x 16 mm - 29 mm + suitable for box wall: 300 mm 	
	Mi FP 70	<ul style="list-style-type: none"> + flange + elastic membranes: 1 x 32 mm - 70 mm + suitable for box wall: 300 mm 	

	Mi FP 72	<ul style="list-style-type: none"> + flange + elastic membranes: 2 x 30 mm - 72 mm + suitable for box wall: 300 mm 	IP 65
	Mi FP 82	<ul style="list-style-type: none"> + flange + Insert: 2 x 30 mm - 72 mm + suitable for box wall: 300 mm 	IP 54
	Mi ZE 62	<ul style="list-style-type: none"> + strain relief + for 2 cables with max. 60 mm external diameter + to be used only in connection with Mi FP 82 	
	Mi GS 30	<ul style="list-style-type: none"> + box fin + for inserting cables across 2 boxes + suitable for box wall: 300 mm 	
	Mi BF 44	<ul style="list-style-type: none"> + ventilation flange + recommended alignment: vertical + suitable for box wall: 300 mm 	IP 44
	BE 44	<ul style="list-style-type: none"> + ventilation insert 	IP 44
	BM 20G	<ul style="list-style-type: none"> + pressure compensation element + to reduce condensation through pressure compensation + for knockouts M20 	IP 54 
	BM 40G	<ul style="list-style-type: none"> + pressure compensation element + to reduce condensation through pressure compensation + for knockouts M40 	IP 54 

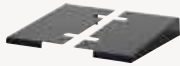
Mi-POWER DISTRIBUTION BOARD — ACCESSORIES









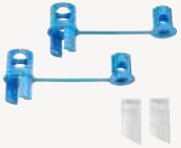












- Mi DB 15**
- + canopy
 - + suitable for box wall: 150 mm
 - + dimensions W x D: 150 x 245 mm



- Mi DB 30**
- + canopy
 - + suitable for box wall: 300 mm
 - + dimensions W x D: 300 x 245 mm



- Mi DB 01**
- + canopy end plate
 - + Set with 2 pieces
 - + dimensions W x D: 74 x 245 mm

	Mi PL 2	<ul style="list-style-type: none"> + locking device insertion conversion kit + seal closure + set with 2 pieces 	
	Mi SR 4	<ul style="list-style-type: none"> + locking device insertion conversion kit + tool operation + set with 4 pieces 	
	Mi SN 4	<ul style="list-style-type: none"> + Locking device insertion conversion kit + Hand closure + Set with 4 pieces 	
	Mi SV 2	<ul style="list-style-type: none"> + locking device insertion conversion kit + for padlock + set with 2 pieces 	
	Mi DR 04	<ul style="list-style-type: none"> + locking device insertion + triangle + set with 4 pieces 	
	DS 1	<ul style="list-style-type: none"> + spare key + triangle 	
	Mi ZS 20	<ul style="list-style-type: none"> + hinge + set with 2 pieces 	
	Mi ZS 40	<ul style="list-style-type: none"> + hinge + set with 2 pieces 	
	Mi ZS 60	<ul style="list-style-type: none"> + hinge + set with 2 pieces 	
	Mi KL 6	<ul style="list-style-type: none"> + hinged flap + opening dimension: 60 x 117 mm 	
	Mi KL 12	<ul style="list-style-type: none"> + hinged flap + opening dimension: 60 x 220 mm 	
	Mi SK 01	<ul style="list-style-type: none"> + locking device for hinged flap 	
	NZ KL 54	<ul style="list-style-type: none"> + hinged flap + opening dimension: 310 x 140 mm 	 



Mi MB 1 + pipe and pole mounting set
+ for enclosures with a width of 150 mm



Mi MB 2 + pipe and pole mounting set
+ for enclosures with a width of 300 mm



Mi AL 40 + external brackets
+ set with 4 pieces



Mi MS 2 + mounting profile
+ height: 1950 mm



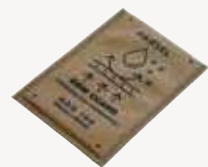
Lackstift RAL 7016 + varnishing pen



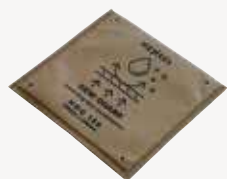
HDG 050 + dimensions H x W : 50 x 75 mm
+ Temperature range : - 30 °C to 90 °C



HDG 075 + dimensions H x W : 75 x 100 mm
+ Temperature range : - 30 °C to 90 °C



HDG 100 + dimensions H x W : 100 x 100 mm
+ Temperature range : - 30 °C to 90 °C



HDG 150 + dimensions H x W : 150 x 150 mm
+ Temperature range : - 30 °C to 90 °C



Mi BA 6

- + cover
- + dimensions H x W: 221 x 108
- + suitable for boxes with fuse bases or fuse switch disconnectors on busbar
- + cut-out height: 216 mm



Mi WD 2

- + wall gasket
- + suitable for box wall: 150 mm, 300 mm



Mi WT 1

- + wall separator
- + suitable for box wall: 300 mm
- + for subdivision of box walls



Mi BE

- + fixing spares
- + set with 4 pieces



Mi SA 2

- + dust protection cover

Mi-POWER DISTRIBUTION BOARD

FOR EVERY BOX THE RIGHT ACCESSORIES

**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 spares
- + Pressure compensation element, canopy
- + Components for wall mounting





Mi-CONNECTION BOX

**Professional system solution
for Mi-Distribution Board**

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 300 mm
- + Can be combined in the Mi-System from HENSEL

MORE ACCESSORIES



[henselein](http://henselein.com)



NOTES

A series of horizontal dotted lines for taking notes.



SAFE DISTRIBUTION TECHNOLOGY FOR PHOTOVOLTAIC SYSTEMS

ENYSUN – SOLUTIONS FOR PHOTOVOLTAICS

ENYSUN channels the power of the sun for your photovoltaic systems. Professional and smart thanks to pre-assembly. Safe due to the highest material quality. Standard-compliant thanks to HENSEL know-how.



SAFE DISTRIBUTION TECHNOLOGY FOR PHOTOVOLTAIC SYSTEMS

250 ___ 257	Photovoltaic solutions
258 ___ 259	Standard requirements
260 ___ 261	System description
262 ___ 287	PV connection boxes
298 ___ 305	PV inverter collector

ACCESSORIES AND TECHNICAL APPENDIX

306 ___ 316	Accessories
317 ___ 325	Technical information
326	PV connection boxes checklist
327	PV inverter collector checklist

Further technical information
can be found on the Internet at

[hensel.in](https://www.hensel.in) > Products

PHOTOVOLTAIC SOLUTIONS FROM HENSEL

Product solutions with many advantages

INDIVIDUAL SOLUTIONS?
TALK TO US!



IP
66





Standardised and pre-assembled

Our ENYSUN product solutions offer you many advantages when it comes to selecting and installing photovoltaic systems.

The PV connection boxes just need to be finally connected on site. Some of them have suitable plugs for easy contacting of the PV strings and inverters.

The PV inverter collectors are ready-to-connect distribution boards that are dimensioned to meet the special requirements of PV generation systems. The PV inverter collectors can be extended with products from the Mi range, e.g. over-voltage protection or boxes for ripple control receivers.

The mains connection can be made using isolation points (coupling switch + mains connection protection) in accordance with VDE AR-N 4105.

Proven HENSEL quality

The requirements of DIN VDE 0100-712 are implemented in all products of our ENYSUN distribution system.

The consistent compliance with this standard stands for the high quality level of the HENSEL + ENYSUN product range. By using high-quality materials, you can always rely on flawless functioning. ENYSUN systems are impact-resistant, dust-proof and waterproof (Degree of protection up to IP 65), UV-resistant and corrosion-resistant.

Accessories

In the accessories, you will find suitable products to effectively reduce the accumulation of condensation in the boxes.

PV CONNECTION BOXES

Protective devices for all applications





Completely assembled and wired ready for connection



With surge arresters, string fuses or generator isolators as required



Accessories for protected outdoor installation (e.g. canopy, pressure equalisation element)

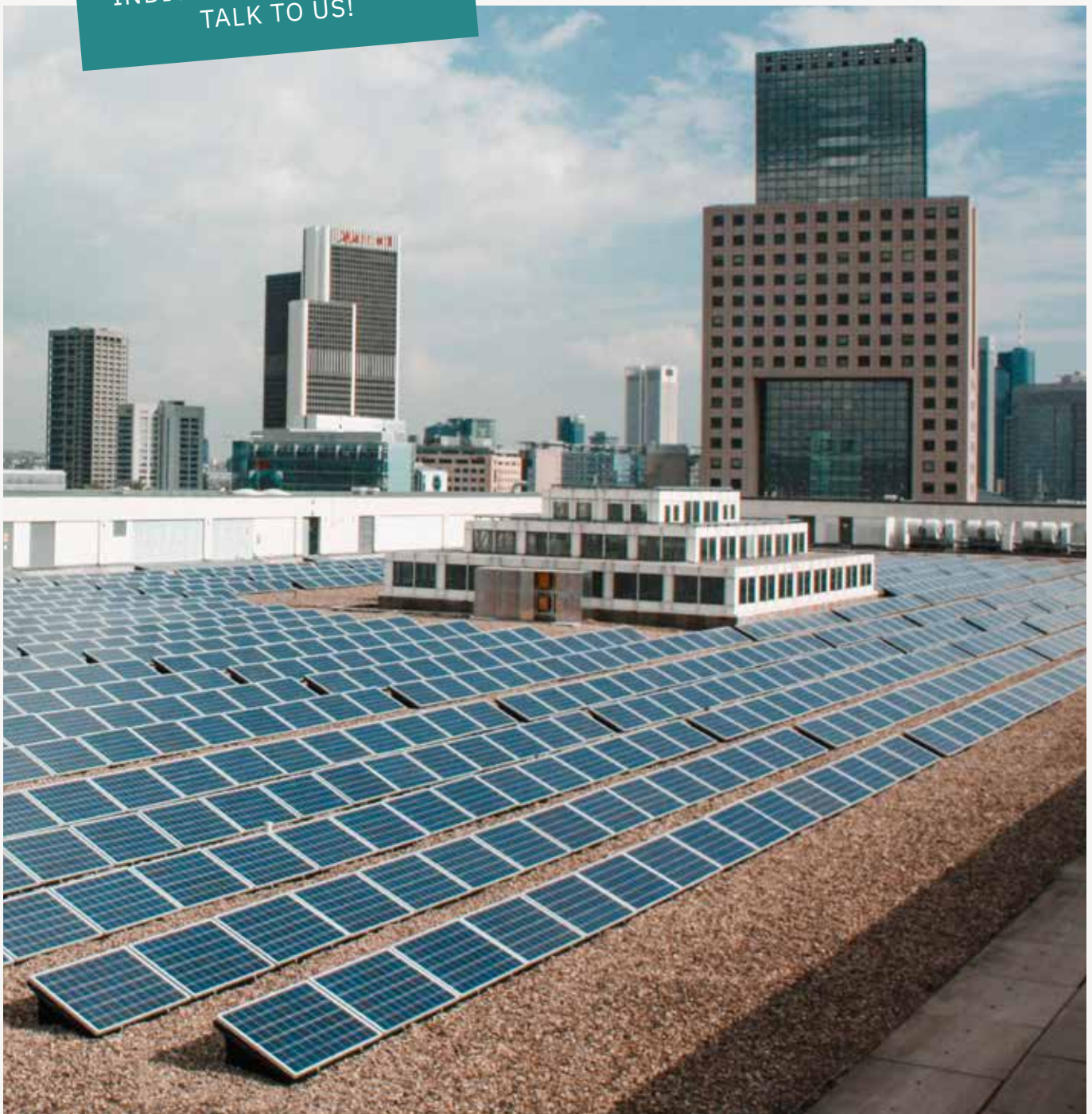
**INDIVIDUAL SOLUTIONS?
TALK TO US!**



PV INVERTER COLLECTOR

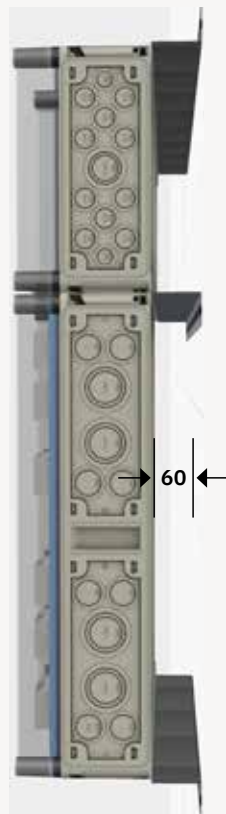
**Ready-to-connect solutions
for fast connection of the inverters**

INDIVIDUAL SOLUTIONS?
TALK TO US!





Ready-to-connect delivery of the PV inverter collectors, fully assembled and tested. No self-assembly of the distribution board is required; the installers can install it directly on the construction site. Consideration of the thermal effects of generation systems on distribution by specifying the total power of the PV inverter collector and the maximum connectable inverter power.



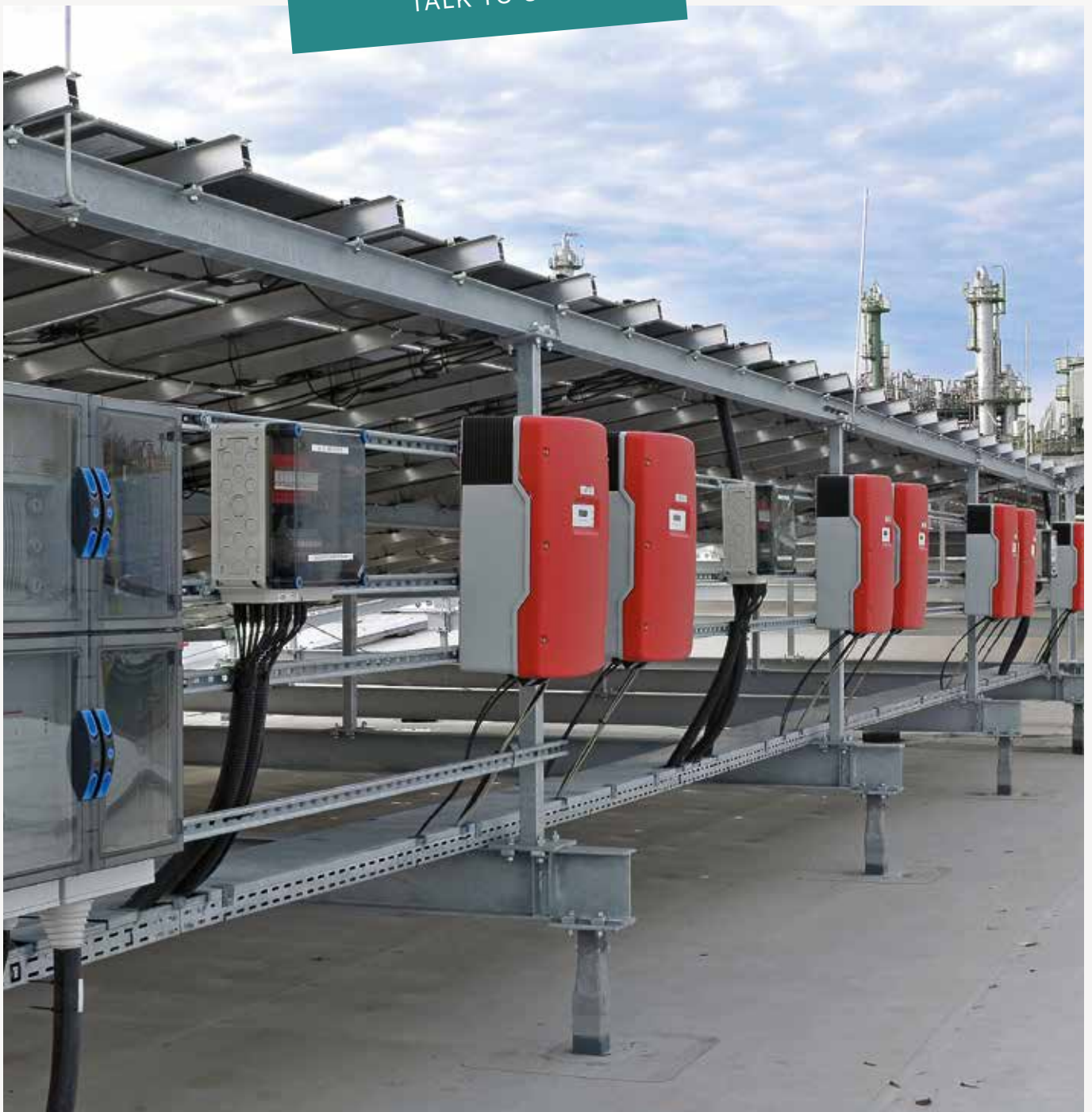
All PV inverter collectors are fitted on mounting profiles. This allows easy installation, even on uneven walls. Cables up to 60 mm in diameter can be laid behind the distribution board.



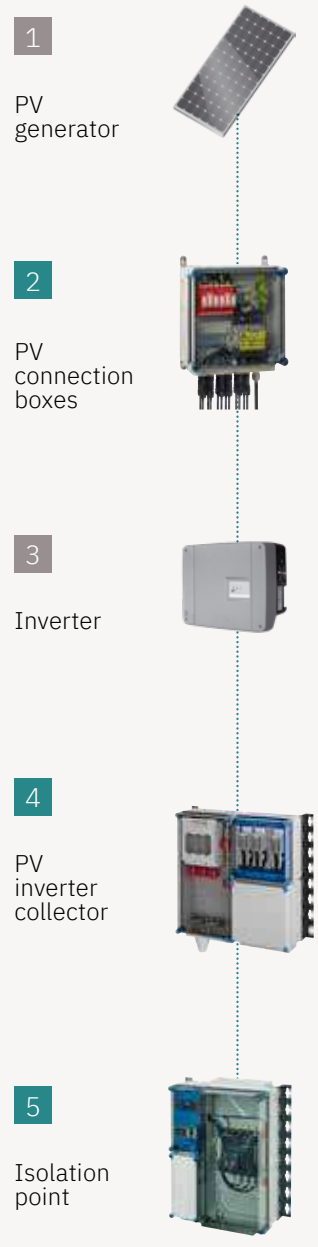
For the connection of Cu and Al conductors, all connections from size HRC 1 onwards are equipped with terminals for direct connection; with HRC 3, parallel cables are possible.

ENYSUN – SAFE DISTRIBUTION TECHNOLOGY FOR PHOTOVOLTAIC SYSTEMS

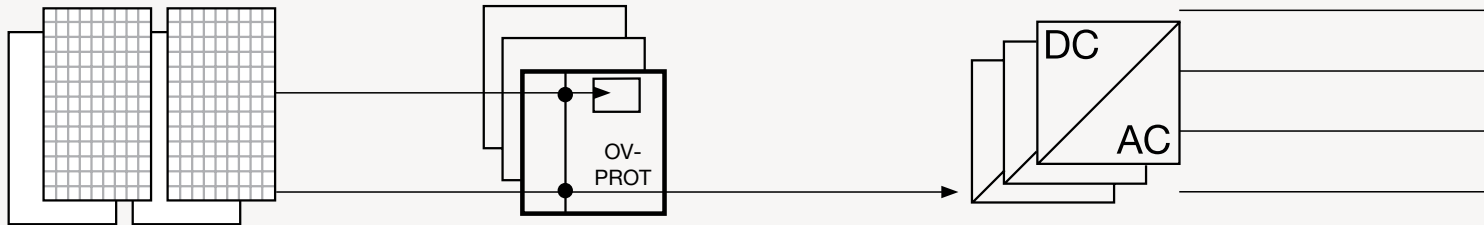
INDIVIDUAL SOLUTIONS?
TALK TO US!



- + PV connection boxes for PV systems up to 1000 V DC
- + PV inverter collector for a rated power of 350 kVA
- + Ready-to-connect isolation points for a rated power of 350 kVA
- + Degree of protection up to IP 65, Degree of protection II, double insulated



ENYSUN
Photovoltaik
Distributors



Certain standards and regulations must be observed when installing photovoltaic systems.

Excerpts from standard requirements are listed below.

DIN VDE 0100-712: 2016-10
Low-voltage electrical installations
Part 7-712: Requirements for special installations or locations – Photovoltaic (PV) systems

PV connection boxes

712.412.101 The electrical equipment of the PV generator field **must** meet the requirements of **protection class II**.

712.514.102 Each access point to active parts on the DC side, such as distribution boards and junction boxes, shall have a permanent marking indicating that active parts may still be energised after disconnection, for example by the text:

“PV DC voltage - active parts may be live after disconnecting!”

712.511.103 junction boxes or distributors and switchgear combinations

Connection boxes, distributors and switchgear combinations must comply with the IEC 61439 series of standards (VDE 0660-600).

IEC 61439-1 (VDE 0660-600-1)

Low-voltage switchgear and controlgear assemblies

Part 1: General rules

10.9.4 For switchgear combinations with insulating material sheaths, an additional insulation test shall be carried out, ...

For this additional test, a test voltage must be 1.5 times the voltage specified in Table 8.



PV inverter collector

712.433.104 Protection of power cables/lines on the AC side

The maximum output current of the inverter must be taken into account when specifying the rated current of the overcurrent protection device of the PV supply cables/lines on the AC voltage side.

The maximum output current of the inverter is either the maximum AC current specified by the manufacturer of the inverter or, if no manufacturer's information is available, 1.1 times the rated AC current of the inverter.

712.434 Protection for short-circuit currents

712.434.101 The PV supply cable/line on the AC side shall be protected by a protective device for short-circuit protection or by an overcurrent protection device installed at the connection point on the AC side.

Isolation point

VDE-AR-N 4105:2018-11

Generators connected to the low-voltage distribution network Technical requirements for the connection to and parallel operation with low-voltage distribution networks

The application guide has come into force in conjunction with VDE-AR-N 4100. Since 27/04/2019, all generation systems < 135 kW have to be built and operated according to this application guide.

Systems \geq 135 kW are built and operated in accordance with VDE-AR-N 4110, regardless of the connection point to the grid operator.

DEPENDENT ON THE SYSTEM

Electrical ratings



Rated current: up to 630 A
 Rated insulation voltage: 690 V AC, **1000 V DC**, VDE 0110
**The rated values may be reduced by the built-in device technology;
 see the information on the product or the Technology tab**

**Electrical
 Rated values**

System properties



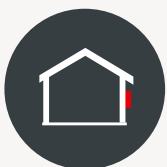
**Ambient
 Conditions**

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



Impact strength

Mechanical impact protection
 IK 08 (5 Joules) according to IEC 50102



**Application
 area**

The enclosures are suitable for protected outdoor installation.
 However, the climatic influences and effects on the operating equipment must be taken into account.



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



Burning behaviour

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



Chemical resistance

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



UV resistance

UV-resistant in accordance with IEC 61439-1, para. 10.2.4: The material is tested for UV resistance.

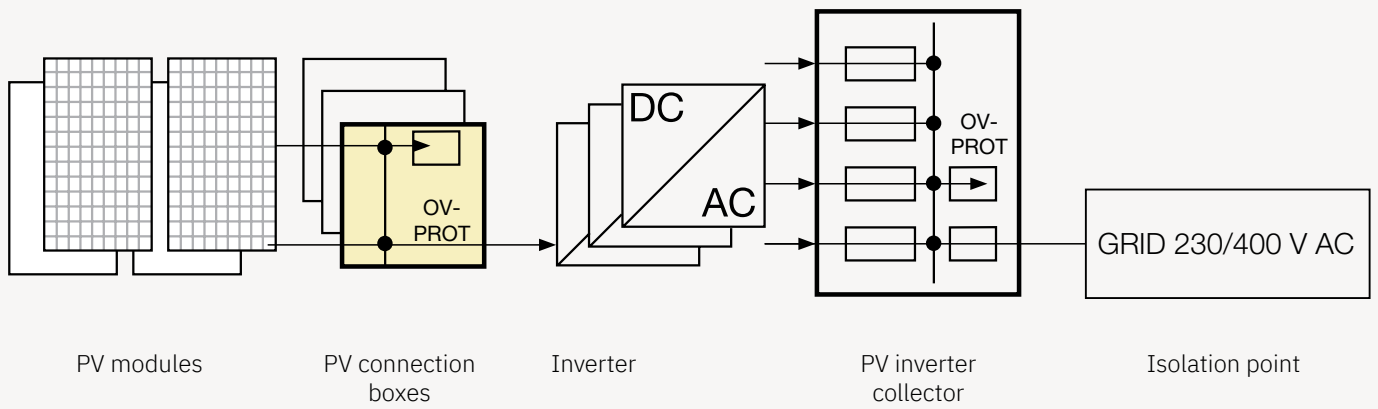


Toxic behaviour

Silicone- and halogen-free

ENYSUN PV CONNECTION BOXES





System properties

- + Connection:**
Ready to connect with connectors or included cable entries
- + Electrical data:**
Rated voltage: 1000 V DC
Rated current: up to 240 A
Protective measure: Protective insulation
- + Environmental conditions:**
UV-resistant
Degree of protection: IP 65
Optional: Suitable products to effectively reduce the accumulation of condensation in the boxes (e.g. combi-ventilation glands, canopy, ventilation flange)



More information about these products:
hensel.in



The individual boxes are suitable for outdoor use.

The box materials used for the Mi system are generally UV-resistant, so that the mechanical strength of the encapsulation is maintained when exposed to UV.

Due to the direct sunlight and the heat loss generated in the box, the interior of the box may become overheated. Lower outside temperatures, e.g. below -5 °C, also affect the equipment technology. Therefore, the climatic effects and effects on the equipment technology must be taken into account.

The top of the boxes should be protected by a cover, e.g. a canopy, against these weather-related influences, such as rain, ice and snow.

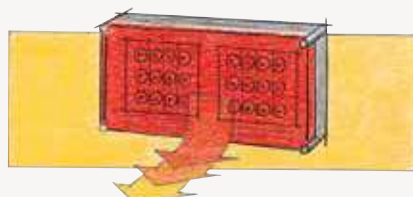
When selecting the installation location, in addition to the IP degree of protection and climatic influences, adverse effects due to chemical influences should perhaps be considered.

Additional measures, such as ventilation, may be necessary to comply with the maximum permissible ambient temperature of the built-in devices and to prevent condensation (considering the degree of protection). In an outdoor application, Hensel combi-ventilation glands (KBM) can be used, for example, for cable entry and pressure compensation (see accessories).

How does condensed water form in boxes with a high degree of protection?

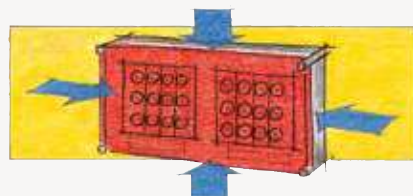
The problem of condensation water formation only occurs in boxes with a high degree of protection \geq IP 54, because the high impermeability of the boxes and their materials causes too little air compensation from the inside to the outside.

System switched on.



The internal temperature is higher than the ambient temperature due to the power loss of the built-in devices.

System switched on.



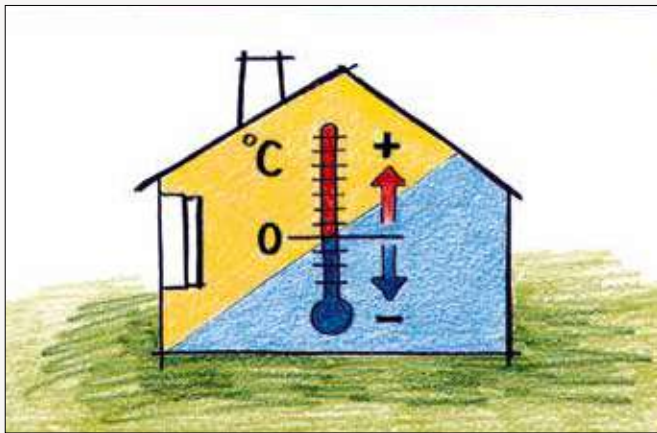
The warm indoor air tries to accumulate moisture. This comes from the outside through the sealing area because boxes are not gas-tight.

System switched off



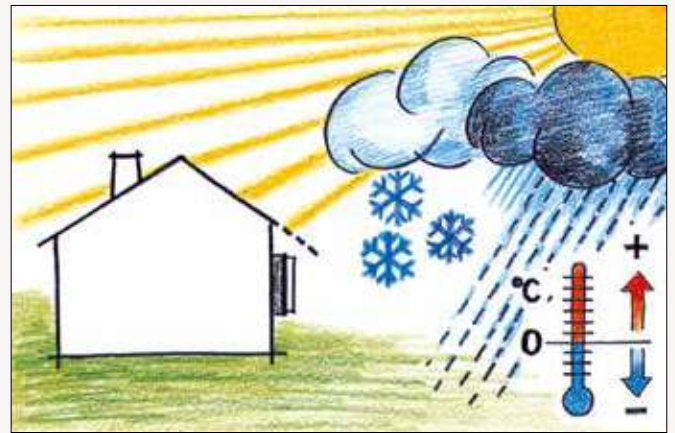
By cooling the system, e.g. by switching off the loads, the internal temperature decreases. The cooler air releases moisture, which settles as condensation water on the cooler inner surfaces of the box.

Formation of condensation in installations in rooms:



Wherever high humidity and large temperature changes are to be expected, e.g. in laundries, kitchen facilities, car washes etc.

Formation of condensation in protected or unprotected outdoor installations:



Condensed water can form here depending on the weather, high humidity, direct sunlight and temperature gradient to the wall.



Environmental conditions:

Degree of protection: IP 65
stainless steel external brackets,
optional: Suitable products to effectively reduce the accumulation of condensation in the box (e.g. pressure compensation elements, canopy, ventilation flange)



Due to the exposed arrangement of photovoltaic generators on roofs or in the open area, lightning and surge protection is an important part of investment protection.

Direct lightning strikes into the PV generator can, for example, destroy the PV modules and inverters (primary damage).

Since photovoltaic (PV) systems inevitably have a connection to the electrical installation of the building, damage to the entire system can occur in the event of lightning in the PV generator (secondary effect).

Many indemnity insurers therefore refer to the VdS data sheet 2010: “Risk-orientated lightning and surge protection, guidelines for loss prevention”, which recommends external lightning protection for PV systems over 10 kWp.

Protective measures

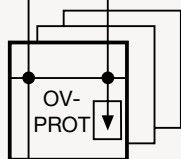
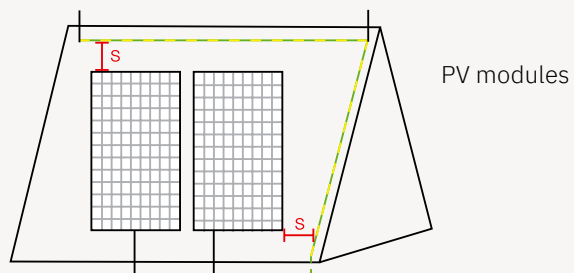
In principle, it should be ensured that no direct lightning strikes into the PV generator are possible. There are suitable products for this purpose to implement external lightning protection.

If an external lightning protection system is available, a type 1 lightning current arrester must be provided in the main building distribution board for the AC supply.

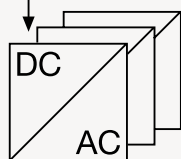
Protection of inverters

In order to protect the inverters against surges, both the DC inputs and AC outputs must be protected. If the inverter is installed at a distance of $l > 10$ m cable length from the main building distribution board, a type 2 surge protection device (SPD) must be used for the AC line to prevent surge damage, e.g. due to switching surges from the supply network.

Special type 2 surge protection devices suitable for DC voltage must be provided for the string lines of the DC inputs. The decisive factor is the individual lightning and surge protection concept.

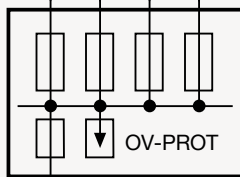


max. 10 m

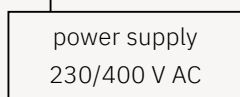


Inverter

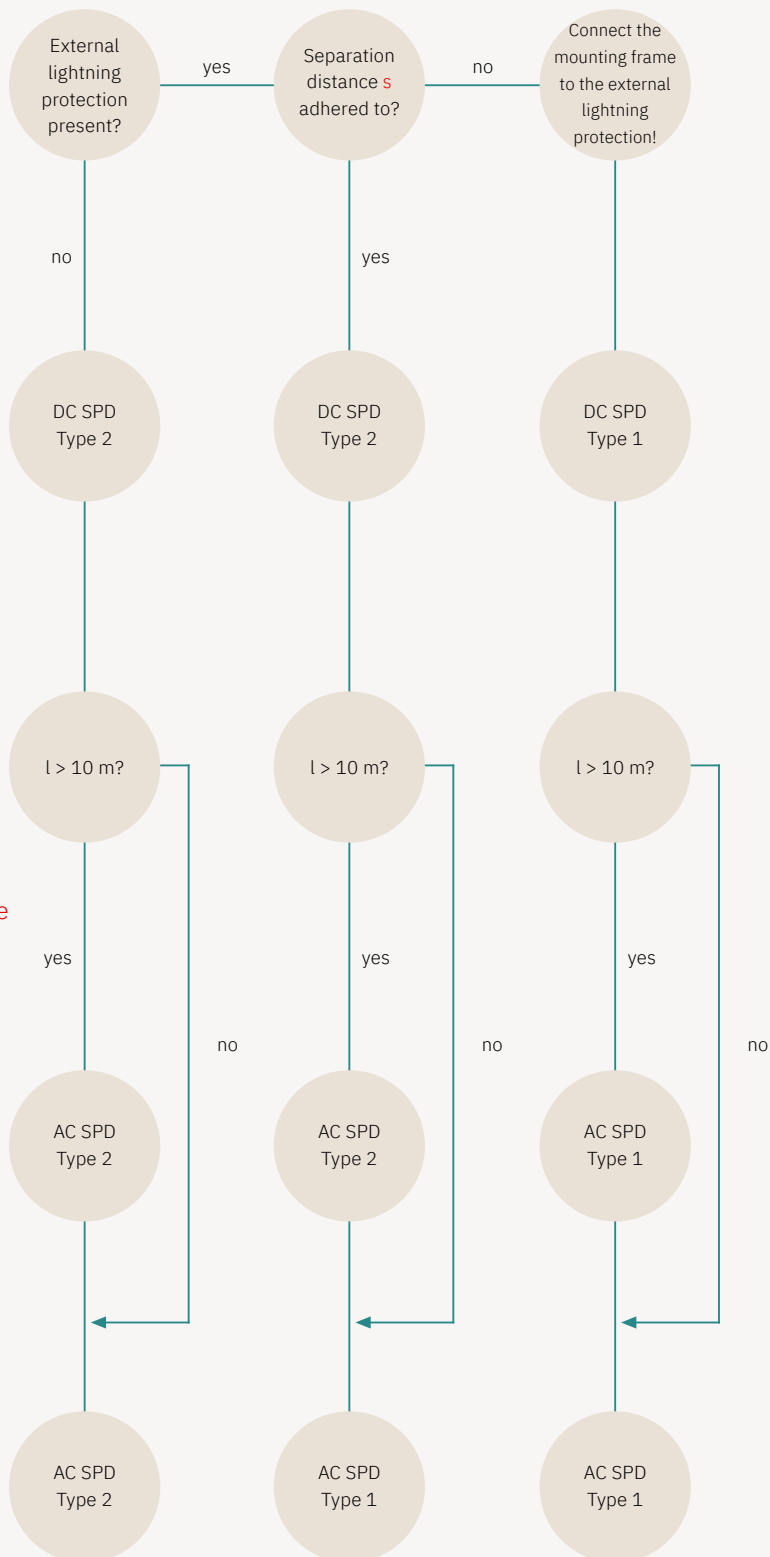
l (distance between the inverter and the main building distribution board)

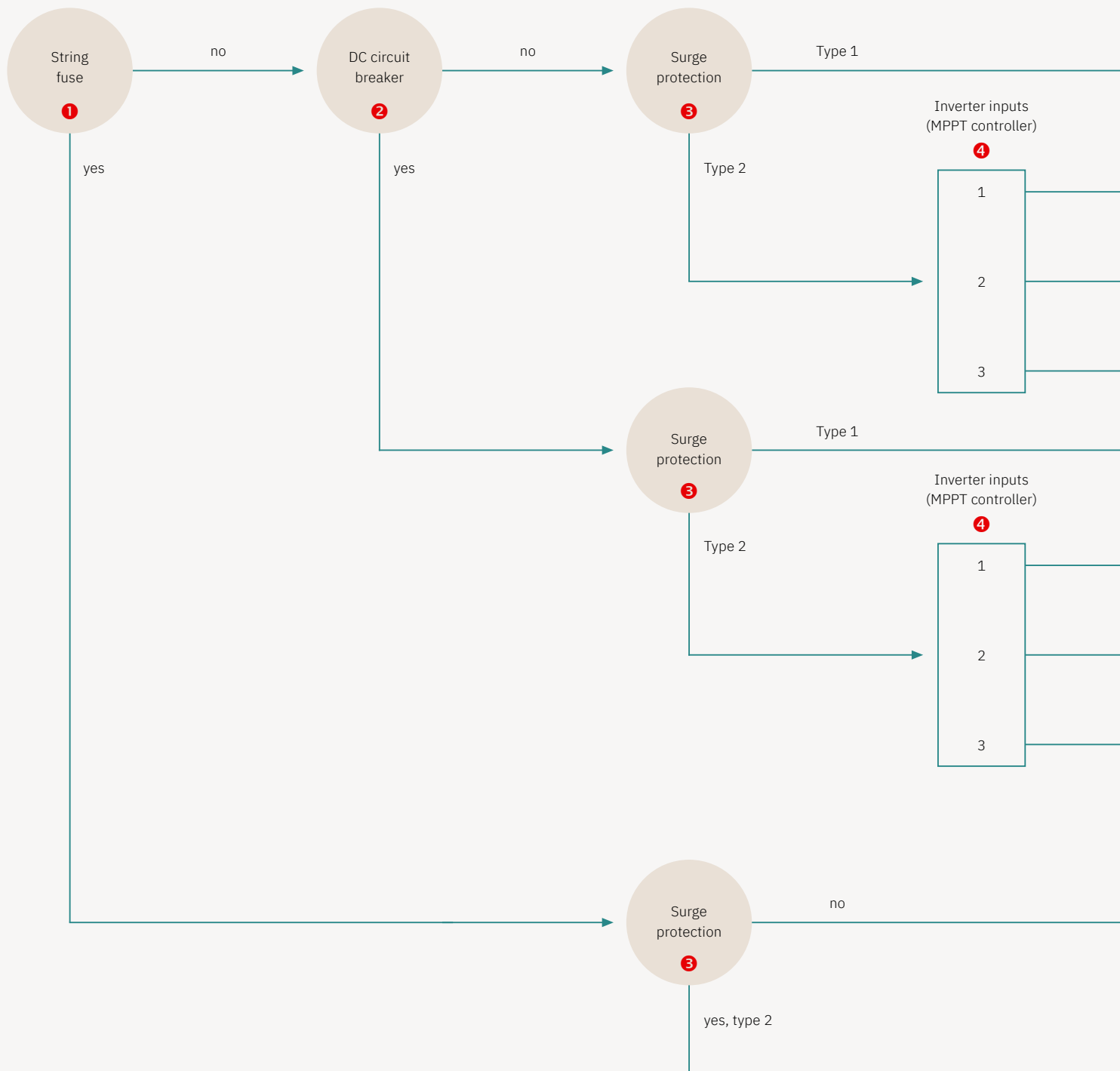


PV inverter collector incl.



Distributor with measuring device incl.





1
 Check whether a surge protection device is necessary. See the requirements in DIN VDE 0100-712

712.430 Overcurrent protection

712.431 Requirements according to the type of circuits

712.431.101 In a PV generator field with parallel PV strings of the number of LV (with LV > 2), protective devices must be provided to protect each PV string if the following condition is met: 1.35 IMOD_MAX OCP < (NS - 1) ISC_MAX An overcurrent protection device is not required for a number of LV ≤ 2.

2
 Check whether a generator disconnect switch must also be used. This can already be integrated into the inverter! See the requirements in DIN VDE 0100-712

712.537 Disconnecting and switching

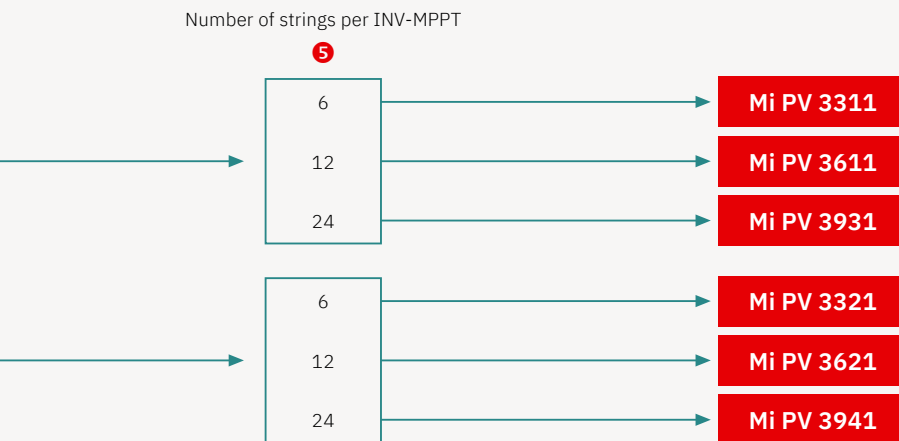
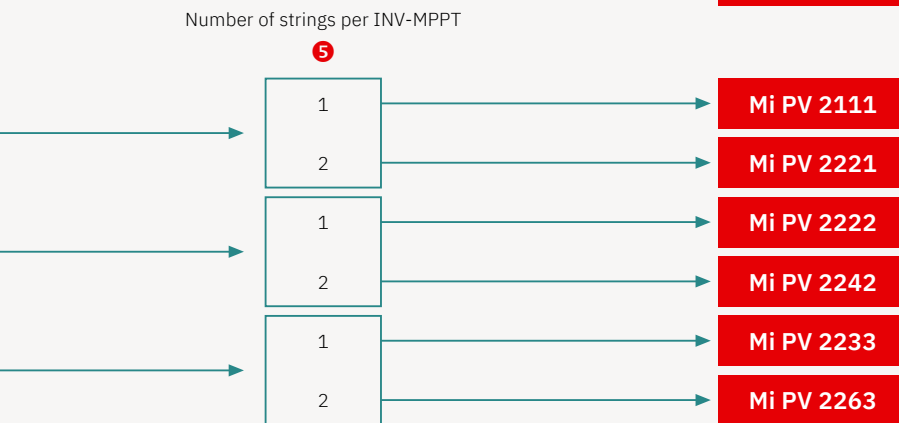
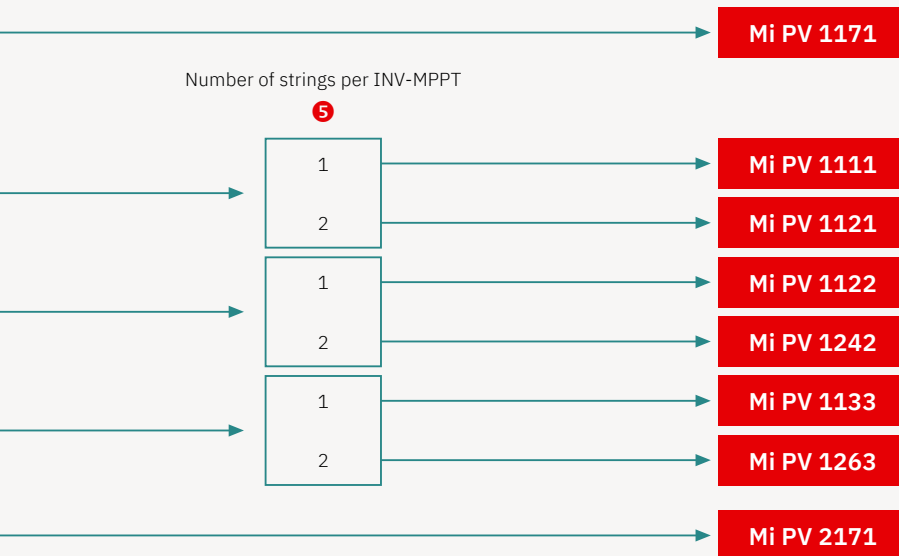
712.537.2 Disconnecting

712.537.2.101 For the repair and maintenance of the inverter, devices must be provided to separate the inverter from the DC and AC sides.

712.537.2.2 Devices for disconnecting

712.537.2.2.101 DC side disconnection device

A switch disconnecter or a circuit-breaker suitable for disconnecting must be provided on the DC side of the inverter.



4
How many independent MPPT controllers does the inverter have?

Many inverters have several independent MPPT controllers. This enables differently equipped or aligned PV strings to be connected to an inverter.

If there are more MPPT controllers than are possible in one PV terminal box, additional PV terminal boxes can be selected.

5
How many strings will be connected to one independent MPPT controller?

In order to increase the PV power for the MPPT controller, PV strings can be connected in parallel. The parallel connection in the PV connection boxes can be carried out without or with string fuses.

3
Check whether a surge protection device (SPD) is necessary.

712.534 Devices for surge protection

The selection and installation of surge protection devices (SPDs) in PV systems must be carried out in accordance with IEC 62305-3 Supplement 5 (VDE 0185-305-3 Supplement 5).

712.443.101 Transient surge protection

If transient surge protection is required by DIN VDE 0100-443 (VDE 0100-443), Section 443, such protection must also be applied on the DC side of the PV system.

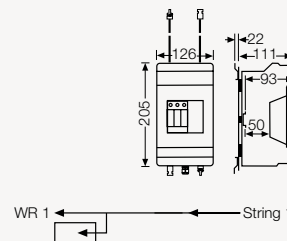
Depending on the distance between the inverter and the power supply point of the electrical system, further transient surge protection on the AC side may be required.



KV PV 1211

1 x PV string to 1 x inverter input
1 x type 2 DC surge arrester

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
Length of connection cables: 2 x 500 mm
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + with mounting plate for wall and pole mounting
made of stainless steel



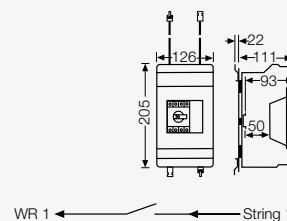
Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{nA} = 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1



KV PV 2211

1 x PV string to 1 x inverter input
1 x DC generator circuit breaker

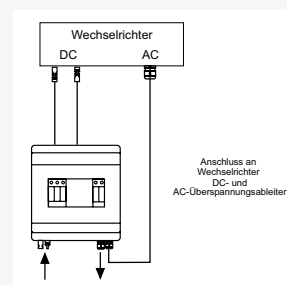
- + ready for connection
- + DC generator circuit breaker
Utilisation category for switch disconnector:
DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
Length of connection cables: 2 x 500 mm
- + with mounting plate for wall and pole mounting
made of stainless steel



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{nA} = 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1



Installation of PV connection boxes KV PV ... Possible in default wall and pole mounting.

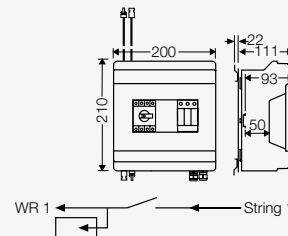




KV PV 2411

- 1 x PV string to 1 x inverter input
- 1 x type 2 DC surge arrester
- 1 x DC generator circuit breaker

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + DC generator circuit breakers
Utilisation category for switch disconnector: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
Length of connection cables: 2 x 500 mm
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + with mounting plate for wall and pole mounting made of stainless steel



Rated voltage	$U_{OC,STC} = 3000 \text{ V DC}$
Rated current of the switchgear combination	$I_{nA} = 30 \text{ A}$
Rated current of a circuit	$I_{nc} = 30 \text{ A}$
RDF (Rated Diversity Factor)	1



To protect from unauthorised access



Locking device
KV ES 3



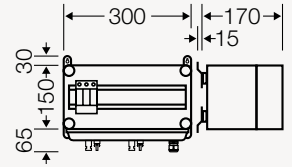
Sealing device
KV PL 3



Mi PV 1111

1 x PV string to 1 x inverter input
1 x type 2 DC surge arrester

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel mounting plate



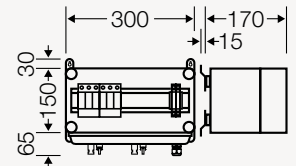
Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{nA} = 1 \times 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1



Mi PV 1122

2 x PV strings to 2 x inverter inputs
2 x type 2 DC surge arresters

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5 - 16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{nA} = 2 \times 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1

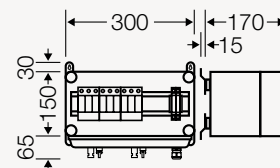




Mi PV 1133

3 x PV strings to 3 x inverter inputs
3 x type 2 DC surge arresters

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{NA} = 3 \times 30 \text{ A}$
Rated current of a circuit	$I_{nc} = 30 \text{ A}$
RDF (Rated Diversity Factor)	1



Accessories to reduce condensed water



Dew Guard
HDG xxx



Pressure equalising
element BM xxG



Canopy
MI DB ...



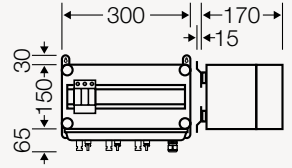
Ventilation flange
MI BF 44



Mi PV 1121

2 x PV strings to 1 x inverter input
1 x type 2 DC surge arrester

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



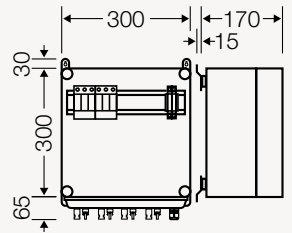
Rated voltage	$U_{OC,STC} = 1000$ V DC
Rated current of the switchgear combination	$I_{nA} = 1 \times 30$ A
Rated current of a circuit	$I_{nc} = 15$ A
RDF (Rated Diversity Factor)	1



Mi PV 1242

4 x PV string for 2 x inverter input
2 x type 2 DC surge arresters

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5 - 16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000$ V DC
Rated current of the switchgear combination	$I_{nA} = 2 \times 30$ A
Rated current of a circuit	$I_{nc} = 15$ A
RDF (Rated Diversity Factor)	1

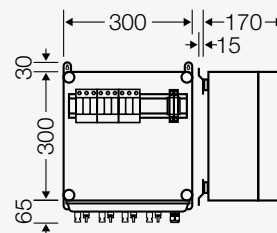




Mi PV 1263

6 x PV string for 3 x inverter input
3 x type 2 DC surge arresters

- + ready for connection
- + Type 2 DC surge arrester
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{NA} = 3 \times 30 \text{ A}$
Rated current of a circuit	$I_{nc} = 15 \text{ A}$
RDF (Rated Diversity Factor)	1



Accessories to reduce condensed water



Dew Guard
HDG xxx



Pressure equalising
element BM xxG



Canopy
MI DB ...



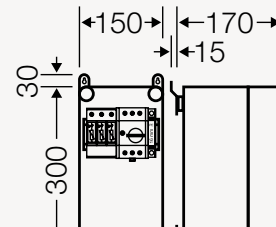
Ventilation flange
MI BF 44



Mi PV 2111

1 x PV string to 1 x inverter input
 1 x type 2 DC surge arrester and
 1 x DC generator circuit breaker

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



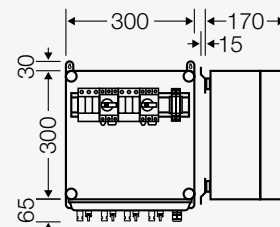
Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 1 \times 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1



Mi PV 2222

2 x PV strings to 2 x inverter inputs
 2 x type 2 DC surge arresters and
 2 x DC generator disconnect switch

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5 - 16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 2 \times 30\ A$
Rated current of a circuit	$I_{nc} = 30\ A$
RDF (Rated Diversity Factor)	1

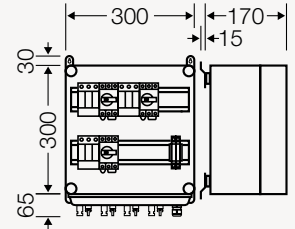




Mi PV 2233

3 x PV strings to 3 x inverter inputs
 3 x type 2 DC surge arresters and
 3 x DC generator circuit breakers

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching
 resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{NA} = 3 \times 30 \text{ A}$
Rated current of a circuit	$I_{nc} = 30 \text{ A}$
RDF (Rated Diversity Factor)	1



To protect from unauthorised access



Sealing cap
 Mi PL 2



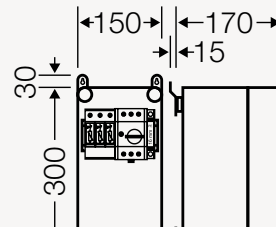
Lid fastener for
 tool operation
 Mi DR 04



Mi PV 2121

2 x PV strings to 1 x inverter input
 1 x type 2 DC surge arrester and
 1 x DC generator circuit breaker

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



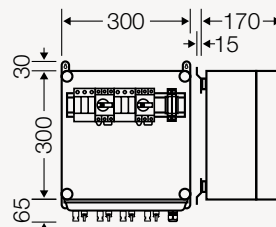
Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 1 \times 30\ A$
Rated current of a circuit	$I_{nc} = 15\ A$
RDF (Rated Diversity Factor)	1



Mi PV 2242

4 x PV string for 2 x inverter input
 2 x type 2 DC surge arresters and
 2 x DC generator disconnect switch

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5 - 16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 2 \times 30\ A$
Rated current of a circuit	$I_{nc} = 15\ A$
RDF (Rated Diversity Factor)	1

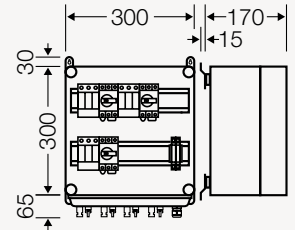




Mi PV 2263

6 x PV string for 3 x inverter input
 3 x type 2 DC surge arresters and
 3 x DC generator circuit breakers

- + ready for connection
- + Type 2 DC surge arrester
 Limit leakage surge current DC (8/20) I_{total} : 40 kA
 DC protection level: < 4 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-16 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 3 \times 30\ A$
Rated current of a circuit	$I_{nc} = 15\ A$
RDF (Rated Diversity Factor)	1



To protect from unauthorised access



Sealing cap
Mi PL 2



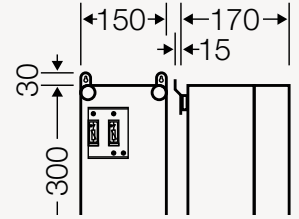
Lid fastener for tool operation
Mi DR 04



Mi PV 1171

2 x PV strings to 1 x inverter input
1 x types 1 + 2 DC surge arrester

- + ready for connection
- + Types 1 + 2 DC surge arrester
Lightning surge current DC (10/350) [DC+/DC- -> PE] I_{imp} : 12.5 kA
Protection level [DC+/DC- -> PE]: < 3.8 kV
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-25 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000$ V DC
Rated current of the switchgear combination	$I_{nA} = 1 \times 30$ A
Rated current of a circuit	$I_{nc} = 15$ A
RDF (Rated Diversity Factor)	1

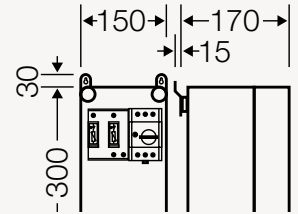




Mi PV 2171

2 x PV strings to 1 x inverter input
 1 x types 1 + 2 DC surge arrester and
 1 x DC generator circuit breaker

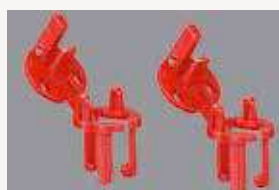
- + ready for connection
- + Types 1 + 2 DC surge arrester
 Lightning surge current DC (10/350) [DC+/DC- -> PE] I_{imp} : 12.5 kA
 Protection level [DC+/DC- -> PE]: < 3.8 kV
- + DC generator circuit breaker
 usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Plug-in connectors compatible with MC4
- + Rated connecting capacity PE: 1.5-25 mm², Cu
- + Lid fasteners for tool operation
- + with stainless steel external brackets



Rated voltage	$U_{OC\ STC} = 1000\ V\ DC$
Rated current of the switchgear combination	$I_{NA} = 1 \times 30\ A$
Rated current of a circuit	$I_{nc} = 15\ A$
RDF (Rated Diversity Factor)	1



To protect from unauthorised access



Sealing cap
 Mi PL 2



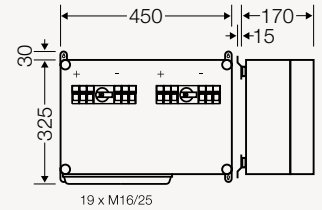
Lid fastener for tool operation
 Mi DR 04



Mi PV 3311

6 x PV string for 1 x inverter input
2 x DC generator disconnect switch

- + ready for connection
- + 6 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Connection 6-35 mm², Cu
- + Lid fasteners for tool operation
- + included cable entries: 12 x AKM 16, 2 x AKM 25
- + with stainless steel external brackets



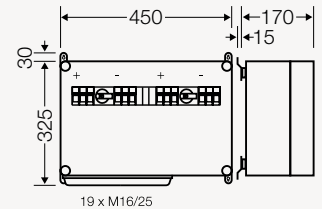
Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{nA} = 60 \text{ A}$
Rated current of a circuit	$I_{nC} = 10 \text{ A}$
RDF (Rated Diversity Factor)	1



Mi PV 3321

6 x PV string for 1 x inverter input
1 x type 2 DC surge arrester and
2 x DC generator disconnect switch

- + ready for connection
- + 6 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker usage category for switch disconnectors: DC 21A = switching resistive load including moderate overload
- + Connection 6-35 mm², Cu
- + DC surge arrester type 2
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Rated connecting capacity PE: 1.5-35 mm² Cu
- + Lid fasteners for tool operation
- + included cable entries: 12 x AKM 16, 2 x AKM 25
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{nA} = 60 \text{ A}$
Rated current of a circuit	$I_{nC} = 10 \text{ A}$
RDF (Rated Diversity Factor)	1

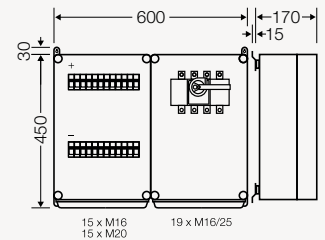




Mi PV 3611

12 x PV strings to 1 x inverter input
1 x DC generator circuit breaker

- + ready for connection
- + 12 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker
Connection: M 10 (max. 1 x 120 mm² per pole)
- + Lid fasteners for tool operation
- + included cable entries: 12 x AKM 16, 12 x AKM 20, 2 x AKM 25
- + with stainless steel external brackets



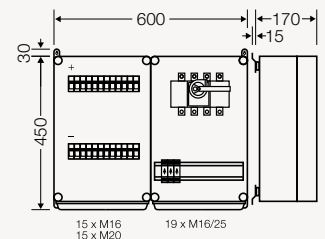
Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{nA} = 120 \text{ A}$
Rated current of a circuit	$I_{nc} = 10 \text{ A}$
RDF (Rated Diversity Factor)	1



Mi PV 3621

12 x PV strings to 1 x inverter input
1 x type 2 DC surge arrester and
1 x DC generator circuit breaker

- + ready for connection
- + 12 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker
Connection: M 10 (max. 1 x 120 mm² per pole)
- + DC surge arrester type 2
Limit leakage surge current DC (8/20) I_{total} : 40 kA
DC protection level: < 4 kV
- + Rated connecting capacity PE: 1.5-35 mm² Cu
- + Lid fasteners for tool operation
- + included cable entries: 12 x AKM 16, 12 x AKM 20, 3 x AKM 25
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{nA} = 120 \text{ A}$
Rated current of a circuit	$I_{nc} = 10 \text{ A}$
RDF (Rated Diversity Factor)	1

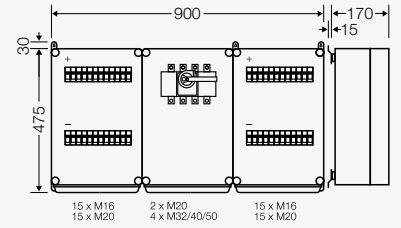




Mi PV 3931

24 x PV strings to 1 x inverter input
1 x DC generator circuit breaker

- + ready for connection
- + 24 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker
Connection: M 10 (max. 1 x 120 mm² per pole)
- + Lid fasteners for tool operation
- + included cable entries: 24 x AKM 16, 24 x AKM 20, 2 x AKM 40
- + with stainless steel external brackets



Rated voltage	$U_{OC,STC} = 1000 \text{ V DC}$
Rated current of the switchgear combination	$I_{NA} = 240 \text{ A}$
Rated current of a circuit	$I_{nc} = 10 \text{ A}$
RDF (Rated Diversity Factor)	1

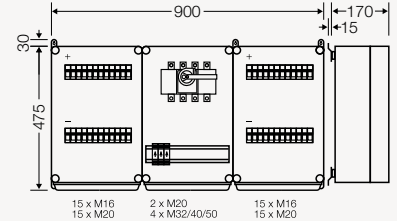




Mi PV 3941

24 x PV strings to 1 x inverter input
 1 x type 2 DC surge arrester and
 1 x DC generator circuit breaker

- + ready for connection
- + 24 x fuse holders + and - each, for cylindrical fuse links gPV 10x38, connection: 1.5-16 mm² Cu
- + DC generator circuit breaker
 Connection: M 10 (max. 1 x 120 mm² per pole)
- + DC surge arrester type 2
 Limit leakage surge current DC (8/20) I_{total}: 40 kA
 DC protection level: < 4 kV
- + Rated connecting capacity PE: 1.5-35 mm² Cu
- + Lid fasteners for tool operation
- + included cable entries: 24 x AKM 16, 24 x AKM 20, 2 x AKM 40
- + with stainless steel external brackets



Rated voltage	U _{OC STC} = 1000 V DC
Rated current of the switchgear combination	I _{nA} = 240 A
Rated current of a circuit	I _{nc} = 10 A
RDF (Rated Diversity Factor)	1



Accessories to reduce condensed water



Dew Guard
 HDG xxx



Pressure equalising
 element BM xxG



Canopy
 MI DB ...



Ventilation flange
 MI BF 44

PHOTOVOLTAIC
CONNECTION BOXES UP TO 1000 V
DC MADE OF INSULATING MATERIAL
IN PROTECTION CLASS II,
DEGREE OF PROTECTION
UP TO IP 65



Would you like to find out more
about HENSEL?

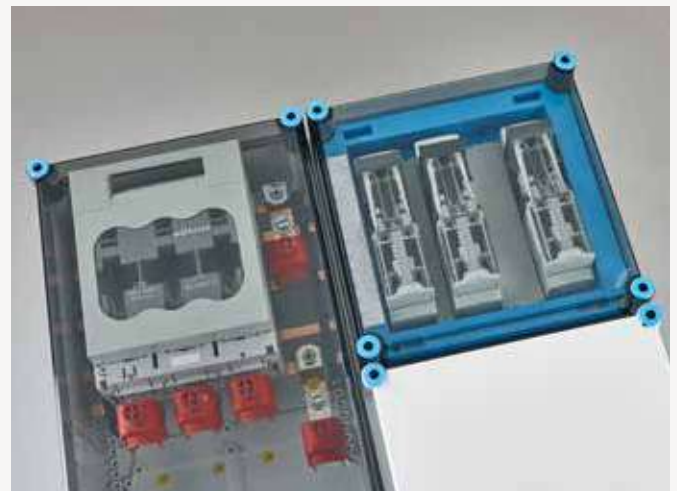
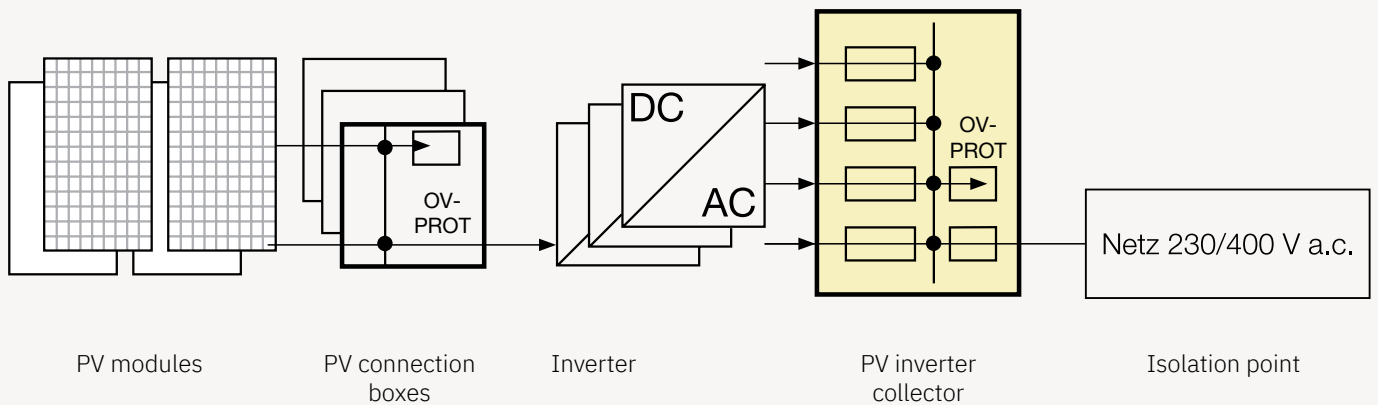
hensel.in

INDIVIDUAL SOLUTIONS?
TALK TO US!



ENYSUN PV INVERTER COLLECTOR





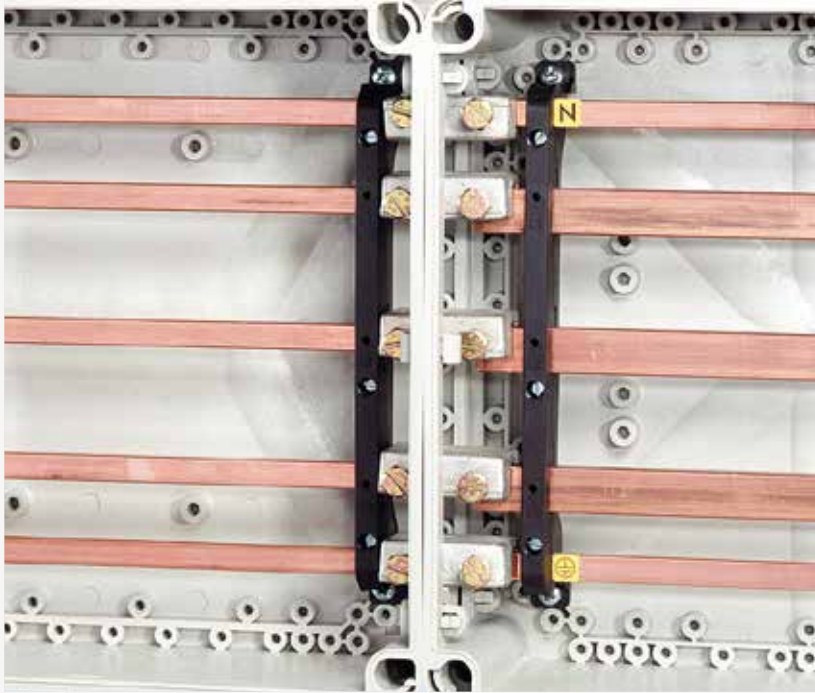
System properties

- + Ready-to-connect delivery:
installed, wired and tested.
- + Electrical data:
Rated voltage: 230/400 V AC
Rated power: up to 350 kVA
Degree of protection: up to IP 54
Optionally with surge arrester
- + Derating:
consideration of thermal effects
for generating installations



More information about
these products:
hensel.in

ENYSUN PV INVERTER COLLECTOR



EMC-compliant busbar

The main busbar system has the N/PEN conductors in the area of the outer conductors as standard. The N busbars have the same current carrying capacity as the external conductors.

These busbars are suitable for:

- harmonics generated by inverters.
- asymmetric loads (asymmetric load limit 4.6 kVA permitted by the energy supplier) due to different external conductor loads.





Connection of large cable cross-sections

All PV inverter collectors are equipped with cable entries for large cross-sections in HRC fuse switch disconnectors from HRC1 onwards. To facilitate connection, the existing mounting flanges can be replaced with a cable insert.

The cables are inserted from the front. This means that the cables do not have to be inserted through a cable screw gland. The cable strain relief clamp always holds the connected cables centred in the stepped grommets to maintain the degree of protection. In addition, the cables are relieved of compression and tension.

INDIVIDUAL SOLUTIONS?
TALK TO US!



ENYSUN

INSTALLATION OPTIONS FOR A PV INVERTER COLLECTOR

All PV inverter collectors can be extended and combined with Mi distributor boards and accessories.



Empty boxes
for the installation of DIN rails and mounting plates



Boxes for Rail-mounted devices
e.g. for circuit breakers or residual current circuit breakers



Boxes for meter stations
for meters, transducers and measuring devices



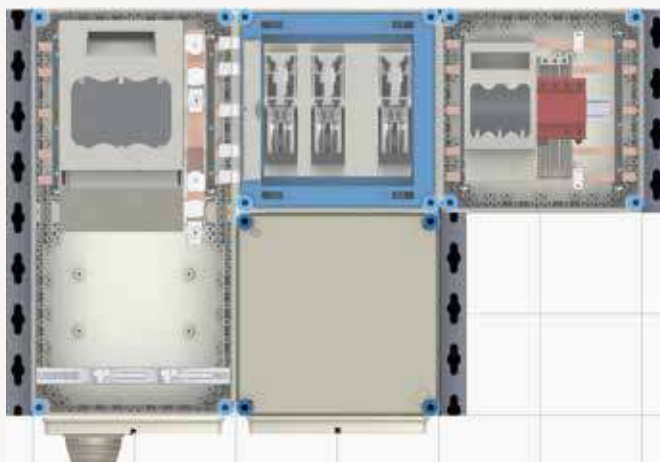
Boxes for overvoltage protection
also for the pre-meter area



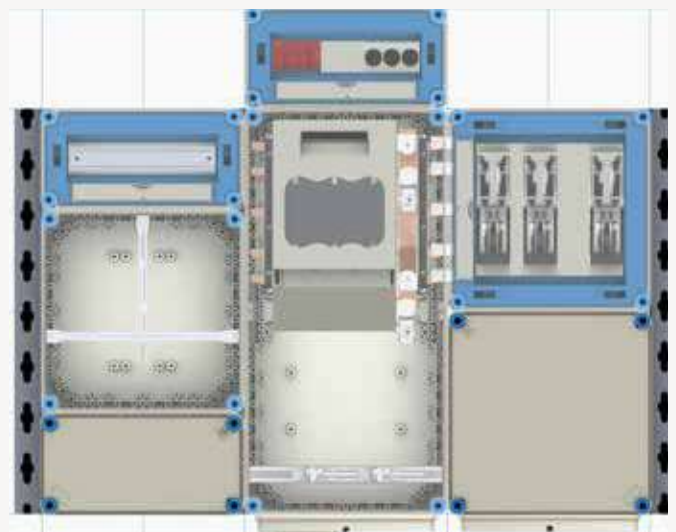
Boxes with busbars
with and without devices



Boxes with units on mounting plate
e.g. HRC fuses, switch disconnectors or circuit-breakers



Example:
Extension of the PV inverter collector Mi PV 7324 with
+ type 1 surge protection (Mi SP 2262)



Example:
Extension of the PV inverter collector Mi PV 7324 with
+ Type 2 surge protection (Mi SP 2138)
+ Meter box for one ripple control receiver (Mi 2200)
+ Circuit breaker box for voltage path (Mi 1115)



Photovoltaic installations must be dimensioned differently.

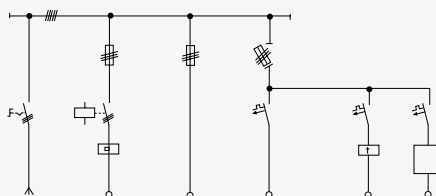
Why are special solutions needed for PV systems?

The design or dimensioning of photovoltaic installations differs significantly from the usual building installation in that the installed devices are subjected to a continuous load.

Selection of the protective device

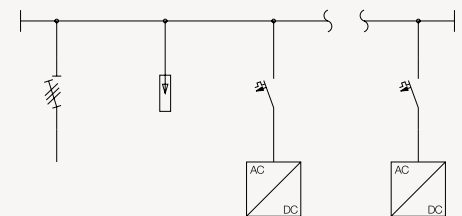
Building installation

Selection and dimensioning of the protective device to protect the line in relation to the current or the power of the consumer.



Photovoltaic system

Selection and dimensioning of the protective device to protect the line in relation to the current or the power of the inverter on the AC side.



Consideration of the simultaneity factor

Due to the low simultaneity factor (0.3-0.6), the installation distribution board is often dimensioned according to the number of modules.

For PV systems, the simultaneity factor is 1! For this reason, the distribution board for PV systems must be dimensioned differently and not just according to the number of modules, for example.

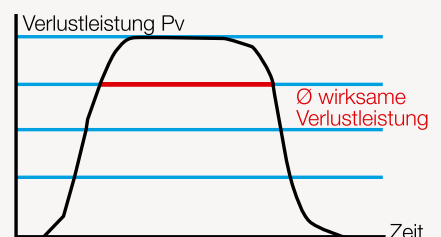
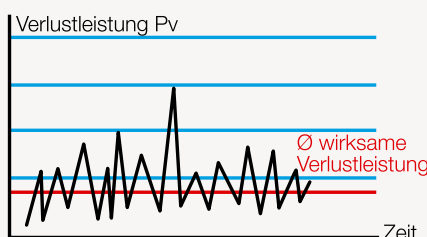
Influence by heat from simultaneity factor and load

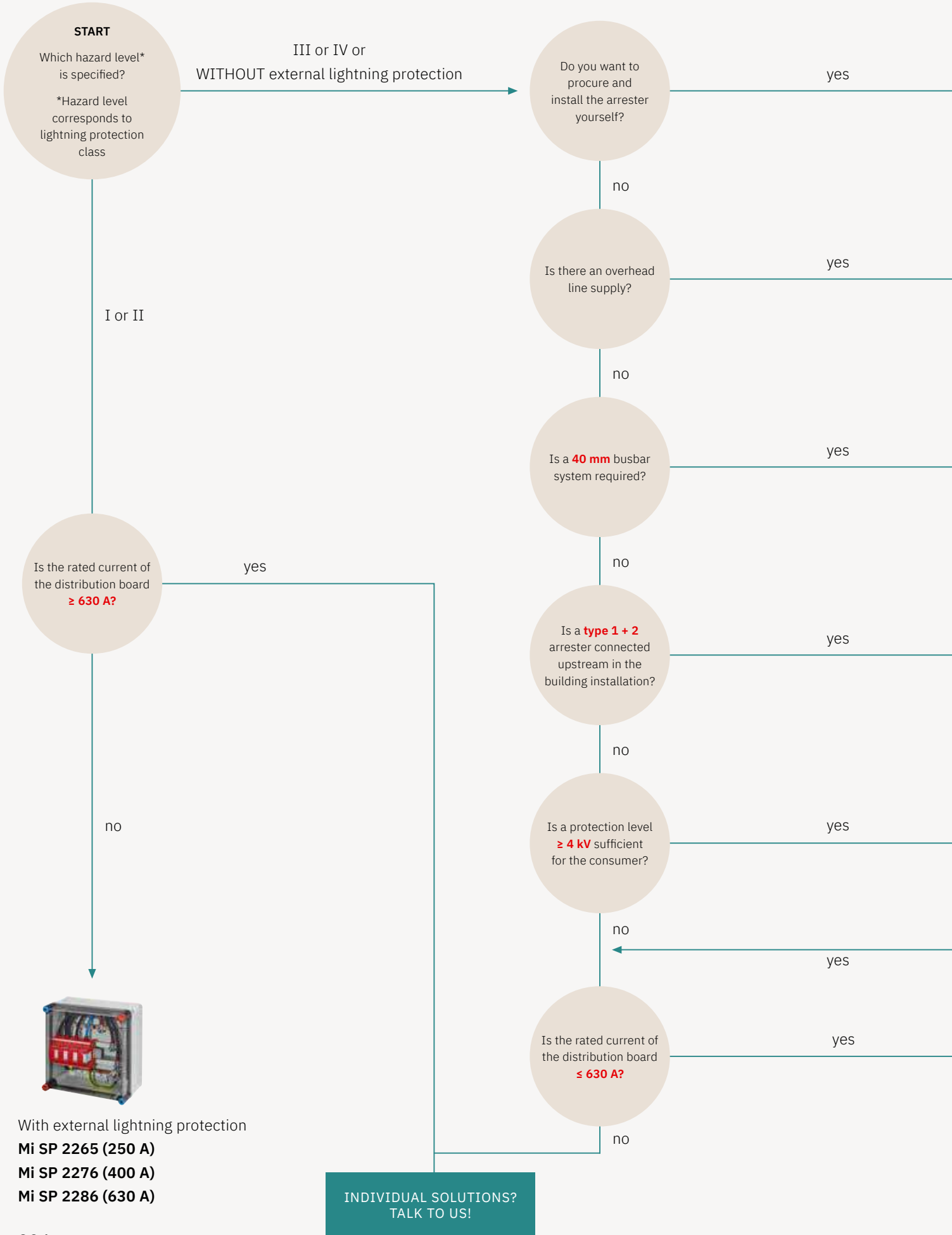
In consumer systems, the power dissipation fluctuates depending on the consumers that are switched on.

Continuously constant high loads result in an above-average power dissipation during the energy generation phase.

Low average effective power dissipation

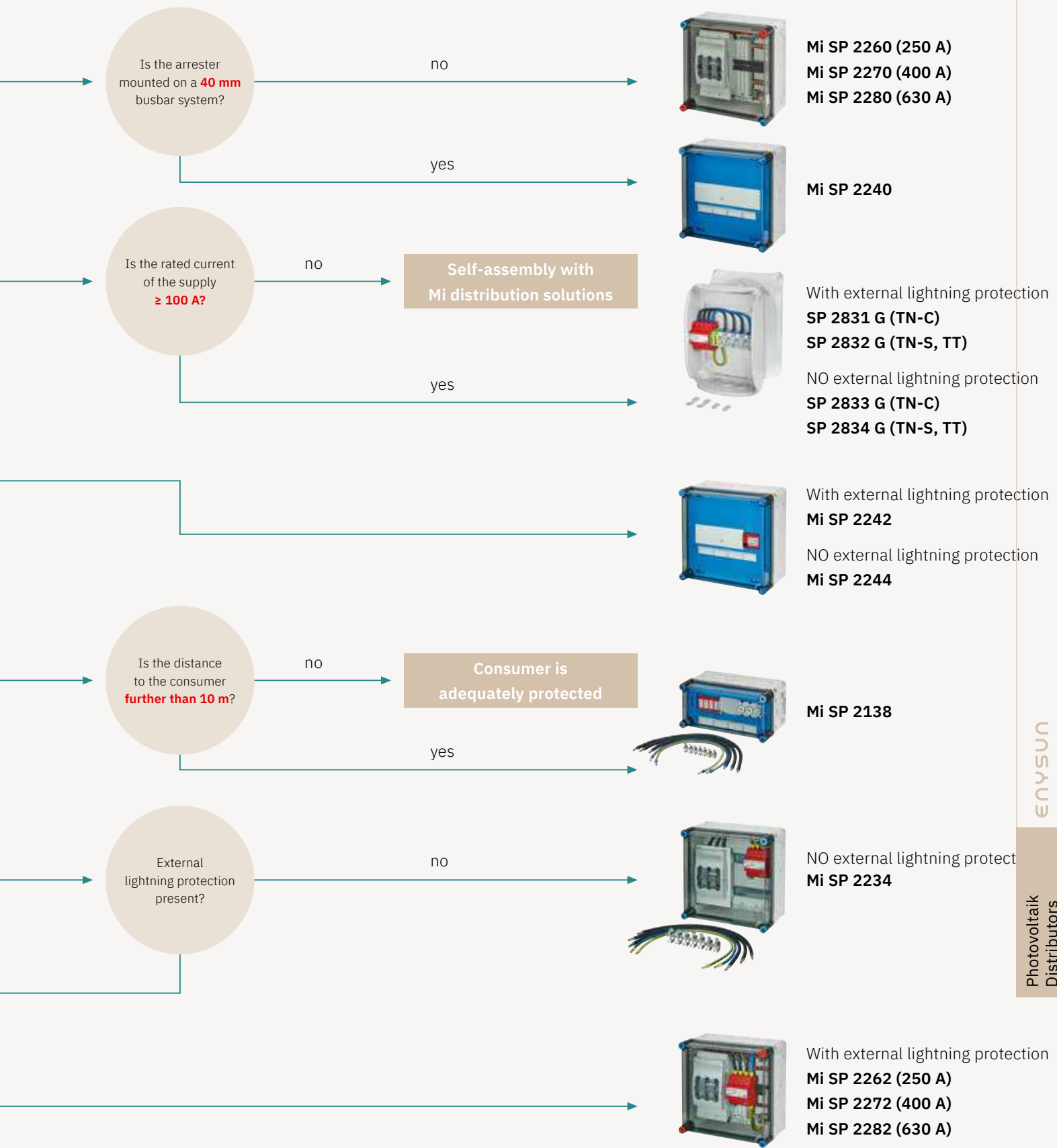
The power dissipation must therefore be reduced to such an extent that the maximum permissible temperature for devices is not exceeded.

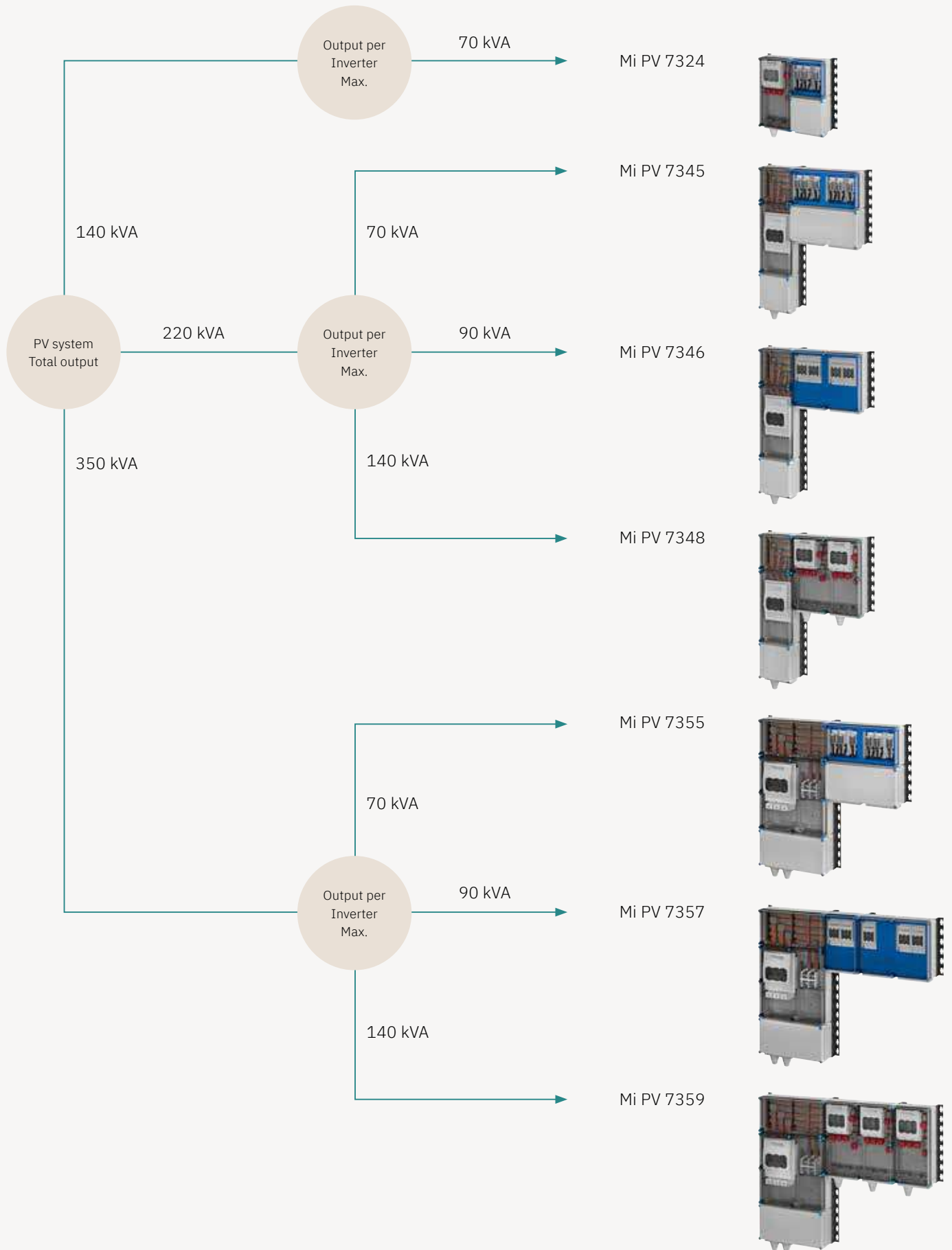




ENYSUN
Photovoltaik
Distributors

With external lightning protection
Mi SP 2265 (250 A)
Mi SP 2276 (400 A)
Mi SP 2286 (630 A)



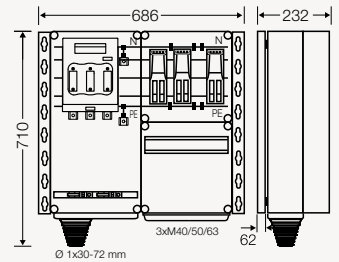




Mi PV 7324

Rated power 140 kVA

- + ready for connection
- + Incoming cables: for inverters up to 70 kVA, 3~
Rated operating current 100 A AC
per inverter
- + max. 3 x 3~ inverters
- + HRC 000 fuse switch disconnecter, 3-pole
Connection: 2.5-16 mm² per phase,
single-strand, round, Cu
2.5-50 mm² per phase, multi-strand, round, Cu
1 terminal per PE+N, 4-35 mm², single- and multi-strand,
round, Cu
- + Outgoing line: HRC 1 switch disconnectors,
3-pole with isolating blades
1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand,
round and sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + Order cable entries separately
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product
range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 200 \text{ A}$
Rated current of a circuit	$I_{nC} = 100 \text{ A}$ The sum of the I_{nC} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 15 \text{ kA} / 1 \text{ s}$ with fuse links

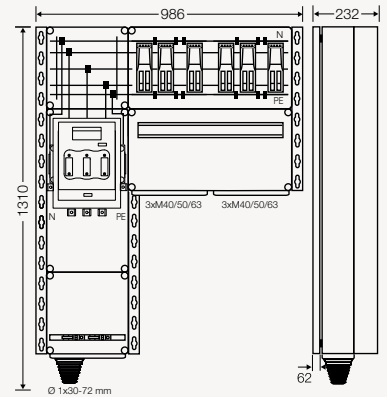




Mi PV 7345

Rated power 220 kVA

- + ready for connection
- + Incoming cables: for inverters up to 70 kVA, 3~
Rated operating current 100 A AC
per inverter
- + max. 6 x 3~ inverters
- + HRC 000 fuse switch disconnecter, 3-pole
Connection: 2.5-16 mm² per phase,
single-strand, round, Cu
2.5-50 mm² per phase, multi-strand, round, Cu
1 terminal per PE+N, 4-35 mm², single- and
multi-strand, round, Cu
- + Outgoing line: HRC 2 switch disconnectors,
3-pole with isolating blades
1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand,
round and sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + Order cable entries separately
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product
range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 320 \text{ A}$
Rated current of a circuit	$I_{nC} = 100 \text{ A}$ The sum of the I_{nC} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 15 \text{ kA} / 1 \text{ s}$ with fuse links

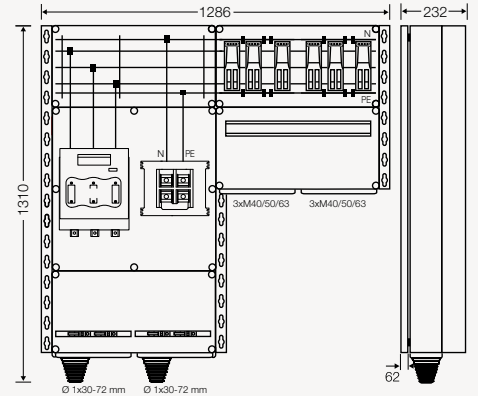




Mi PV 7355

Rated power 350 kVA

- + ready for connection
- + Incoming cables: for inverters up to 70 kVA, 3~ Rated operating current 100 A AC per inverter
- + max. 6 x 3~ inverters
- + HRC 000 fuse switch disconnecter, 3-pole
Connection: 2.5-16 mm² per phase, single-strand, round, Cu
2.5-50 mm² per phase, multi-strand, round, Cu
1 terminal per PE+N, 4-35 mm², single- and multi-strand, round, Cu
- + Outgoing line: HRC 3 switch disconnectors, 3-pole with isolating blades
1 terminal per PE+N
Connection: 1x120-300 mm², multi-strand, round and sector-shaped, Cu and Al
2x95-185 mm², single- and multi-strand, sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + Order cable entries separately
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 500 \text{ A}$
Rated current of a circuit	$I_{nc} = 100 \text{ A}$ The sum of the I_{nc} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 21 \text{ kA} / 1 \text{ s}$ with fuse links

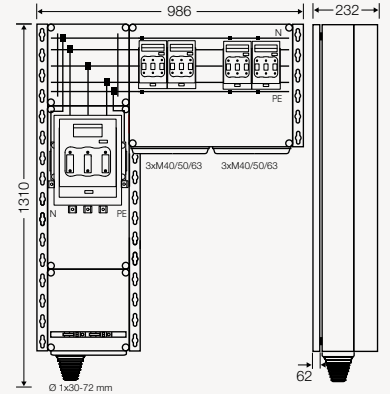




Mi PV 7346

Rated power 220 kVA

- + ready for connection
- + Incoming cables: for inverters up to 90 kVA, 3~
Rated operating current 128 A AC
per inverter
- + max. 4 x 3~ inverters
- + HRC 00 fuse switch disconnector, 3-pole
Connection: 1.5-10 mm² per phase,
single-strand, round, Cu
16-70 mm² per phase, multi-strand, round, Cu
1 terminal per PE+N, 4-35 mm²,
single- and multi-strand, round, Cu
- + Outgoing line: HRC 2 switch disconnectors,
3-pole with isolating blades
1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand,
round and sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + Order cable entries separately
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product
range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 320 \text{ A}$
Rated current of a circuit	$I_{nc} = 128 \text{ A}$ The sum of the I_{nc} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 15 \text{ kA} / 1 \text{ s}$ with fuse links

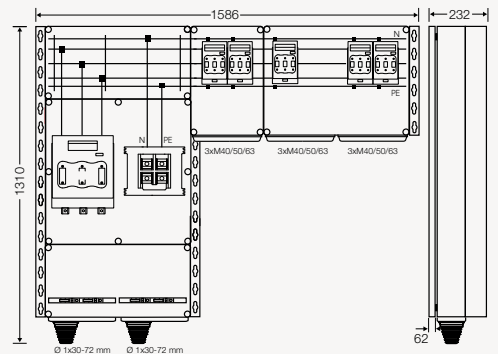




Mi PV 7357

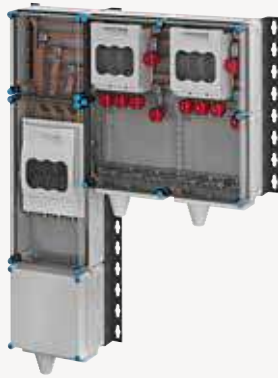
Rated power 350 kVA

- + ready for connection
- + Incoming cables: for inverters up to 90 kVA, 3~Rated operating current 128 A AC per inverter
- + max. 5 x 3~ inverters
- + HRC 00 fuse switch disconnecter, 3-pole
Connection: 1.5-10 mm² per phase, single-strand, round, Cu
16-70 mm² per phase, multi-strand, round, Cu 1 terminal per PE+N, 4-35 mm², single- and multi-strand, round, Cu
- + Outgoing line: HRC 3 switch disconnectors, 3-pole with isolating blades
1 terminal per PE+N
Connection: 1x120-300 mm², multi-strand, round and sector-shaped, Cu and Al
2x95-185 mm², single- and multi-strand, sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + Order cable entries separately
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 500 \text{ A}$
Rated current of a circuit	$I_{nc} = 128 \text{ A}$ The sum of the I_{nc} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 21 \text{ kA} / 1 \text{ s}$ with fuse links

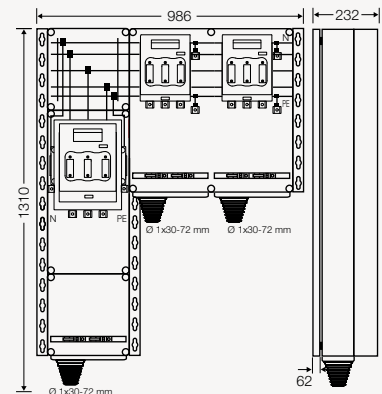




Mi PV 7348

Rated power 220 kVA

- + ready for connection
- + Incoming cables: for inverters up to 140 kVA, 3~
Rated operating current 200 A AC
per inverter
- + max. 2 x 3~ inverters
- + HRC 1 fuse switch disconnecter, 3-pole
1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand,
round and sector-shaped, Cu and Al
- + Outgoing line: HRC 2 switch disconnectors,
3-pole with isolating blades
1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand,
round and sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product
range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 320 \text{ A}$
Rated current of a circuit	$I_{nc} = 200 \text{ A}$ The sum of the I_{nc} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cw} = 15 \text{ kA} / 1 \text{ s}$ with fuse links

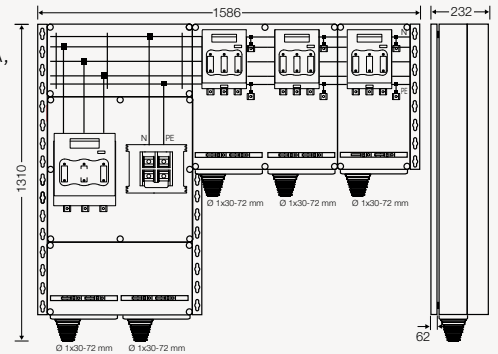




Mi PV 7359

Rated power 350 kVA

- + ready for connection
- + Incoming cables: for inverters up to 140 kVA, 3~Rated operating current 200 A AC per inverter
- + max. 3 x 3~ inverters
- + HRC 1 fuse switch disconnecter, 3-pole 1 terminal per PE+N
Connection: 25-300 mm², single- and multi-strand, round and sector-shaped, Cu and Al
- + Outgoing line: HRC 3 switch disconnectors, 3-pole with isolating blades 1 terminal per PE+N
Connection: 1x120-300 mm², multi-strand, round and sector-shaped, Cu and Al
2x95-185 mm², single- and multi-strand, sector-shaped, Cu and Al
- + Supply and outgoing lines from below
- + without fuse links
- + INV combiner mounted on mounting profile rail
- + Extendable with boxes and accessories from the Mi product range (ENYMOD)



Rated voltage	$U_n = 230/400 \text{ V AC}$
Rated current of the switchgear combination	$I_{nA} = 500 \text{ A}$
Rated current of a circuit	$I_{nC} = 200 \text{ A}$ The sum of the I_{nC} must not be greater than I_{nA} .
RDF (Rated Diversity Factor)	1
Rated short-time withstand current	$I_{cW} = 21 \text{ kA} / 1 \text{ s}$ with fuse links



PHOTOVOLTAIC

INVERTER COLLECTOR UP TO 560 kVA MADE OF INSULATING MATERIAL IN PROTECTION CLASS II, DEGREE OF PROTECTION UP TO IP 65





PHOTOVOLTAIC

INVERTER COLLECTOR UP TO 2800 kVA MADE OF SHEET STEEL IN PROTECTION CLASS II, DEGREE OF PROTECTION UP TO IP 54



INDIVIDUAL SOLUTIONS?
TALK TO US!



ENYSUN ACCESSORIES

For further accessories for ENYSUN photovoltaic solutions,
see the Hensel main catalogue - Mi tab.

For cable entries, see the Hensel main catalogue - LES tab.





DA 300

Terminal for direct connection up to 400 A
max. 300 mm²

- + for mounting onto switchgear with flat contact M10
- + with insulating cover
- + Rated connecting capacity: 25-300 mm² s/sol, Cu/Alu
- + Aluminium conductors must be prepared before connection according to the relevant technical recommendations: see technical information on aluminium conductors.

Tightening torque of terminal	32.0 Nm
-------------------------------	---------



MS HRC 00

Fuse switch disconnectors 160 A, HRC 00,
3-pole for mounting on busbars

- + for replacement and supplementation in Mi fuse boxes
- + Height: 200 mm x width: 106 mm
- + Connection: 1.5-70 mm², Cu, round conductor
connection to wiring strip Mi VS 100/160

Rated voltage	U _n = 690 V AC
Busbar thickness	10 mm
Centreline spacing of busbars	60 mm
Tightening torque of terminal	6.0 Nm frame terminal



Mi BA 6

Blanking cover in Mi-HRC 00 screw-type fuse box

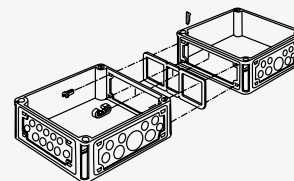
- + for closing covers
- + Width: 108 mm



Mi WD 2

Wall gasket for box walls 150/300 mm

- + for the assembly of Mi boxes
- + consists of 1 seal, 4 wedge connectors, 1 clamp



Mi SV 25

Busbar connector for busbars 250 A, 5-pole

- + with wall gasket
- + for the assembly of Mi boxes containing busbars
- + Busbars 250 A and 400 A can be connected with busbar connector Mi SV 25. Connection of busbars with different rated currents only under consideration of corresponding short-circuit and overload conditions.



Tightening torque of terminal	6.0 Nm
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Mi SV 45

Busbar connector for busbars 400/630 A, 5-pole

- + with wall gasket
- + for the assembly of Mi boxes containing busbars

Tightening torque of terminal	10.0 Nm
-------------------------------	---------



AS 12

Blanking strip 12 modules

- + 12 x 18 mm, divisible every 9 mm
- + For closing unused device cut-outs, for material thickness up to 3 mm



Mi FM 25

Mounting flange, knockout 19 x M 16/25

- + Box wall 300 mm
- + with fixing wedges and seal



Mi FM 32

Mounting flange,
knockout 8 x M 25/32, 1 x M 25/32/40

- + Box wall 300 mm
- + with fixing wedges and seal



Mi FM 40

Mounting flange,
knockout 2 x M 25/32, 5 x M 32/40

- + Box wall 300 mm
- + with fixing wedges and seal



Mi FM 50

Mounting flange,
knockout 2 x M 20, 4 x M 32/40/50

- + Box wall 300 mm
- + with fixing wedges and seal



Mi FM 60

Mounting flange, knockout 3 x M 40/50/63

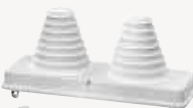
- + Box wall 300 mm
- + with fixing wedges and seal



Mi FP 70

Cable entry flange
sealing range 1 x Ø 30-72 mm

- + Box wall 300 mm
- + with fixing wedges and seal



Mi FP 72

Cable entry flange
sealing range 2 x Ø 30-72 mm

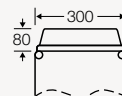
- + Box wall 300 mm
- + with fixing wedges and seal



Mi FM 63

Mounting flange with room for manoeuvre
Knockout 3 x M 40/50/63

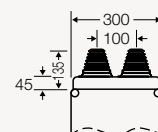
- + Box wall 300 mm
- + with fixing wedges and seal



Mi FP 82

Cable insert
sealing range 2 x each Ø 30-72 mm

- + Box wall 300 mm
- + Divisible
- + Degree of protection IP 54 only when using additional strain and pressure relief (e.g. Mi ZE 62)



Mi ZE 62

Cable strain relief clamp
for 2 cables max. Ø 60 mm

- + with fixing rail 284 mm long
- + to be used only in connection with cable insertion Mi FP 82



AKM 12

Mounted cable glands for M 12 knockouts

- + Sealing range Ø 4-6 mm
- + ISO thread M 12 x 1.5
- + Bore-hole Ø 12.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	0.9 Nm
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AKM 16

Mounted cable glands for knockouts M 16

- + Sealing range Ø 5-10 mm
- + ISO thread M 16 x 1.5
- + Bore-hole Ø 16.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	3.0 Nm
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AKM 20

Mounted cable glands for M 20 knockouts

- + Sealing range Ø 6.5-13.5 mm
- + ISO thread M 20 x 1.5
- + Bore-hole Ø 20.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	4.0 Nm
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AKM 25

Mounted cable glands for M 25 knockouts

- + Sealing range Ø 11-17 mm
- + ISO thread M 25 x 1.5
- + Bore-hole Ø 25.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	7.5 Nm
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AKM 32

Mounted cable glands for M 32 knockouts

- + Sealing range Ø 15-21 mm
- + ISO thread M 32 x 1.5
- + Bore-hole Ø 32.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	10.0 Nm
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AKM 40

Mounted cable glands for M 40 knockouts

- + Sealing range Ø 19-28 mm
- + ISO thread M 40 x 1.5
- + Bore-hole Ø 40.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	10.0 Nm
-------------------	---------



AKM 50

Mounted cable glands for knockouts M 50

- + Sealing range Ø 27-35 mm
- + ISO thread M 50 x 1.5
- + Bore-hole Ø 50.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	10.0 Nm
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AKM 63

Mounted cable glands for knockouts M 63

- + Sealing range Ø 35-42 mm
- + ISO thread M 63 x 1.5
- + Bore-hole Ø 63.3 mm
- + Wall thickness up to 3 mm, with strain relief and locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + Glow wire test IEC 60695-2-11: 960 °C
- + Colour: grey, RAL 7035



IP
66/67

IP
69

Tightening torque	10.0 Nm
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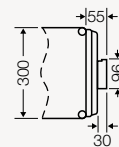


IP
44

Mi BF 44

Ventilation flange for installation on box walls

- + Box wall 300 mm
- + for ventilation of Mi distributors at extremely high interior temperatures or where there is a risk of condensation formation



IP
44

BE 44

Ventilation insert

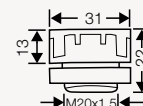


IP
54

BM 20G

Pressure equalising element for M 20 knockouts

- + to reduce condensation through pressure compensation in distribution systems.
- + ISO thread M 20 x 1.5
- + Bore-hole Ø 20.3 mm
- + Wall thickness up to 4 mm, with locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + To ensure that the leakage limit of 0.07 bar is not exceeded during pressure compensation, a BM 20G pressure equalisation element must be used for every 28 litres (28,000 cm³) of box volume.
- + Example: Box 30 cm x 60 cm x 17 cm = 30,600 cm³ = 30.6 litres.
- + Subject to technical changes without notice
- + Colour: grey, RAL 7035

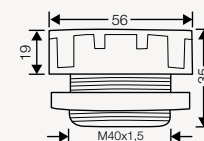


IP
54

BM 40G

Pressure equalisation element for M 40 knockouts

- + to reduce condensation through pressure compensation in distribution systems.
- + ISO thread M 40 x 1.5
- + Bore-hole Ø 40.3 mm
- + Wall thickness up to 8 mm, with locknut
- + For indoors and protected outdoor installation
- + Ambient temperature - 25 °C to + 55 °C
- + To ensure that the leakage limit of 0.07 bar is not exceeded during pressure compensation, a BM 40G pressure equalisation element must be used for every 122 litres (122,000 cm³) of box volume.
- + Example: Box 60 cm x 60 cm x 17 cm = 61,200 cm³ = 61.2 litres.
Number of BM 40G required = 1 item
- + Subject to technical changes without notice
- + Colour: grey, RAL 7035



Application



Ventilation via ventilation flange or insert

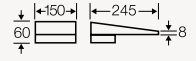


Pressure equalising element



Mi DB 15
Canopy for box wall 150 mm

- + with fixing wedges and seal
- + suitable for unprotected outdoor installation, UV-resistant
(see operating and ambient conditions in the Technical Appendix)

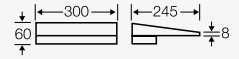


Material	Stainless steel, powder-coated
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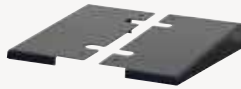


Mi DB 30
Canopy for box wall 300 mm

- + with fixing wedges and seal
- + suitable for unprotected outdoor installation, UV-resistant
(see operating and ambient conditions in the Technical Appendix)

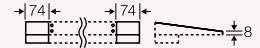


Material	Stainless steel, powder-coated
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Mi DB 01
Canopy end angle

- + for canopies FP DB xx and Mi DB xx



Material	Stainless steel, powder-coated
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DEW GUARD HDG 050

- + dimensions H x W : 50 x 75 mm
- + Temperature range : - 30 °C to 90 °C



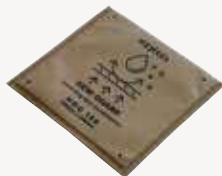
DEW GUARD HDG 075

- + dimensions H x W : 75 x 100 mm
- + Temperature range : - 30 °C to 90 °C



DEW GUARD HDG 100

- + dimensions H x W : 100 x 150 mm
- + Temperature range : - 30 °C to 90 °C



DEW GUARD HDG 150

- + dimensions H x W : 150 x 150 mm
- + Temperature range : - 30 °C to 90 °C



Mi PL 2
Sealing cap

+ 2 sealing caps for converting the lid fasteners



Mi SR 4
Conversion kit from manual to tool operation

+ 4 fastening covers



Mi SN 4
Conversion kit from tool to manual operation

+ 4 manual operations



Mi DV 01
Locking device insertion

+ only in connection with Mi PL 2, Mi SR 4, Mi SN 4 or Mi SV 2



Mi DR 04
Lid fastener for tool operation triangle 8 mm

+ Used in place of the manual or tool-operated fastener to prevent unauthorised opening of the lids.

+ 4 locking devices with triangle 8 mm and key



DS 1
Triangular key 8 mm

+ for box sizes 1 to 6

+ for 2 lid attachment tubes



Mi SA 2
Dust protection cover

+ for box sizes 1 to 6

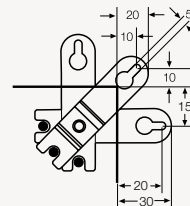
+ for 2 lid attachment tubes



Mi AL 40

4 stainless steel external brackets

+ for external box fastening

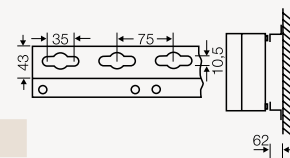


Mi MS 2

Wall mounting profile rail

+ for Mi distribution board assemblies up to 900 x 1200 mm

+ with 8 M6 x 16 screws, washers and nuts
for attaching the box



Length	1950 mm
Material	Steel profile sendzimir-galvanised and coated with structural powder

ENYSUN TECHNICAL APPENDIX



Products	Material used	Glow wire test IEC 60695-2-11	UL Subject 94	Temperature resistance	Chemical resistance ¹⁾					
					Acid 10%	Alkali 10%	Alcohol	Petrol (MAC) ²⁾	Benzene (MAC) ²⁾	Mineral oil
Mi bottom parts ...	PC (polycarbonate) (with GFS)	960 °C	V-0	- 40 °C / + 120 °C	+	+	0	+	-	+
Mi lid ... Small distribution board door and flap ...	PC (polycarbonate)	960 °C	V-0	- 40 °C / + 120 °C	+	+	0	+	-	+
Small distribution board ...	PS (polystyrene)	750 °C	V-2	- 40 °C / + 70 °C	+	+	+	-	-	0
Small distribution board seal ... / Mi FP ...	TPE (thermoplastic elastomer)	750 °C	-	- 25 °C / + 100 °C	+	+	+	0	0	0
Small distribution board seal ... / Mi ...	PUR (polyurethane)	-	-	- 25 °C / + 80 °C	0	+	0	0	-	+
AKM ... / BM ...	PA (polyamide)	960 °C	V-0	- 40 °C / + 100 °C	+	0	+	+	+	+
AKM seal ...	CR/NBR (polychloroprene nitrile rubber)	-	-	- 20 °C / + 100 °C	+	+	+	0	-	0
(+ = stable; 0 = conditionally stable; - = unstable)										

1) The information on chemical resistance is used for orientation. In individual cases, a check in conjunction with other chemicals and environmental conditions (temperature, concentration etc.) is required.

2) (MAC) - maximum allowable (workplace) concentration

	KV PV ... Mi PV ... Mi AE ...	AKM mounted cable glands
Field of application	Suitable for indoor and protected outdoor installation in accordance with DIN VDE 0100, part 737 However, the climatic effects on the installed equipment must be considered, for example high or low ambient temperatures or condensation water formation (see technical information).	
Ambient temperature	+ 35 °C	+ 55 °C
+ Average value over 24 hours	+ 40 °C	+ 70 °C
+ Maximum value	- 5 °C	- 25 °C
+ Minimum value		
Relative humidity	50% at 40 °C	
+ for a short time	100% at 25 °C	
Fire protection for internal faults	Demands placed on electrical devices from standards and laws Minimum requirements - Glow wire test in accordance with IEC 60695-2-11: - 650 °C for box and cable entries - 850 °C for live parts	
Burning behaviour	960 °C	960 °C
+ Glow wire test	V-2	V-0
IEC 60 695-2-11	Flame-retardant	Flame-retardant
+ UL Subject 94	Self-extinguishing	Self-extinguishing
Degree of protection against mechanical stress	IK 08 (5 joules)	
Toxic behaviour	Halogen-free Silicone-free	

¹⁾ "Halogen-free" according to the test on cables and insulated lines - corrosivity of combustion gases - according to IEC 754-2.

**PV connection boxes,
PV inverter collectors and isolators
meet the requirements for power
switchgear combinations (PSC)
in accordance with IEC 61439-2
standards and regulations**

Switchgear combinations are switchgear assemblies that are assembled and wired without any significant deviation from the original type or system as specified by the original manufacturer. In order to meet these conditions for Hensel Mi distributors, the following must be observed:

- 1 The switchgear must consist of the enclosures documented in this list.
- 2 The wiring of the equipment must be carried out using the conductor cross-sections and conductor types specified in the table “Design of insulated conductors in switchgear” (see main catalogue, Technical tab or www.hensel.in).
- 3 After completion of the switchgear, a routine test must be carried out in accordance with this standard.
- 4 This test must be certified with a test report.
- 5 The switchgear must be marked with a manufacturer’s identification. Compliance with key metrics such as e.g.

- + the limit overtemperature
- + the insulation strength
- + the short-circuit withstand capacity
- + the short-circuit withstand capacity of the protective conductor
- + the IP degrees of protection
- + the creepage distances and clearances etc. are proven for this system.

**Standards and
regulations**

- + IEC 61439-2
Low-voltage switchgear and controlgear assemblies (PSC)
- + IEC 60999
Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units
- + IEC 50262
Metric cable glands for electrical installations
- + IEC 60269
Low-voltage fuses
- + DIN 43880
Built-in equipment for electrical installations; overall dimensions and related mounting dimensions
- + IEC 60529
Degrees of protection provided by enclosures (IP Code)
- + DIN VDE 0100-712
Requirements for special installations or locations - Solar photovoltaic (PV) power supply systems

The external diameters are averages of various makes.

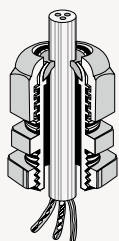
Cable cross-section mm ²	NYM mm Ø	NYY mm Ø	NYCY NY- CWY mm Ø	NAYY mm ²	Cable cross-section mm ²	NYM mm Ø	NYY mm Ø	NYCY NY- CWY mm Ø	NAYY mm ²
1x4	6.4-6.6	9-9.1			4x1.5	8.8-9.8	12-13	13.2-13.5	
1x6	6.8-7.2	9-9.5			4x2.5	10.2-11.3	13.2-14	14.2-14.5	
1x10	8.8-8.4	10-10.2			4x4	12.1-13	15-16	16.5	
1x16	9.1-9.9	11-11.2		10.5	4x6	16.1-17.6	16.3-17	17.5	
1x25	12-12.3	12-13		12	4x10	19-21.3	18.5-19	19.5-20	
1x35		13-14		13-13.5	4x16	19-21.3	21-21.5	21.4-23	23-24
1x50		15-16		15,15.5	4x25	23.4-25.8	25.5-26	26	25-26
1x70		16.4-17		16.5-17	4x35	25.7-28.5	27.5-28	27.5	28-28.5
1x95		18.5-19		19	4x50		29.8-30.5	29.5	29.5-30
1x120		20.5-21		20-20.5	4x70		33.8-34.5	34	35
1x150		22.5-23		22-22.5	4x95		38.9-39	38-38.5	39-39.5
1x185		24.6-25		25	4x120		42-42.5	42	43-44
1x240		27-28		28	4x150		47-47.5	46	46
1x300		29.7-30		30	4x185		52	51	51
2x1.5	8.7	11-12			4x240		58		56
2x2.5		12-12			4x300		62.4		64-65.5
2x4		14-15			4x25/16			27.6-28	
2x6		15			4x35/16			28.6-29	
2x10		16.5-17	11		4x50/25			33	
2x16		18.5-19	12		4x70/35			37	
2x25		23-23.5			4x95/50			43-43.9	
2x35					4x120/70			47	
3x1.5	8.2-9.1	11.2-12	13		4x150/70			51	
3x2.5	9.4-10.4	12.2-13	13.5		4x185/95			56	
3x4	10.8-12	14-15	15.5		4x240/120			62.5-63	
3x6	12.2-13	15-16	17		4x300/150				
3x10	14.7	17-18	19-19.5		5x1.5	9.5-10.3	13-14	14.5	
3x16		19-20	20.5-21		5x2.5	11-12	14.2-15	15.5	
3x25		24	24-25		5x4	13.2-14.5	16.3-17	17	
3x35		22.6-25.4			5x6	14.5-16.1	18-19	18.5	
3x50		26.5			5x10	17.7-19.2	19.5-21	20.5-21	19.3-22
3x70		29.7-30			5x16	21.2-23.4	22.4-23	23-23.5	22.5-25
3x95		33.8-34.5			5x25	25.7-28.7	27.5-29		27.1-28
3x120		35.8-37			5x35	33.5	33.6-35		30.2-31
3x150		39, 8-40			5x50		40-41		35-36.2
3x185		46			5x70		42-48		40-44
3x240		51			5x95		50-50.3		45-47
3x25/16		24.5	25.5-26		5x120		51.3		49-53
3x35/16		28	27-27.5		5x150		58.5		56-57.8
3x50/25		28.7-29	28.7-29.5		5x185				59
3x70/35		32	33		5x240				71
3x95/50		37.8-38	38		7x1.5	10.5-11.5	15.5-15		
3x120/70		41	41		7x2.5	12.6-13.2	16.5-17		
3x150/70		45-46	45		19x1.5		22-22.5		
3x185/95		50-51	50		19x2.5		23-23.5		
3x240/120		57-58	57		24x1.5		25-25.5		
3x300/150		64			24x2.5		27-27.5		

Short designations of cables and lines

NYM	Sheathed cable
NYY/NAYY	Cable with plastic sheath
NYCY	Cable with concentric conductor and plastic sheath
NYCWY	Cable with concentric, wave-shaped conductor and plastic sheath

AKM/ASS mounted cable glands

Degree of protection IP 66 / IP 67 / IP 69
with strain relief and locknut

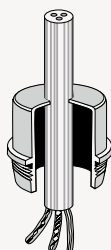


Cable external diameter		Cable entry metric
min. mm Ø	max. mm Ø	
4	6	AKM 12
5	10	AKM 16
6.5	13.5	AKM 20
11	17	AKM 25
15	21	AKM 32
19	28	AKM 40
27	35	AKM 50
35	42	AKM 63
2	5	ASS 12
3	10	ASS 16
5	13	ASS 20
8	17	ASS 25
12	21	ASS 32
16	28.5	ASS 40
21	35	ASS 50
20	48	ASS 63

ESM plug-in grommets

Degree of protection IP 55

Plug-in grommets are inserted into
the extended opening. No locknut is
required!

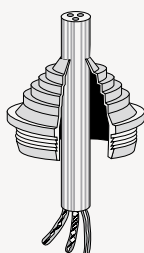


Cable external diameter		Cable entry metric
min. mm Ø	max. mm Ø	
4.8	11	ESM 16
6	13	ESM 20
9	17	ESM 25
9	23	ESM 32
17	30	ESM 40

STM stepped grommets

Degree of protection IP 55

Stepped grommets are inserted into
the extended opening. No locknut is
required!

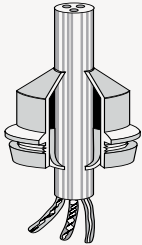


Cable external diameter		Cable entry metric
min. mm Ø	max. mm Ø	
3.5	12	STM 16
5	16	STM 20
5	21	STM 25
13	26.5	STM 32
13	34	STM 40

EDK plug-in grommets

Degree of protection IP 65

Plug-in grommets are inserted into the extended opening. No locknut is required!

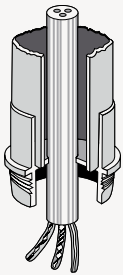


Cable external diameter		Cable entry metric
min. mm Ø	max. mm Ø	
5	10	EDK 16
6	13	EDK 20
9	17	EDK 25
8	23	EDK 32
11	30	EDK 40

EDR grommets for conduits

Degree of protection IP 65

Plug-in grommets for conduits are inserted into the extended opening. No locknut is required!



Cable external diameter		Cable entry metric
min. mm Ø	max. mm Ø	
Conduit connection		
M16		EDR 16
M20		EDR 20
M25		EDR 25
M32		EDR 32
M40		EDR 40

Hensel cable entries comply with the following standards and regulations:

- + IEC 62444
Cable glands for electrical installations
- + IEC 60423
Outside diameters of conduits for electrical installations and threads for conduits and fittings
- + IEC 60529
Degrees of protection provided by enclosures (IP Code)

Definition of terms

The IEC 61439-1 standard specifies rated values for the manufacture of low-voltage switchgear assemblies.

Rated voltage (U_n)

The highest rated mains voltage, AC voltage (RMS) or DC voltage specified by the manufacturer of the switchgear combination for which the mains circuits of the switchgear combination are designed.

Rated operating voltage (U_e) (of a switchgear combination circuit)

The voltage value specified by the manufacturer of the switchgear combination which, combined with the rated current, determines the use.

Rated insulation voltage (U_i)

Withstand voltage (RMS) specified by the manufacturer of the switchgear combination for a device or part thereof and indicating the defined (long-term) stability of its associated insulation.

Rated surge voltage (U_{imp})

The value of a surge voltage specified by the manufacturer of the switchgear combination which indicates the defined resistance of the insulation to transient overvoltages.

Rated current (I_n)

The value of the current specified by the manufacturer of the switchgear combination which can be carried under specified conditions without exceeding the specified excess temperatures of the various parts of the switchgear combination.

Unaffected short-circuit current (I_{cp})

RMS value of the current that flows when the supply line to the circuit is short-circuited by a conductor with negligible impedance in the immediate vicinity of the connections of the switchgear combinations.

Rated peak withstand current resistance (I_{pk})

The maximum instantaneous value of the short-circuit current specified by the manufacturer of the switchgear combination which is maintained under the specified conditions.

Rated short-time withstand current resistance (I_{cw})

The RMS value of the short-time current specified by the manufacturer of the switchgear combination, expressed as current and time, which can be withstood without damage under specified conditions.

Conditional rated short-circuit current (I_{cc})

The value of the unaffected short-circuit current that the circuit protected by a short-circuit protective device (SCPD) can withstand during the total switch-off time (current flow duration) of the device under specified conditions, as specified by the manufacturer of the switchgear combination.

Rated current of the power switchgear and controlgear assembly (I_{nA})

The rated current of the power switchgear and controlgear assembly is the smaller of:

- + the sum of the rated currents of the infeeds operated in parallel within the switchgear combination;
- + the total current that the main busbar can distribute in the respective configuration of the switchgear combination.

The current must be able to be carried without the heating of the individual parts exceeding the limits laid down in the standard.

Rated current of a circuit (I_{nc})

The rated current of a circuit is the value of the current that can be carried by that circuit under normal operating conditions when operated alone. This current must be able to be carried without the excess temperatures of the individual components of the switchgear combination exceeding the limits specified in the standard.

RDF (Rated Diversity Factor)

Percentage value of the rated current specified by the manufacturer of the switchgear combination with which the outlets of a switchgear combination can be subjected to constant stress, taking into account the mutual thermal influences.



Enquiry / quotation Order Hensel consultant: _____ Date: _____

Client:	Project:
Name: _____	_____
Address: _____	_____
_____	_____
Telephone: _____	_____
E-mail: _____	_____

- | | |
|---|------------------------------------|
| + Protection class II <input checked="" type="checkbox"/> | + Lid fasteners for tool operation |
| + ready for connection | + Material: Thermoplastic |
| + with stainless steel external brackets | + Colour: grey, RAL 7035 |
| | + Degree of protection: IP 65 |

Quantity of PV connection boxes (items): _____

Installation and environmental conditions

Ambient temperature (°C): _____

Installation

- | | |
|---|---|
| + Interior space: <input type="checkbox"/> in the locked electrical operating room | <input type="checkbox"/> in operation |
| + Open-air: <input type="checkbox"/> protected outdoors | <input type="checkbox"/> unprotected outdoors |

Available wall space in mm: Width: _____ Height: _____ Depth: _____

System type: wall-mounted distribution board free-standing distribution board

Degree of protection: IP 44 IP 54 IP 55 IP 65 IP _____

Inverter connection

Rated voltage (U_{OC STC}) _____ V DC

Inverter inputs (MPP tracker): 1 2 3 _____

DC generator circuit breaker: yes no

Cable connection: Multi-contact MC4 _____
 screw fittings and terminals

Cross-section (mm²) of the cable: _____

Surge protection: no yes Type 1 Type 2 Remote signalling contact

Manufacturer: Dehn _____

Earthing conductor type and Cross-section of the cable: NYY 1 x 16 mm² _____

Cable entry: Mounted cable glands

String connection

Number of strings per box: 1 2 3 4 _____

Current per string: 15 A 30 A _____

String fuse: yes no

Cable connection: Multi-contact MC4 _____
 screw fittings and terminals

Cross-section (mm²) of the cable: _____

Enquiry / quotation Order Hensel consultant: _____ Date: _____

Client: _____ **Project:** _____
 Name: _____
 Address: _____
 Telephone: _____
 E-mail: _____

- + Protection class II
- + ready for connection
- + Material: Thermoplastic
- + Colour: grey, RAL 7035

Selection of PV inverter collectors (items): _____

Installation and environmental conditions

Ambient temperature (°C): _____

Installation

- + **Interior space:** in the locked electrical operating room in operation
- + **Open-air:** protected outdoors unprotected outdoors

Available wall space in mm: Width: _____ Height: _____ Depth: _____

System type: wall-mounted distribution board free-standing distribution board

Degree of protection: IP 44 IP 54 IP 55 IP 65 IP _____

Connection to the electrical mains

Rated voltage _____ V AC _____ Hz Rated current _____ A
 Conductor designations: L1, L2, L3 N PE PEN
 Protection Class: I II
 Infeed device: HRC fuse switch disconnecter Switch disconnecter _____

Connection to incoming cables:

- from above from below from the left from the right _____
- Copper Aluminium
- with cable lug with terminal
- cable Single wire cross-section (mm²): _____

Circuits and consumers

Inverter connection:

- from above from below from the left from the right _____
- on the device with terminal blocks Cross-section (mm²) _____

Inverter (manufacturer/type): _____

Number (items): _____

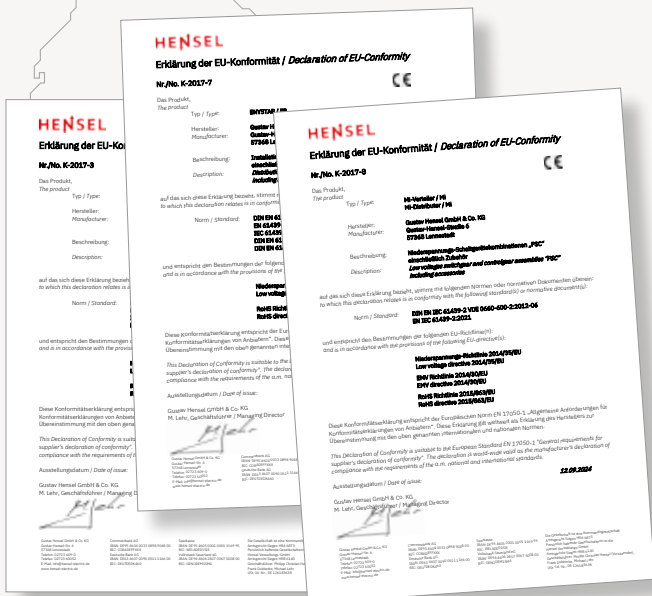
Output (kVA): _____

Current (A): _____

- Inverter connection (1-/3-): / / / /
- RCD (GFCI): no yes Type A Type B
- Line protection to the inverter: Circuit breaker Fuse element Fuse switch disconnecter
- Surge protection: no yes Type 1 Type 2 Remote signalling contact

Comments:





HEÑSEL
Erklärung der EU-Konformität / Declaration of EU-Conformity
 Nr./No. K-2017-1 CE

Das Produkt / The product
 Typ / Type: **DK ... KF ... KD ... D ... DE ... RD ... RK ... K ... DP ... KC ... DM ... DN ... KM ...**

Hersteller / Manufacturer: **Gustav Hensel GmbH & Co. KG
 Gustav-Hensel-Strasse 6
 D-57368 Lannaestadt**

Beschreibung / Description: **Kabelzweigenkasten einschließlich Zubehör
 Cable Junction Boxes including accessories**

auf das sich diese Erklärung bezieht, stimmt mit folgenden Normen oder normativen Dokumenten überein:
 to which this declaration relates is in conformity with the following standard(s) or normative document(s):

Norm / Standard: **DIN EN 60670-22 VDE 0606-22:2007-07
 EN 60670-22:2006
 IEC 60670-22:2003 + AMD1:2015**

und entspricht den Bestimmungen der folgenden EU-Richtlinie(n):
 and is in accordance with the provisions of the following EU-directive(s):

**Niederspannungs-Richtlinie 2014/35/EU
 Low voltage directive 2014/35/EU**
**RoHS Richtlinie 2015/863/EU
 RoHS directive 2015/863/EU**

Diese Konformitätserklärung entspricht der Europäischen Norm EN 17050-1 „Allgemeine Anforderungen für Konformitätserklärungen von Anbietern“. Diese Erklärung gilt weltweit als Erklärung des Herstellers zur Übereinstimmung mit den oben genannten internationalen und nationalen Normen.

This Declaration of Conformity is suitable to the European Standard EN 17050-1 "General requirements for supplier's declaration of conformity". The declaration is world-wide valid as the manufacturer's declaration of compliance with the requirements of the a.m. national and international standards.

Ausstellungsdatum / Date of issue: **12.09.2024**

Gustav Hensel GmbH & Co. KG
 M. Lehr, Geschäftsführer / Managing Director

(Signature)

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Commerzbank AG
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 BIC: COM433HAN

Sparkasse
 IBAN: DE 15 05 00 0000 0000 0000 1169 90
 BIC: SPA1333

Die Gesellschaft ist eine Kommanditgesellschaft
 Amtsgericht Siegen HRB 4873
 Handelsregister-Geschäftsleiterin: die
 Hensel Verwaltungs-GmbH
 Amtsgericht Siegen HRB 4180
 Geschäftsführer: Philipp Christian Hensel (Donaustadt),
 Frank Dabbenitz, Michael Lehr
 USt-Id.-Nr.: DE 236326328

ENYSUN
 Photovoltaik
 Distributors

The current EU declarations of conformity can be found on the Internet at:
www.hensel.in/produkte/

NOTES

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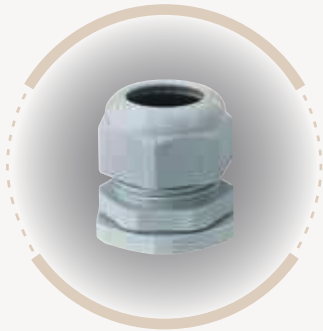
CABLE ENTRY SYSTEMS
FOR PRO'S

hensel.in

HENSEL



The right cable entry for every application



ADG, IP 66
cable glands
for protected outdoor installation

334



AKM/ASS, IP 66/67/69
cable glands
for unprotected outdoor installation

335_336



KBM/KBS, IP 66/67
cable glands
for normal in- and protected outdoor

337_338



BM, IP 54
Pressure compensation element

341



ESM, IP 55
Grommets

342



STM, IP 55
Stepped Grommets

342



EDK, IP 65
Grommets

343



EDR, IP 65
Grommets for conduits

343



VSB, KHR, KST; MV FP
Sealing plug, cable retention,
stepped Grommets, flange

345



Ste, IP 31
Stepped Grommets

344



AKS, IP 65
cable glands
for normal in- and outdoor installation

340



GSC, IP 66
cable glands
for in- and outdoor installation

339

CABLE ENTRY SYSTEMS – CABLE GLANDS
FOR PROTECTED OUTDOOR INSTALLATION



ADG 20

- + Cable glands
- + For knockouts M20
- + Sealing range of the cable entry: Ø 5 mm - 13 mm

IP
66



ADG 25

- + Cable glands
- + For knockouts M25
- + Sealing range of the cable entry: Ø 11 mm - 17 mm

IP
66



ADG 32

- + Cable glands
- + For knockouts M32
- + Sealing range of the cable entry: Ø 15 mm - 21 mm

IP
66



ADG 40

- + Cable glands
- + For knockouts M40
- + Sealing range of the cable entry: Ø 19 mm - 28 mm

IP
66



ADG 50

- + Cable glands
- + For knockouts M50
- + Sealing range of the cable entry: Ø 27 mm - 35 mm

































IP
66



ADG 63

- + Cable glands
- + For knockouts M63
- + Sealing range of the cable entry: Ø 35 mm - 42 mm

IP
66

	AKM 12	<ul style="list-style-type: none"> + Cable glands + For knockouts M12 + Sealing range of the cable entry: Ø 4 mm - 6 mm 	  
	AKM 16	<ul style="list-style-type: none"> + Cable glands + For knockouts M16 + Sealing range of the cable entry: Ø 5 mm - 10 mm 	  
	AKM 20	<ul style="list-style-type: none"> + Cable glands + For knockouts M20 + Sealing range of the cable entry: Ø 5 mm - 13,5 mm 	  
	AKM 25	<ul style="list-style-type: none"> + Cable glands + For knockouts M25 + Sealing range of the cable entry: Ø 11 mm - 17 mm 	  
	AKM 32	<ul style="list-style-type: none"> + Cable glands + For knockouts M32 + Sealing range of the cable entry: Ø 15 mm - 21 mm 	  
	AKM 40	<ul style="list-style-type: none"> + Cable glands + For knockouts M40 + Sealing range of the cable entry: Ø 19 mm - 28 mm 	  
	AKM 50	<ul style="list-style-type: none"> + Cable glands + For knockouts M50 + Sealing range of the cable entry: Ø 27 mm - 35 mm 	  
	AKM 63	<ul style="list-style-type: none"> + Cable glands + For knockouts M63 + Sealing range of the cable entry: Ø 35 mm - 42 mm 	  

CABLE ENTRY SYSTEMS – CABLE GLANDS
FOR UNPROTECTED OUTDOOR INSTALLATION



ASS 12

- + Cable glands
- + For knockouts M12
- + Sealing range of the cable entry: Ø 4 mm - 6 mm



ASS 16

- + Cable glands
- + For knockouts M16
- + Sealing range of the cable entry: Ø 5 mm - 10 mm



ASS 20

- + Cable glands
- + For knockouts M20
- + Sealing range of the cable entry: Ø 5 mm - 13 mm



ASS 25

- + Cable glands
- + For knockouts M25
- + Sealing range of the cable entry: Ø 8 mm - 17 mm



ASS 32

- + Cable glands
- + For knockouts M32
- + Sealing range of the cable entry: Ø 12 mm - 21 mm



ASS 40

- + Cable glands
- + For knockouts M40
- + Sealing range of the cable entry: Ø 16 mm - 28.5 mm



ASS 50

- + Cable glands
- + For knockouts M50
- + Sealing range of the cable entry: Ø 21 mm - 35 mm



ASS 63

- + Cable glands
- + For knockouts M63
- + Sealing range of the cable entry: Ø 20 mm - 48 mm3





KBM 20

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M20
- + Sealing range of the cable entry: Ø 6 mm - 13 mm



KBM 25

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M25
- + Sealing range of the cable entry: Ø 9 mm - 17 mm



KBM 32

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M32
- + Sealing range of the cable entry: Ø 13 mm - 21 mm



KBM 40

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M40
- + Sealing range of the cable entry: Ø 16 mm - 28 mm



CABLE ENTRY SYSTEMS — CABLE GLANDS
FOR NORMAL ENVIRONMENT AND PROTECTED OUTDOOR



KBS 20

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M20
- + Sealing range of the cable entry: Ø 6 mm - 13 mm



KBS 25

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M25
- + Sealing range of the cable entry: Ø 9 mm - 17 mm



KBS 32

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M32
- + Sealing range of the cable entry: Ø 13 mm - 21 mm



KBS 40

- + Combi climate glands
- + To reduce condensation through pressure compensation
- + For knockouts M40
- + Sealing range of the cable entry: Ø 16 mm - 28 mm





GSC 20

- + Cable gland for SWA cable
- + for knockouts M 20
- + sealing range: Ø 11,5-16 mm

IP
66/68



GSC 21

- + Cable gland for SWA cable
- + for knockouts M 20
- + sealing range: Ø 14,5-20,5 mm

IP
66/68



GSC 25

- + Cable gland for SWA cable
- + for knockouts M 25
- + sealing range: Ø 20,5-26,5 mm

IP
66/68



GSC 32

- + Cable gland for SWA cable
- + for knockouts M 32
- + sealing range: Ø 26,5-33,5 mm

IP
66/68

CABLE ENTRY SYSTEMS – CABLE GLANDS
FOR NORMAL ENVIRONMENT AND OUTDOOR INSTALLATION



AKS 9

- + Cable glands
- + For knockouts Pg 9
- + Sealing range of the cable entry: Ø 4 mm - 8 mm



AKS 11

- + Cable glands
- + For knockouts Pg 11
- + Sealing range of the cable entry: Ø 5 mm - 10 mm



AKS 13,5

- + Cable glands
- + For knockouts Pg 13.5
- + Sealing range of the cable entry: Ø 6 mm - 12 mm



AKS 16

- + Cable glands
- + For knockouts Pg 16
- + Sealing range of the cable entry: Ø 10 mm - 14 mm



AKS 21

- + Cable glands
- + For knockouts Pg 21
- + Sealing range of the cable entry: Ø 13 mm - 18 mm



AKS 29

- + Cable glands
- + For knockouts Pg 29
- + Sealing range of the cable entry: Ø 18 mm - 25 mm



AKS 36

- + Cable glands
- + For knockouts Pg 36
- + Sealing range of the cable entry: Ø 22 mm - 32 mm



AKS 42

- + Cable glands
- + For knockouts Pg 42
- + Sealing range of the cable entry: Ø 30 mm - 38 mm



AKS 48

- + Cable glands
- + For knockouts Pg 48
- + Sealing range of the cable entry: Ø 34 mm - 44 mm





BM 20G

- + Pressure compensation element
- + To reduce condensation through pressure compensation
- + For knockouts M20













BM 40G

- + Pressure compensation element
- + To reduce condensation through pressure compensation
- + For knockouts M40













CABLE ENTRY SYSTEMS – ESM
GROMMETS

	ESM 16	<ul style="list-style-type: none"> + Grommets + For knockouts M16 + Sealing range of the cable entry: Ø 4.8 mm - 11 mm 	
	ESM 20	<ul style="list-style-type: none"> + Grommets + For knockouts M20 + Sealing range of the cable entry: Ø 6 mm - 13 mm 	
	ESM 25	<ul style="list-style-type: none"> + Grommets + For knockouts M25 + Sealing range of the cable entry: Ø 9 mm - 17 mm 	
	ESM 32	<ul style="list-style-type: none"> + Grommets + For knockouts M32 + Sealing range of the cable entry: Ø 9 mm - 23 mm 	
	ESM 40	<ul style="list-style-type: none"> + Grommets + For knockouts M40 + Sealing range of the cable entry: Ø 17 mm - 30 mm 	

CABLE ENTRY SYSTEMS – STM
STEPPED GROMMETS

	STM 16	<ul style="list-style-type: none"> + Stepped grommets + For knockouts M16 + Sealing range of the cable entry: Ø 3.5 mm - 12 mm 	
	STM 20	<ul style="list-style-type: none"> + Stepped grommets + For knockouts M20 + Sealing range of the cable entry: Ø 5 mm - 16 mm 	
	STM 25	<ul style="list-style-type: none"> + Stepped grommets + For knockouts M25 + Sealing range of the cable entry: Ø 5 mm - 21 mm 	
	STM 32	<ul style="list-style-type: none"> + Stepped grommets + For knockouts M32 + Sealing range of the cable entry: Ø 13 mm - 26.5 mm 	
	STM 40	<ul style="list-style-type: none"> + Stepped grommets + For knockouts M40 + Sealing range of the cable entry: Ø 13 mm - 34 mm 	

	EDK 16	<ul style="list-style-type: none"> + Grommets + For knockouts M16 + Sealing range of the cable entry: Ø 5 mm - 10 mm 	
	EDK 20	<ul style="list-style-type: none"> + Grommets + For knockouts M20 + Sealing range of the cable entry: Ø 6 mm - 13 mm 	
	EDK 25	<ul style="list-style-type: none"> + Grommets + For knockouts M25 + Sealing range of the cable entry: Ø 9 mm - 17 mm 	
	EDK 32	<ul style="list-style-type: none"> + Grommets + For knockouts M32 + Sealing range of the cable entry: Ø 8 mm - 23 mm 	
	EDK 40	<ul style="list-style-type: none"> + Grommets + For knockouts M40 + Sealing range of the cable entry: Ø 11 mm - 30 mm 	

CABLE ENTRY SYSTEMS – EDR
GROMMETS FOR CONDUITS

	EDR 16	<ul style="list-style-type: none"> + Grommets for conduits + For knockouts M16 	
	EDR 20	<ul style="list-style-type: none"> + Grommets for conduits + For knockouts M20 	
	EDR 25	<ul style="list-style-type: none"> + Grommets for conduits + For knockouts M25 	
	EDR 32	<ul style="list-style-type: none"> + Grommets for conduits + For knockouts M32 	
	EDR 40	<ul style="list-style-type: none"> + Grommets for conduits + For knockouts M40 	

CABLE ENTRY SYSTEMS – STE
 STEPPED GROMMETS

	Ste 11	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 11 + Sealing range of the cable entry: Ø 9 mm - 13 mm 	
	Ste 16	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 16 + Sealing range of the cable entry: Ø 9 mm - 14 mm 	
	Ste 21	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 21 + Sealing range of the cable entry: Ø 12 mm - 18 mm 	
	Ste 29	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 29 + Sealing range of the cable entry: Ø 18 mm - 27 mm 	
	Ste 36	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 36 + Sealing range of the cable entry: Ø 18 mm - 31 mm 	
	Ste 11 V	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 11 + Sealing range of the cable entry: Ø 9 mm - 13 mm 	
	Ste 16 V	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 16 + Sealing range of the cable entry: Ø 9 mm - 14 mm 	
	Ste 21 V	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 21 + Sealing range of the cable entry: Ø 12 mm - 18 mm 	
	Ste 29 V	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 29 + Sealing range of the cable entry: Ø 18 mm - 27 mm 	
	Ste 36 V	<ul style="list-style-type: none"> + Grommets + For knockouts Pg 36 + Sealing range of the cable entry: Ø 18 mm - 31 mm 	



VSB 13 + Sealing plug

IP
66/67



VSB 21 + Sealing plug

IP
66/67



KHR 01 + Cable retention system
 + Set with 10 x 6 retaining rings
 + For cable diameter 6.5 - 14 mm

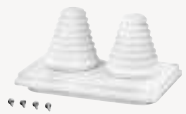


KHR 02 + Cable retention system
 + Set with 10 x 6 retaining rings
 + For cable diameter 10 - 16 mm



KST 70 + Stepped Grommets

IP
65



MV FP 66 + Flange



ET 20 + Earth tag to connect armours of SWA cables
 + for cable glands GSC 20 and GSC 21



ET 25 + Earth tag to connect armours of SWA cables
 + for cable glands GSC 25



ET 32 + Earth tag to connect armours of SWA cables
 + for cable glands GSC32

NOTES

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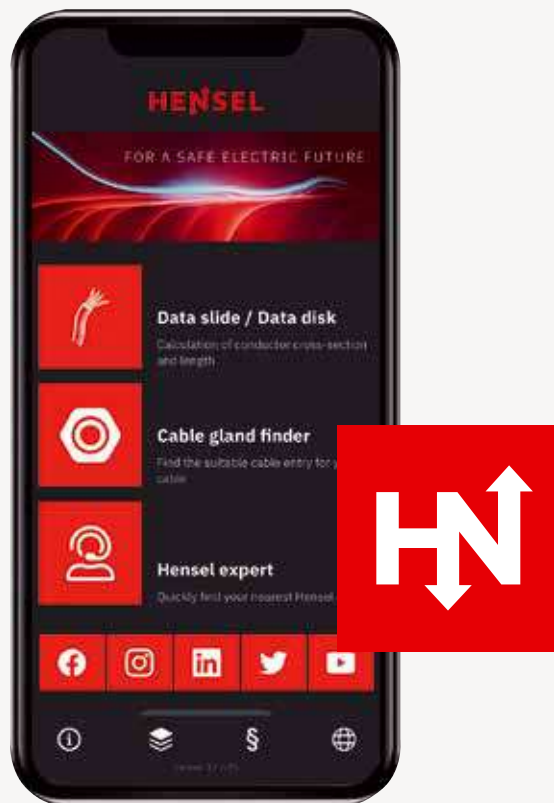
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