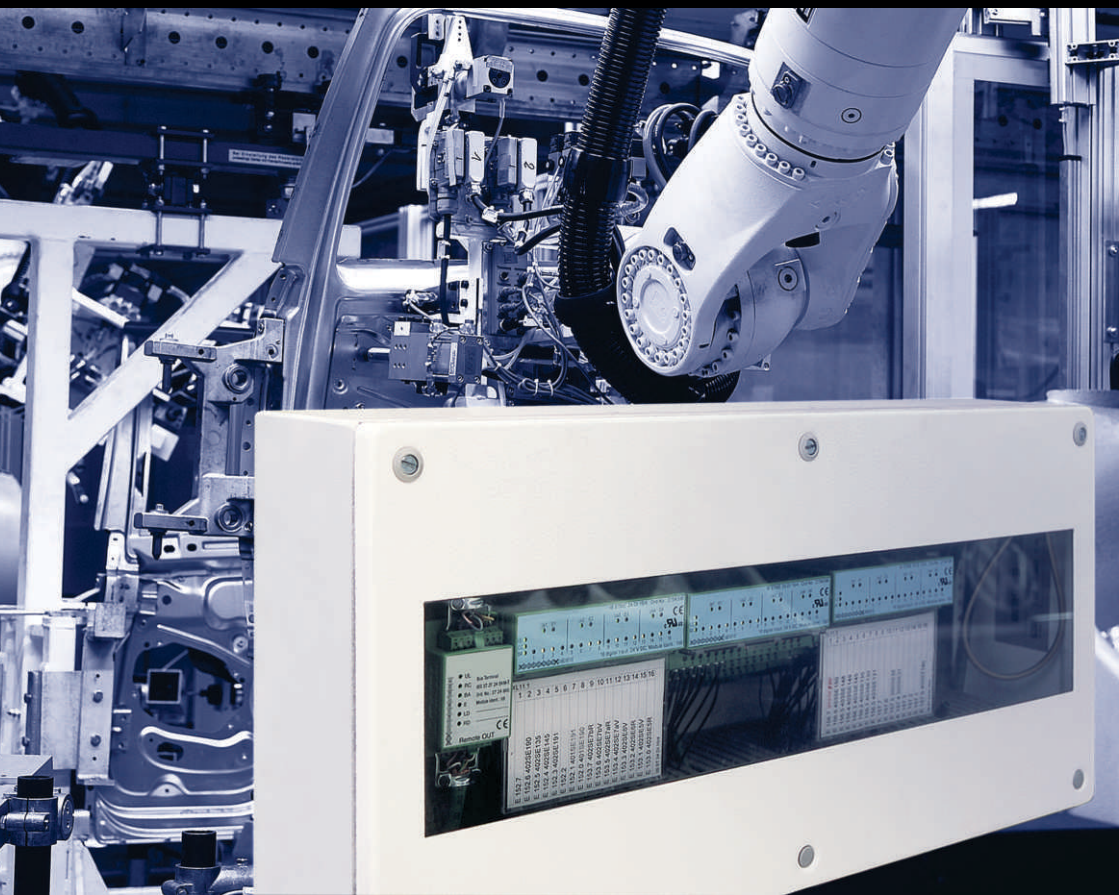


Rittal – The System.

Faster – better – worldwide.

► Small Enclosures



Fast and perfect, with an exceptionally diverse range of system accessories

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



The Original is still the best!



Packaging technology for the future

Whether you require enclosures for tough industrial environments or for telecommunications, Rittal has the right solution to suit any application. With our extensive range of accessories, even individual configuration requirements can be met cost-effectively and to optimum effect.

Rittal small enclosures owe their phenomenal success to a host of decisive benefits:

Perfectly coordinated sizes, designs and materials, mass production quality, plus the diversity of matching system accessories. At Rittal, reliable protection against corrosion, fast global availability and international approvals come as standard.

Compact Enclosures AE from page 04

Width: 200 mm – 800 mm, height: 300 mm – 1200 mm
Width: 1000 mm, height: 760 mm – 1400 mm

Terminal Boxes KL page 06

With and without gland plate, depth 80 mm / 120 mm

E box EB page 07

Plastic Enclosures KS page 08

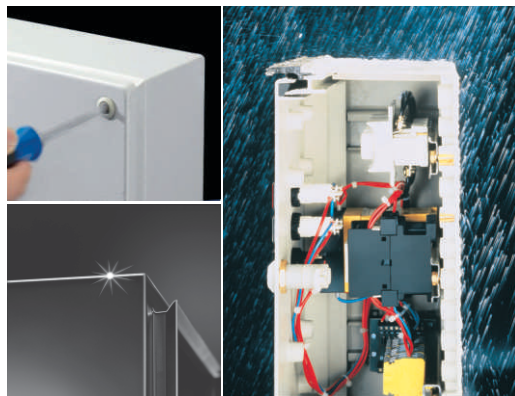
Width: 200 mm – 1000 mm, height: 300 mm – 1000 mm

Polycarbonate Enclosures PK page 09

Compact System Enclosures Rittal CM page 10

Width: 600 mm – 1200 mm, height: 800 mm – 1400 mm

System Accessories page 12



Smart solutions to the last detail

The answer is in the detail, and this is where Rittal comes into its own.

- Time saving quick-release fasteners
- Multi-folded enclosure protection channel to guard against dirt and water
- Twin seals on the doors of the KS range
- Sophisticated attachment and mounting options

All these solutions are designed to save our customers time and money.

Compact Enclosures AE

Width: 200 mm – 800 mm, height: 300 mm – 1200 mm



Material:

Sheet steel.

Surface Finish:

Enclosure and door :
Dipcoat primed
Powder-coated on the
outside in textured RAL 7035.
Mounting plate: Zinc-plated.

Protection category:

IP 66 to EN 60529/09.2000
Complies with NEMA 4.

Supply includes:

Enclosure of all-round solid
construction, single door,
1 gland plate in the
enclosure base, r/h door
hinge, may be swapped to
opposite side,(except with
AE 1032.500 and AE 1035.500)
with 1 or 2 cam locks, foamed-in
door seal, zinc-plated
mounting plate.

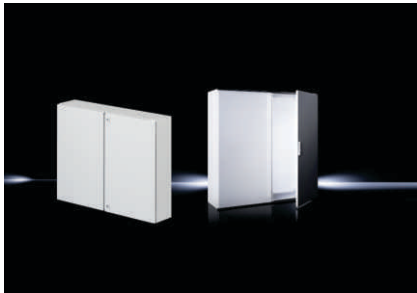
Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register
of Shipping
- Lloyds Register
of Shipping
- Bureau Veritas
- VDE

Article No. AE	Size in mm W x H x D
1030500	380 x 300 x 155
1031500	380 x 300 x 210
1032500	200 x 300 x 120
1033500	300 x 300 x 210
1034500	300 x 400 x 210
1035500	200 x 300 x 155
1038500	380 x 600 x 210
1039500	600 x 380 x 210
1045500	400 x 500 x 210
1050500	500 x 500 x 210
1057500	500 x 700 x 250
1058500	600 x 800 x 250
1060500	600 x 600 x 210
1073500	760 x 760 x 300

Article No. AE	Size in mm W x H x D
1076500	600 x 760 x 210
1077500	760 x 760 x 210
1090500	600 x 1000 x 250
1180500	800 x 1000 x 300
1260500	600 x 1200 x 300
1280500	800 x 1200 x 300
1338500	380 x 600 x 350
1339500	600 x 380 x 350
1350500	500 x 500 x 300
1360500	600 x 600 x 350
1376500	600 x 760 x 350
1380500	380 x 380 x 210
1054500	600 x 600 x 250
1055500	800 x 600 x 300

Note : Special sizes available on request.



Material:

Sheet steel.
Enclosure: 1.5 mm.
Door: 2.0 mm.
Mounting plate: 3.0 mm.

Surface Finish:

Enclosure and door:
Dipcoat primed,
powder-coated on the outside
in textured RAL 7035.
Mounting plate: Zinc-plated.

Protection category:

IP 55 to EN 60529/09.2000
Complies with NEMA 12.

Supply includes:

Enclosure of all-round solid
construction, twin-door:
2 gland plates in the
enclosure base,
3 point lock system,
prepared for use of the
Ergoform-S lock system,
2 cam locks for 1100.500,
1130.500, 1110.500,
foamed-in door seal,
zinc-plated mounting plate.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register
of Shipping
- Lloyds Register
of Shipping
- Bureau Veritas
- VDE

Article No. AE	Size in mm W x H x D
1100500	1000 x 760 x 210
1110500	1000 x 1000 x 300
1114500	1000 x 1400 x 300

Article No. AE	Size in mm W x H x D
1130500	1000 x 760 x 300
1213500	1000 x 1200 x 300

Note : Special sizes available on request.

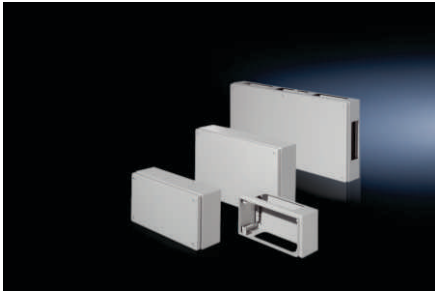
Features of the AE range



- Single piece body: perfect for robustness, sealing and electrical continuity.
- Sheet steel gland plates, screw fastened over the aperture in the base of the enclosure.
- It is possible to install plastic gland plates with knock-outs or grommets.
- Mounting plate electro-galvanised, graduated, depth adjustable.



- PU seals for perfect sealing of the door.
- Double thickness front channel protects the seal and prevents entry of dust and liquids when the door is opened.
- Triple, anti-corrosion, nano-ceramic surface treatment with dipcoat priming and textured powder coating.



Material :

Enclosure:
sheet steel 1.25 mm.
1,38 mm for KL 1507510 to
KL 1511510 and
KL 1535510 to KL 1539510.
Cover: sheet steel 1.25 mm.

Surface finish:

Enclosure and cover :
Dipcoat primed,
powder-coated on the
outside in textured
RAL 7035.

Protection category:

IP 66 to EN 60 529/09.2000
complies with NEMA 4.

Supply includes:

Enclosure, cover with
all-round foamed-in PU seal
and quick action screws,
including plastic bushes.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register
of Shipping
- Lloyds Register
of Shipping
- Bureau Veritas
- VDE

Article No. KL	Size in mm W x H x D
1500510	150 x 150 x 120
1501510	300 x 150 x 120
1502510	200 x 200 x 120
1503510	300 x 200 x 120
1504510	400 x 200 x 120
1505510	500 x 200 x 120
1507510	300 x 300 x 120
1508510	400 x 300 x 120
1509510	500 x 300 x 120
1511510	400 x 400 x 120
1514510	150 x 150 x 80
1515510	300 x 150 x 80
1516510	200 x 200 x 80

Article No. KL	Size in mm W x H x D
1517510	300 x 200 x 80
1518510	400 x 200 x 80
1528510	200 x 150 x 80
1529510	200 x 150 x 120
1530510*	300 x 150 x 120
1531510*	300 x 200 x 120
1532510*	400 x 200 x 120
1533510*	500 x 200 x 120
1535510*	300 x 300 x 120
1536510*	400 x 300 x 120
1537510*	500 x 300 x 120
1539510*	400 x 400 x 120
1589510	400 x 150 x 120

Note : Special sizes available on request.

* indicates enclosure with gland plates

Cover retainer



The cover retainer is easily fitted
without drilling, and allows the
covers to be opened upwards,
even when the terminal box below
is bayed.

Packs of	Model No.KL
3 pairs	1591.000

Cover hinge



The cover hinge is simply screwed
to the box protection channel and
to the edge fold German patent
no. P33 40 491.

Packs of	Model No.KL
6	1592.000

**Material :**

Sheet steel enclosure: 1.25 mm and 1.38 mm for
EB 1555500,
EB 1556500,
EB 1577500 to EB 1579500.

Surface finish:

Enclosure and door:
Dipcoat primed,
powder-coated on the
outside in textured RAL 7035.
Mounting plate: zinc-plated.

Protection category:

IP 66 to EN 60 529/09.2000
complies with NEMA 4.

Supply includes:

Enclosure with mounting
plate, door including 180°
hinges and cam lock with
double-bit insert.

Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register
of Shipping
- Lloyds Register
of Shipping
- Bureau Veritas
- VDE

Article No. EB	Size in mm W x H x D
1548500	150 x 300 x 120
1549500	200 x 200 x 120
1550500	200 x 400 x 120
1553500	150 x 150 x 120
1554500	200 x 300 x 120
1555500	300 x 300 x 120
1556500	300 x 400 x 120
1557500	200 x 500 x 120
1577500	300 x 400 x 155
1578500	300 x 600 x 155
1579500	300 x 800 x 155

Note : Special sizes available on request.



Material:

Enclosure and door:
Fibreglass-reinforced
unsaturated polyester.
Mounting plate: Sheet steel
for KS with viewing window:
Impact resistant glazed
acrylic, 3.0 mm with
all-round rubber
cable clamp strip.

Surface finish:

Enclosure and door:
No after-treatment,
Dyed plastic,
Similar to RAL 7035.
Mounting plate: zinc-plated.

Protection category:

KS without viewing window:
IP 66 to EN 60 529
Complies with NEMA 4X
KS with viewing window:
IP 56 to EN 60 529
Complies with NEMA 12.

Supply includes:

Enclosure of solid
all-round construction,
r/h door hinge, door hinge
may be swapped to the
opposite side by rotating
the enclosure, mounting
plate, all-round foamed-in
PU seal in the door, twin
seal on the top and bottom
edges of the door
(integral rain protection
strip), press-fitted
C sections at the sides
for infinitely variable
mounting plate
depth adjustment.

Note:

Under the influence of long
term UV radiation (sunlight)
in conjunction with wind and
rain, the surface finish may
become visually impaired.
In other words, the fibre-glass
portions become visible on
unprotected surfaces.
This does not impair the
protection of the installed
electrical components in
anyway. All other surface
finishes are likewise impaired
by ultraviolet radiation.
If the enclosures cannot
be protected from radiation,
e.g. via a sun canopy, we
recommend that they should be
painted with a PUR paint. Older
enclosures where the surface finish
already reveals visible fiberglass
portions can likewise be treated in
this way after thorough cleaning.

Of course, all enclosures can also
be supplied spray finished in RAL
colors. For outdoor siting,
we recommend pale shades.

**Permissible
ambient
temperature:**

-30° C to +75° C.

Approvals:

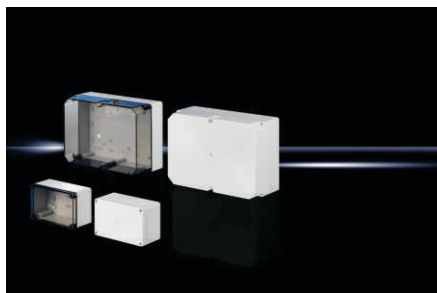
- UL (without viewing
window)
- CSA (without
viewing window)
- TÜV
- Germanischer Lloyd
- Russian Maritime
Register of Shipping
- Lloyds Register
of Shipping
- Bureau Veritas
- VDE

Without viewing window

Article No. KS	Size in mm W x H x D
1423500	200 x 300 x 150
1432500	250 x 350 x 150
1434500	300 x 400 x 200
1444500	400 x 400 x 200
1446500	400 x 600 x 200
1453500	500 x 500 x 300
1466500	600 x 600 x 200
1468500	600 x 800 x 300
1480500	800 x 1000 x 300
1400500	1000 x 1000 x 300

With viewing window

Article No. KS	Size in mm W x H x D
1448500	400 x 400 x 200
1449500	400 x 600 x 200
1454500	500 x 500 x 300
1467500	600 x 600 x 200
1469500	600 x 800 x 300
1479500	800 x 1000 x 300



Material :

Grey enclosure and cover (version .000) from fibre glass-reinforced polycarbonate, transparent cover (version .100) from polycarbonate, cover screws from polyamide, insulating bungs from polyethylene.

Colour:

RAL 7035.

Protection category:

IP 66 to EN 60 529/09.2000.

Supply includes:

Enclosure and cover, cover screws, insulating bungs for wall mounting screws, all-round foamed-in PU seal.

Approvals:

• Bureau Veritas

Grey Cover

Article No. PK	Size in mm W x H x D
9500000	65 x 65 x 57
9502000	94 x 65 x 57
9504000	94 x 94 x 57
9505000	94 x 94 x 81
9506000	110 x 110 x 66
9507000	110 x 110 x 90
9508000	130 x 94 x 57
9509000	130 x 94 x 81
9510000	130 x 130 x 75
9511000	130 x 130 x 99
9512000	180 x 94 x 57

Article No. PK	Size in mm W x H x D
9513000	180 x 94 x 81
9514000	180 x 110 x 90
9515000	180 x 110 x 111
9516000	180 x 110 x 165
9517000	182 x 180 x 90
9518000	182 x 180 x 111
9519000	182 x 180 x 165
9520000	254 x 180 x 90
9521000	254 x 180 x 111
9522000	254 x 180 x 165
9523000	360 x 254 x 111
9524000	360 x 254 x 165

Transparent Cover

Article No. PK	Size in mm W x H x D
9508100	130 x 94 x 57
9509100	130 x 94 x 81
9510100	130 x 130 x 75
9511100	130 x 130 x 99
9512100	180 x 94 x 57
9513100	180 x 94 x 81
9514100	180 x 110 x 90
9515100	180 x 110 x 111
9516100	180 x 110 x 165
9517100	182 x 180 x 90
9518100	182 x 180 x 111
9519100	182 x 180 x 165
9520100	254 x 180 x 90
9521100	254 x 180 x 111
9522100	254 x 180 x 165
9523100	360 x 254 x 111
9524100	360 x 254 x 165

Compact System Enclosures Rittal CM

Width: 600 mm – 1200 mm, height: 800 mm – 1400 mm



The compact system enclosures CM

combine the technical features of Rittal compact enclosures with the flexibility of the large enclosures, being fully compatible with the wide range of TS accessories. The outstanding features of the CM enclosures make for unprecedented flexibility in use and lead to significant time-savings during installation.

Material:

Sheet steel enclosure: 1.5 mm.
Door: 2.0 mm.
Mounting plate: 3.0 mm.

Surface finish:

Enclosure and door:
Dipcoat primed,
powder-coated on the outside in texture RAL 7035.
Mounting plate: zinc-plated.

Protection category:

IP 55 to EN60529 complies with NEMA 12 provided suitable gland plates are selected.

Supply includes:

Enclosure with one or two doors, may be swapped to opposite side, mounting plate, open base for individual cable entry.

Features of the CM range



- Quick installation of TS pitch pattern rails possible for full compatibility with the wide range of TS 8 accessories.



- Wide bottom opening for ease of configuration of cable entries.
- Several models of modular gland plates to meet all requirements.



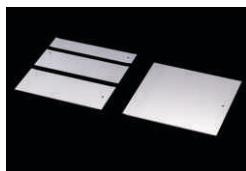
- Fold-back handle does not impinge on the mounting surface of the door.
- Door fitted with welded, perforated rails to facilitate equipment mounting.

Article No. CM	Size in mm W x H x D
5110500	600 x 800 x 400
5111500	600 x 1000 x 400
5112500	600 x 1200 x 300
5113500	600 x 1200 x 400
5114500	800 x 1000 x 300
5115500	800 x 1000 x 400

Article No. CM	Size in mm W x H x D
5116500	800 x 1200 x 300
5117500	800 x 1200 x 400
5118500	1000 x 1000 x 300
5119500	1000 x 1200 x 300

Article No. CM	Size in mm W x H x D
5120500	1000 x 1200 x 400
5121500	1000 x 1400 x 300
5122500	1000 x 1400 x 400
5123500	1200 x 1200 x 400

* gland plates not included in above articles.

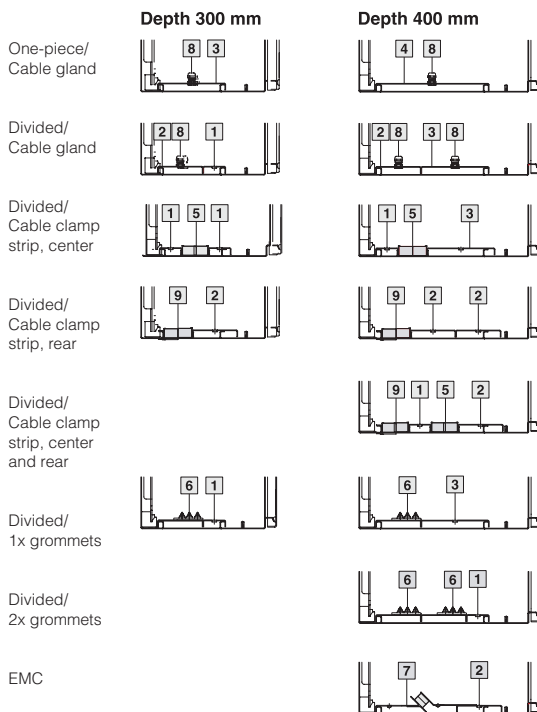


Gland plates for CM

Select suitable gland plates depending on the application. The following examples illustrate the individuality of cable entry design. Potential equalization is provided via assembly components and earthing points.

Design	For Enclosure width mm			
	600	800	1000	1200
	Model No.			
1	5001.210	5001.211	5001.212	5001.213
2	5001.214	5001.215	5001.216	5001.217
3	5001.218	5001.219	5001.220	5001.221
4	5001.222	5001.223	5001.224	5001.225

Combination options:



Material:

Sheet steel, zinc-plated, passivated

Protection category:

IP 55 to EN 60529/09.2000.
subject to correct mounting.

Supply includes:

1 piece, including assembly parts.

Note:

For greater stability and universal cable entry, the base opening is divided in the width for 1000 mm and 1200 mm wide enclosures, and is suitable for various conjunctions.

Key:

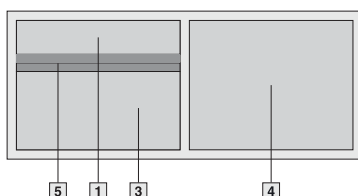
- 1 Gland plate, depth 50 mm
- 2 Gland plate, depth 100 mm
- 3 Gland plate, depth 150 mm
- 4 Gland plate, depth 250 mm
- 5 Selection for cable entry, centre
- 6 Cable entry plates, depth 100 mm, see above
- 7 EMC gland plate
- 8 Cable glands
- 9 Section for cable entry, rear

Order example:

CM 5120.500
(W/H/D 1000 mm x 1200 mm x 400 mm)
- On the left, two-piece gland plate with
cable clamp strip
- On the right, one-piece gland plate

You will need:

- 5 2 sections for cable entry, centre,
- 1 1 gland plate, depth 50 mm, 5001.212
- 3 1 gland plate, depth 150 mm, 5001.220
- 4 1 gland plate, depth 250 mm, 5001.224



Accessories

Locks/roof/wall/mounting



Hinge pin remover

For safe and easy removal of hinge pins

For Enclosure	Model No. SZ
AE/CM/FM	2432.000



Eyebolts for AE

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

Supply includes:

Eyebolts, reinforcement plates.

Pack of	Model No. SZ
4	2509.000



Eyebolts for CM

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

Supply includes:

Eyebolts, reinforcement plates.

Pack of	Model No. SZ
2	2509.000



Wall mounting bracket

For the attachment of KL, EB, BG and EL enclosures as well as DK and FM wall-mounted distributors.

Supply includes:

Assembly parts for mounting on the enclosure.

Note:

For hygiene reasons and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets.

Material	Wall Distance mm	Pack of	Model No. KL
Brass nickel-plated	8	4	1580.000
Sheet steel zinc-plated, passivated	8	4	1590.000
Stainless steel 1.4301 AISI 304	8	4	1594.000



Wall mounting bracket

For the attachment of KL, EB, BG, AE, CM and EL enclosures as well as DK and FM wall-mounted distributors.

Supply includes:

Assembly parts for mounting on the enclosure.

Note:

For hygiene reasons and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets.

Material	Wall Distance mm	Pack of	Model No. SZ
Sheet steel zinc-plated, passivated	40	1	2503.000 ⁹⁾
		4	2503.010
	10	1	2508.000 ⁹⁾
		4	2508.010
Stainless steel 1.4301 (AISI 304)	10	4	2433.000

⁹⁾ indicates without assembly parts

**Wall mounting bracket for KS**

For the attachment to the wall, only possible from the outside of the enclosure.

Material:

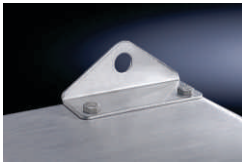
Fibre glass-reinforced polyamide¹⁾

Supply includes:

Assembly parts for mounting on the enclosure.

Colour	Pack of	Model No. KS/KE
Similar to RAL 7035	4	1483.010
Similar to RAL 9011	4	9266.000¹⁾

¹⁾ with graphite additive for Ex applications.

**Wall angle**

For compact enclosures (additional holes required in the enclosure).

Material	Colour	Pack of	Model No. SZ
Sheet steel	RAL 7035	1	2505.500
Stainless steel 1.4301 (AISI 304)	—	1	2583.000

**Pole clamp**

For reliable, convenient fastening to round or square poles.

For pole diameter / size:

Ø from 40 mm to 190 mm

□ from 50 mm to 150 mm

Material:

Mounting angles, clamping section: Sheet steel, zinc - plated, passivated Clamping strap: Stainless steel 1.4302 (AISI 304)

**For KL, EB, BG AE, KS****Supply includes:**

2 mounting angles, 600 mm long

4 clamping sections

2 clamping straps

4 clamping brackets

4 screws and nuts M8

For mounting on the enclosure.

Pack of	Model No. SZ
1 set	2584.000

Complete system solutions from a single source



Modular enclosure systems	System climate control	Power distribution systems	IT systems
<ul style="list-style-type: none">▪ Enclosures▪ Small enclosures▪ Command panel & support arm systems▪ Console systems▪ Stainless steel & industry solutions▪ Network & server racks▪ IT wall-mounted enclosures▪ Outdoor enclosures▪ Subracks	<ul style="list-style-type: none">▪ Roof and wall-mounted cooling units▪ Recooling systems▪ Air/air, air/water heat exchangers▪ Fan systems▪ Enclosure heaters	<ul style="list-style-type: none">▪ Modular system for low-voltage switch-gear up to 5500 A▪ 60 mm system technology for power distribution and controllers up to 1600 A	<ul style="list-style-type: none">▪ Integrated DC solutions▪ Consultancy & planning▪ Structural design▪ Physical security▪ UPS systems▪ IT climate control▪ Monitoring systems
Fully compatible system accessories			
Software			
Services			

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- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

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