

Standards

Enclosures

Enclosure

Enclosure series CDC and SDC are made of galvanized steel sheet and with the performance standards ISO 1461, IEC 61439-1, IEC 61439-5.

- IEC ISO 1461: Inorganic coatings - Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:1999).
- IEC 61439: Part 1: Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks.

The enclosures KSIK are powder coated steel enclosures indoors. Environmental Class C1 and C2 according to:

- IEC ISO 12944-2: Paints and varnishes – Corrosion protection of steel structures by painting.
- Part 2: Classification of environmental conditions (ISO 12944-2:1998).

Degree of protection

The degree of protection is IP34D, in accordance with the requirements of IEC 60529, unless otherwise stated under “Technical data”.

Excavation depth

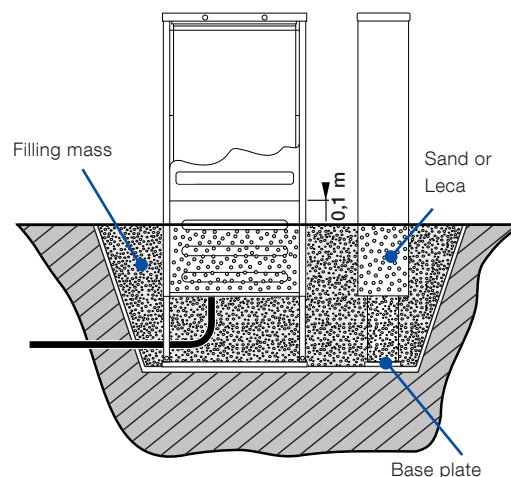
To ensure an attractive and functional installation in the ground, we recommend excavating to a depth at which about 10 cm of the foundation is visible above the restored surface. A marking label indicates the ground level.

Special operating conditions

With this type of installation, consideration must be given to the risk of condensation, dust, vibration and impacts.

All enclosures CDC and SDC have ventilation apertures between the cover plate and the door and between the door and the roof, both on the front and back of the enclosure.

The ability of the enclosure to withstand external blows and impacts has been checked by testing at -50°C in accordance with the requirements for use in an Arctic climate in IEC 61439-5.



To reduce the risk of condensation we recommend filling the foundation with sand, leca and/or using a damp barrier type Cxx-DB above the foundation.

Standards Enclosures

3

Foundation

In the CDC range, the ground foundation is an integral part of the design. The length of the legs are individually adjustable and they can be angled out to avoid protruding building foundations. Separate foundations for ground, floor or wall mounting are available for the SDC range.

All below-ground parts have heavy-duty corrosion protection.

KSIIK enclosures are for wall mounting indoors only.

Frost heave and CDC

A sliding bar system in the enclosures type CDC reduces the problems that may arise in connection with frost heave.

External fixing points

The sides of all enclosures except the indoor enclosure KSIIK are fitted with rivet-nuts to attach marking poles, other enclosures, boxes, etc.

Openings for temporary outlets

Both sides of CDC and SDC enclosures have an opening for a temporary power outlet or to make protected connections between two enclosures. The openings are fitted with a revolving seal with a choice of five openings, the largest of which is Ø 60 mm.

Where more SDC enclosures are to be combined, special sides are available.

For further information contact your supplier or us.

On KSIIK, there are two covered flange openings, size FL 33 in each side panel.

Marking

There is a space for marking at the top of the door of enclosures CDC. On the inside of the door there is a clip to attach a cable distribution cabinet card, etc.

Locks

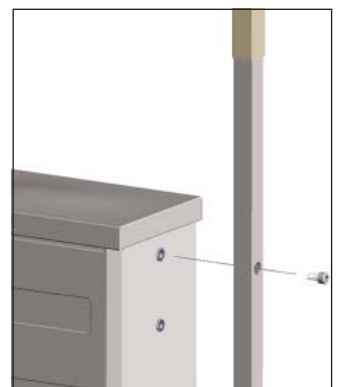
The enclosures have different locks depending on their field of application, see the page "Locks and tools".



Integrated adjustable foundation in enclosure CDC.



Sliding busbar counteracts damages from frost heave.



Marking pole.



Temporary openings at both sides of the enclosures.



Space for marking at the top of the door of enclosures CDC.



Lock for enclosures.

Standards

Enclosures

Modular system

All parts that can be connected to the busbar system have modular dimensions (one module M = 12.5 mm). This makes it easy to calculate the space required by a particular distribution board and then to choose a suitable enclosure.

Type designation

The following list mentions some typical applications for Kabeldon IP-system:

CDC xyz (CDC = enclosure type. This may be replaced by SDC or KSIK.)

x = rated current:

0 = cabinet without busbar system

4 = busbar system with rated current 400 A

6 = busbar system with rated current 630 A

yz = number of modules available on the busbar
(20, 40, 48 etc.)

Enclosures with upper section

As standard, the enclosure comes with a busbar system in the lower section, but with no equipment in the upper section (the meter space).

For the upper section there are meter panels, MPF 25 B or MPF 63 B, to mount the meters on.

The meter panel fixes on to a mounted fixing bar, making fitting simple and flexible. Meter panels have a width of 220 mm. The meter panels come with a suitable intermediate terminal block.

Entries to the upper section

Between the upper and lower sections there are openings which are partly covered by a plastic plug with "breakouts". The largest opening, Ø 50 mm, can take seven 50 mm² cables.

Locks

The upper section of the enclosure is fitted with a lock which takes a standard triangular-section key, so that the customer and the electricity supplier can open that section. For the lower section, see the product pages.



Module dimensioned busbar system in the cable distribution cabinet.



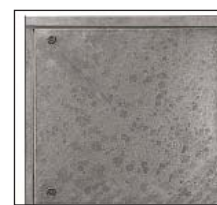
Enclosures with upper section, CDCM and SDCM.



Meter panel MPF 25 B/63 B.



Lock for the upper section of enclosures with upper section CDCM.



Lock for the upper section of enclosures with upper section SDCM.

Hot-dip galvanized enclosures

CDC

3

CDC is supplied with a busbar system or with a mounting plate.

- Tested to the requirements of IEC 61439-5. Passes arctic climate tests.
- Integral foundation.
- Adjustable foundation prepared for fitting of a base plate.
- The foundation is prepared for fixing conduits when installing heating cables.
- The sides have a bracket to attach a snow marking pole or an accessory cabinet.
- On the inside of the door there is a cable distribution cabinet card.
- The embossed areas on the door are compatible with most common marking systems.
- Degree of protection IP34D.



CDC 040

Designation	ID No.	Equipment included	Number of modules	Rated current	Dimensions			Weight
					Height	Width	Depth	
			M *	A		mm		kg each
CDC 020	2CGX0 63300396	mounting plate	–	–	1200	350	220	36
CDC 040	2CGX0 63300397	mounting plate	–	–	1200	600	220	50
CDC 060	2CGX0 63300398	mounting plate	–	–	1200	850	220	64
CDC 420	2CGX0 63300390	busbar system	20	400	1200	350	220	34
CDC 440	2CGX0 63300391	busbar system	40	400	1200	600	220	47
CDC 460	2CGX0 63300392	busbar system	60	400	1200	850	220	59
CDC 640	2CGX0 63300394	busbar system	40	630	1200	600	220	48
CDC 660	2CGX0 63300395	busbar system	60	630	1200	850	220	60

* One module M = 12.5 mm.

The enclosure includes

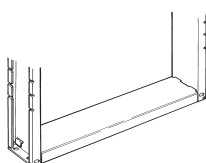
Contents	Enclosure with busbar system CDC 420-660	Enclosure without busbar system CDC 020-060
Mounting plate	No	Yes
Busbar system	400 A, 630 A	No
PEN bar movable to three positions	400 A	No
Anchor bar adjustable to two positions	Yes	Yes
Foundation leg length individually adjustable	Yes	Yes
Outlet opening with revolving seal Ø 15-60 mm	Yes	Yes
Key shape for lock	SE	Triangular
Heavy-current warning symbol on outside of door	Yes	No

Accessories, to be ordered separately

CDC



C20-BP, C40-BP, C60-BP
Base plate.



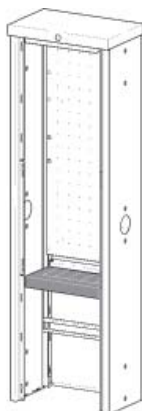
FV, FVD
Wall spacer.



CDC-CLA
Mounting kit for cylinder lock.



C20-DB, C40-DB, C60-DB
Damp barrier fits all CDC enclosures.



TN-S system
Five-wire kit.



BERG 250
Rock hold for cable distribution cabinets type CDC when installed in rocky ground.



KSPS 6
Marking pole.

Designation	ID No.	Fits enclosures type	Dimensions			Weight
			Height	Width	Depth	
			mm			kg each
C 20-BP	2CGX0 53310725	CDC/CDCM 20	27	344	130	0,8
C 40-BP	2CGX0 53310726	CDC/CDCM 40	27	594	130	1,5
C 60-BP	2CGX0 53310727	CDC 60	27	844	130	2,2
FV	2CGX0 63190225	CDC/CDCM	50	70	135	1,9
FVD	2CGX0 63190241	FV	–	Ø 47	85	0,7
CDC-CLA	2CGX0 53310669	–	–	–	–	0,1
C20-DB	2CGX0 53310696	CDC	50	350	215	0,2
C40-DB	2CGX0 53310697	CDC	50	600	215	0,3
C60-DB	2CGX0 53310698	CDC	50	850	215	0,4
BERG 250	2CGX0 63300649	CDC/CDCM	370	130	30	1,9
KSPS 6	2CGX0 63190145	CDC/CDCM/SDC/SDCM	1500	30	30	3,8

TN-S system

Designation	ID No.	Fits enclosure	Number of modules	Rated current	Length	Weight
			M *	A	mm	kg each
C 20-TNS	2CGX0 53310613	CDC 20	20	400	333	0,6
C 40-TNS	2CGX0 53310614	CDC 40	40	400	583	0,7
C 60-TNS	2CGX0 53310615	CDC 60	60	400	833	0,9

* One module M = 12.5 mm.