HUISAANSLUITKAST NETBEHEERDERS

Montage-instructie

ENGINEERED
TO OUTRUN

INHOUDSOPGAVE

4	**Inleiding**
5	**Kabeluitvoeringen**
14	**Stijgleiding uitvoeringen**
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INLEIDING

Benodigde gereedschappen:
Momentschroevendraaier, ingesteld op 3 Nm.

- Torx bit T15, lengte bij voorkeur >= 60 mm
- Waterpas
- Gereedschappen voor aanvullende producten, zoals kWh meter

Volg voor de juiste positionering van de HAK (Huis Aansluit Kast) de NEN2768 en de richtlijnen in de IWUN vouwbladen. In deze handleiding is de basis positionering hieruit aangegeven.

De handleiding is geschreven voor 3-fasen aansluitingen, maar is ook van toepassing op 1-fase aansluitingen.

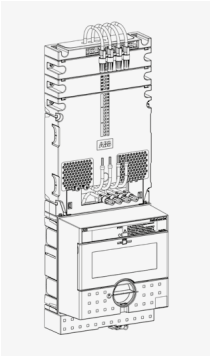
Aandraaimomenten

Component	Aandraaimoment
Automaten 10 A t/m 63 A	3 Nm PZ 2
Automaten 80 A	3,5 Nm PZ 2
L & PE(N) blok	3 Nm T15
NH00 houder	3 Nm PH 2
MLOEA klem	3 Nm PZ2

De kasten met standaard kabelaansluiting zijn alle van een buitenliggende aarding voorzien, aan te sluiten volgens de instructie van de netbeheerder.

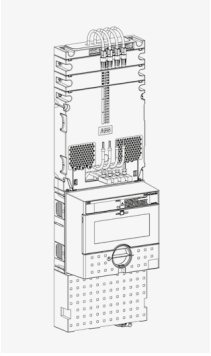
LET OP: Bij het monteren van twee adereindhulzen tegenover elkaar in het PE(N) of faseblok moeten beide adereindhulzen onder twee schroeven gemonteerd zitten. Draai eerst twee schroeven los en bevestig dan de eerste adereindhuls, daarna de tweede.

KABEL UITVOERINGEN



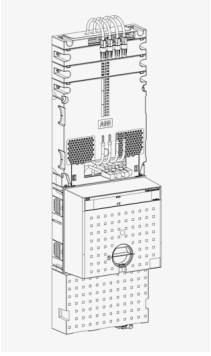
Laagbouw t/m 63 A met automaat

- HCB-LR-MCB-1x10C-C
- HCB-LR-MCB-1x40C-C
- HCB-LR-MCB-3x25C-C
- HCB-LR-MCB-3x40C-C
- HCB-LR-MCB-3x50C-C
- HCB-LR-MCB-3x63C-C
- HCB-LR-X-3x63-C



Laagbouw 80 A met automaat

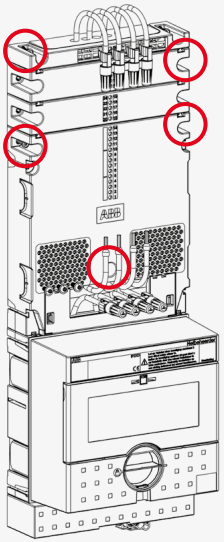
HAK-LR-MCB-3x80C-C



Laagbouw 63 A en 80 A met mespatroon

HCB-LR-FUSE-3x80-C

INSTRUCTIE



STAP 1

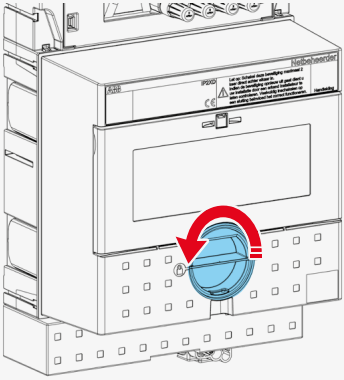
Monteer de gehele samengestelde kast volgens de richtlijnen in de IWUN vouwbladen en de in de NEN 2768 gereserveerde ruimte voor de E-aansluiting vlak tegen de achterwand. Gebruik hierbij een waterpas en schroef de 5 schroeven, zoals aangegeven in de figuur, vast.

Alleen voor saneringen kan het meterbord bij te weinig ruimte op maat worden gemaakt door een of meerdere bovenste delen te verwijderen.

LET OP: Voor 80 A versies MOET het bovenste 20 mm deel aanwezig blijven!

STAP 2

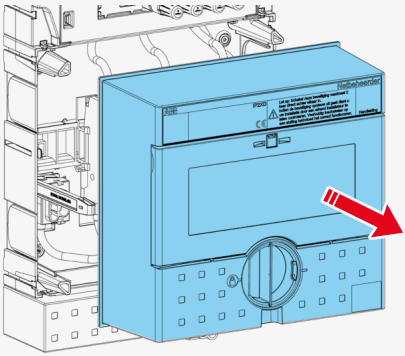
Ontgrendel de kap van de automaten door de knop een kwartslag linksom te draaien.

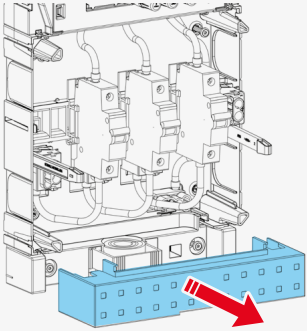


STAP 3

De kap kan nu recht naar voren worden verwijderd.

Voor aansluitingen met laag invoerstuk zie stap 4 en 5, voor aansluitingen met hoog invoerstuk zie stap 6 t/m 8 op pagina 8 en 9.



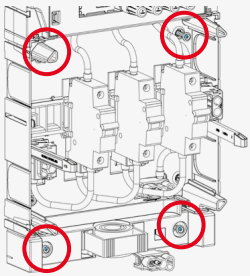


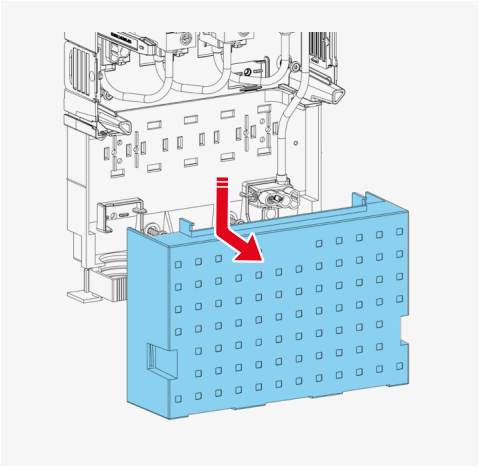
STAP 4

Verwijder het deksel van het kabel invoerstuk recht naar voren.

STAP 5

Schroef nu de 4 schroeven aan de binnenzijde vast.





STAP 6

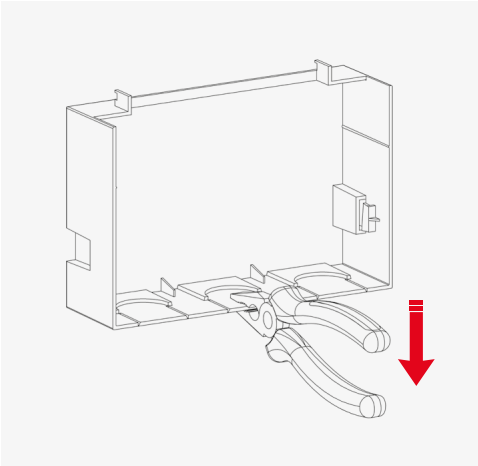
Voor aansluitingen van meer dan 63 A: Verwijder het deksel van het hoge invoerstuk door het deksel eerst naar beneden en dan naar voren te bewegen. Monteren geschied in de omgekeerde volgorde.

STAP 7

De uitbreekpoorten van het deksel van het hoge invoerstuk kunnen worden verwijderd. Knip of snij eerst de rand in en verwijder vervolgens de uitbreekpoort met een combinatietang.

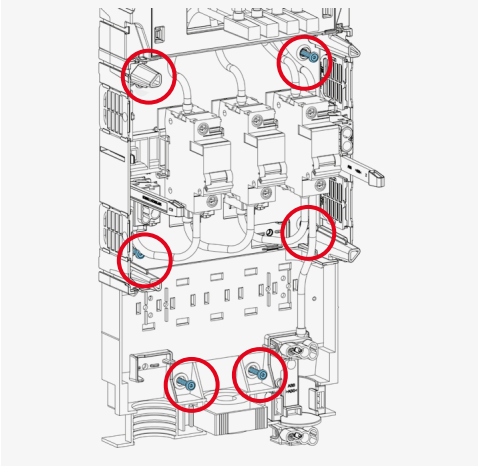
Zorg ervoor dat er geen scherpe randen achterblijven.

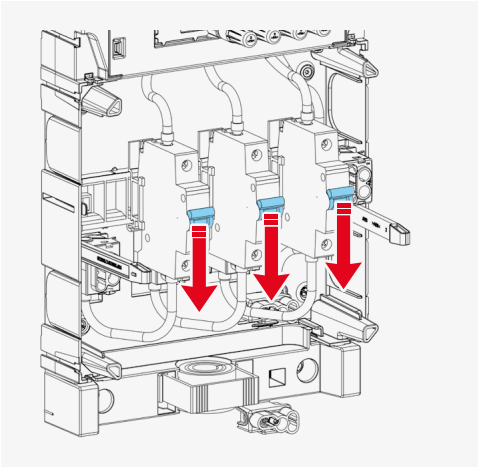
LET OP: Na het uitbreken kunnen deze niet meer worden hersteld.



STAP 8

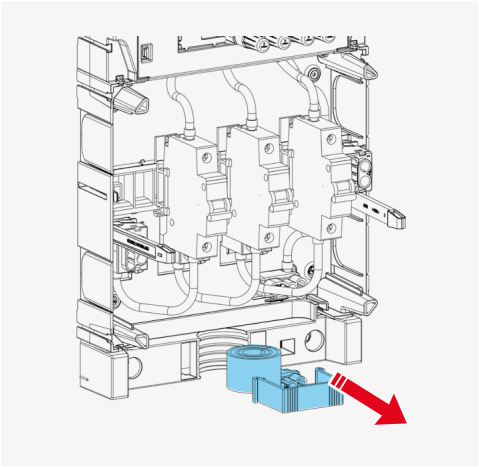
Schroef nu de 6 schroeven aan de binnenzijde vast.





STAP 9

Schakel alle automaten uit.



STAP 10

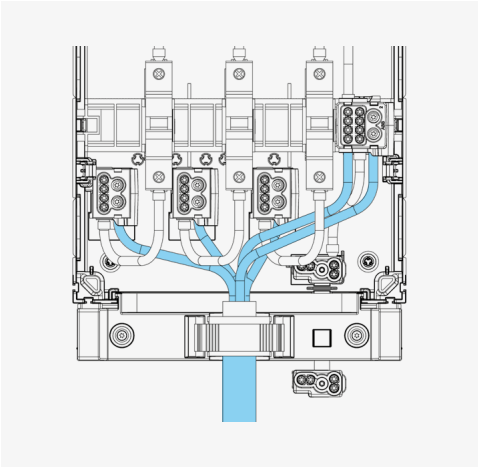
Verwijder de klembeugel en afdichtingstule. De klembeugel kan zonodig met een platte schroevendraaier worden losgemaakt.

STAP 11

De rubberen afdichtingstule is in lagen opgebouwd. Verwijder de binnenste ring(en) zodat de aansluitkabel goed in de klembeugel past en de afdichting goed vast zit.

Monteer de aders volgens de kleurcodering van de netbeheerders van links naar rechts tenminste 30 mm in de freesklemmen. Aders t/m 25 mm^2 hoeven niet gestript te worden. Bij 50 mm^2 Al aders moeten deze wel gestript worden. Draai de twee schroeven van elke freesklem aan met 3 Nm.

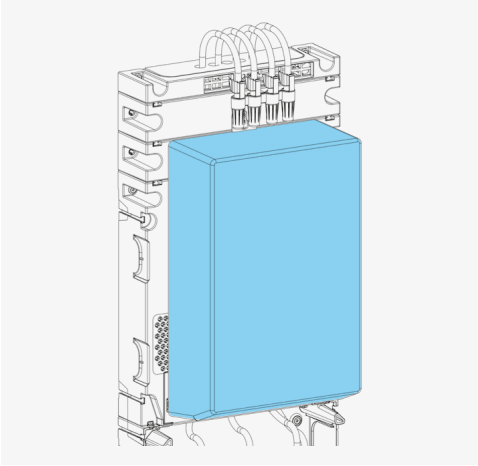
Sluit de samengeslagen litze aan op het PEN blok met 3 Nm.

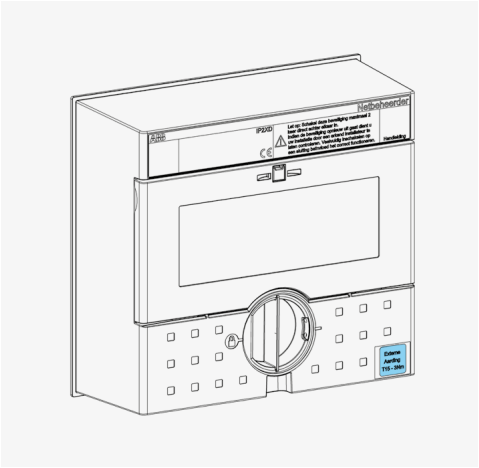


STAP 12

Monteer en sluit de kWh meter aan volgens de handleiding van de leverancier en de netbeheerder.

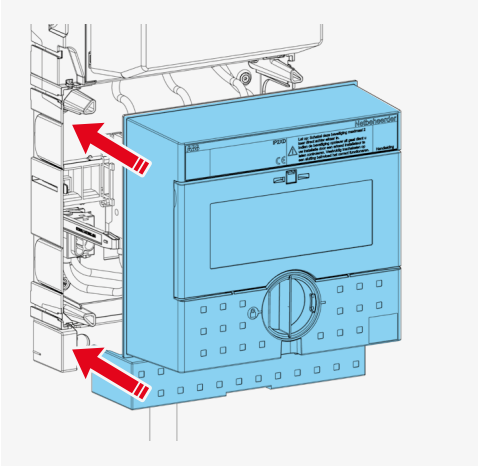
LET OP: Zorg dat de gehele draad doorvoer opening aan de voorzijde van het meterbord door het meterdeksel wordt afgedekt.





STAP 13

Plak, indien van toepassing, de sticker ‘Netbeheerder biedt aarding aan’ rechts onder aan de buitenzijde van de kast. Deze sticker zit aan de binnenzijde van het deksel bevestigd. Zie afbeelding.

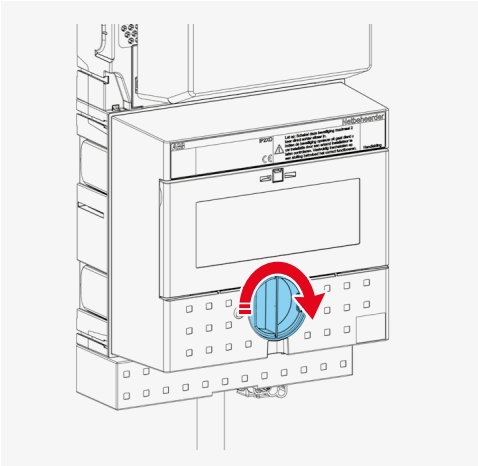


STAP 14

Herplaats eerst het deksel van het invoerstuk en dan de kap in een rechte beweging.

STAP 15

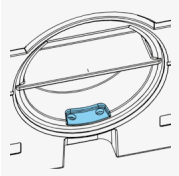
Controleer of de kap volledig is aangedrukt en vergrendel de kap door de knop een kwartslag rechtsom te draaien totdat deze vast klikt.

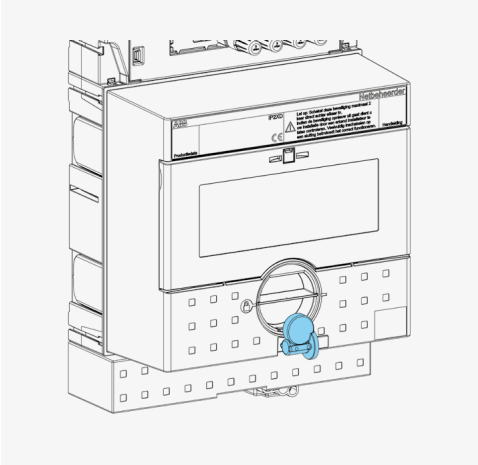


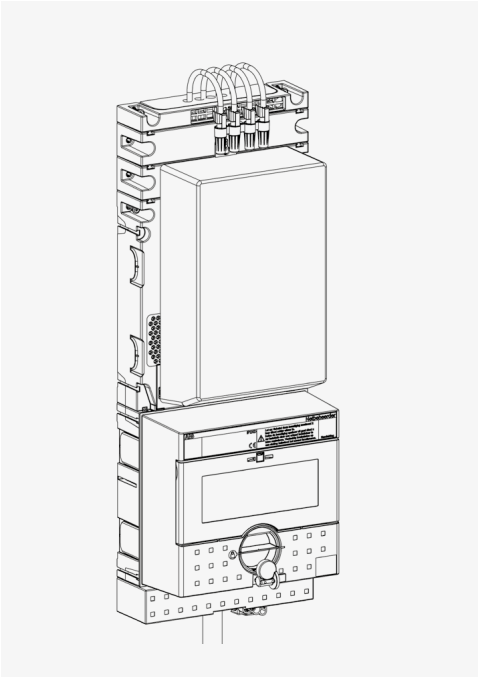
STAP 16

Zowel de draaiknop als het venster kunnen volgens de instructies van de netbeheerder worden verzegeld.

LET OP: voor de verzegeling van de draaiknop moeten beide gaten worden gebruikt, zie detail.



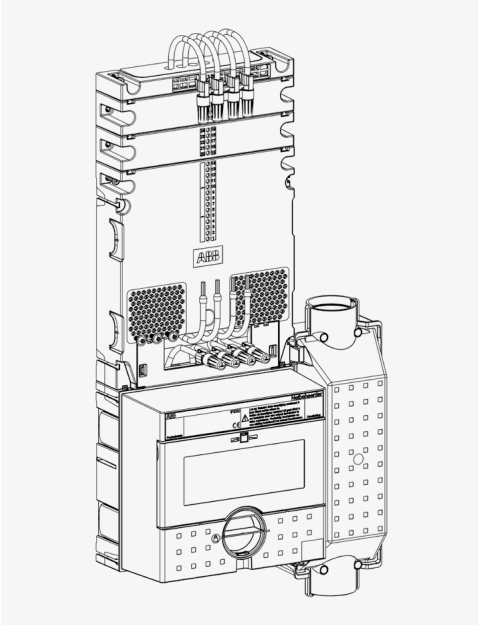




STAP 17

De installatie van de HAK is compleet.

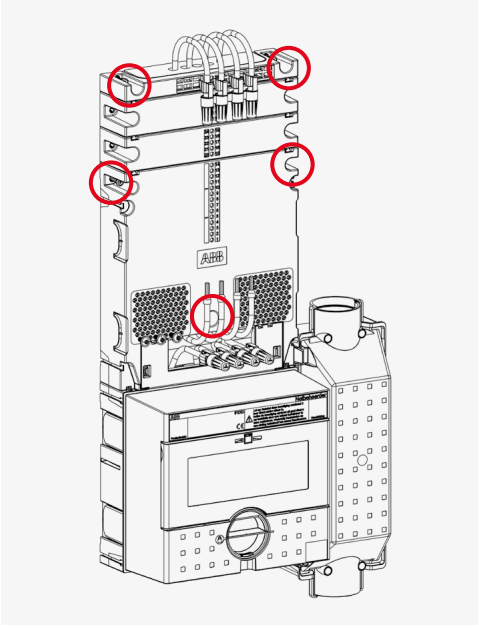
STIJGLEIDING UITVOERINGEN



Hoogbouw t/m 40 A met automaat

- HCB-HR-MCB-1x40C-C
- HCB-HR-MCB-3x25C-C
- HCB-HR-MCB-3x40C-C

INSTRUCTIE



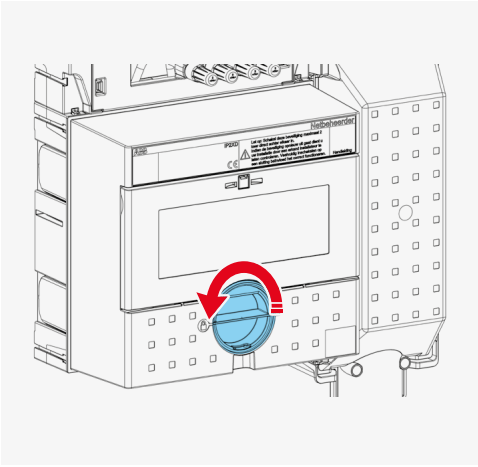
STAP 1

Monteer de gehele samengestelde kast volgens de richtlijnen in de IWUN vouwbladen en de in de NEN 2768 gereserveerde ruimte voor de E-aansluiting vlak tegen de achterwand. Gebruik hierbij een waterpas en schroef de 5 schroeven, zoals aangegeven in de figuur, vast.

Alleen voor saneringen kan het meterbord bij te weinig ruimte op maat worden gemaakt door een of meerdere bovenste delen te verwijderen.

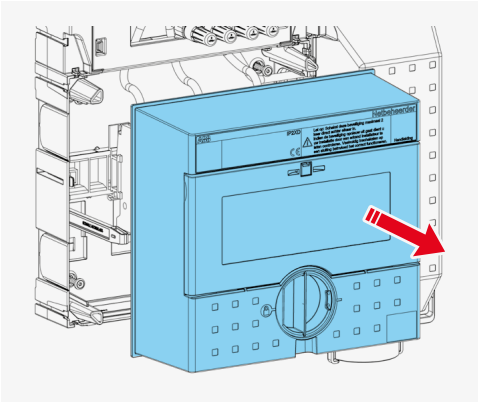
STAP 2

Ontgrendel de kap van de automaten door de knop een kwartslag linksom te draaien.



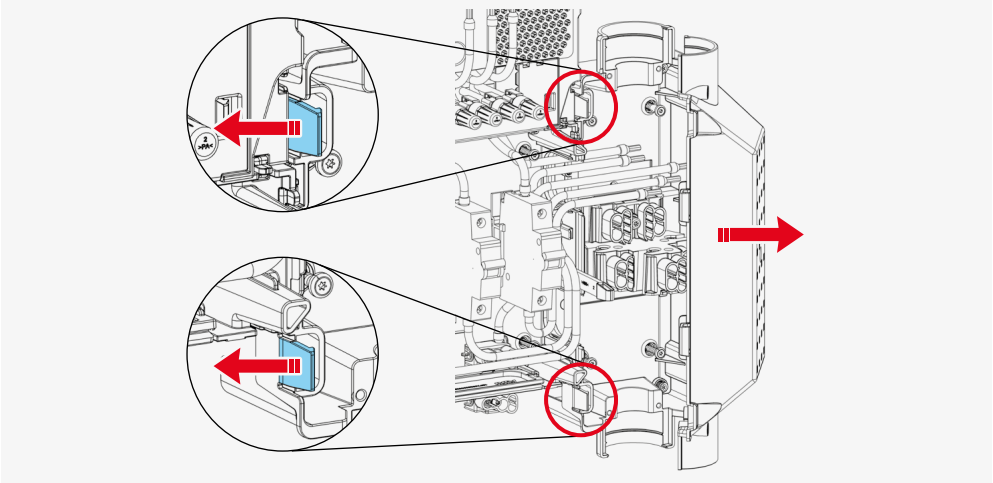
STAP 3

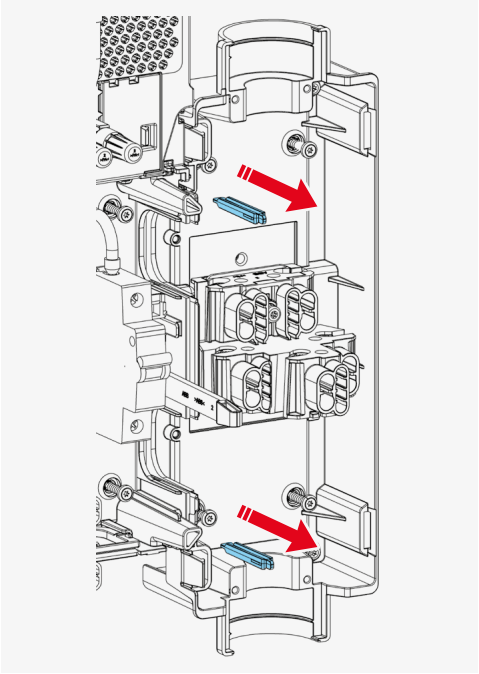
De kap kan nu recht naar voren worden verwijderd.



STAP 4

Verwijder de kap van de stijgleidingskast door de twee vergrendelingen naar links te drukken om de kap vervolgens opzij te draaien en los te nemen.





STAP 5

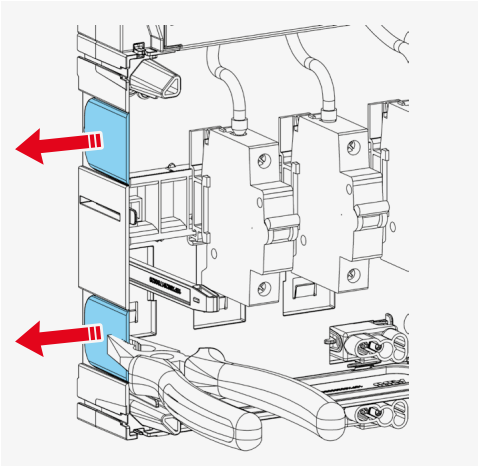
De stijgleidingskast zit standaard aan de rechterzijde gemonteerd. Verplaatsen naar de linkerzijde of onderzijde is mogelijk. Volg daartoe stap 5 t/m 8.

Verwijder de 2 koppelstukken, zie figuur. De stijgleidingskast kan nu worden losgenomen.

STAP 6

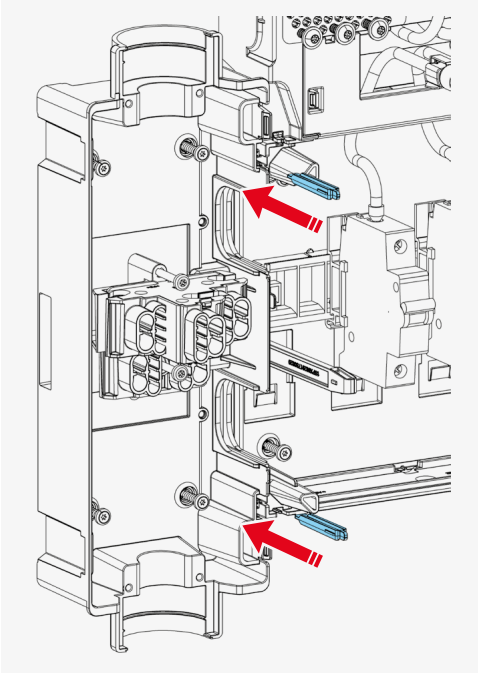
Knip of snij eerst de rand in en verwijder vervolgens de uitbreekpoorten.

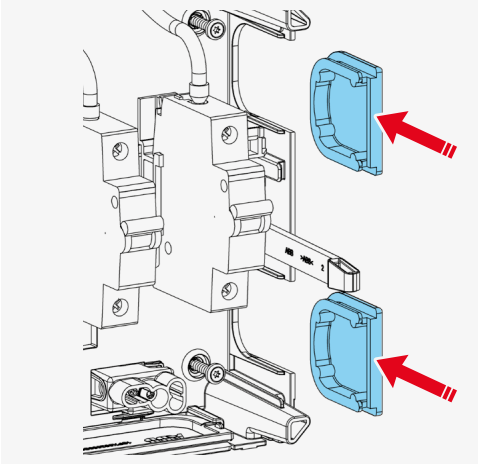
LET OP: Verwijder eventuele scherpe resten na het uitbreken van deze uitbreekpoorten.



STAP 7

Plaats de stijgleidingskast aan de linkerzijde en gebruik hiervoor de twee koppelstukken. Zie figuur.

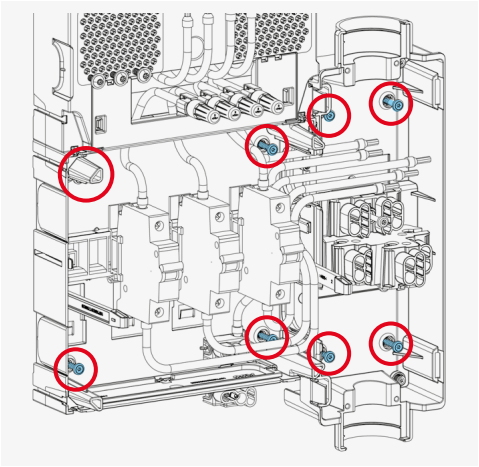




STAP 8

De openingen aan de rechterzijde kunnen worden opgevuld met de inzetstukken HCB-CG-SOL-40mm.

Let op: deze 2 inzetstukken moet je apart bestellen.

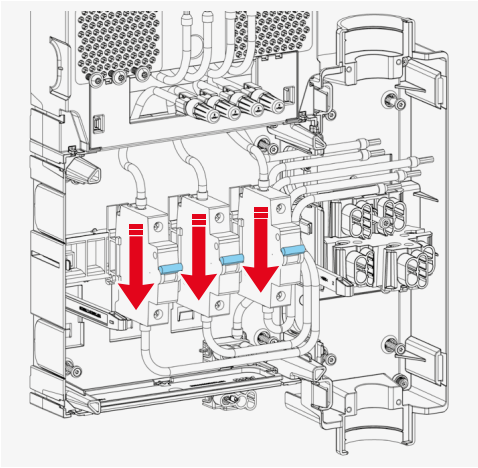


STAP 9

Schroef de 8 schroeven aan de binnenzijde vast.

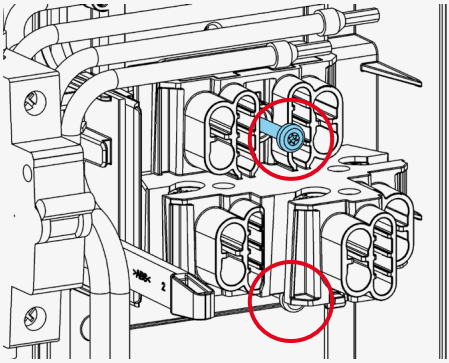
STAP 10

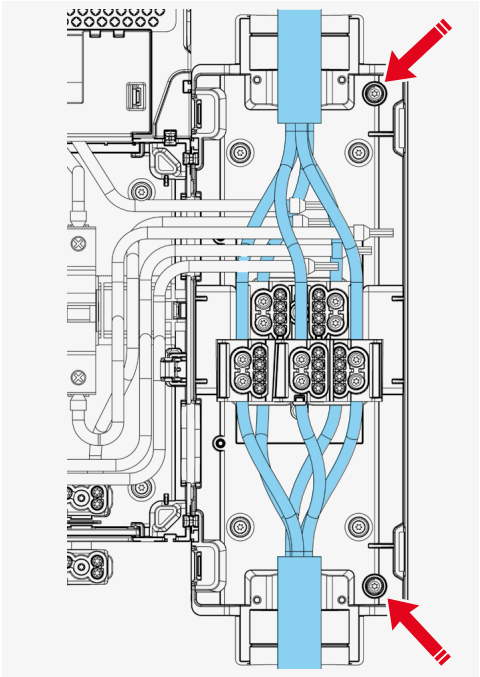
Schakel alle automaten uit.



STAP 11

Schroef het klemmenblok in de gewenste positie vast met de twee schroeven voordat de kabel hierin wordt gemonteerd. Zie afbeelding.



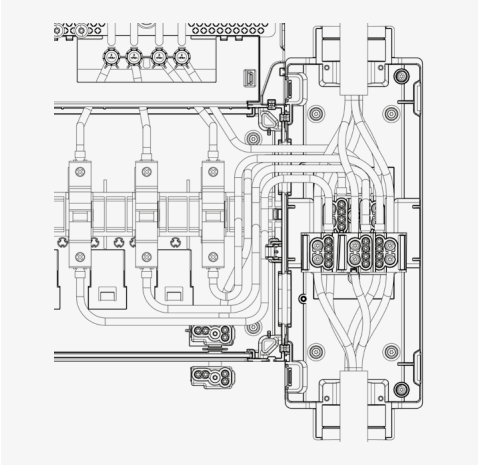


STAP 12

Pel de kabel aan over een lengte van 25 cm. Zorg ervoor dat het aangepelde deel van de kabel binnen de stijgleidingskast valt, zie figuur.

Plaats de aders in de freesklemmen en draai de twee schroeven van elke freesklem aan met 3 Nm.

LET OP: Indien de voedingskabel is voorzien van 4 aders en een apart aardscherm dan moeten de 2 frees-schroeven in de freesklem voor het aardscherm worden vervangen door de 2 schroeven zonder freesvoorziening die rechtsboven en rechtsonder in de stijgleidingskast zitten, zie de 2 pijlen in de figuur.



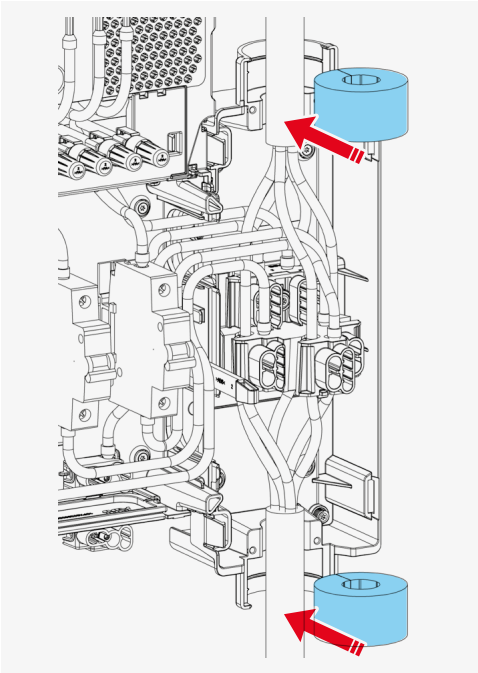
STAP 13

Sluit de bedrading van de automaten van achter naar voor aan op de juiste positie in het klemmenblok volgens de opgave van de netbeheerder.

STAP 14

Plaats de meegeleverde schuimringen om de kabel. De schuimringen zijn af te stemmen op de diameter van de kabel door van binnenuit een schuimlaag te verwijderen. De ringen moeten strak om de kabel passen. Plaats deze ringen aan de boven- en onderzijde van de stijgleidingskast. De spleet in de schuimring moet aan de achterzijde zitten, zie figuur.

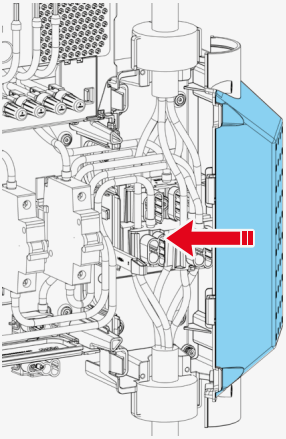
Zorg dat de schuimring zonder spleten om de kabel en in de stijgleidingskast zit.

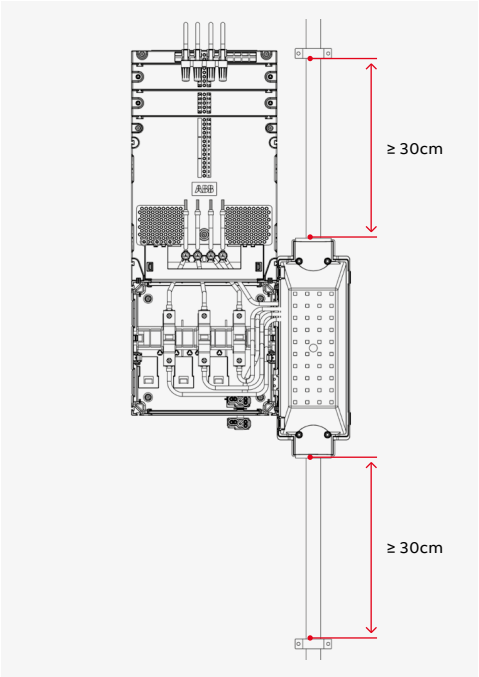


STAP 15

Sluit het deksel van de stijgleidingskast zodat deze boven en onder dicht klikt.

Controleer de juiste positionering zonder spleten van de schuimringen.

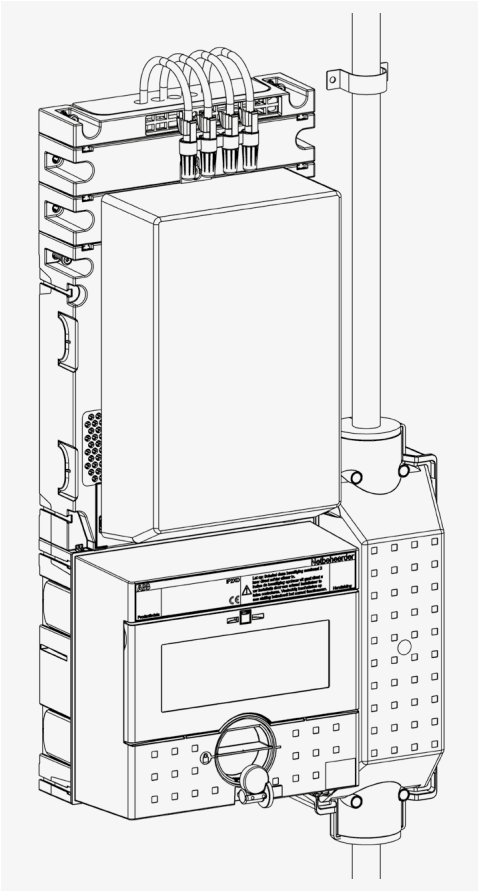




STAP 16

De kabel moet op ten minste 30 cm afstand boven en onder van de stijgleidingskast worden gebeugeld om een goede afdichting van de schuimringen te garanderen.

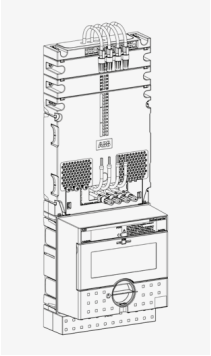
Monteer vervolgens de kWh meter en de kap volgens stappen 12 t/m 16 op pagina 11 - 13.



STAP 17

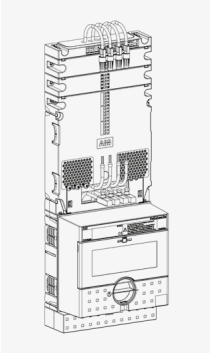
De installatie van de HAK is compleet.

STEKKER UITVOERINGEN



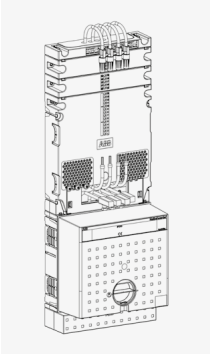
Laagbouw t/m 63 A met automaat

- HCB-LR-MCB-1x10C-P
- HCB-LR-MCB-1x40C-P
- HCB-LR-MCB-3x25C-P
- HCB-LR-MCB-3x40C-P
- HCB-LR-MCB-3x50C-P
- HCB-LR-MCB-3x63C-P



Laagbouw 80 A met automaat

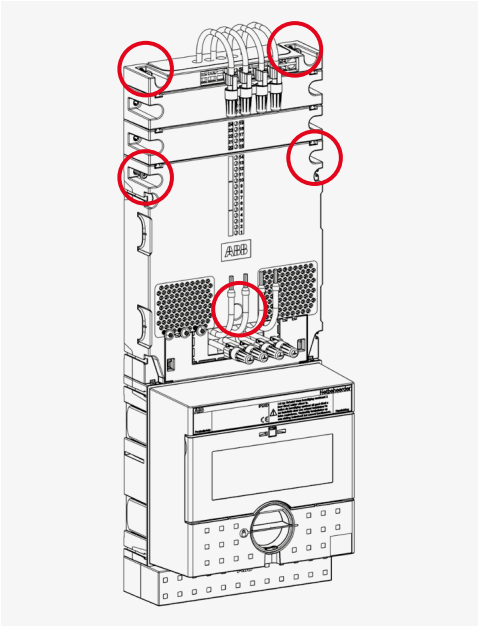
HCB-LR-MCB-3x80C-P



Laagbouw 63A en 80A met mespatroon

HCB-LR-FUSE-3x80-P

INSTRUCTIE



STAP 1

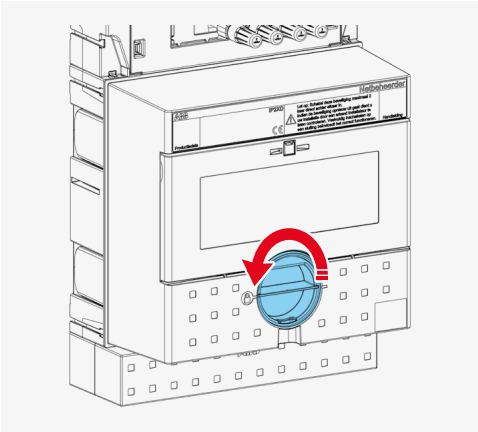
Monteer de gehele samengestelde kast volgens de richtlijnen in de IWUN vouwbladen en de in de NEN 2768 gereserveerde ruimte voor de E-aansluiting vlak tegen de achterwand. Gebruik hierbij een waterpas en schroef de 5 schroeven, zoals aangegeven in de figuur, vast.

Alleen voor saneringen kan het meterbord bij te weinig ruimte op maat worden gemaakt door een of meerdere bovenste delen te verwijderen.

LET OP: Voor 80 A versies MOET het bovenste 20 mm deel aanwezig blijven!

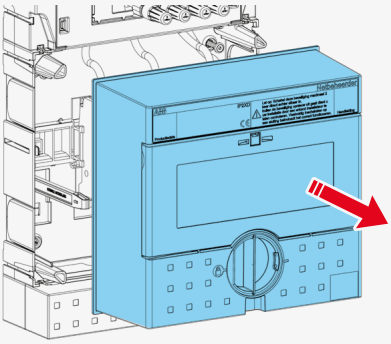
STAP 2

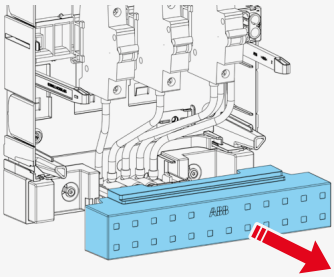
Ontgrendel de kap van de automaten door de knop een kwartslag linksom te draaien.



STAP 3

De kap kan nu recht naar voren worden verwijderd.



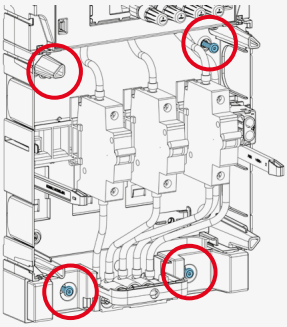


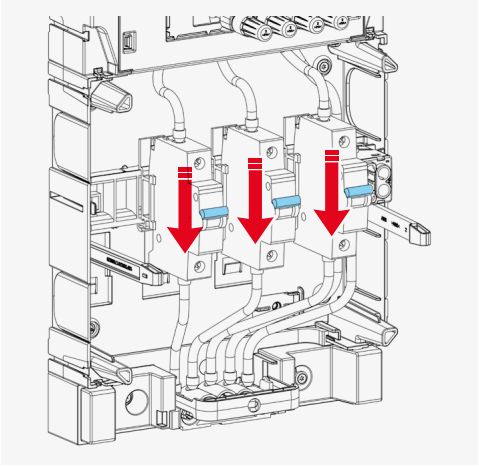
STAP 4

Verwijder het deksel van het stekker invoerstuk recht naar voren.

STAP 5

Schroef nu de 4 schroeven aan de binnenzijde vast.





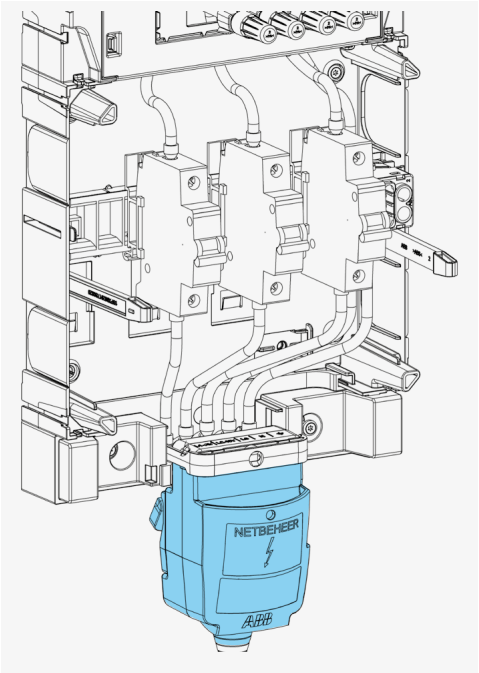
STAP 6

Schakel alle automaten uit.

STAP 7

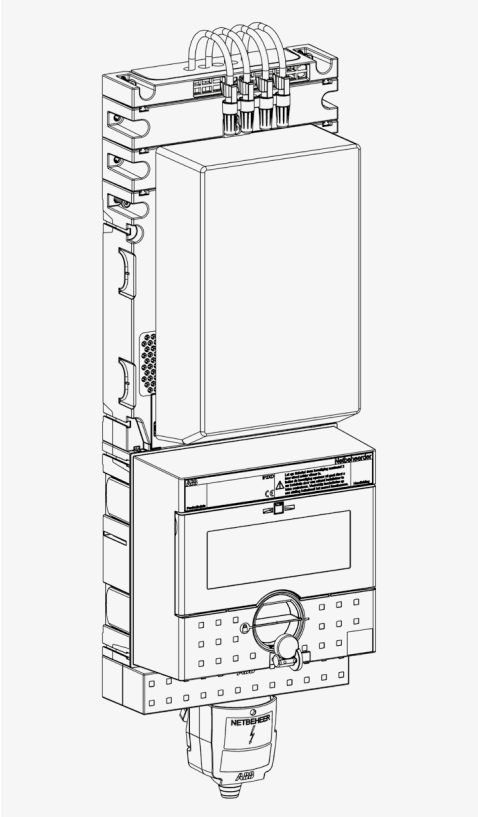
Plaats de stekker in het contradeel van het invoerstuk. Zorg dat de gele hendel na plaatsing weer horizontaal staat om de stekker te vergrendelen.

Monteer vervolgens de kWh meter, deksel en kap volgens stappen 12 t/m 16 op pagina 11 - 13.

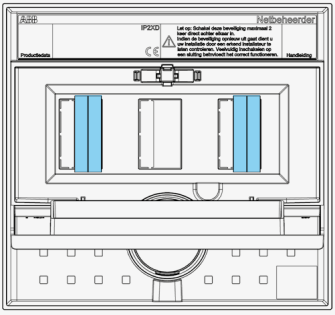


STAP 8

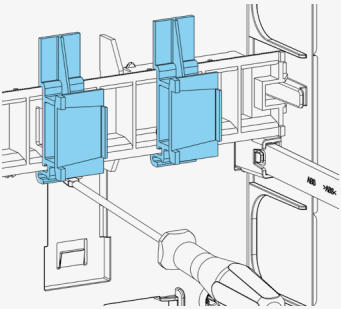
De installatie van de HAK met stekker is compleet.

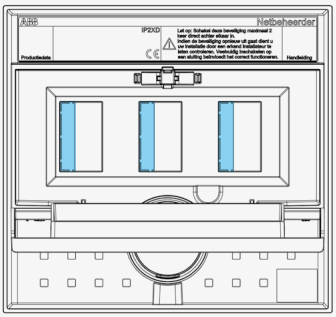


UITVOEREN VERZWARING



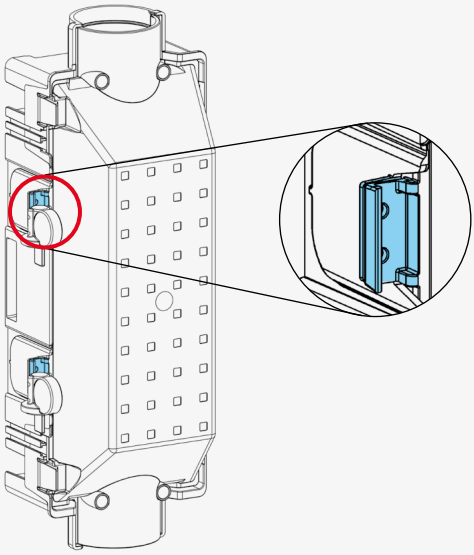
Bij uitbreiding van 1- naar 3-fasen moeten de afdekprofielen in de linker- en rechter opening in de kap worden verwijderd.





Bij verzwaring naar 80 A automaten moeten de verhogingsblokjes op de DIN-rail en de desbetreffende uitbreekdelen van de openingen in het deksel worden verwijderd.

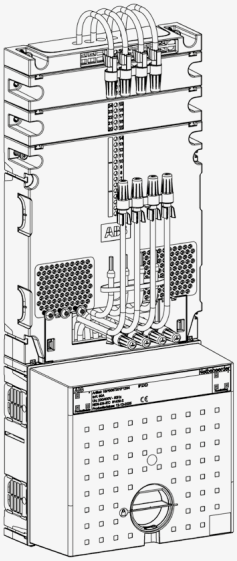
PLAATSEN STIJG-LEIDINGKAST SEPARAAT



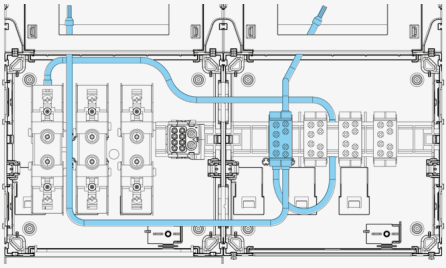
HCB-R-110x392
Stijgleidingkasten die op zichzelf worden gemonteerd moeten met twee (2) zegels worden beveiligd. Bij het verzegelen moeten beide gaten worden gebruikt, zie detail.

Voor een stijgleidingkast waarbij de poorten aan de zijkant open zijn die gesloten moeten worden is inzetstuk HCB-HR-SEAL-40mm beschikbaar.

SPECIALE UITVOERINGEN

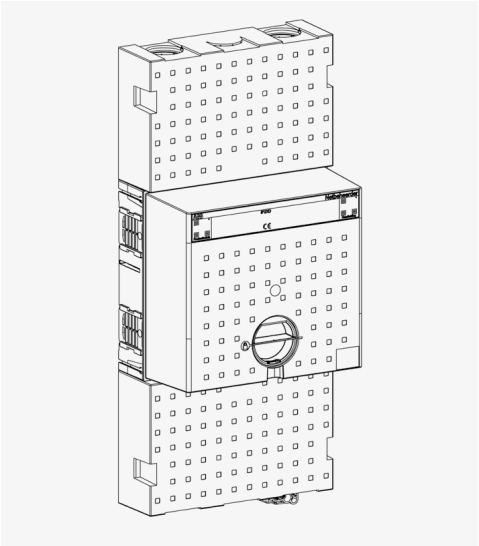


HCB-MLOEA
Het monteren van de MLOEA (Meerdere Leveranciers Op Een Aansluiting) kast geschiedt op dezelfde wijze als de standaard kasten. Zie stap 1 t/m stap 3 (pagina 6 - 7)



De draden vanaf de MLOEA kast naar de automaten (of mespatroonhouder) en PEN blok moeten bovenlangs lopen, nadat ze onder de DIN-rail door zijn gevoerd. De draden naar de kWh meter op het naastliggende meterbord moeten onderlangs lopen, zie figuur.

Voor verdere specifieke details, volg de instructies van de netbeheerder.



HCB-SP-FUSE NH-3x80-C
(Liander & Stedin)

Het monteren van deze zekeringkast voor appartementen met NH-zekeringhouder, geschikt tot 80 A, geschiedt op dezelfde wijze als de standaard kasten. Zie stap 1 t/m stap 3 (pagina 6-7) en stap 6 t/m stap 8 (pagina 8-9).

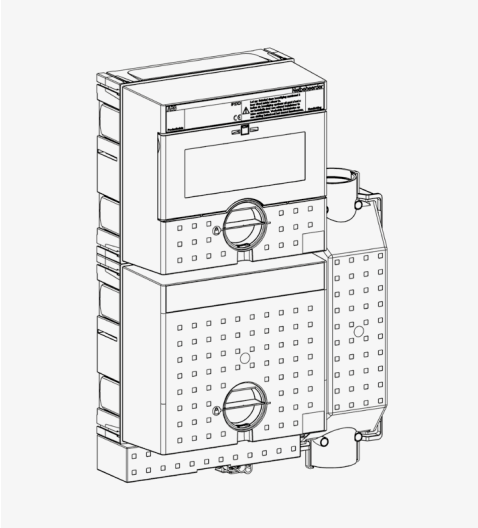
Voor verdere specifieke details, volg de instructies van de netbeheerder.

HCB-SP-MCB+FUSE-3x25C
(Stedin)

Het monteren van deze specifieke zekeringkast voor appartementen geschiedt op dezelfde wijze als de standaard kasten. Zie stap 1 t/m stap 5 (pagina 6-7).

Aan de bovenzijde wordt het meterbord met ventilatie (HCB-M-220x350) geplaatst. De onderste opening van de stijgleidingkast moet worden afgesloten met het meegeleverde ronde plaatje direct boven de schuimring.

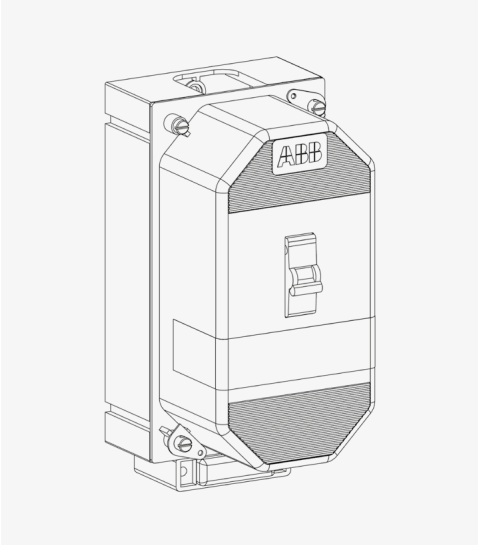
Voor verdere specifieke details, volg de instructies van de netbeheerder.

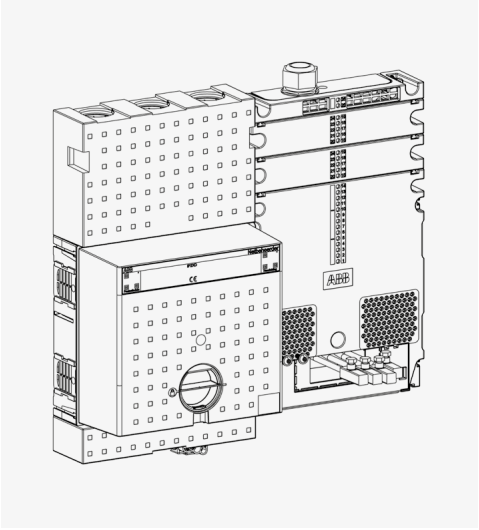


HCB-SP-MCB-1x25C-C
(Liander & Stedin)

In deze kleine renovatie aansluitkast zijn twee meegeleverde doppen aanwezig om de niet gebruikte fase draden mee te parkeren. Aan de bovenzijde kan het kleine meterbord (HCB-MS-145x255) worden geplaatst.

Voor verdere specifieke details, volg de instructies van de netbeheerder.

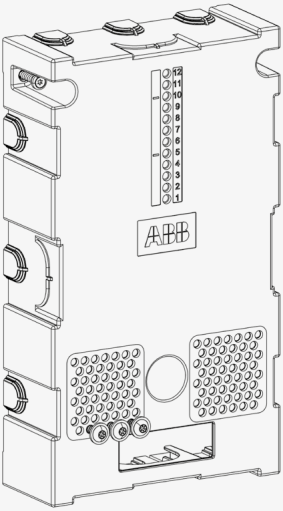




HCB-BK-H

Het monteren van deze horizontaal opgebouwde zekeringkast met NH-zekeringhouder, geschikt tot 80 A, geschiedt op dezelfde wijze als de standaard kasten. Zie stap 1 t/m stap 5 (pagina 6-7) en stap 10 t/m stap 17 (pagina 10-13).

Voor verdere specifieke details, volg de instructies van de netbeheerder.

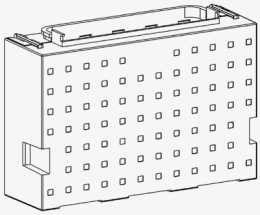


HCB-MS-145x255
Klein Meterbord, te monteren met de 3 voorgemonteerde schroeven. Er zijn ook 3 schroeven meegeleverd voor de montage van de 1-fase kWh meter. Wordt gebruikt bij renovatie samen met de renovatie aansluitkast (HCB-SP-MCB-1x25C-C).

Voor specifieke details, volg de instructies van de netbeheerder.

HCB-CGH-SEP-2
Dubbele kabel invoer module.
Voor montage zie stap 6 t/m stap 8 (pagina 27-28).

Voor verdere specifieke details, volg de instructies van de netbeheerder.



IEC 61439 Specification			HCB-LR-MCB-1x10C-C	HCB-LR-MCB-1x10C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2915	1SPB007201F3915
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			10	10
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	10	10
Rated current of a main outgoing circuit	Inc	A	10	10
Group rated current of a main circuit	Ing	A	10	10
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			6 mm^2 min./16 mm^2 max	6 mm^2

IEC 61439 Specification			HCB-LR-MCB-1x40C-C	HCB-LR-MCB-1x40C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2900	1SPB007201F3900
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			40	40
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	40	40
Rated current of a main outgoing circuit	Inc	A	40	40
Group rated current of a main circuit	Ing	A	40	40
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			6 mm^2 min./16 mm^2 max	6 mm^2

IEC 61439 Specification			HCB-LR-MCB-3x25C-C	HCB-LR-MCB-3x25C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2910	1SPB007201F3910
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			25	25
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	25	25
Rated current of a main outgoing circuit	Inc	A	25	25
Group rated current of a main circuit	Ing	A	25	25
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			6 mm^2 min./16 mm^2 max	6 mm^2

IEC 61439 Specification			HCB-LR-MCB-3x40C-C	HCB-LR-MCB-3x40C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2911	1SPB007201F3911
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			40	40
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	40	40
Rated current of a main outgoing circuit	Inc	A	40	40
Group rated current of a main circuit	Ing	A	40	40
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			6 mm^2 min./16 mm^2 max	6 mm^2

IEC 61439 Specification			HCB-LR-MCB-3x50C-C	HCB-LR-MCB-3x50C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2912	1SPB007201F3912
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			50	50
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part “X” shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	50	50
Rated current of a main outgoing circuit	Inc	A	50	50
Group rated current of a main circuit	Ing	A	50	50
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			10 mm^2 min./16 mm^2 max	16 mm^2

IEC 61439 Specification			HCB-LR-MCB-3x63C-C	HCB-LR-MCB-3x63C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2913	1SPB007201F3913
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			63	63
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	63	63
Rated current of a main outgoing circuit	Inc	A	63	63
Group rated current of a main circuit	Ing	A	63	63
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			16 mm^2	16 mm^2

IEC 61439 Specification			HCB-LR-MCB-3x80C-C	HCB-LR-MCB-3x80C-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2925	1SPB007201F3925
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			80	80
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part “X” shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	80	80
Rated current of a main outgoing circuit	Inc	A	80	80
Group rated current of a main circuit	Ing	A	80	80
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	700x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			16 mm^2	16 mm^2

IEC 61439 Specification			HCB-LR-FUSE-3x80-C	HCB-LR-FUSE-3x80-P
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2402	1SPB007201F3402
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			80	80
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-2	IEC 61439-2
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	80	80
Rated current of a main outgoing circuit	Inc	A	80	80
Group rated current of a main circuit	Ing	A	80	80
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Skilled	Skilled
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			NH000	NH000
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	700x220x135	600x220x135
p Weight, if required.			NA	NA
Incoming wiring size			16 mm^2 min./25 mm^2 max	16 mm^2

IEC 61439 Specification			HCB-LR-X-3x63-C	HCB-HR-MCB-1x40C-C
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2927	1SPB007201F2930
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			63	40
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	63	40
Rated current of a main outgoing circuit	Inc	A	63	40
Group rated current of a main circuit	Ing	A	63	40
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			-	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	620x330x135
p Weight, if required.			NA	NA
Incoming wiring size			16 mm^2 max	10 mm^2 min./25 mm^2 max.

IEC 61439 Specification				HCB-HR-MCB-3x25C-C	HCB-HR-MCB-3x40C-C
6.1 Assembly designation marking					
a Assembly manufacturer's name or trade mark (see 3.10.2)				ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer				1SPB007201F2940	1SPB007201F2941
c Means of identifying date of manufacture				QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)				25	40
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)				230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)				50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)				IEC 61439-3	IEC 61439-3
6.2 Documentation					
Rated voltage (of the assembly)	Un	V		230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V		230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V		690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV		6	6
Rated current of an assembly	InA	A		25	40
Rated current of a main outgoing circuit	Inc	A		25	40
Group rated current of a main circuit	Ing	A		25	40
Rated peak withstand current	Ipk	kA		15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA		15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA		15	15
Rated diversity factor	RDF			1	1
Rated frequency	fn	Hz		50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics				NA	NA
b Pollution degree of the macro-environment				3	3
c Types of earthing system for which the assembly is designed				TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation				Indoor	Indoor
e Stationary or movable				Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code				IP2XD	IP2XD
g Intended for use by ordinary or skilled persons				Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))				A	A
i Special service conditions, if applicable				NA	NA
j External design				Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable				IK07	IK07
l Type of construction – fixed or removable parts				Fixed	Fixed
m Type of short-circuit protective devices				MCB	MCB
n Measures for protection against electric shock				Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)			mm	620x330x135	620x330x135
p Weight, if required.				NA	NA
Incoming wiring size				10 mm^2 min./25 mm^2 max	10 mm^2 min./25 mm^2 max

IEC 61439 Specification			HCB-BK-H
6.1 Assembly designation marking			
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2405
c Means of identifying date of manufacture			QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			80
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz
g IEC 61439-X (the specific part “X” shall be identified)			IEC 61439-2
6.2 Documentation			
Rated voltage (of the assembly)	Un	V	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6
Rated current of an assembly	InA	A	80
Rated current of a main outgoing circuit	Inc	A	80
Group rated current of a main circuit	Ing	A	80
Rated peak withstand current	Ipk	kA	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15
Rated diversity factor	RDF		1
Rated frequency	fn	Hz	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA
b Pollution degree of the macro-environment			3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor
e Stationary or movable			Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD
g Intended for use by ordinary or skilled persons			Skilled
h Electromagnetic compatibility (EMC classification (see Annex J))			A
i Special service conditions, if applicable			NA
j External design			Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07
l Type of construction – fixed or removable parts			Fixed
m Type of short-circuit protective devices			NH000
n Measures for protection against electric shock			Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	389x440x135
p Weight, if required.			NA
Incoming wiring size			16 mm^2 min./25 mm^2 max

IEC 61439 Specification			HCB-MLOEA	HCB-SP-Fuse NH-3x80-C
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2406	1SPB007201F2403
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			80	80
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-2	IEC 61439-2
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	80	80
Rated current of a main outgoing circuit	Inc	A	80	80
Group rated current of a main circuit	Ing	A	80	80
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Skilled	Skilled
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			NA	Fuse
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	600x220x135	491x220x135
p Weight, if required.			NA	NA
Incoming wiring size			16 mm²	16 mm²
Outgoing wiring size			NA	16 mm²

IEC 61439 Specification			HCB-SP-MCB+FUSE-3x25	HCB-SP-MCB-1x25-C
6.1 Assembly designation marking				
a Assembly manufacturer's name or trade mark (see 3.10.2)			ABB	ABB
b Type designation or identification number or any other means of identification, making it possible to obtain relevant information from the assembly manufacturer			1SPB007201F2401	1SPB007201F2426
c Means of identifying date of manufacture			QR-code	QR-code
d Rated current of the assembly InA (see 3.8.10.7 and 5.3.1)			50	25
e Rated voltage of the assembly Un (see 3.8.9.1 and 5.2.1)			230/400 V	230/400 V
f Rated frequency of the assembly fn (see 3.8.12 and 5.5)			50 Hz	50 Hz
g IEC 61439-X (the specific part "X" shall be identified)			IEC 61439-3	IEC 61439-3
6.2 Documentation				
Rated voltage (of the assembly)	Un	V	230/400	230/400
Rated operational voltage (of a circuit of an assembly)	Ue	V	230/400	230/400
Rated insulation voltage (of a circuit of an assembly)	Ui	V	690	690
Rated impulse withstand voltage (of the assembly)	Uimp	kV	6	6
Rated current of an assembly	InA	A	50	25
Rated current of a main outgoing circuit	Inc	A	50	25
Group rated current of a main circuit	Ing	A	50	25
Rated peak withstand current	Ipk	kA	15	15
Rated short-time withstand current of a main circuit of an assembly)	Icw	kA	15	15
"Rated conditional short-circuit current(of an assembly or a circuit of an assembly)"	Icc	kA	15	15
Rated diversity factor	RDF		1	1
Rated frequency	fn	Hz	50	50
a Additional requirements depending on the use of a functional unit (e.g. type of coordination, overload characteristics			NA	NA
b Pollution degree of the macro-environment			3	3
c Types of earthing system for which the assembly is designed			TT, TN, TN-C	TT, TN, TN-C
d Indoor and/or outdoor installation			Indoor	Indoor
e Stationary or movable			Stationary	Stationary
f Degree of protection against contact with hazardous live parts ingress of solid foreign bodies and water, IP code			IP2XD	IP2XD
g Intended for use by ordinary or skilled persons			Ordinary	Ordinary
h Electromagnetic compatibility (EMC classification (see Annex J))			A	A
i Special service conditions, if applicable			NA	NA
j External design			Enclosed assembly	Enclosed assembly
k Degree of protection against mechanical impact, IK code, if applicable			IK07	IK07
l Type of construction – fixed or removable parts			Fixed	Fixed
m Type of short-circuit protective devices			MCB	MCB
n Measures for protection against electric shock			Total insulation	Total insulation
o Overall dimensions (including projections e.g. handles, covers, doors)		mm	470x330x135	225x113x131
p Weight, if required.			NA	NA
Incoming wiring size			16 mm^2	6 mm^2
Outgoing wiring size			16 mm^2	NA

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ABB b.v.
Electrification Business Area
George Hintzenweg 81, 3068 AX Rotterdam
Postbus 301, 3000 AH Rotterdam

Algemene informatie
abb.nl/lowvoltage

Support
abb-elsupport.nl

Volg ABB ook via:

- ABB Electrification NL
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