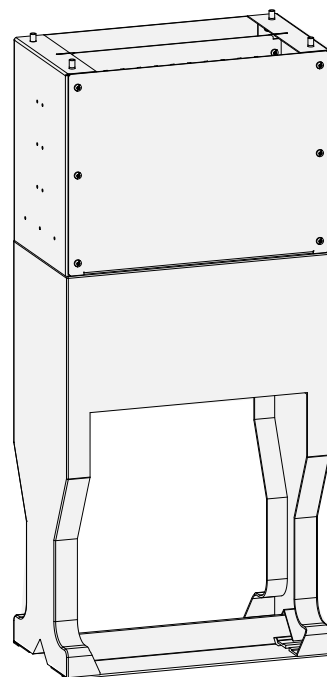
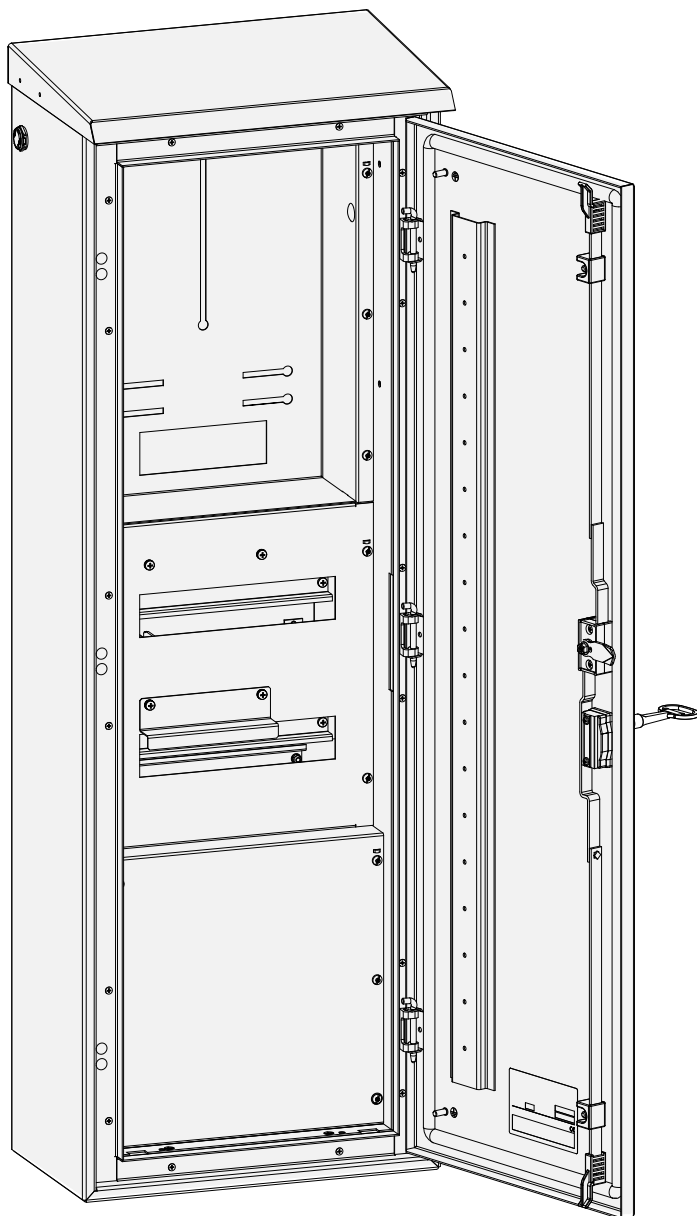
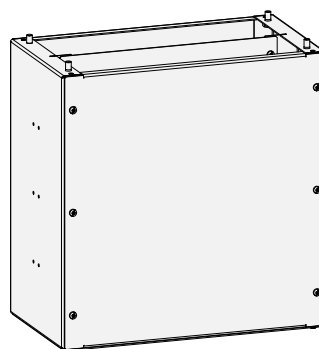


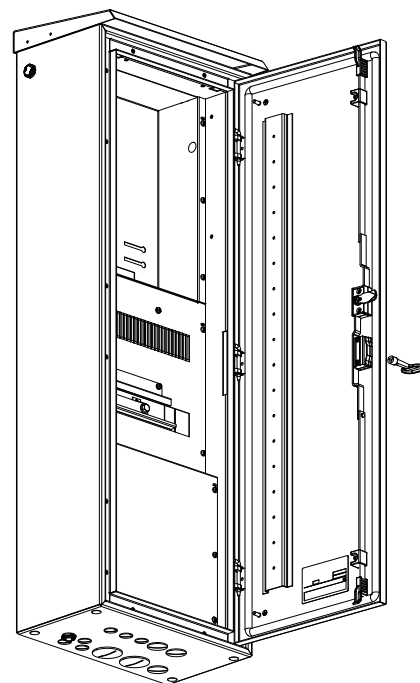
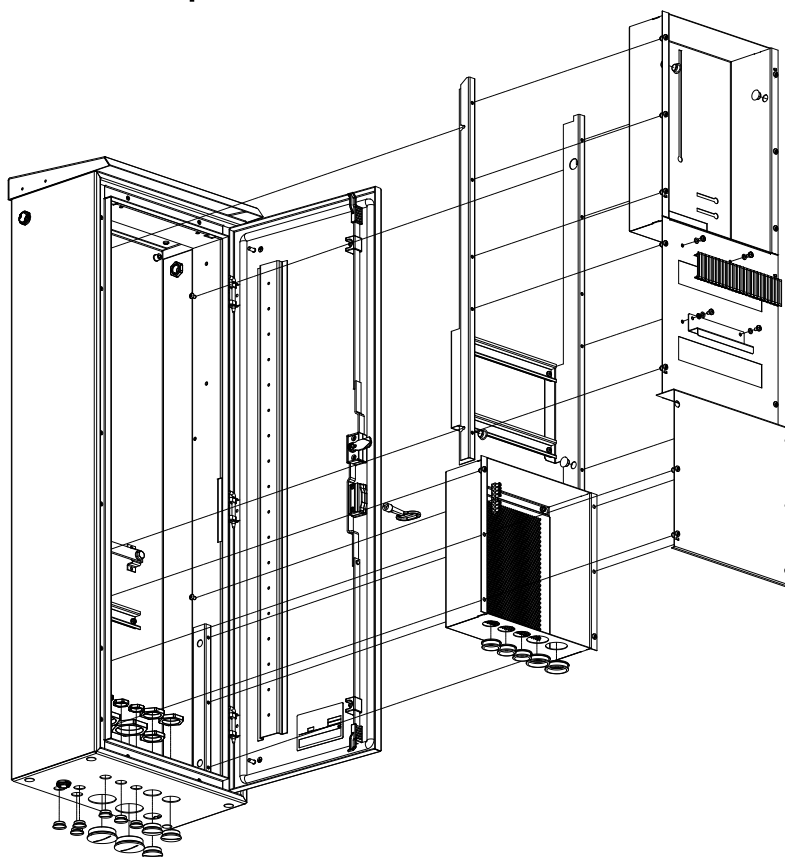
**Spenningsførende deler!**

Kun sakkyndige personer kan utføre arbeid i henhold til denne veiledningen

**1702802 Sokkel****1702801 Kabelkanal**

- 1702800 Tomt skap
- 1702803 Komplet skap for 400V TN
- 1702804 Komplet skap for 230V IT
- 1702805 Komplet skap for 230V TT/IT uten distribuert jordleder (luftstrek)

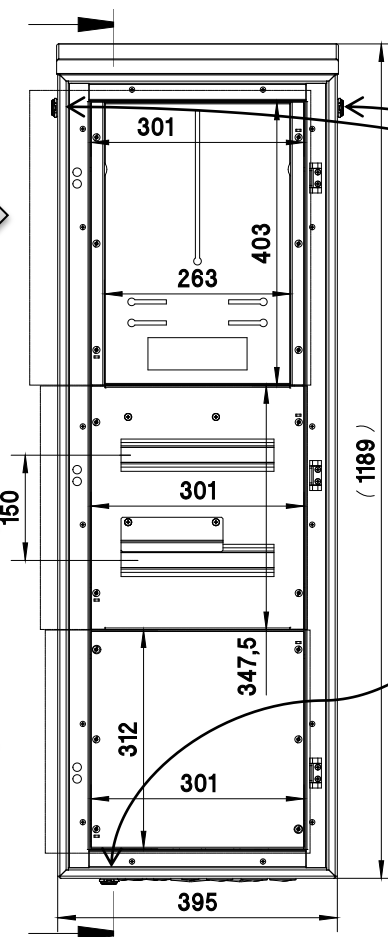
1702800 Skap



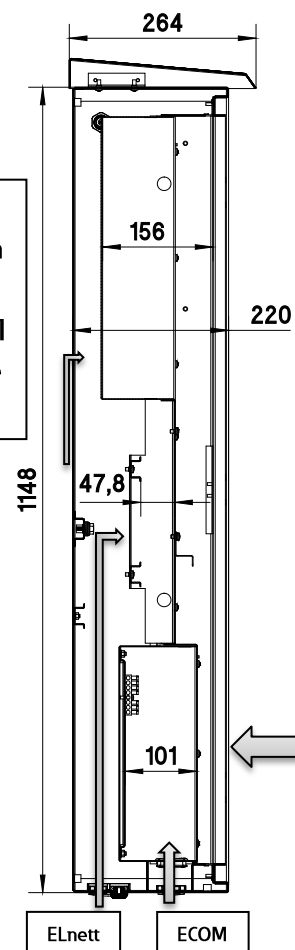
Måler →

Elnett →

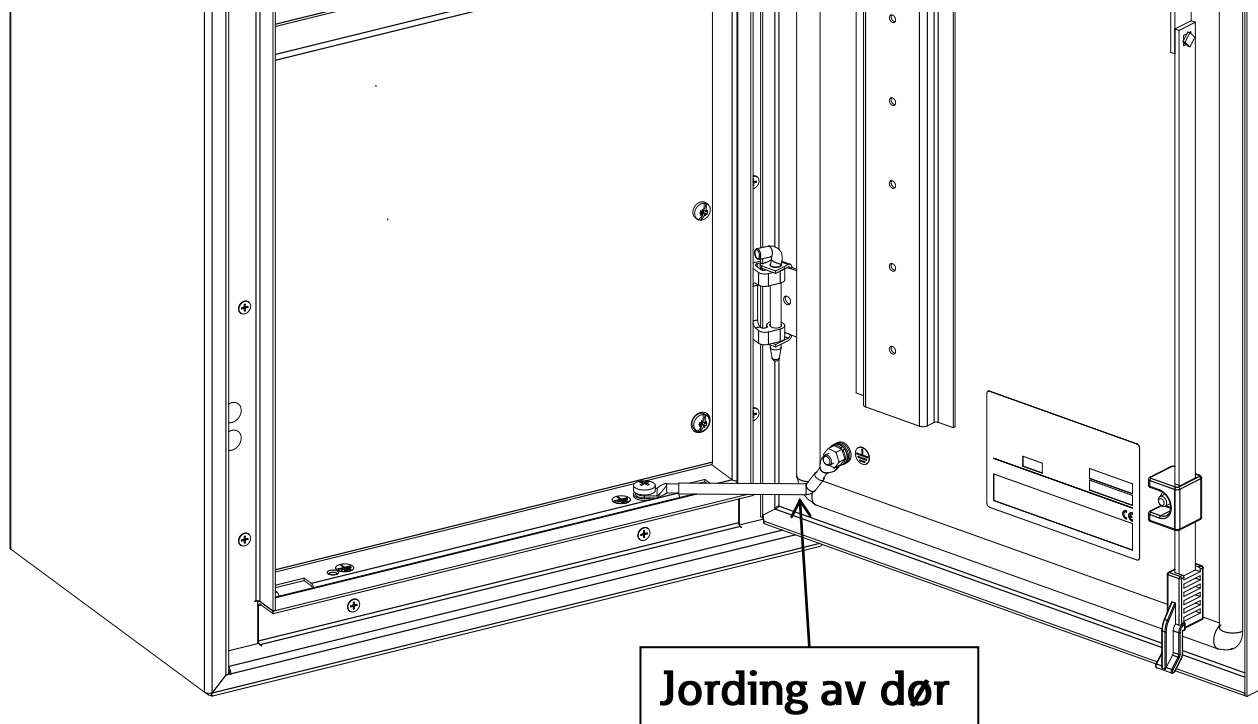
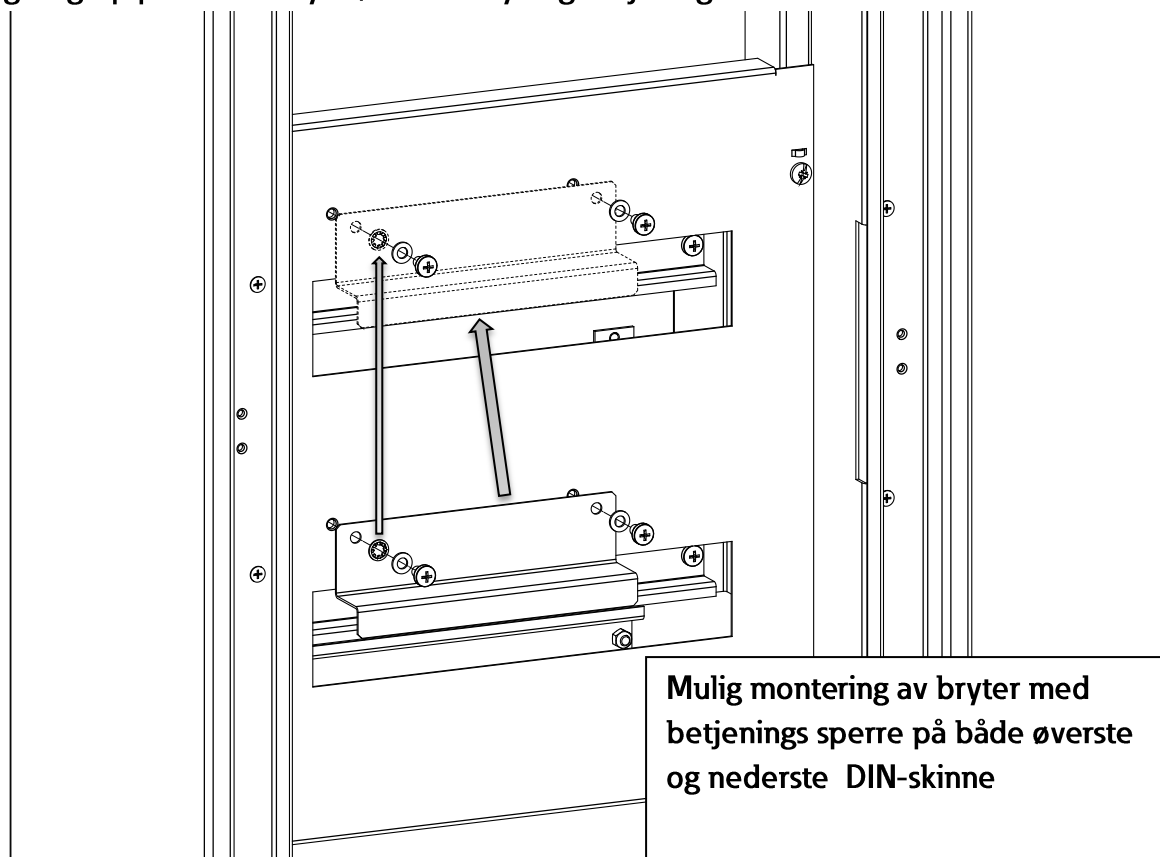
EKOM →



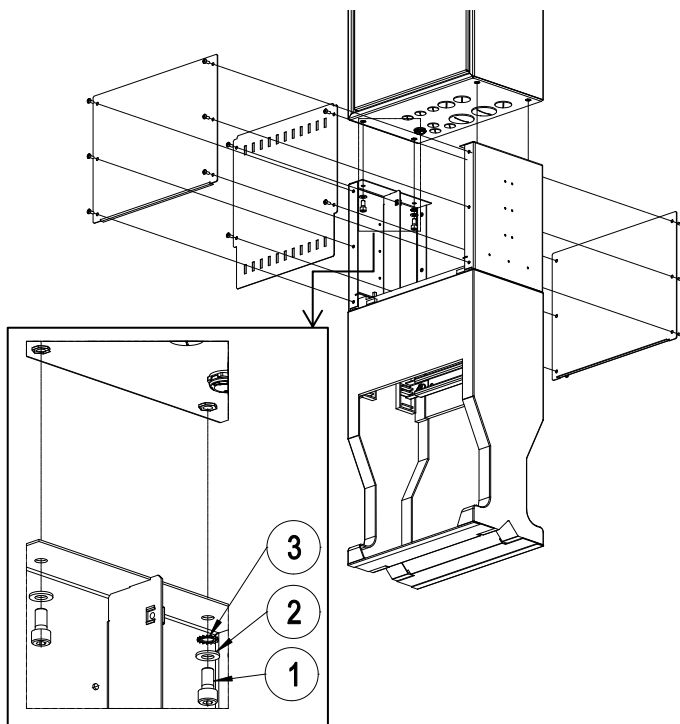
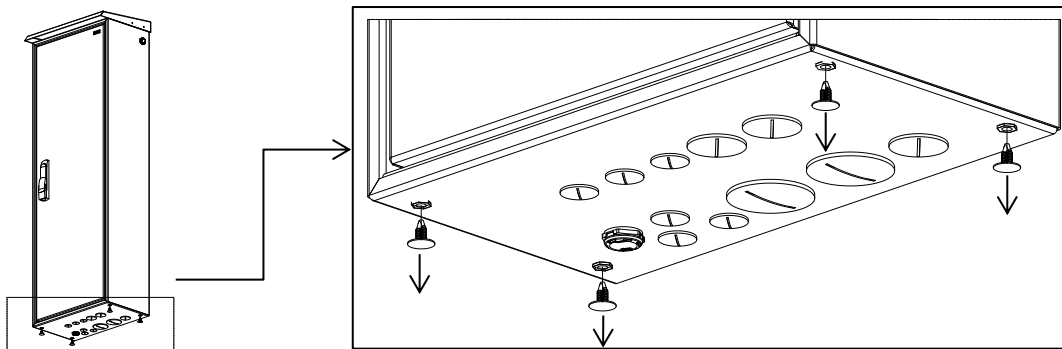
Ventilasjonsplugg.
Må ikke fjernes, men
en i topp kan
erstattes med nippel
for utvendig antenne
når dette monteres.



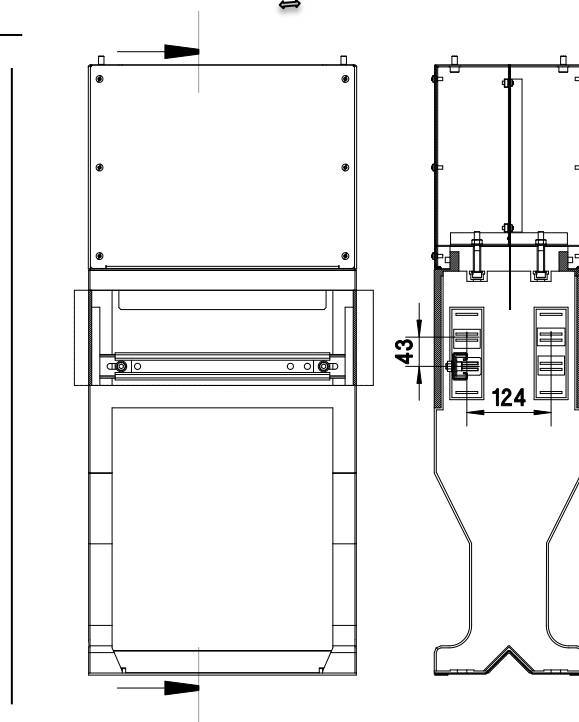
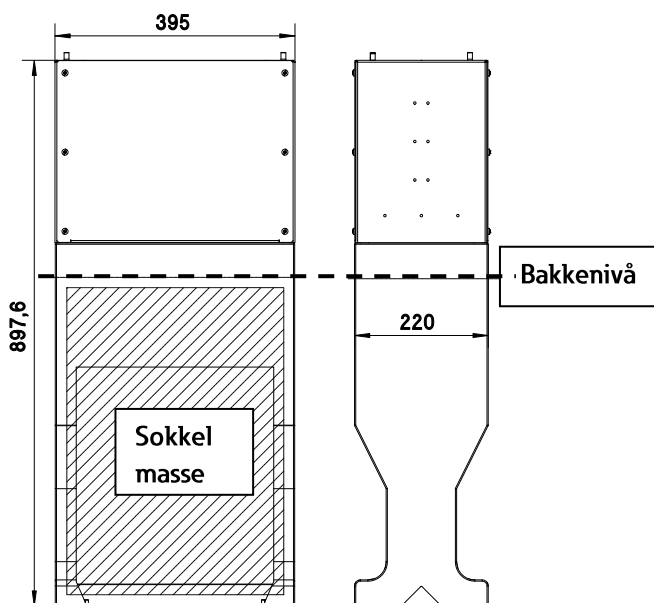
Låsning av grep på inntaksbryter, for usakkyndig betjening iht NEK 439-3



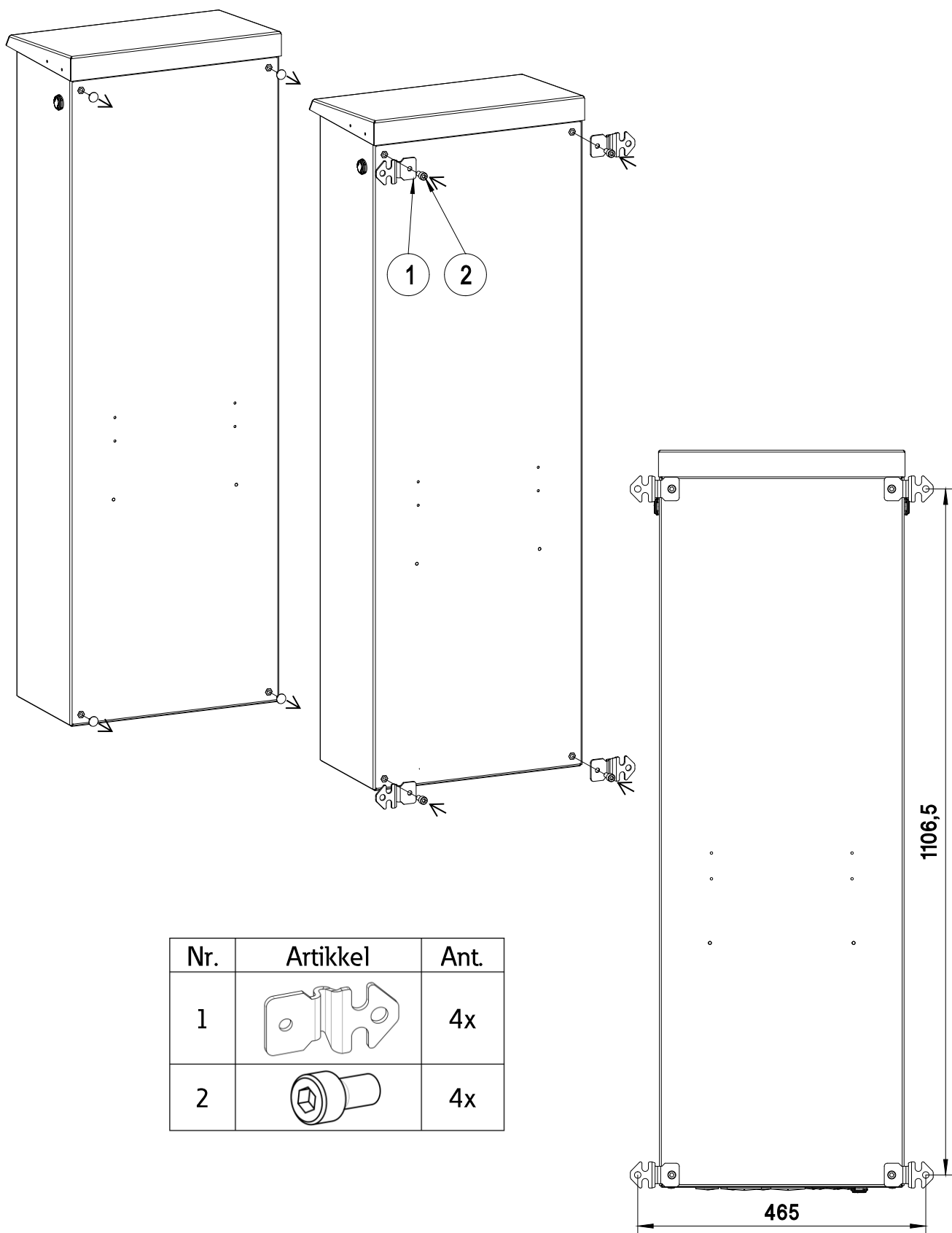
1702802 Sokkel



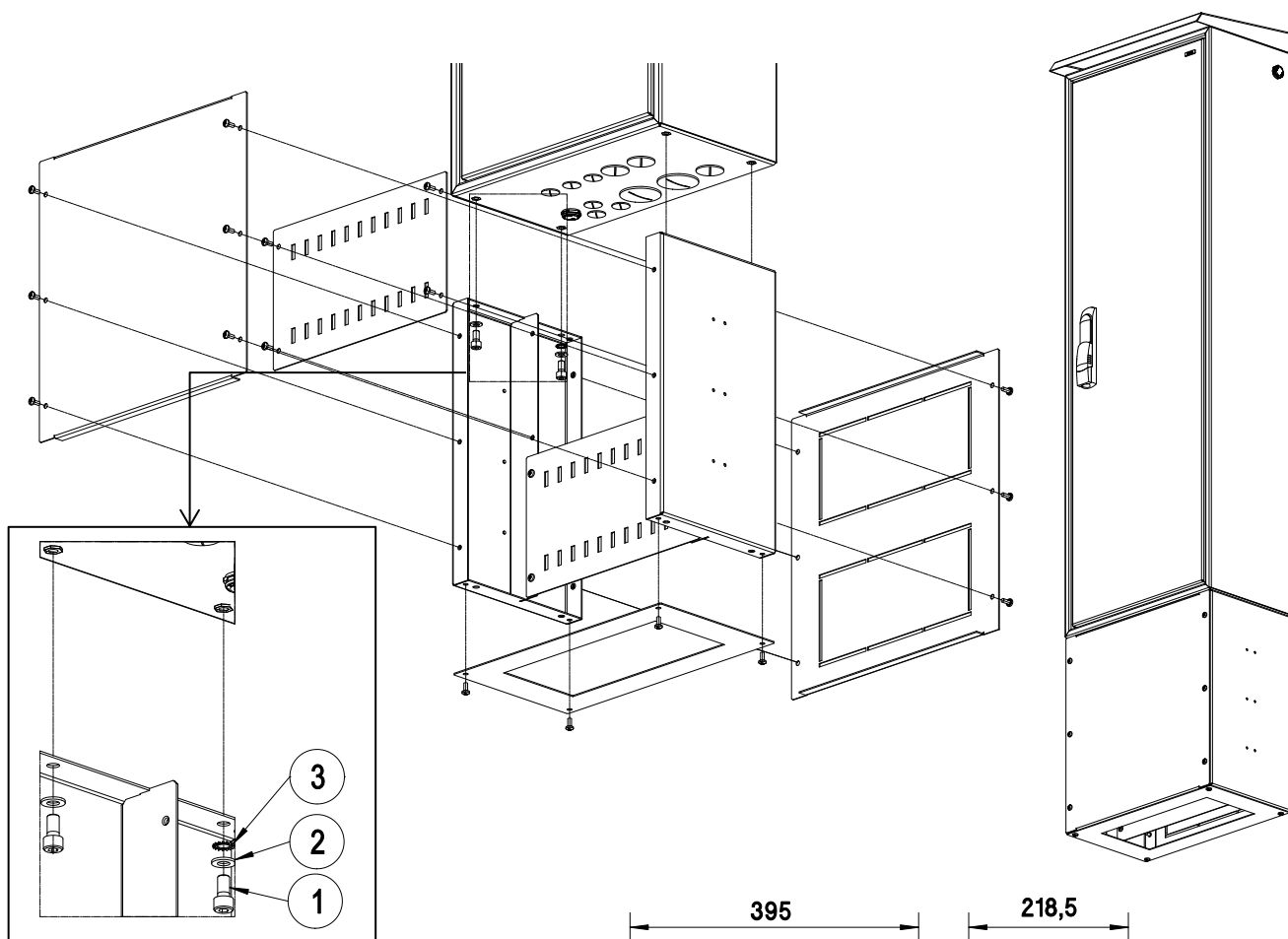
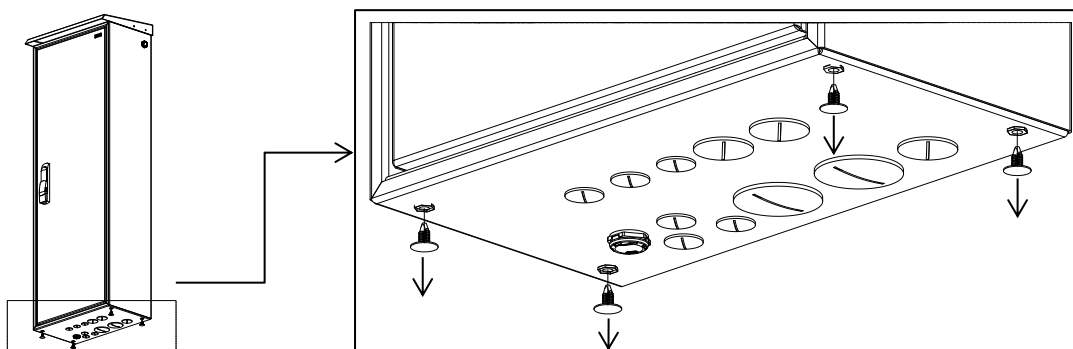
Nr.	Artikkel	Ant
1	 M8x16	4x
2		4x
3		1x
4	Sokkelmasse	1x



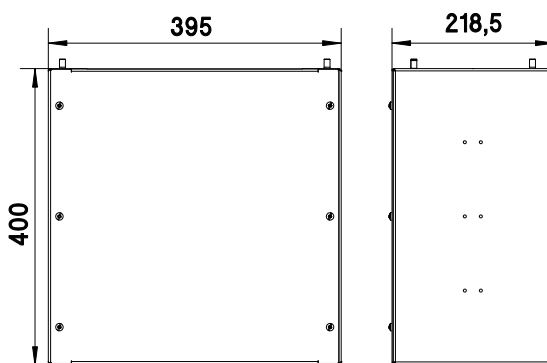
Veggmontering



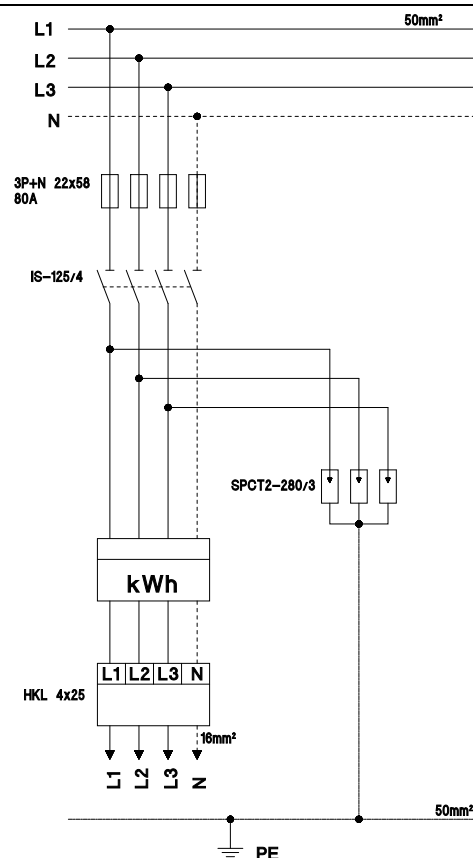
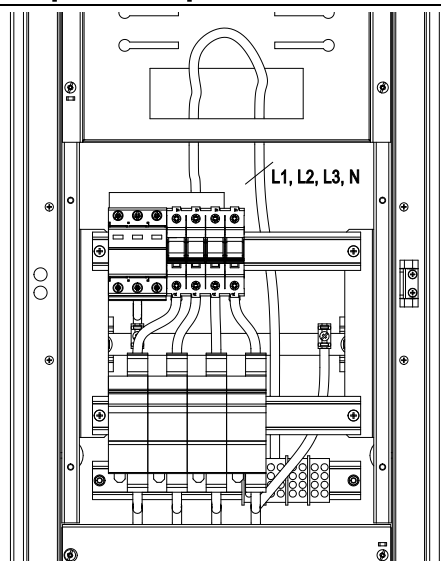
1702801 Kabelkanal



Nr.	Artikel	Ant
1	 M8x16	4x
2		4x
3		1x

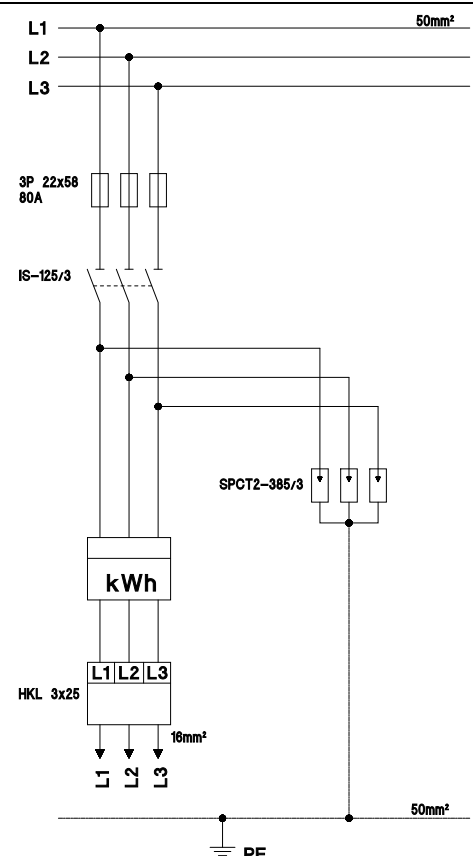
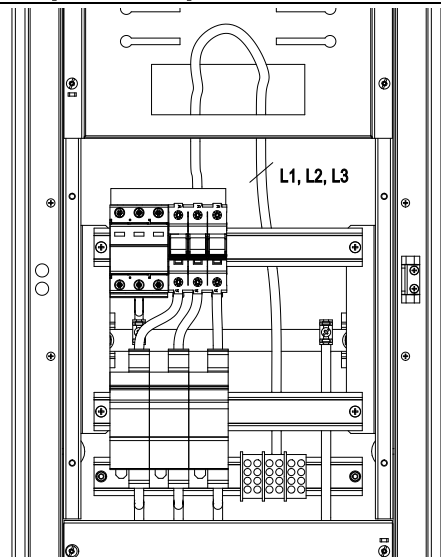


17 028 03 Komplet skap for 400V TN



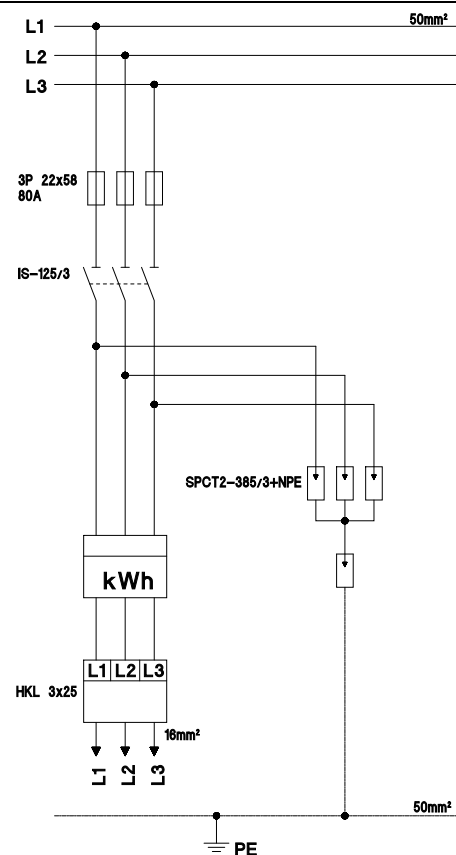
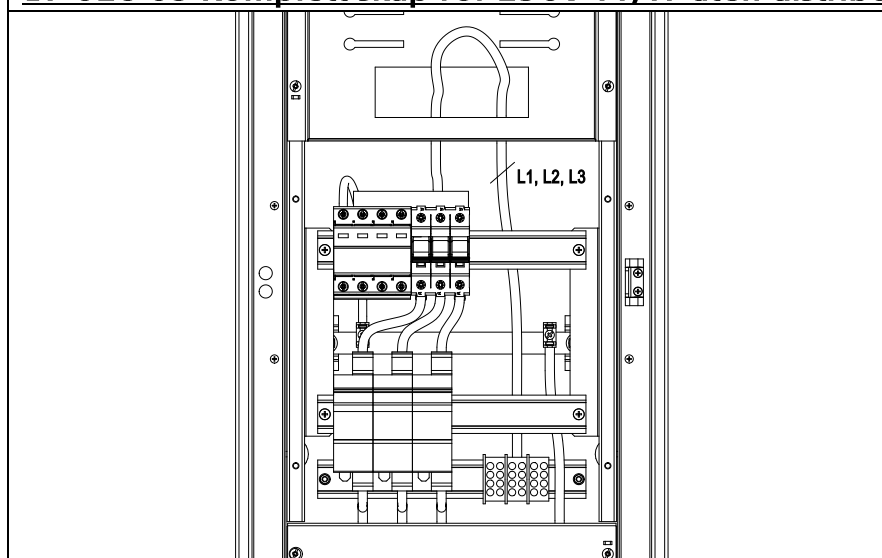
- El.nr 16 641 92 Modulær sikringsholder 125A 3+N
- El.nr 16 641 88 Sylindrisk sikring 22 x 58 80A GG 500V A
- El.nr 14 608 61 Lastbryter IS-125/4
- El.nr 16 097 67 Overspenningsvern SPCT2-280/3
- El.nr 12 001 04 HKL 4x25 qmm / fingersicher

17 028 04 Komplet skap for 230V IT



- El.nr 16 641 91 Modulær sikringsholder 125A 3 pol
- El.nr 16 641 88 Sylindrisk sikring 22 x 58 80A GG 500V A
- El.nr 14 608 60 Lastbryter IS-125/3
- El.nr 16 097 70 Overspenningsvern SPCT2-385/3
- El.nr 12 001 05 HKL 3x25 pol./fingersicher

17 028 05 Komplet skap for 230V TT/IT uten distribuert jordleder (luftstrek)



El.nr 16 641 91	Modulær sikringsholder 125A 3 pol
El.nr 16 641 88	Sylindrisk sikring 22 x 58 80A GG 500V A
El.nr 14 608 60	Lastbryter IS-125/3
El.nr 16 641 97	Overspenningsvern SPCT2-385-3+NPE
El.nr 12 001 05	HKL 3x25 pol./fingersicher

Design verification Bauartnachweis

No. DV-OMB-NO-001
Nr.

according to IEC 61439-3 in its up-to-date valid version
for Low-voltage switchgear and controlgear assemblies with access to unskilled people (DBO)
gemäß IEC 61439-3 in seiner am Ausstellungstag gültigen Ausführung
für Niederspannungsschaltgerätekombination

Original manufacturer
Ursprünglicher Hersteller

Eaton Industries (Austria) GmbH, Eugenia 1, 3943 Schrems, Austria

Trade mark
Warenzeichen

Outdoor Metering Board NO

Verified Unit

MDB-BI-12040/BOLIGSKAP-TKS*

Nachgewiesene Einheit

Connection cabinet TKS residential

Type Reference
Typenbezeichnung

MDB-BI-12040/BOLIGSKAP-TKS*

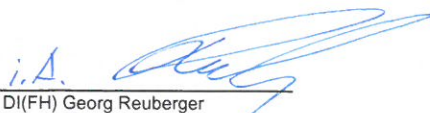
The referred Type/Unit has been verified in accordance with the requirements of IEC 61439-3
Der benannte Type/Einheit wurde gemäß den Anforderungen aus IEC 61439-3 nachgewiesen

1) Construction / Konstruktion

Necessary application Anzuwendende Regel	Clause Abschnitt	Characteristic to be verified Nachzuweisendes Merkmal	Verification document Nachweisdokument
☒	10.2	Strength of materials and parts / Festigkeit von Werkstoffen und Teilen	2.03.02429.1.0/Eaton/Corrosion + 1065_Verification_OMB-NO_IEC_61439-3; 2.03.02429.1.0/MDB-BI-7647/SKAP; 2.03.02429.1.0/MDB-BI-7647/SKAP; 412.902 Resistance to ultra-violet CTI-CB 880-1 + 1065_Verification_OMB-NO_IEC_61439-3
☒	10.3	Degree of protection of enclosures / Schutzart von Umhüllungen	
☒	10.4	Clearances and creepage distances / Luft- und Kriechstrecken	2.03.02429.1.0/MDB-BI-7647/SKAP + 1065_Verification_OMB-NO_IEC_61439-3
☒	10.5	Protection against electric shock and integrity of protective circuits / Schutz gegen elektr. Schlag u. Durchgängigkeit von Schutzleiterkreisen	1065_Verification_OMB-NO_IEC_61439-3; 2.03.02429.1.0/MDB-BI-7647/SKAP
☒	10.6	Incorporation of switching devices and components / Einbau von Betriebsmitteln	1065_Verification_OMB-NO_IEC_61439-3
☒	10.7	Internal electrical circuits and connections / Innere Stromkreise und Verbindungen	1065_Verification_OMB-NO_IEC_61439-3
☒	10.8	Terminals for external conductors / Anschlüsse für von außen eingeführte Leiter	1065_Verification_OMB-NO_IEC_61439-3

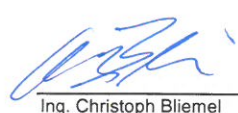
2) Performance / Verhalten

Necessary application Anzuwendende Regel	Clause Abschnitt	Characteristic to be verified Nachzuweisendes Merkmal	Verification document Nachweisdokument
☒	10.9	Dielectric properties / Isolationseigenschaften	2.03.02429.1.0/MDB-BI-7647/SKAP2.03.02429.1.0/MDB-BI-7647/SKAPnot applicable
☒	10.10	Temperature rise / Erwärmung	1065_Verification_OMB-NO_IEC_61439-3
☒	10.11	Short-circuit withstand strength / Kurzschlussfestigkeit	1065_Verification_OMB-NO_IEC_61439-3
☒	10.12	Electromagnetic compatibility / Elektromagnetische Verträglichkeit	2.03.02429.1.0/MDB-BI-7647/SKAP
☒	10.13	Mechanical operation / Mechanische Funktion	1065_Verification_OMB-NO_IEC_61439-3


DI(FH) Georg Reuberger

Engineering Manager
LVS PDD

12-Oct-2016
Schrems


Ing. Christoph Bliemel

Engineering Manager
Documentation & PLS
LVS PDD

Design verification Bauartnachweis

No. DV-OMB-NO-001
Nr.

according to IEC 61439-3 in its up-to-date valid version
for Low-voltage switchgear and controlgear assemblies
gemäß IEC 61439-3 in seiner am Ausstellungstag gültigen Ausführung
für Niederspannungsschaltgerätekombination

Original manufacturer
Ursprünglicher Hersteller

Eaton Industries (Austria) GmbH, Eugenia 1, 3943 Schrems, Austria

Trade mark
Warenzeichen

Outdoor Metering Board NO

Verified Unit

MDB-BI-12040/BOLIGSKAP-TKS*

Nachgewiesene Einheit

Connection cabinet TKS residential

Type Reference
Typenbezeichnung

MDB-BI-12040/BOLIGSKAP-TKS*

The referred Type/Unit has been verified in accordance with the requirements of IEC 61439-3

Der benannte Type/Einheit wurde gemäß den Anforderungen aus IEC 61439-3 nachgewiesen

Proof has been furnished by applying the following rule:

Der Nachweis wurde durch Anwendung der nachfolgenden Regel erbracht:

1) Construction: / Konstruktion:

☒ Necessary application Anzuwendende Regel	Clause Abschnitt	Testing Prüfung	Calculation Berechnung	Design rules Konstruktionsregel	Verification document Nachweisdokument
☒	10.2				
	10.2.2	☒			2.03.02429.1.0/Eaton/Corrosion + 1065_Verification_OMB-NO_IEC_61439-3
	10.2.3.1	☒			2.03.02429.1.0/MDB-BI-7647/SKAP
	10.2.3.2	☒		☐	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.2.4	☒		☒	412.902 Resistance to ultra-violet (UV) radiation
	10.2.5	☒			not applicable
	10.2.6	☒			CTI-CB 880-3
	10.2.7	☒			2.03.02429.1.0/MDB-BI-7647/SKAP
☒	10.3	☒		☐	CTI-CB 880-1 + 1065_Verification_OMB-NO_IEC_61439-3
☒	10.4	☒			2.03.02429.1.0/MDB-BI-7647/SKAP + 1065_Verification_OMB-NO_IEC_61439-3
☒	10.5				
	10.5.2	☒			1065_Verification_OMB-NO_IEC_61439-3
	10.5.3	☒	☐		2.03.02429.1.0/MDB-BI-7647/SKAP
☒	10.6			☒	1065_Verification_OMB-NO_IEC_61439-3
☒	10.7			☒	1065_Verification_OMB-NO_IEC_61439-3
☒	10.8			☒	1065_Verification_OMB-NO_IEC_61439-3

2) Performance: / Verhalten:

☒ Necessary application Anzuwendende Regel	Clause Abschnitt	Testing Prüfung	Calculation Berechnung	Design rules Konstruktionsregel	Verification document Nachweisdokument
☒	10.9				
	10.9.2	☒			2.03.02429.1.0/MDB-BI-7647/SKAP
	10.9.3	☒		☐	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.9.3.2	☐		☐	not applicable
☒	10.10	☐	☒	☐	1065_Verification_OMB-NO_IEC_61439-3
☒	10.11	☐	☐	☒	1065_Verification_OMB-NO_IEC_61439-3
☒	10.12	☒		☐	2.03.02429.1.0/MDB-BI-7647/SKAP
☒	10.13	☒			1065_Verification_OMB-NO_IEC_61439-3

Legend / Erklärung: ☒ Necessary application / Anzuwendende Regel

☐ Possibility, if applicable / Möglichkeit, wenn anwendbar

☐ Not applicable / nicht anwendbar

DI(FH) Georg Reuberg

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12-Oct-2016
Schrems

Ing. Christoph Blümel

Engineering Manager
Documentation & PLS
LVS PDD

Design verification - data sheet
Bauartnachweis - Datenblatt

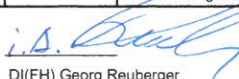
No. DV-OMB-NO-001
Nr.

The following data have been verified:

Die nachfolgend aufgeführten Daten sind nachgewiesen:

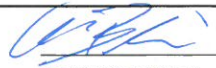
Trade mark: Outdoor Metering Board NO
Verified Unit: MDB-BI-12040/BOLIGSKAP-TKS*
Type Reference: MDB-BI-12040/BOLIGSKAP-TKS*

Applied Ange- wendet	IEC 61439-2 Clause Abschnitt	Characteristic to be verified Nachzuweisendes Merkmal	Verified values / data Nachgewiesene Werte / Daten	Verification document Nachweis Dokument
	10.2	Strength of materials and parts Festigkeit von Werkstoffen und Teilen		
	10.2.2	Resistance to corrosion Korrosionsbeständigkeit	passed: severity B; sea water specification of aluminium raw material	2.03.02429.1.0/Eaton/Corrosion + 1065_Verification_OMB-NO_IEC_61439-3
	10.2.3.1	Properties of insulating materials Wärmebeständigkeit von Umhüllungen	passed	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.2.3.2	Resistance to abnormal heat and fire due to internal electric effects Widerstandsfähigkeit von Isolierstoffen gegen außergewöhnliche Wärme und Feuer	passed	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.2.4	Resistance to ultra-violet (UV) radiation Beständigkeit gegen ultra-violette (UV) Strahlung	passed	412.902 Resistance to ultra-violet (UV) radiation
	10.2.5	Lifting Anheben	not applicable	not applicable
	10.2.6	Mechanical impact Schlagprüfung	IK07 passed on reference design of xEnergy Basic BPM-U-3S*	CTI-CB 880-3
	10.2.7	Marking Aufschriften	passed	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.3	Degree of protection of enclosures Schutzart von Umhüllungen	IP5x passed on reference design; IPx5 passed	CTI-CB 880-1 + 1065_Verification_OMB-NO_IEC_61439-3
		Degree of protection associated with withdrawable parts as specified in 8.2.101 in accordance with IEC 60529 Schutzart von Einschüben entsprechend d. Festlegung in 8.2.101 in Übereinstimmung mit IEC 60529		
	10.4	Clearances and creepage distances Luft- und Kriechstrecken	passed for Ui=400V; Uimp=2,5kV	2.03.02429.1.0/MDB-BI-7647/SKAP + 1065_Verification_OMB-NO_IEC_61439-3
	10.5	Protection against electric shock and integrity of protective circuits Schutz gegen elektrischen Schlag und Durchgängigkeit von		
	10.5.2	Effective continuity between exposed conductive parts of the assembly and protective circuit Durchgängigkeit d. Verbindung zw. Körpern d. Schaltgeräte-kombination u. Schutzleiterkreis	passed < 0,1 Ohm	1065_Verification_OMB-NO_IEC_61439-3
	10.5.3	Effectiveness of the assembly for external faults Kurzschlussfestigkeit des Schutzleiterkreises	confirmed	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.6	Incorporation of switching devices and components Einbau von Betriebsmitteln	confirmed	1065_Verification_OMB-NO_IEC_61439-3
	10.7	Internal electrical circuits and connections Innere Stromkreise und Verbindungen	confirmed	1065_Verification_OMB-NO_IEC_61439-3
	10.8	Terminals for external conductors Anschlüsse für von außen eingeführte Leiter	confirmed	1065_Verification_OMB-NO_IEC_61439-3
	10.9	Dielectric properties Isolationseigenschaften		
	10.9.2	Power-frequency withstand voltage Betriebsfrequente Spannungsfestigkeit	1900V	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.9.3	Impulse withstand voltage Stoßspannungsfestigkeit	3kV	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.9.3.2	Impulse withstand voltage capability of isolating distance between withdrawable units' main contacts and associated fixed contacts in compliance with 8.3.2	not applicable	not applicable
	10.10	Temperature rise Erwärmung	verified	1065_Verification_OMB-NO_IEC_61439-3
	10.11	Short-circuit withstand strength Kurzschlussfestigkeit	12kA	1065_Verification_OMB-NO_IEC_61439-3
	10.12	Electromagnetic compatibility Elektromagnetische Verträglichkeit	verified	2.03.02429.1.0/MDB-BI-7647/SKAP
	10.13	Mechanical operation Mechanische Funktion	door closing mechanism tested 200x	1065_Verification_OMB-NO_IEC_61439-3
		Withdrawable parts: operating cycle includes any physical movements from connected to isolated position and back to connected Einschübe: Zyklus umfasst alle physischen Bewegungen v. d. Betriebsstellung in Trennstellung und zurück zur Betriebsstellung		


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12-Oct-2016

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