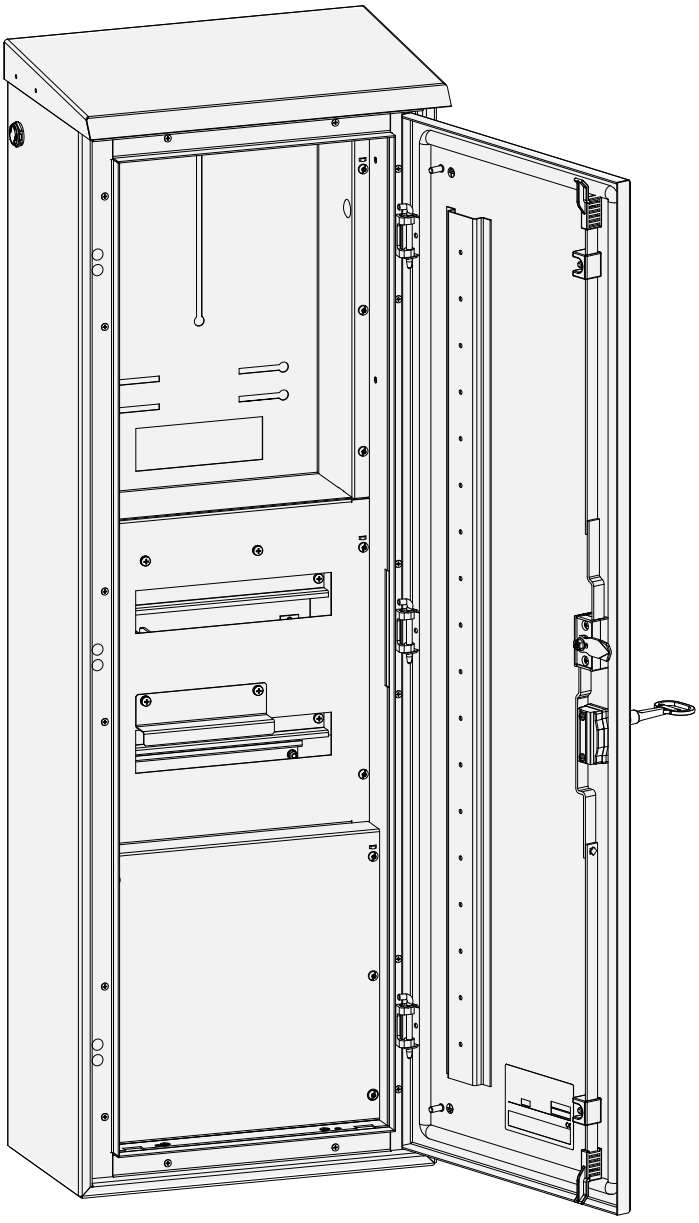
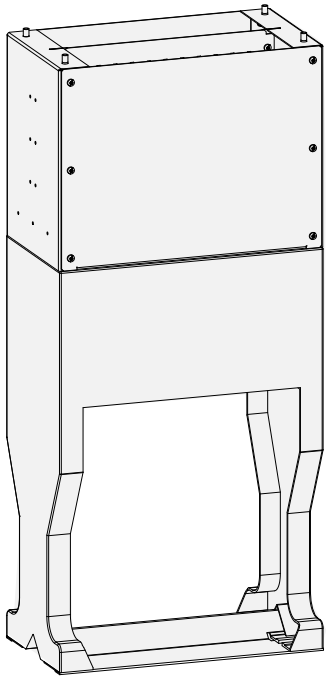
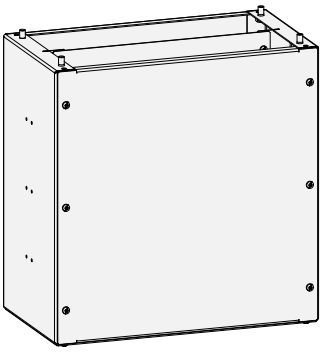
Spenningsførende deler!

Kun sakkyndige personer kan utføre arbeid i henhold til denne veiledningen





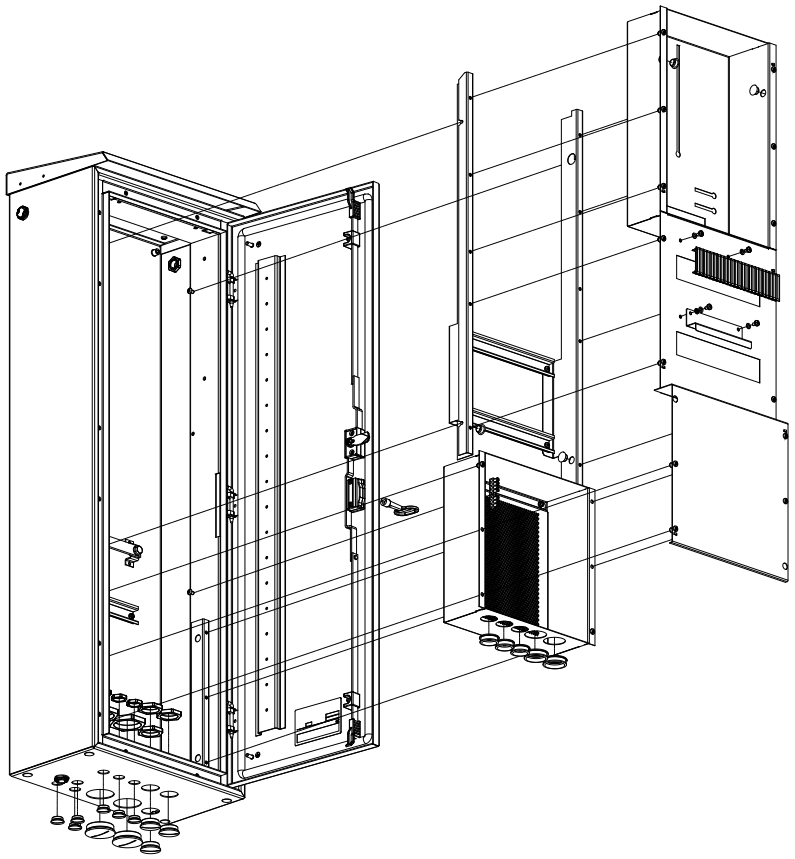
1702802 Sokkel

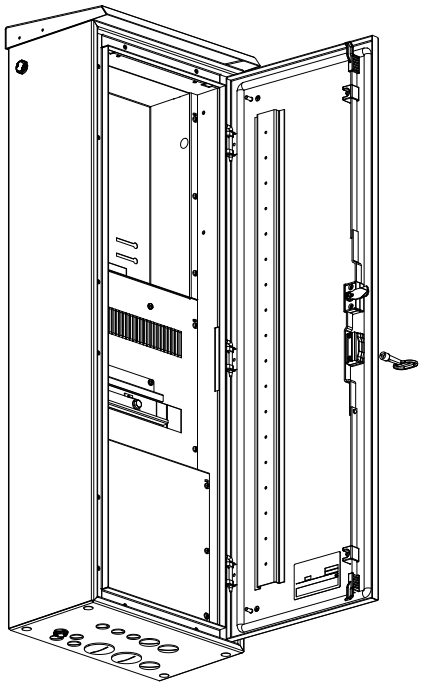


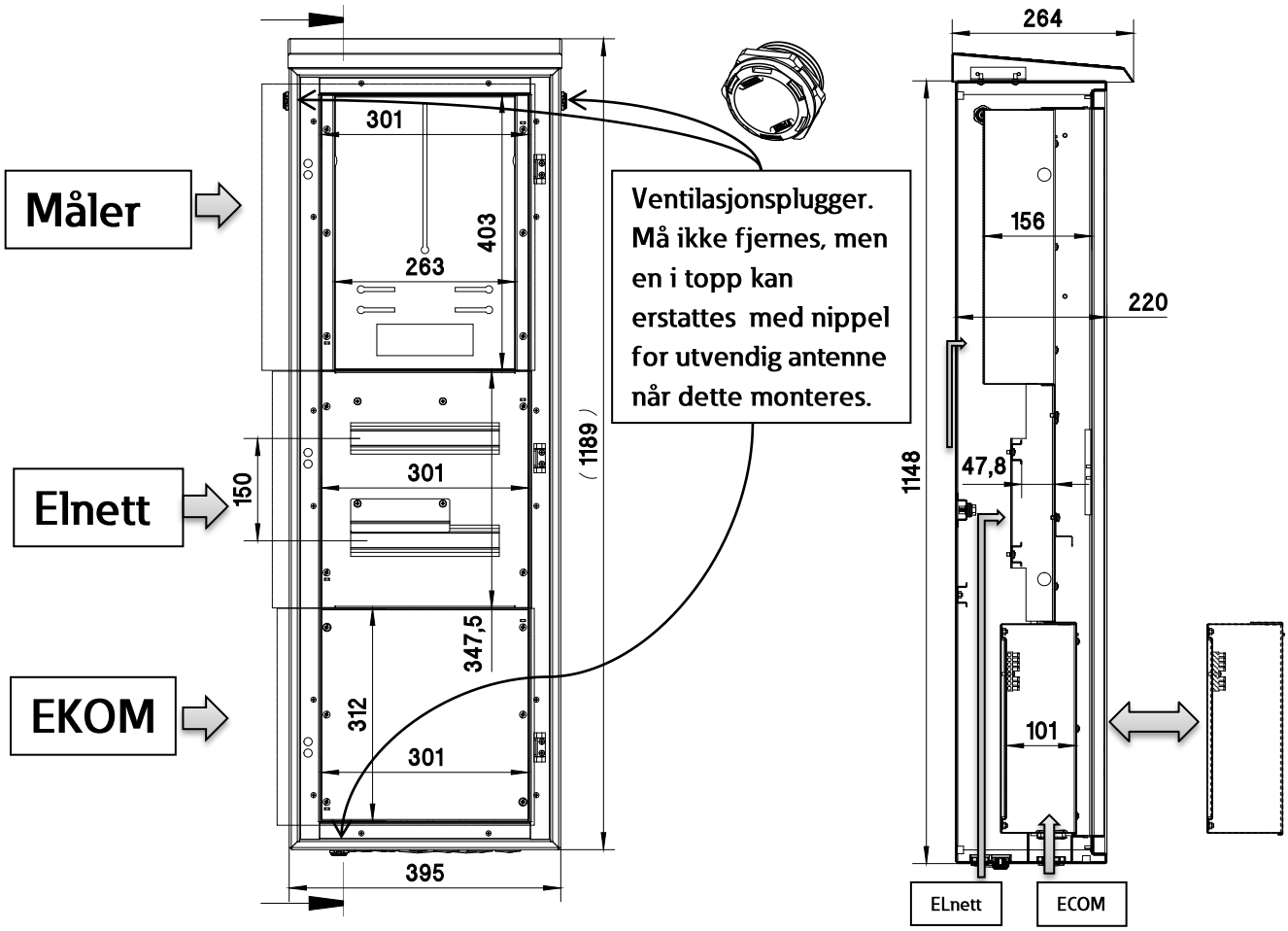
1702801 Kabelkanal

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

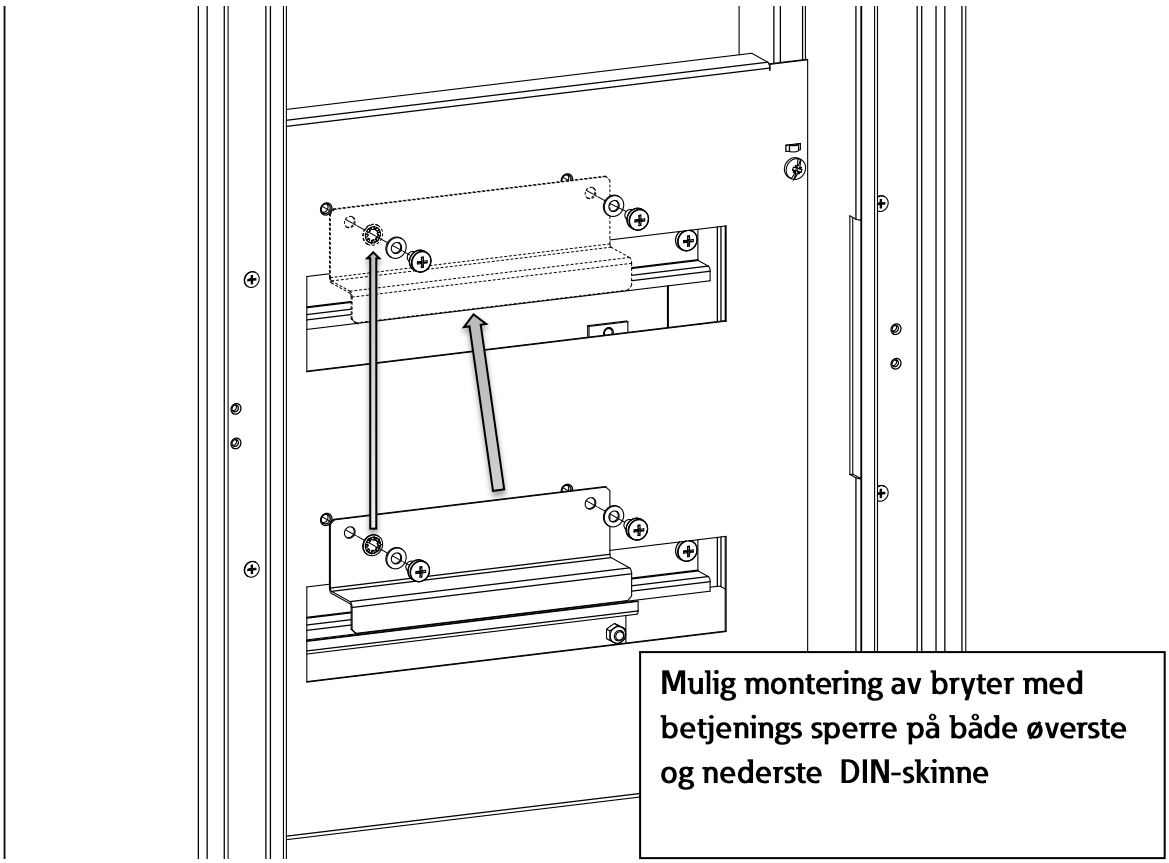
1702800 Skap

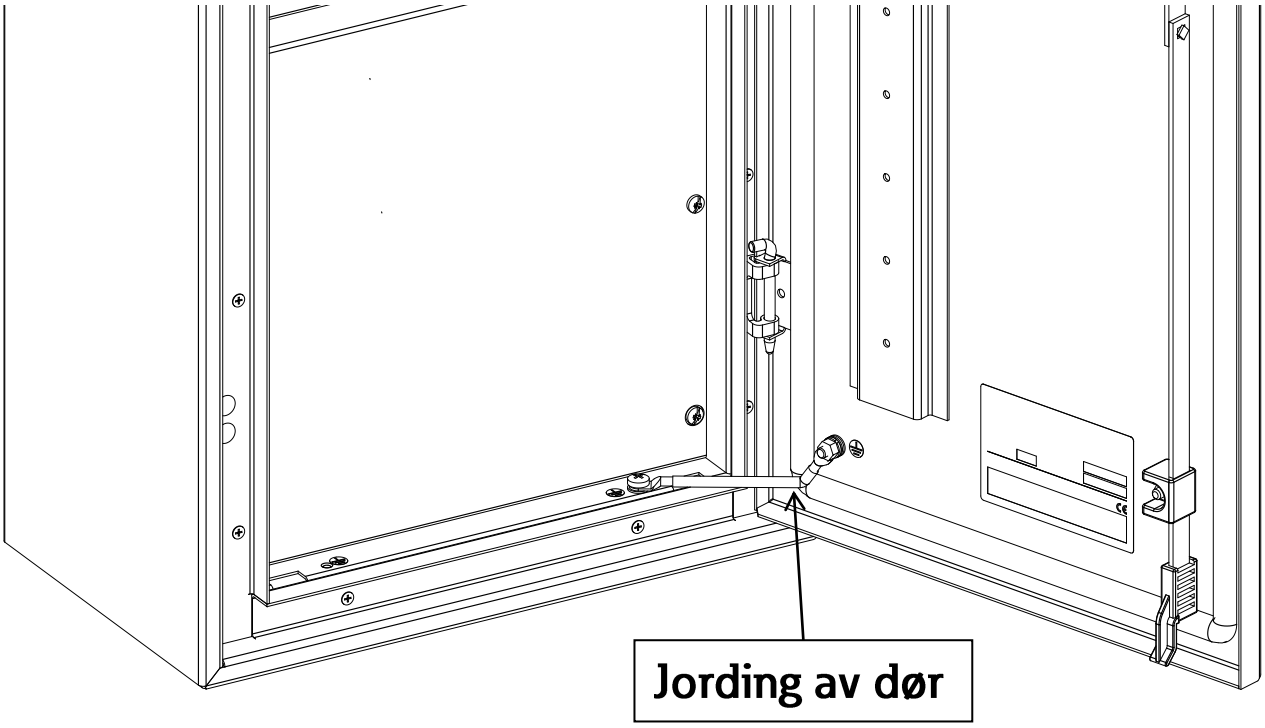




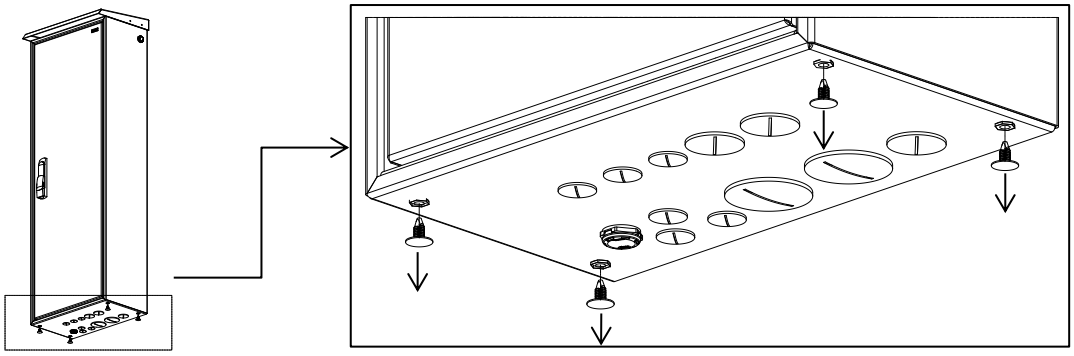


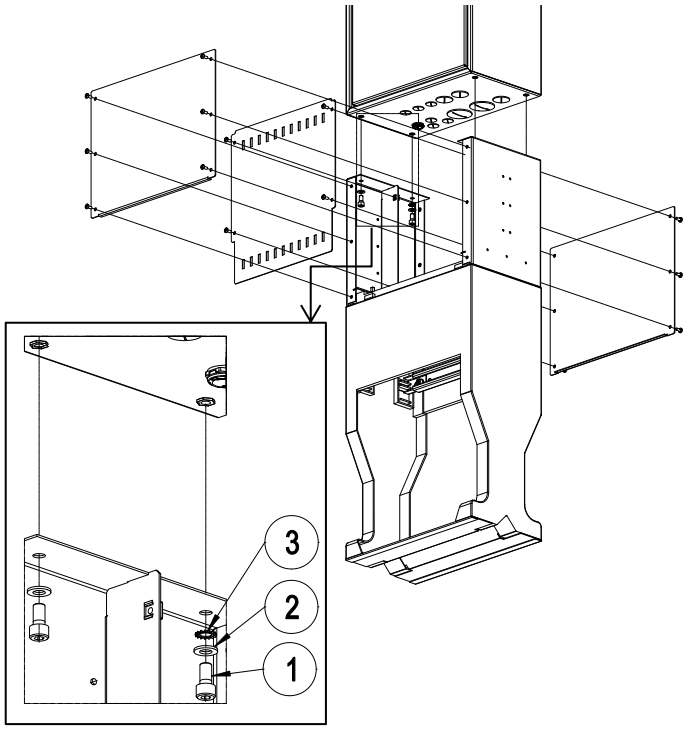
Låsing av grep på inntaksbryter, for usakkyndig betjening iht NEK 439-3

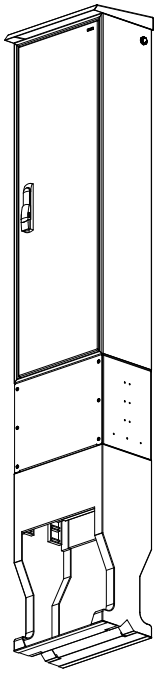




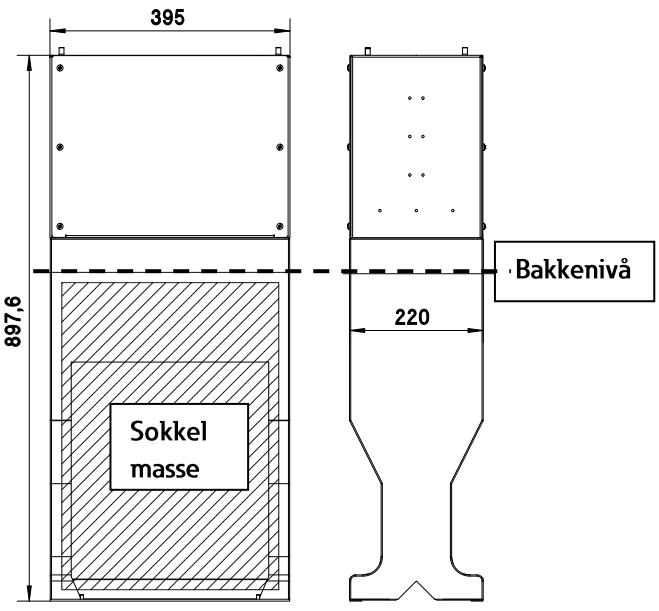
1702802 Sokkel

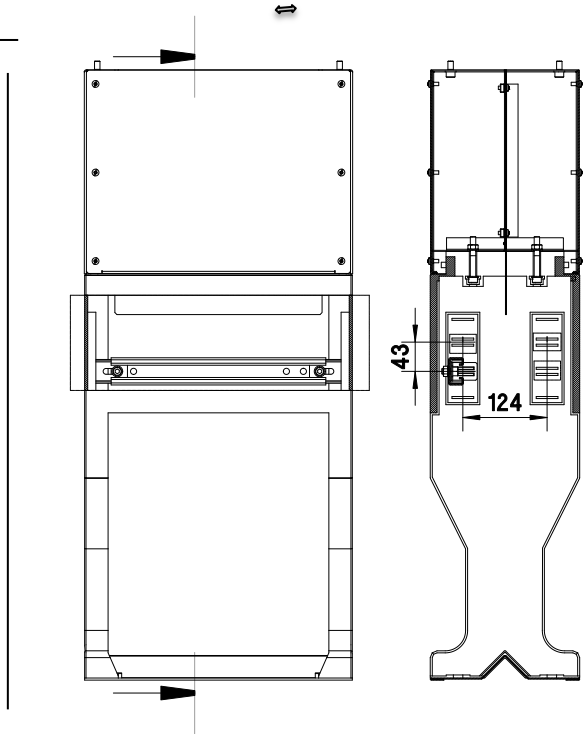




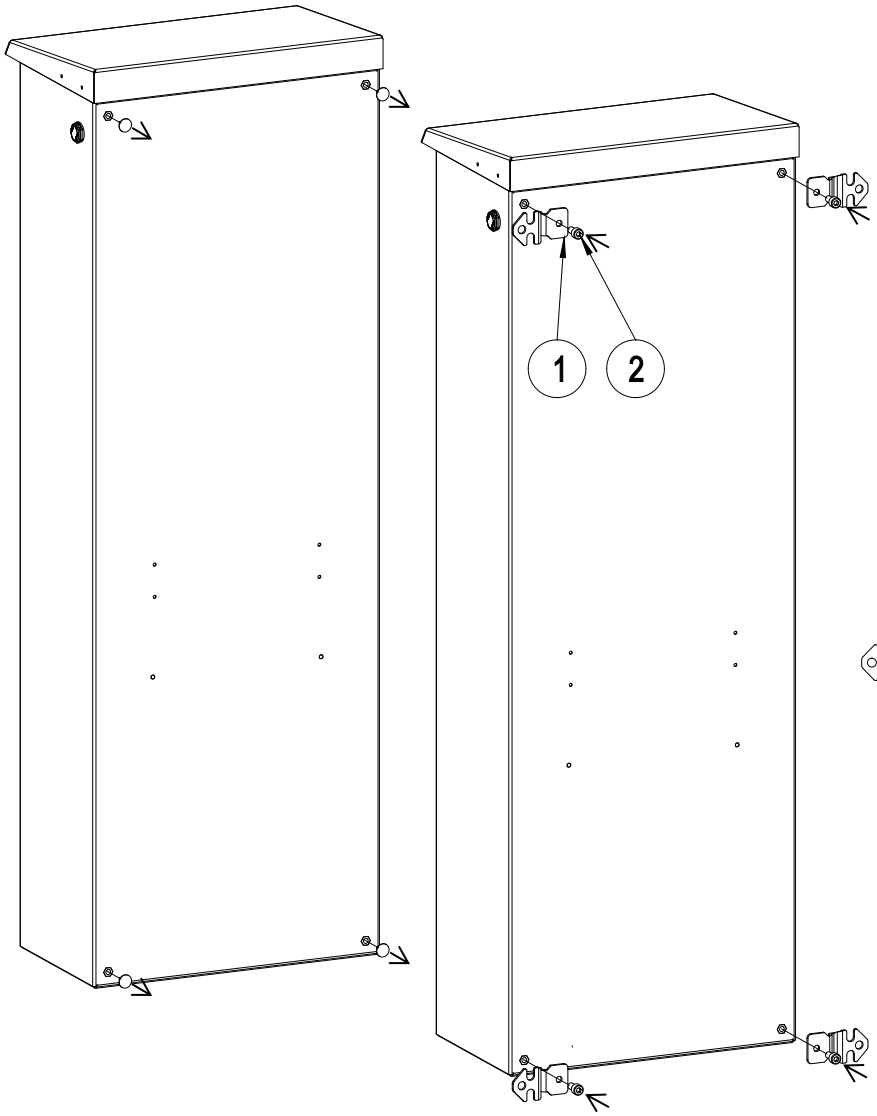


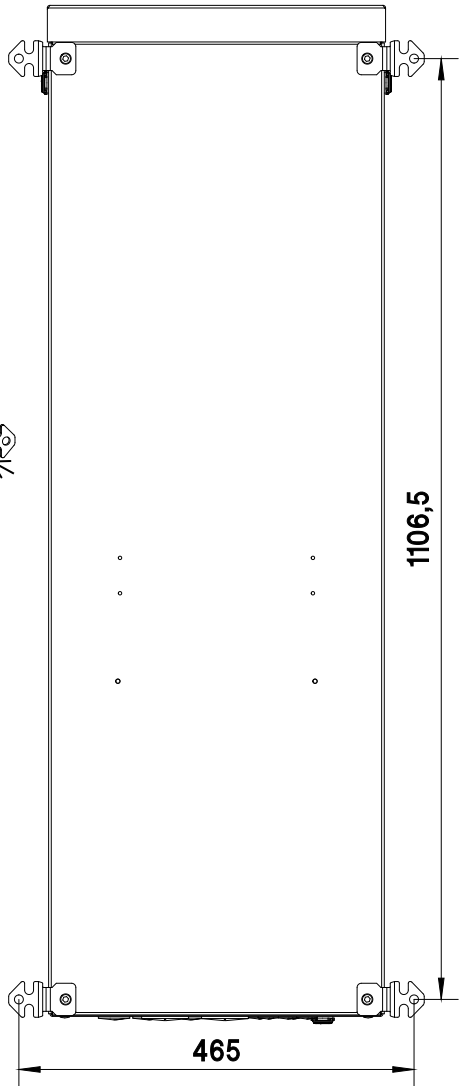
Nr.	Artikkel	Ant
1	 M8x16	4x
2		4x
3		1x
4	Sokkelmasse	1x

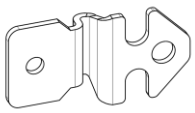
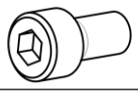




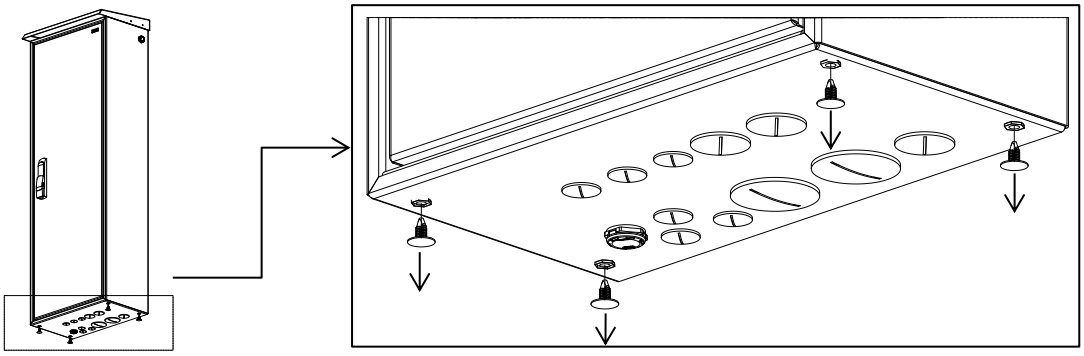
Veggmontering

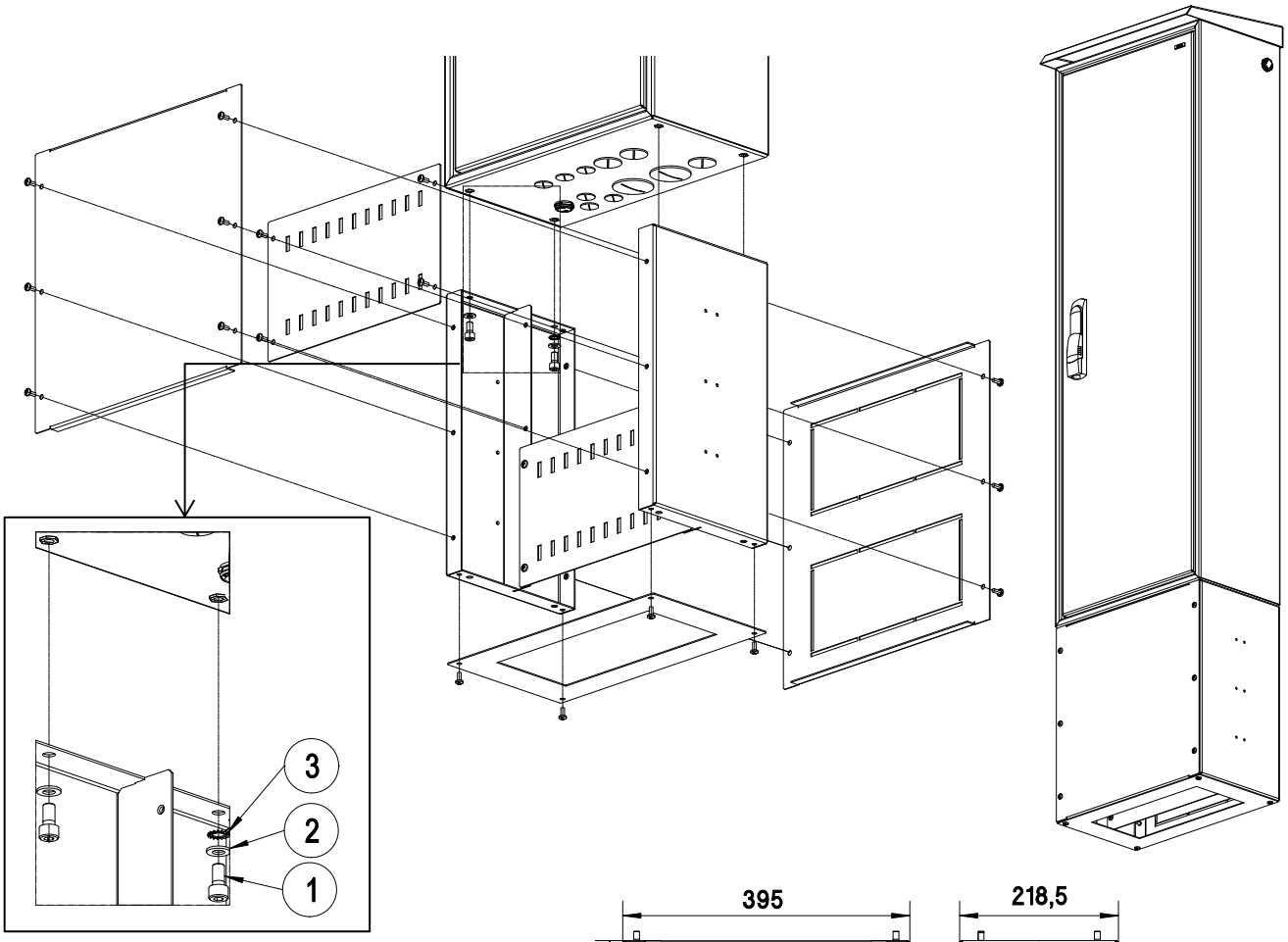


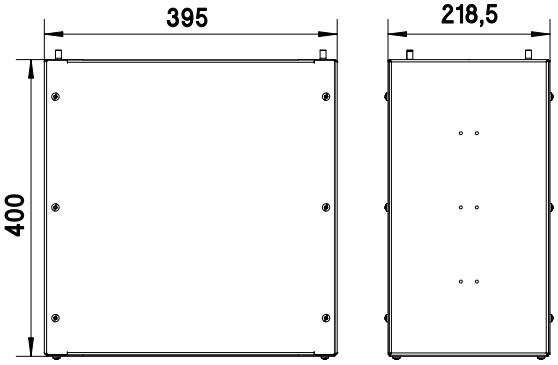


Nr.	Artikkel	Ant.
1		4x
2		4x

1702801 Kabelkanal

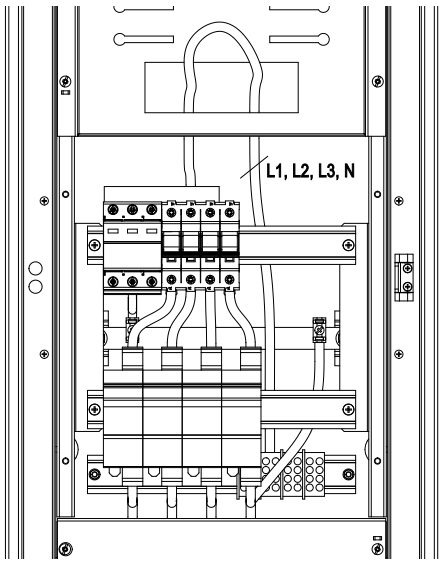


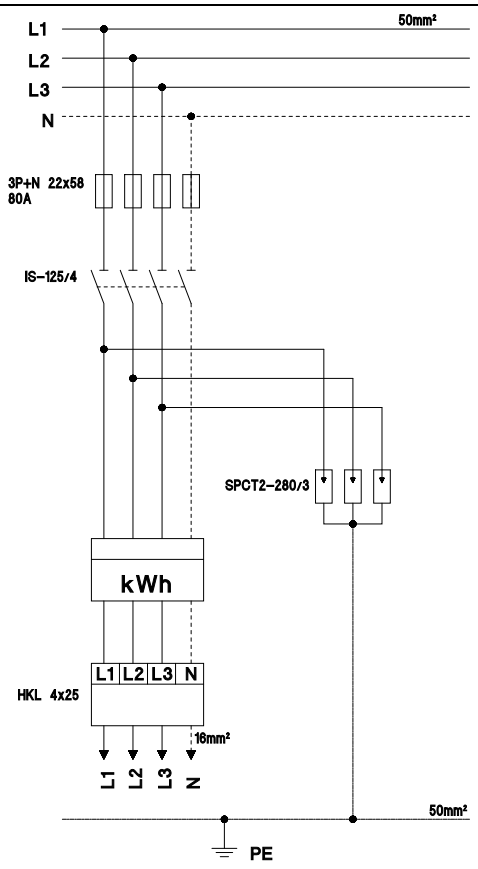




Nr.	Artikkel	Ant
1	M8x16	4x
2		4x
3		1x

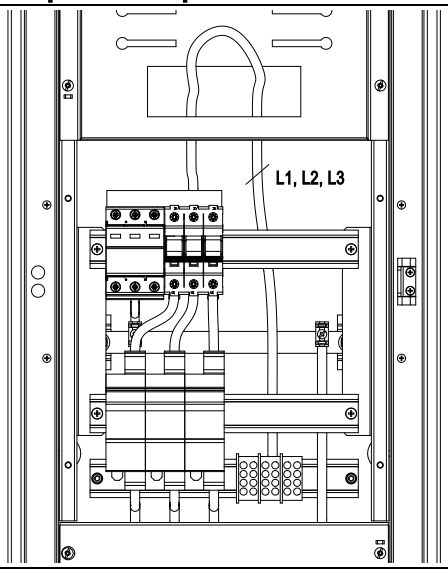
17 028 03 Komplett skap for 400V TN

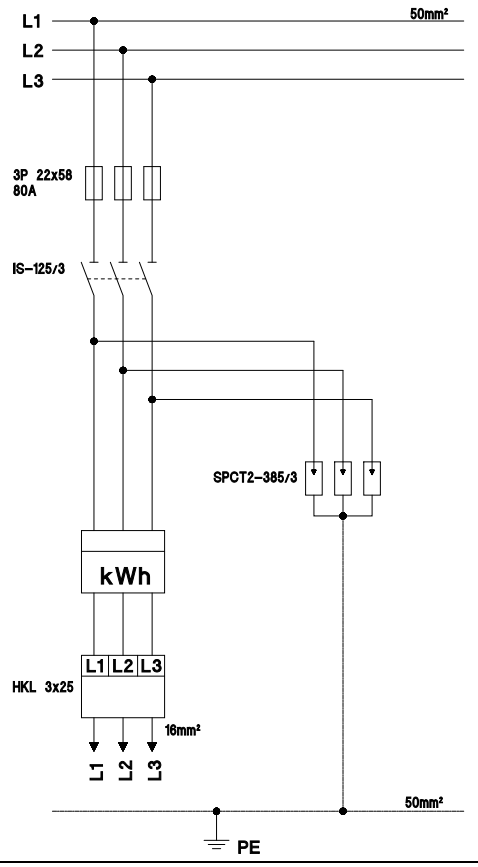




El.nr 16 641 92	Modulær sikringsholder 125A 3+N
El.nr 16 641 88	Sylindrisk sikring 22 x 58 80A GG 500V A
El.nr 14 608 61	Lastbryter IS-125/4
El.nr 16 097 67	Overspenningsvern SPCT2-280/3
El.nr 12 001 04	HKL 4x25 qmm / fingersicher

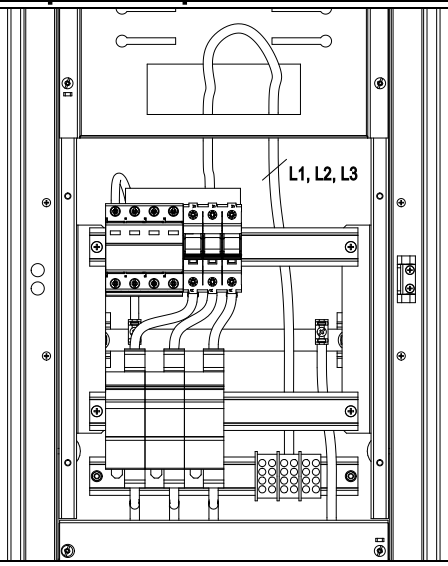
17 028 04 Komplett skap for 230V IT

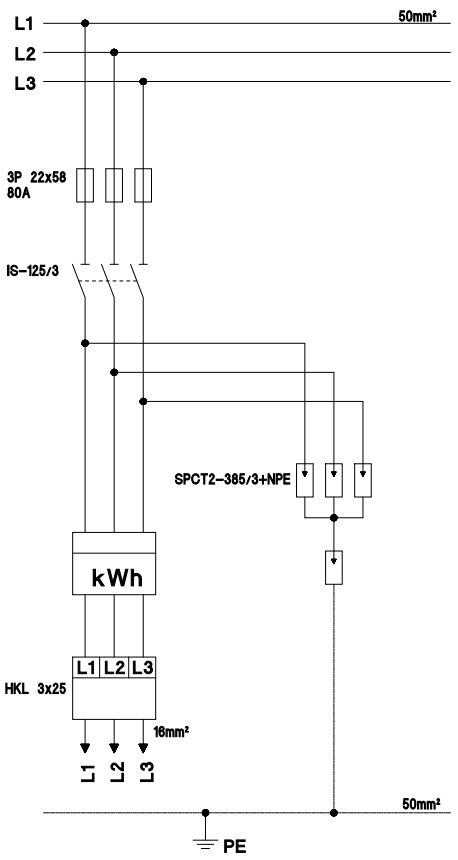




El.nr 16 641 91	Modulær sikringsholder 125A 3 pol
El.nr 16 641 88	Sylindrisk sikring 22 x 58 80A GG 500V A
El.nr 14 608 60	Lastbryter IS-125/3
El.nr 16 097 70	Overspenningsvern SPCT2-385/3
El.nr 12 001 05	HKL 3x25 pol./fingersicher

17 028 05 Komplett skap for 230V TT/IT uten distribuert jordleder (luftstrekk)





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

Eaton Industries (Austria) GmbH
Eugenia 1
3943 Schrems
Österreich / Austria

Design verification
Bauartnachweis

No. / *Nr.* DV-OMB-NO-001

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*

Verified Unit / *Nachgewiesene Einheit*: **Outdoor Metering Board NO**
MDB-BI-12040/BOLIGSKAP-TKS*
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

i.A.
DI(FH) Georg Reuberger
Engineering Manager
LVS PDD

12-Oct-2016
Schrems

Ing. Christoph Bliemel
Engineering Manager
Documentation & PLS
LVS PDD

Eaton Industries (Austria)
GmbH
Eugenia 1
3943 Schrems
Österreich / Austria

Design verification
Bauartnachweis

No. / *Nr.* DV-OMB-NO-001

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*

Verified Unit / *Nachgewiesene Einheit*: **Outdoor Metering Board NO**
MDB-BI-12040/BOLIGSKAP-TKS*
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*

i.A.
DI(FH) Georg Reuberger
Engineering Manager
LVS PDD

12-Oct-2016
Schrems

Ing. Christoph Bliemel
Engineering Manager
Documentation & PLS
LVS PDD

Eaton Industries (Austria)
GmbH
Eugenia 1
3943 Schrems
Österreich / Austria

Design verification
Bauartnachweis

Design verification - data sheet
Bauartnachweis - Datenblatt

No. / *Nr.* DV-OMB-NO-001

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 *Angewendet*	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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