



COMMUTATORI, ISOLATORI, ACCESSORI PER TRASFORMATORI
TAP CHANGERS, BUSHING, ACCESSORIES FOR DISTRIBUTION TRANSFORMERS



ELETTROMALE COMPONENT s.r.l.

power and distribution transformers accessories

PORCELAIN BUSHING INSULATORS



**porcelain bushing insulators
and connecting flags**



ELETTROMAULE
COMPONENT S.r.l.



1kV - DT250
EN 50386



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

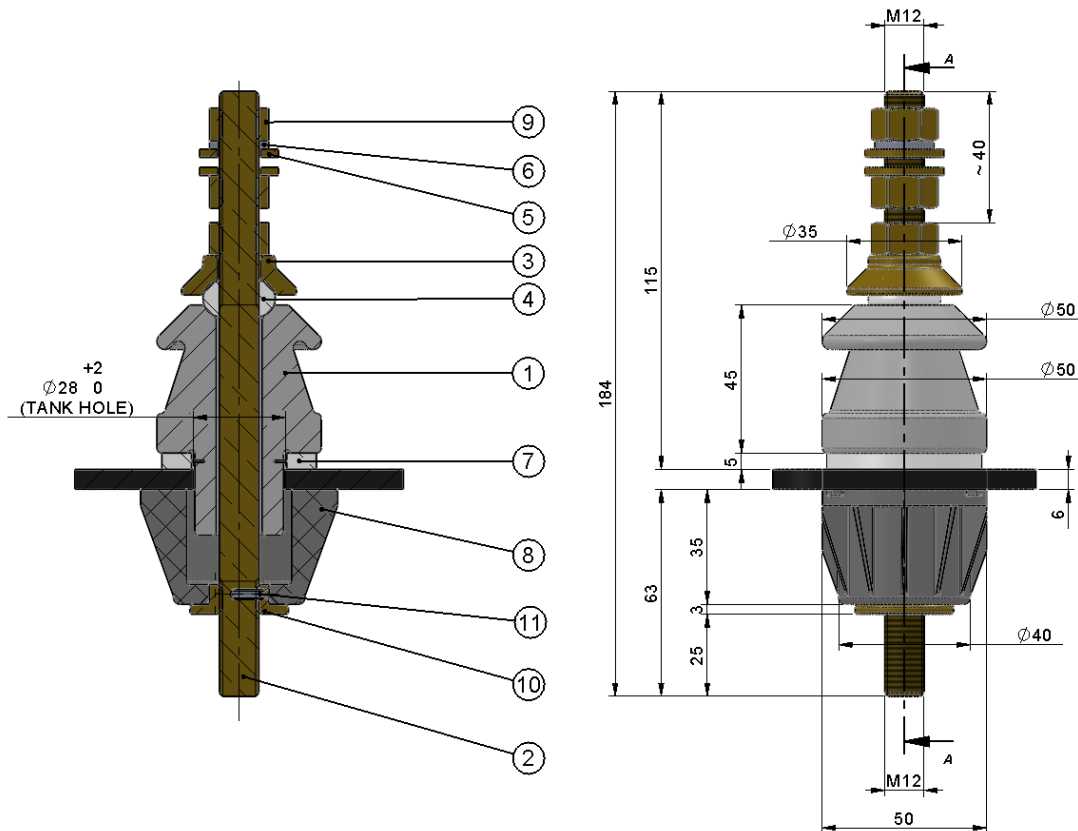
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-010

PORCELAIN BUSHING INSULATOR

Sheet

1kV DT250 EN50386 (Brass bolt with washer)	3
1kV DT250 EN50386 (Brass bolt with washer)	4
1kv DT250 EN50386 (Brass bolt with plate)	5



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW614N EN12164	1
3	BRASS CUP	CW614N EN12164	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE GASKET	NBR (*)	1
8	LOWER INSUL. BODY	POLYAMID	1
9	NUT M12	CW614N EN12164	3
10	LOWER WASHER	CW614N EN12164	1
11	ELASTIC PIN	AISI420	1

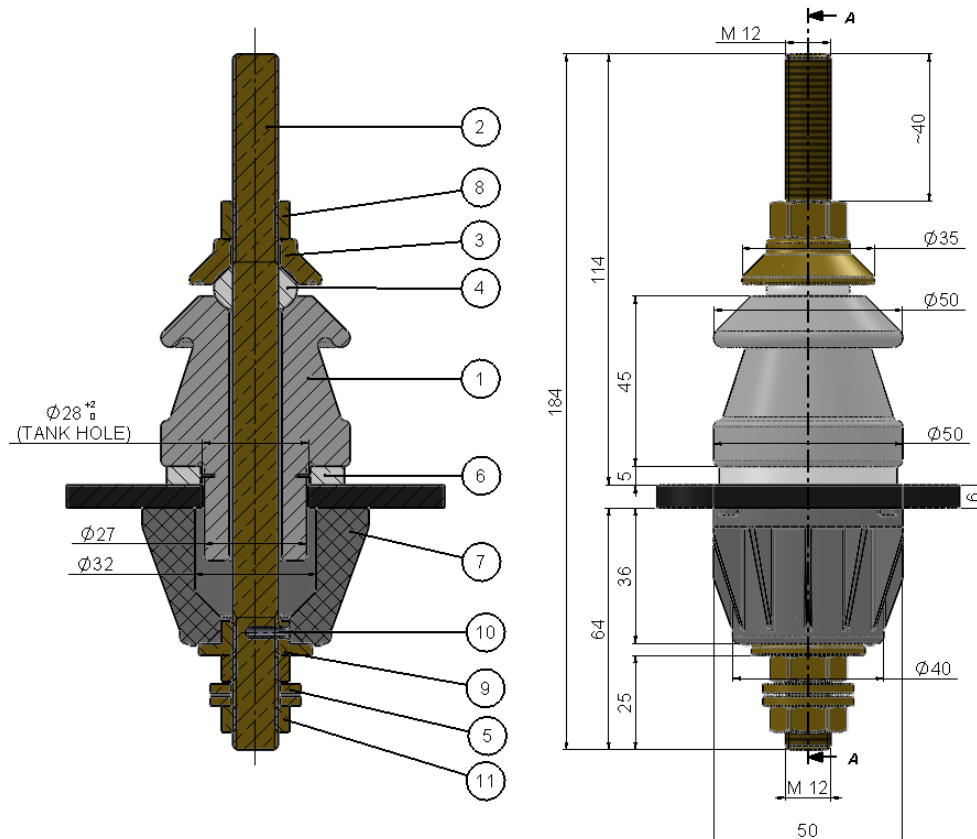
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **12 Nm**

Tank Hole: **Ø28⁺²₀ mm**



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW614N EN12164	1
3	BRASS CUP	CW614N EN12164	1
4	RING GASKET	NBR (*)	1
5	WASHER $\Phi 12$	CW614N EN12164	2
6	FLANGE GASKET	NBR (*)	1
7	LOWER INSUL. BODY	POLYAMID	1
8	NUT M12	CW614N EN12164	1
9	LOWER WASHER	CW614N EN12164	1
10	ELASTIC PIN	AISI420	1
11	NUT M12 (H7)	AISI420	2

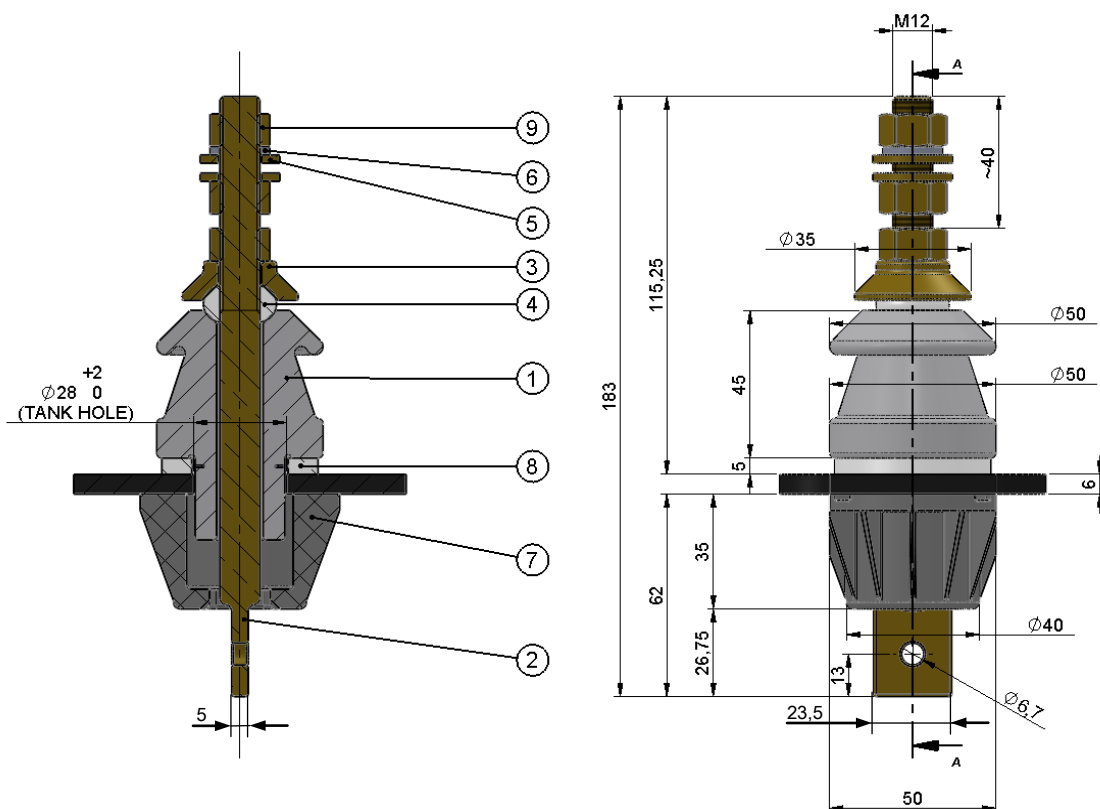
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **12 Nm**

Tank Hole: $\Phi 28^{+2}_0$ mm



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW617N EN12165	1
3	BRASS CUP	CW614N EN12164	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3

TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **12 Nm**

Tank Hole: **Ø28⁺²₀ mm**

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	250	20	10	10	55	---	---

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

1kV - DT630
EN 50386



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

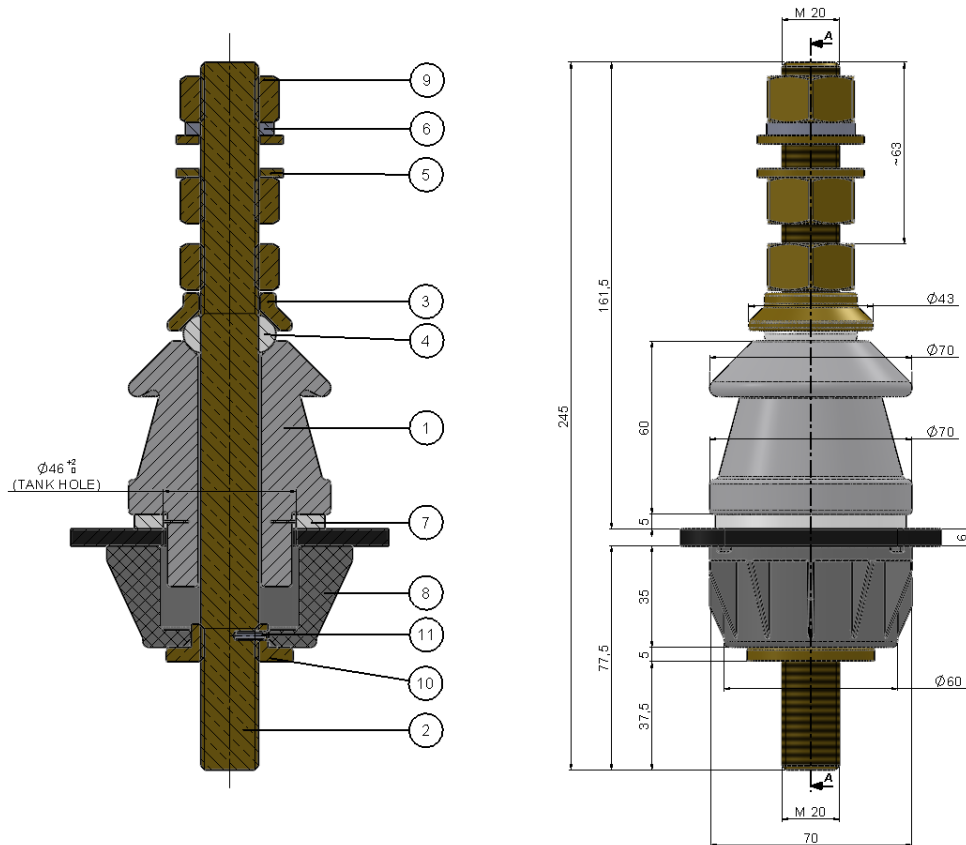
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-020

PORCELAIN BUSHING INSULATOR

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1kV DT630 EN50386 (Brass bolt with washer)	3
1kV DT630 EN50386 (Copper bolt with plate)	4
1kV DT630 EN50386 (Brass bolt with plate)	5



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW614N EN12164	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø20	CW614N EN12164	2
6	GROVER Ø20	C70-C72 FOR SPRING	1
7	FLANGE GASKET	NBR (*)	1
8	LOWER INSUL.BODY	POLYAMID	1
9	NUT M20	CW617N EN12165	3
10	LOWER WASHER	CW617N EN12165	1
11	ELASTIC PIN	AISI420	1

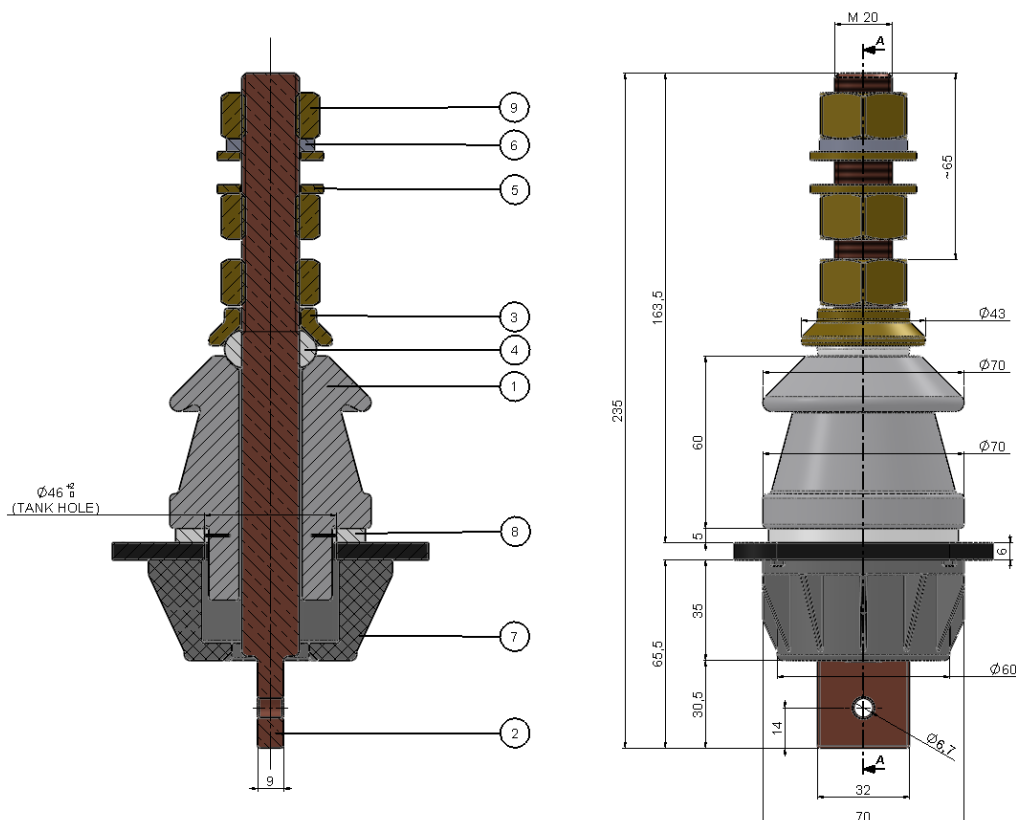
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **20 Nm**

Tank Hole: $\text{Ø}46^{+2}_0$ mm



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø20	CW614N EN12164	2
6	GROVER Ø20	C70-C72 FOR SPRING	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M20	CW617N EN12165	3

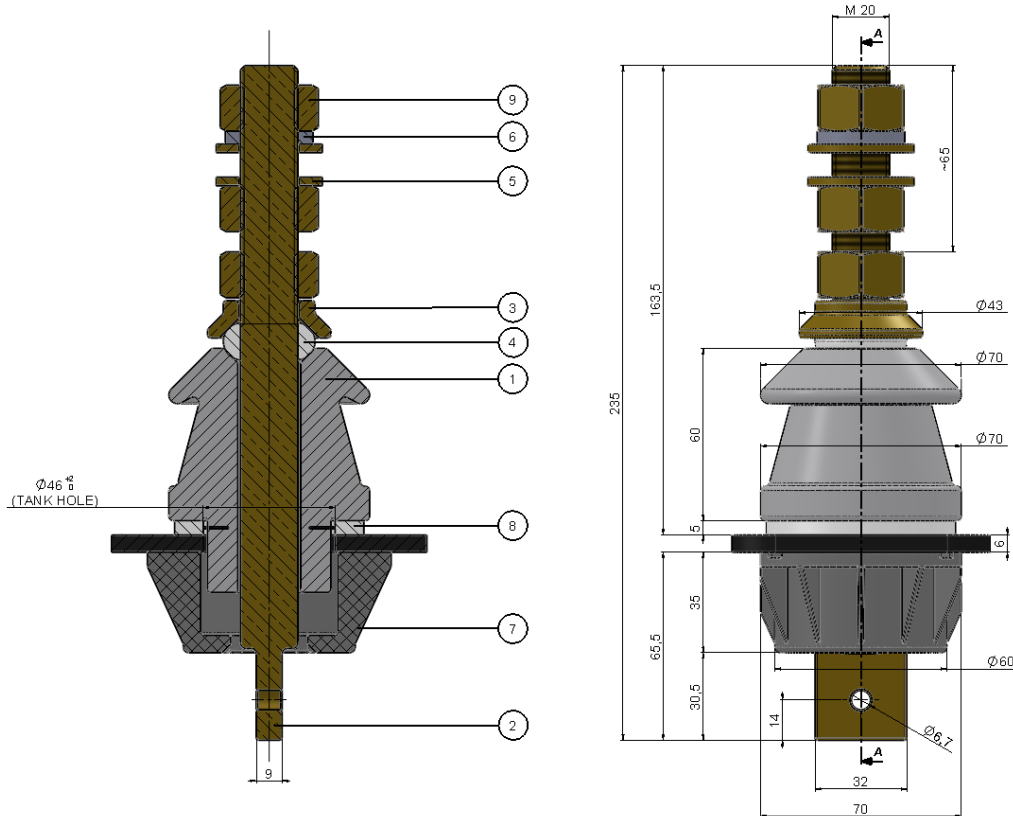
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **20 Nm**

Tank Hole: **Ø46⁺²₀ mm**



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø20	CW614N EN12164	2
6	GROVER Ø20	C70-C72 FOR SPRING	1
7	LOWER INSUL.BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M20	CW617N EN12165	3

TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **20 Nm**

Tank Hole: $\text{Ø}46^{+2}_0$ mm

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	630	20	10	10	70	--	--

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

**1kV - DT1250
EN 50386**



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-030

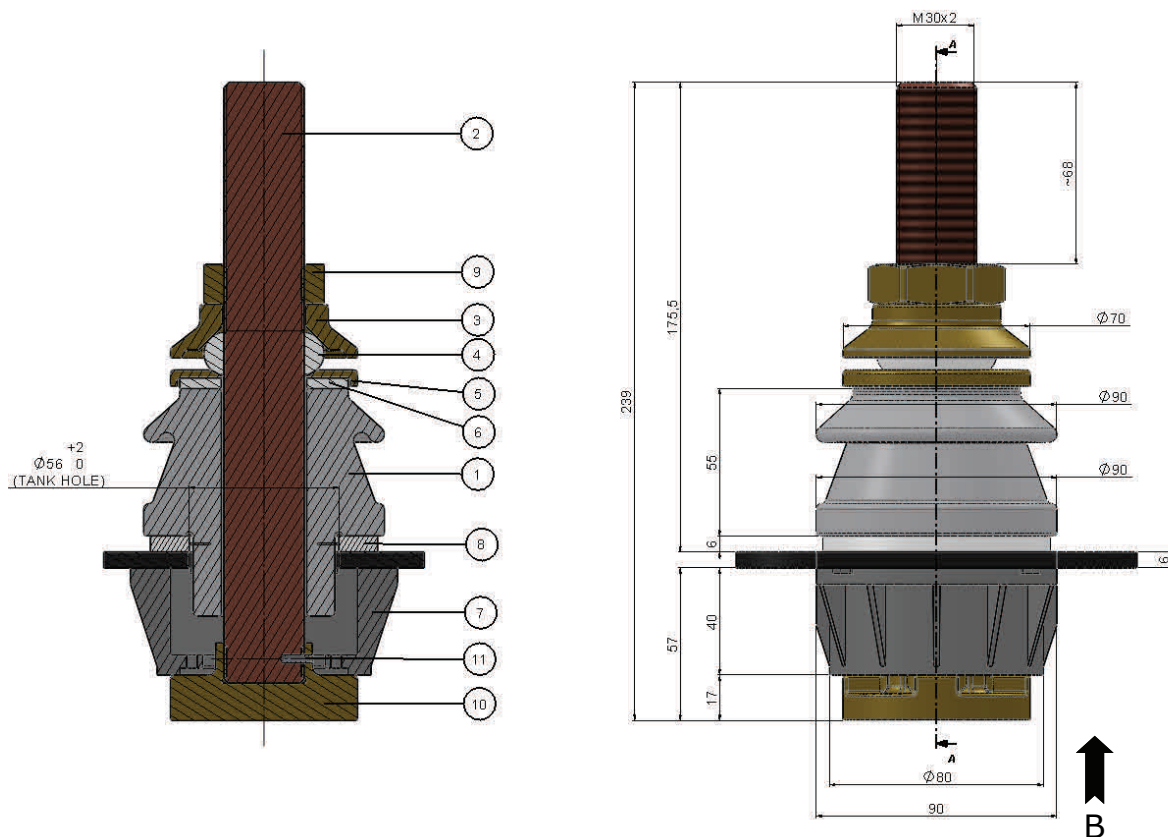
PORCELAIN BUSHING INSULATOR

Sheet

1kV DT1250 EN50386 (Copper bolt with washer) **3**

1kV DT1250 EN50386 (Copper bolt with plate) **4**

1kV DT1250 EN50386 (Brass bolt with plate) **5**



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU-ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL.BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M30x2	CW617N EN12165	1
10	LOWER WASHER	CW617N EN12165	1
11	ELASTIC PIN	AISI420	1

TECHNICAL FEATURES

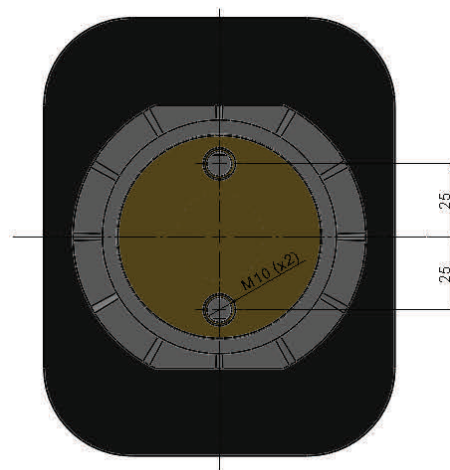
(*)Min/Max permanent working temperature:

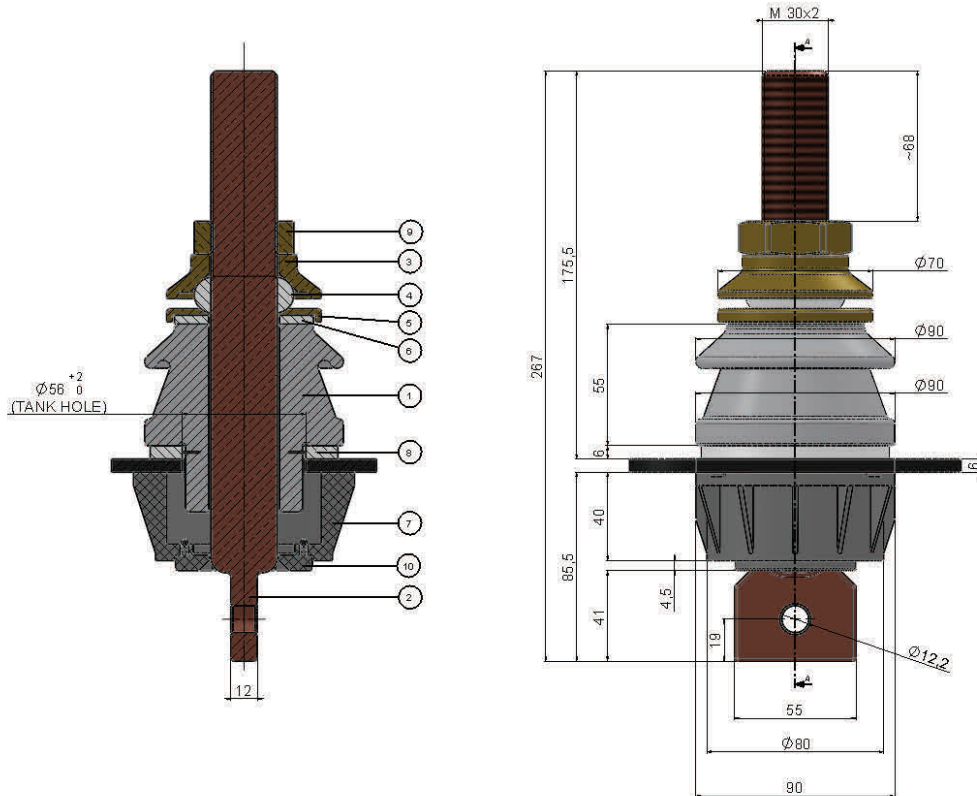
- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **30 Nm**

Tank Hole: $\phi 56^{+2}_0$ mm

-B- WIEW





LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M30x2	CW617N EN12165	1
10	ADAPTER	POLYAMID	1

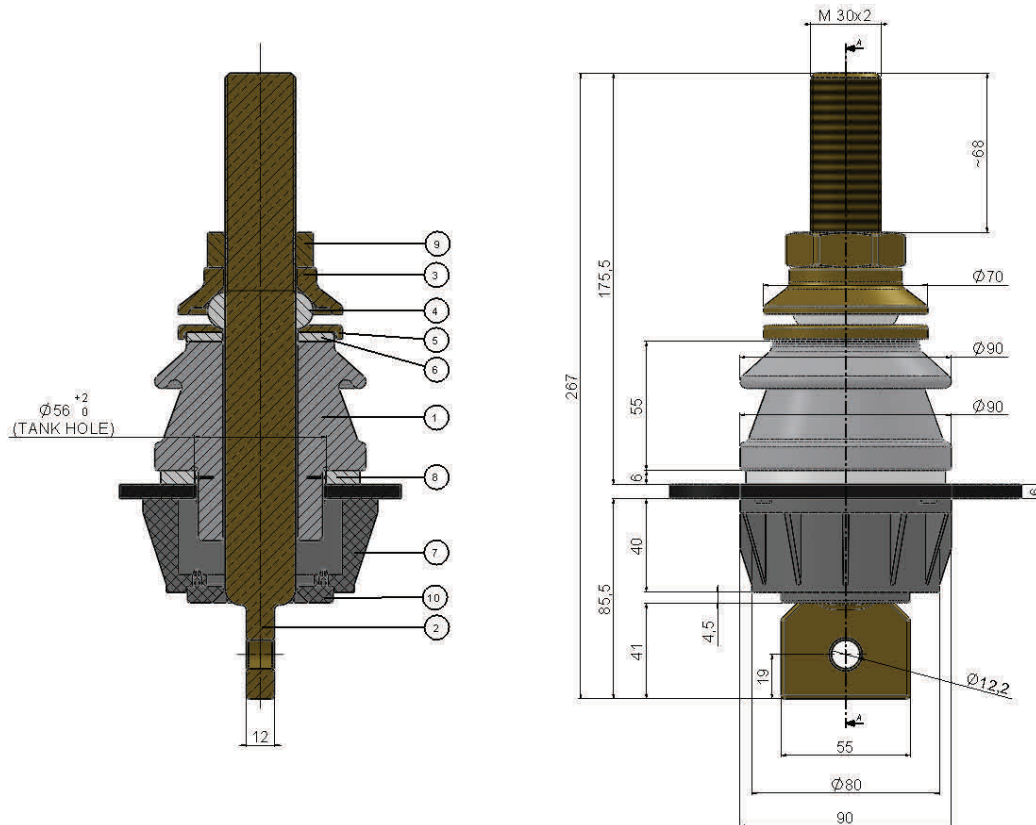
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **30 Nm**

Tank Hole: $\varnothing 56^{+2}_0$ mm



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M30x2	CW617N EN12165	1
10	ADAPTER	POLYAMID	1

TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **30 Nm**

Tank Hole: $\varnothing 56^{+2}_0$ mm

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	1000	20	10	10	75	--	--
EN 50386	1	1250	20	10	10	75	--	--

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.



1kV - DT2000
EN 50386



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-040

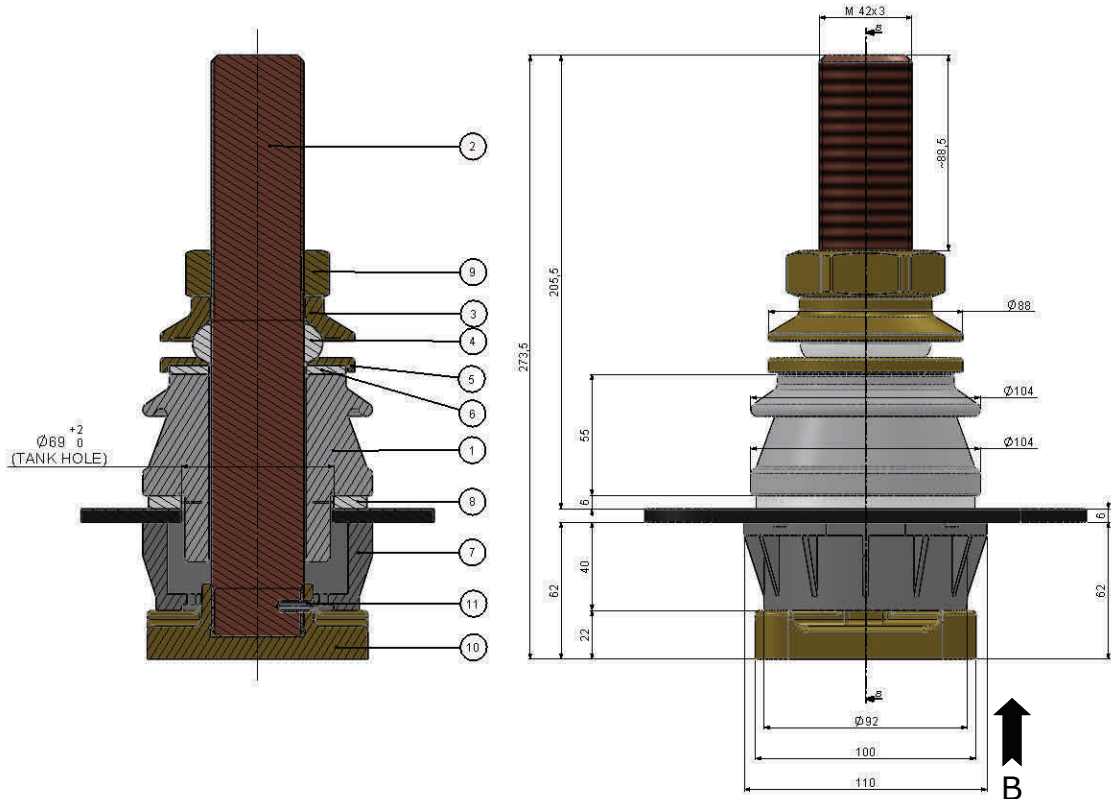
PORCELAIN BUSHING INSULATOR

Sheet

1kV DT2000 EN50386 (Copper bolt with washer)..... **3**

1kV DT2000 EN50386 (Copper bolt with plate)..... **4**

1kV DT2000 EN50386 (Brass bolt with plate)..... **5**



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU-ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL.BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M42x3	CW617N EN12165	1
10	LOWER WASHER	CW617N EN12165	1
11	ELASTIC PIN	AISI420	1

TECHNICAL FEATURES

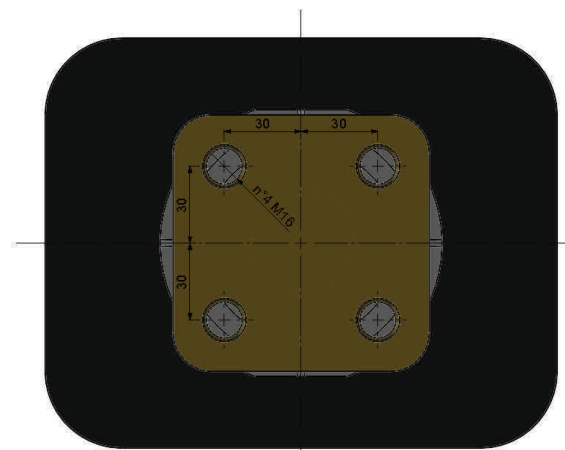
(*)Min/Max permanent working temperature:

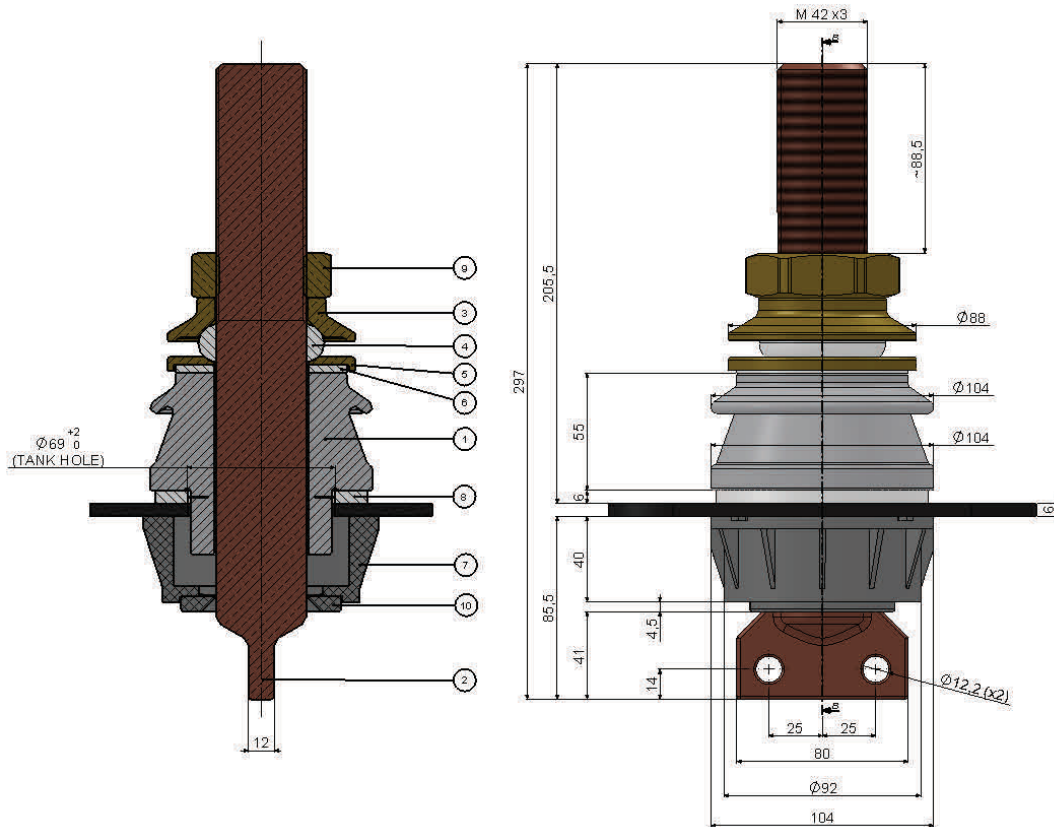
- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **50 Nm**

Tank Hole: $\varnothing 69^{+2}_0$ mm

-B- WIEW





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL.BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M42x3	CW617N EN12165	1
10	ADAPTER	POLYAMID	1

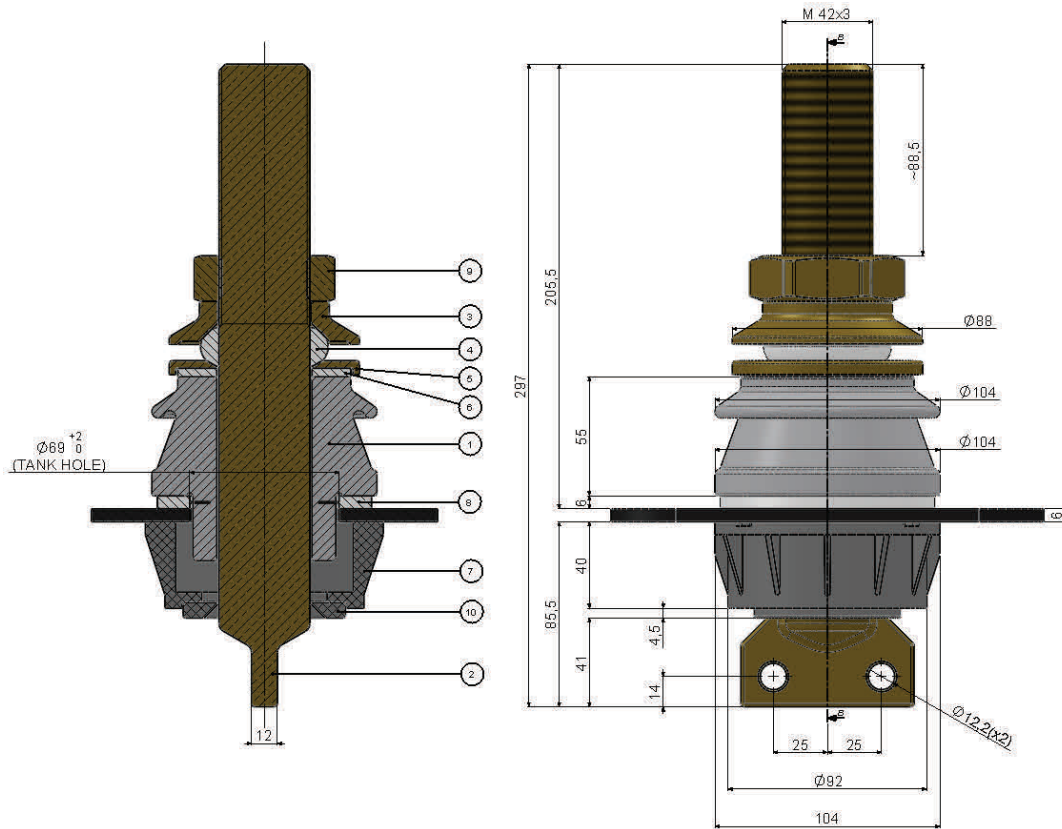
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
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Suggested Torque value: **50 Nm**

Tank Hole: $\varnothing 69^{+2}_0$ mm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M42x3	CW617N EN12165	1
10	ADAPTER	POLYAMID	1

TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
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- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **50 Nm**

Tank Hole: $\varnothing 69^{+2}_0$ mm

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	2000	20	10	10	75	--	--
EN 50386	1	1800	20	10	10	75	--	--

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

**1kV - DT3150
EN 50386**



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

UPP - NB

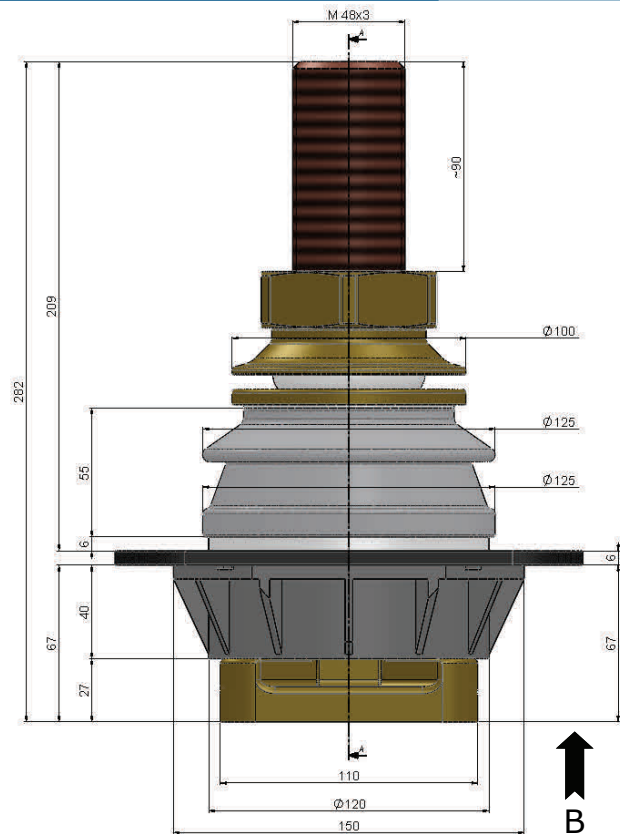
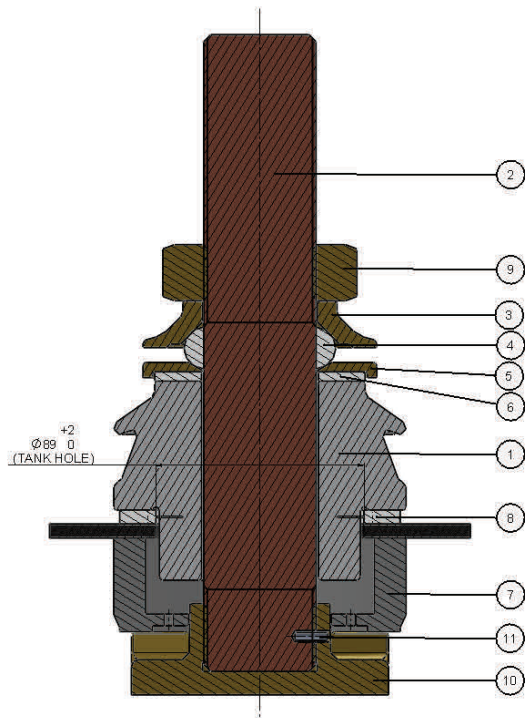
Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-050

PORCELAIN BUSHING INSULATOR

Sheet

1kV DT3150 EN50386 (Copper bolt with washer) **3**

1kV DT3150 EN50386 (Copper bolt with plate) **4**



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU-ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL.BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M48x3	CW617N EN12165	1
10	LOWER WASHER	CW617N EN12165	1
11	ELASTIC PIN	AISI420	1

TECHNICAL FEATURES

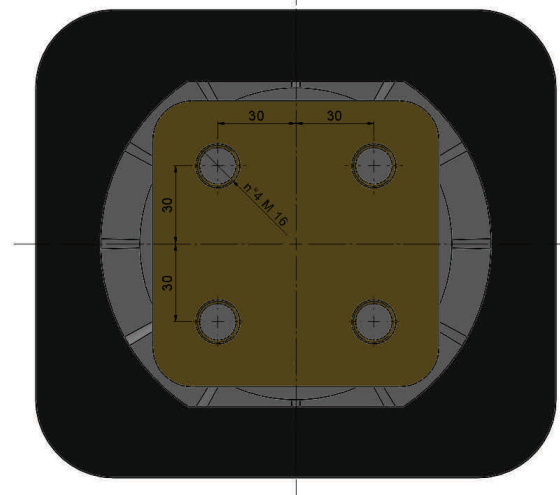
(*)Min/Max permanent working temperature:

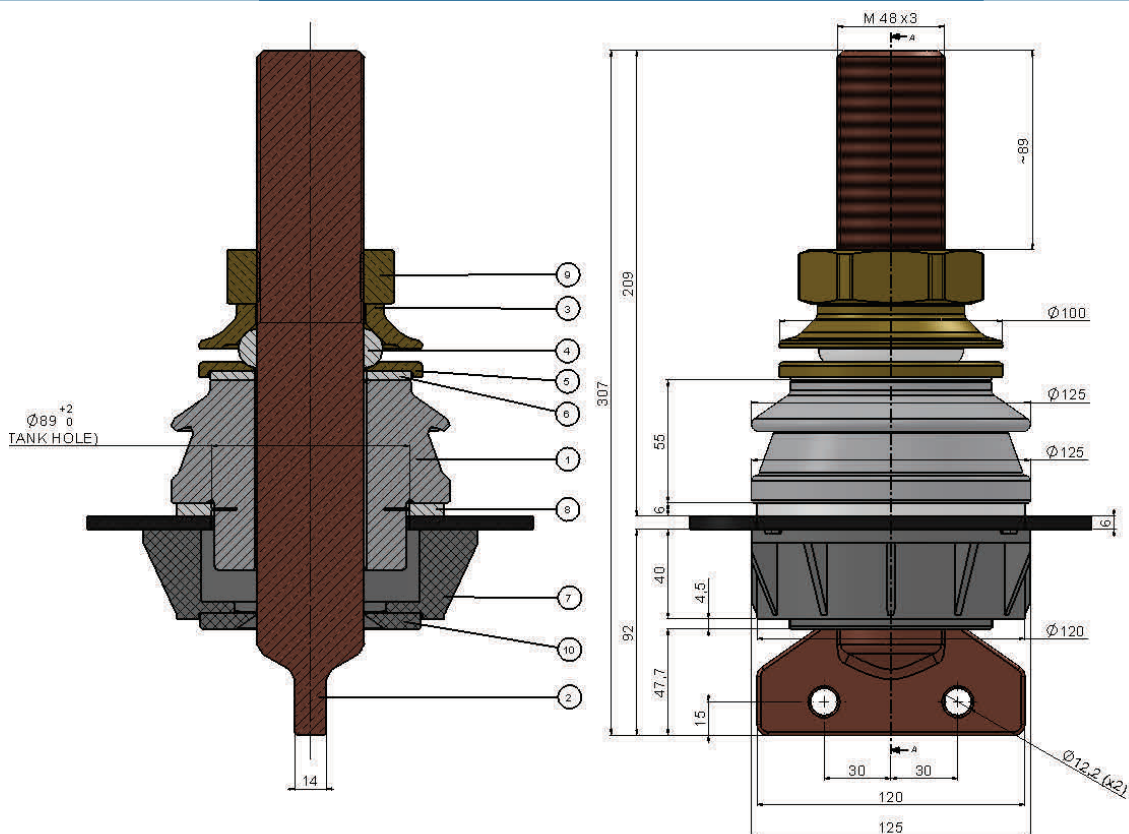
- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **60 Nm**

Tank Hole: $\varnothing 89^{+2}_0$ mm

-B- WIEW





LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL. BODY	POLYAMID	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M48x3	CW617N EN12165	1
10	ADAPTER	POLYAMID	1

TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **60 Nm**

Tank Hole: $\varnothing 89^{+2}_0$ mm

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	3150	20	10	10	75	--	--

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.



**1kV - DT4000
EN 50386**



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

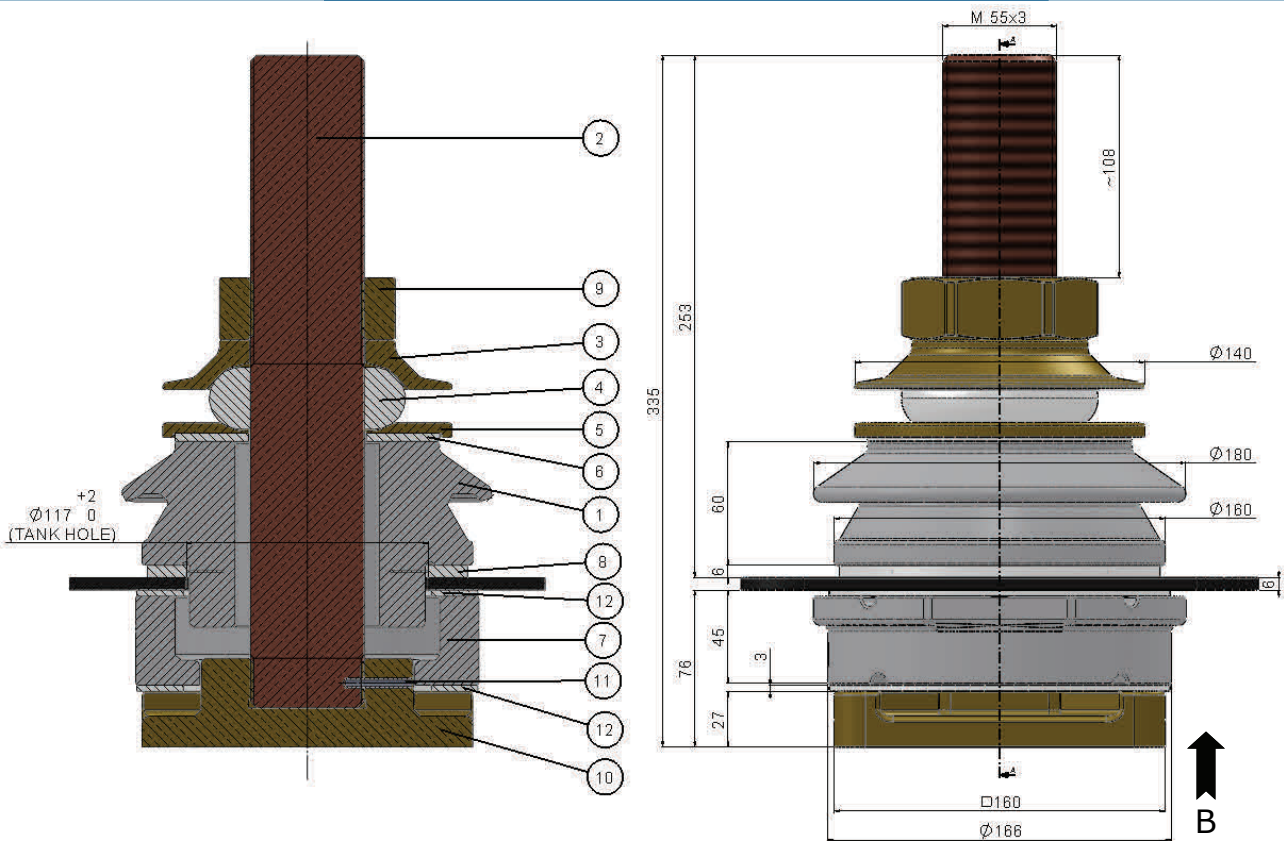
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-060

PORCELAIN BUSHING INSULATOR

Sheet

1kV DT4000 EN50386 (Copper bolt with washer) **3**



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	BOLT	CU-ETP	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	MIDDLE WASHER	CW617N EN12165	1
6	FLAT TOP GASKET	NBR (*)	1
7	LOWER INSUL.BODY	PORCELAIN	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M55x3	CW617N EN12165	1
10	LOWER WASHER	CW617N EN12165	1
11	ELASTIC PIN	AISI420	1
12	FLAT LOWER GASKET	ELEKTRON	2

-B- WIEW

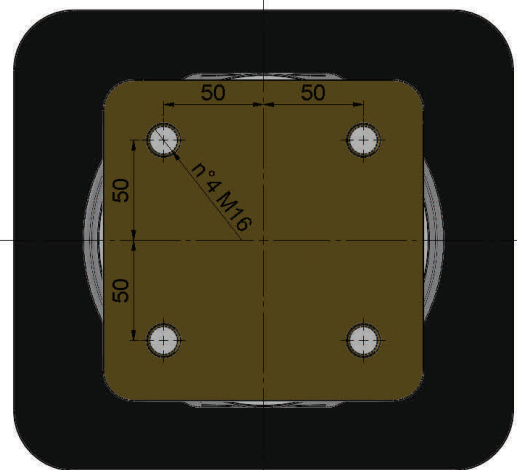
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **70 Nm**

Tank Hole: **Ø117⁺²₀ mm**



IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
EN 50386	1	4000	20	10	10	85	---	---

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

12-24 kV 250
EN 50180



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

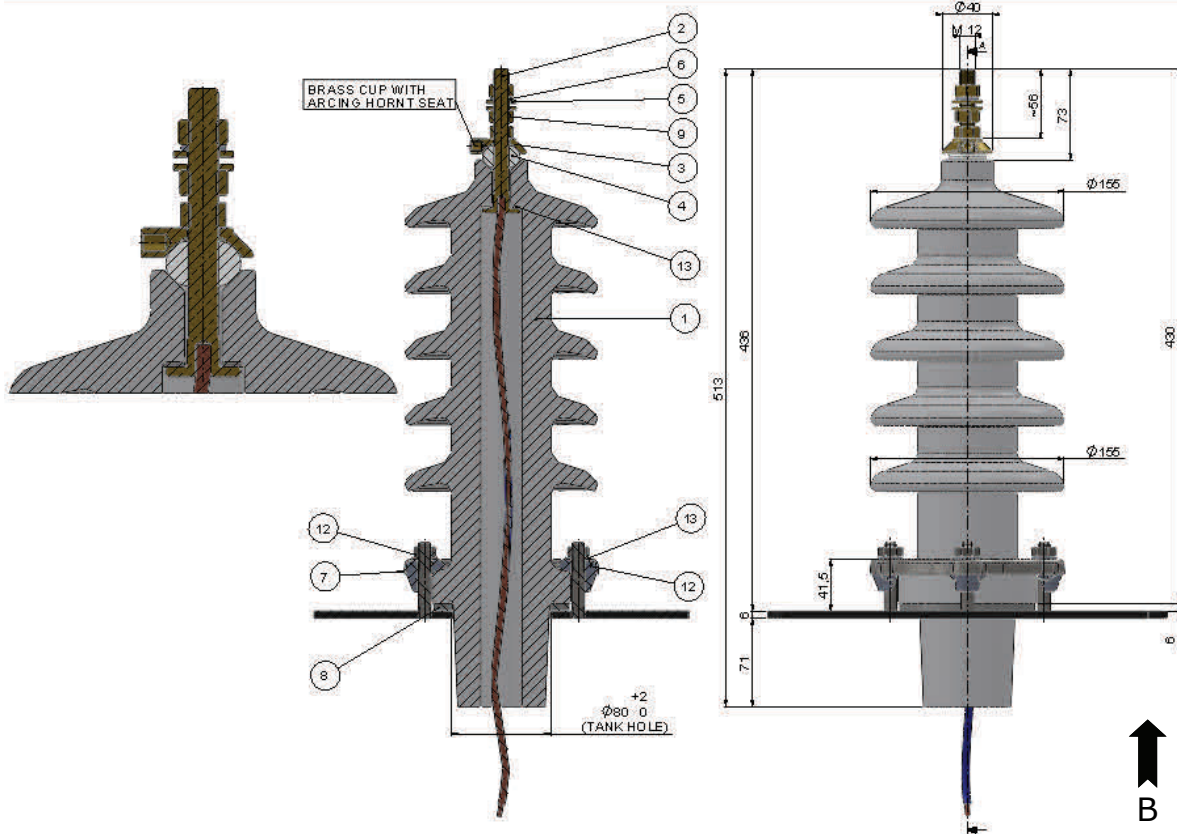
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-070

PORCELAIN BUSHING INSULATOR

Sheet

24kV 250 P3 EN50180 (with copper wire)	3
12kV 250 P2 EN50180 (with copper wire)	4
24kV 250 P2 EN50180 (with copper wire)	5
24kV 250 P3 EN50180 (with inner brass bolt)	6



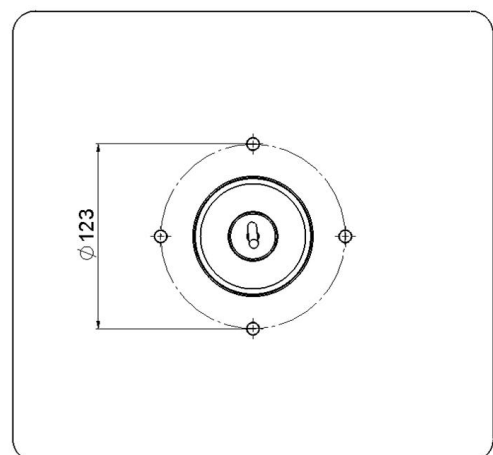
LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

TECHNICAL FEATURES

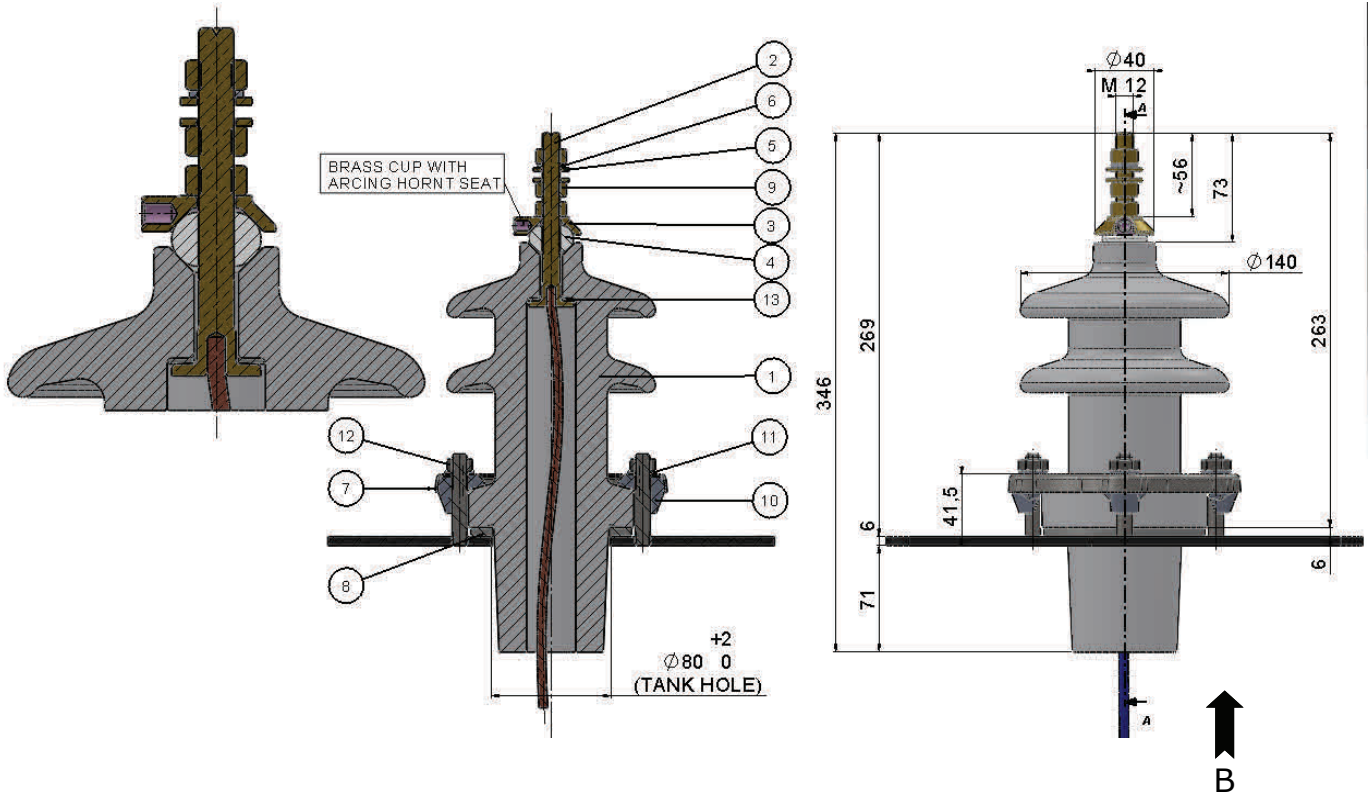
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)



Suggested Torque value: - Bolt 12 Nm - Flange nuts 14Nm

Tank Hole: Ø80⁺²₀ mm



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

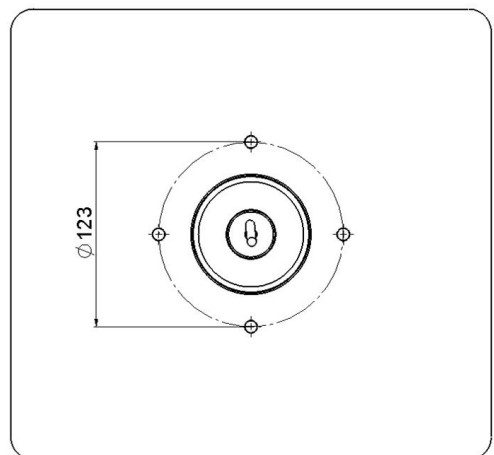
TECHNICAL FEATURES

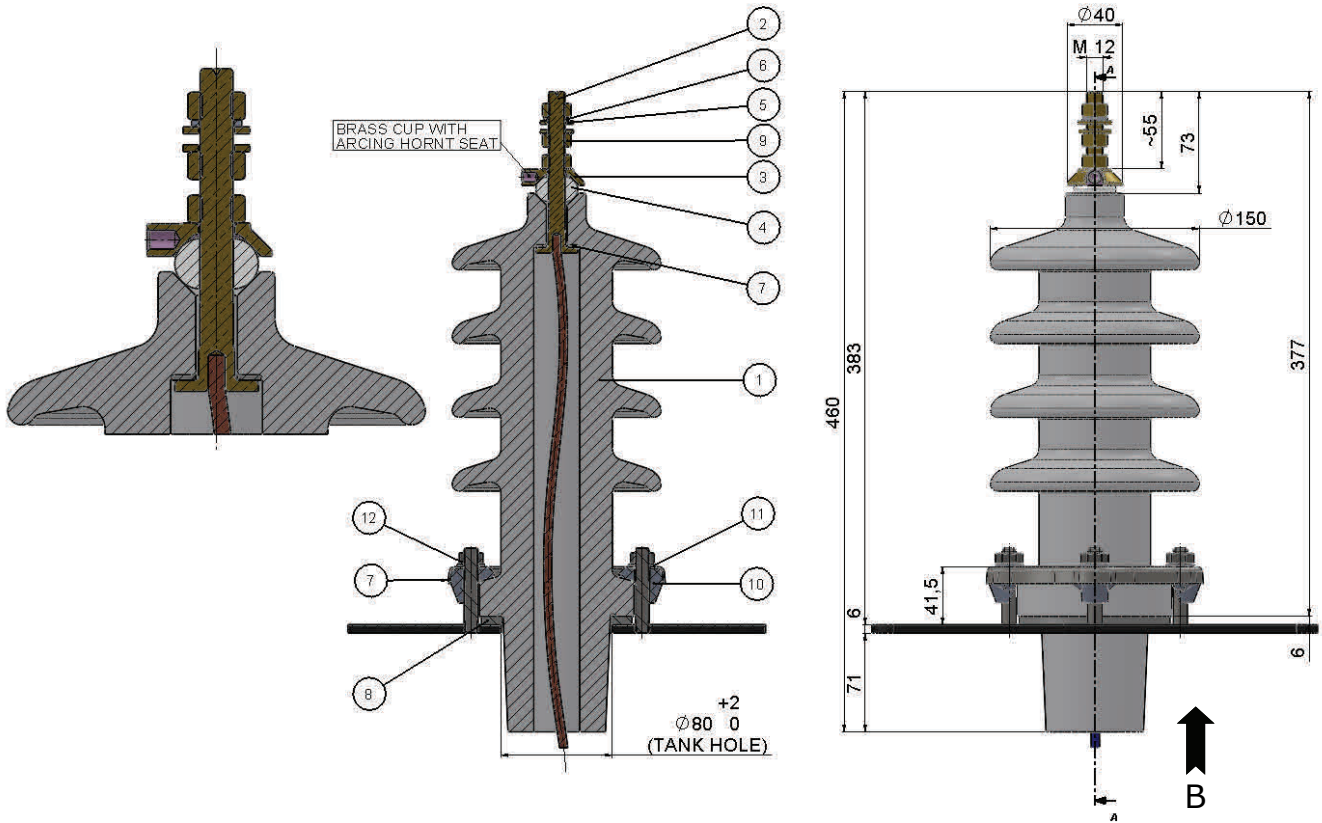
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: **Ø80⁺²₀ mm**





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

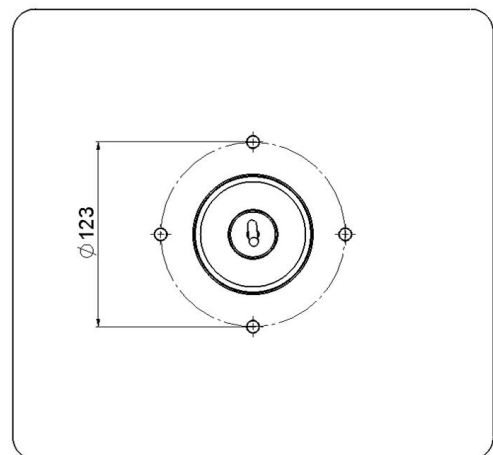
TECHNICAL FEATURES

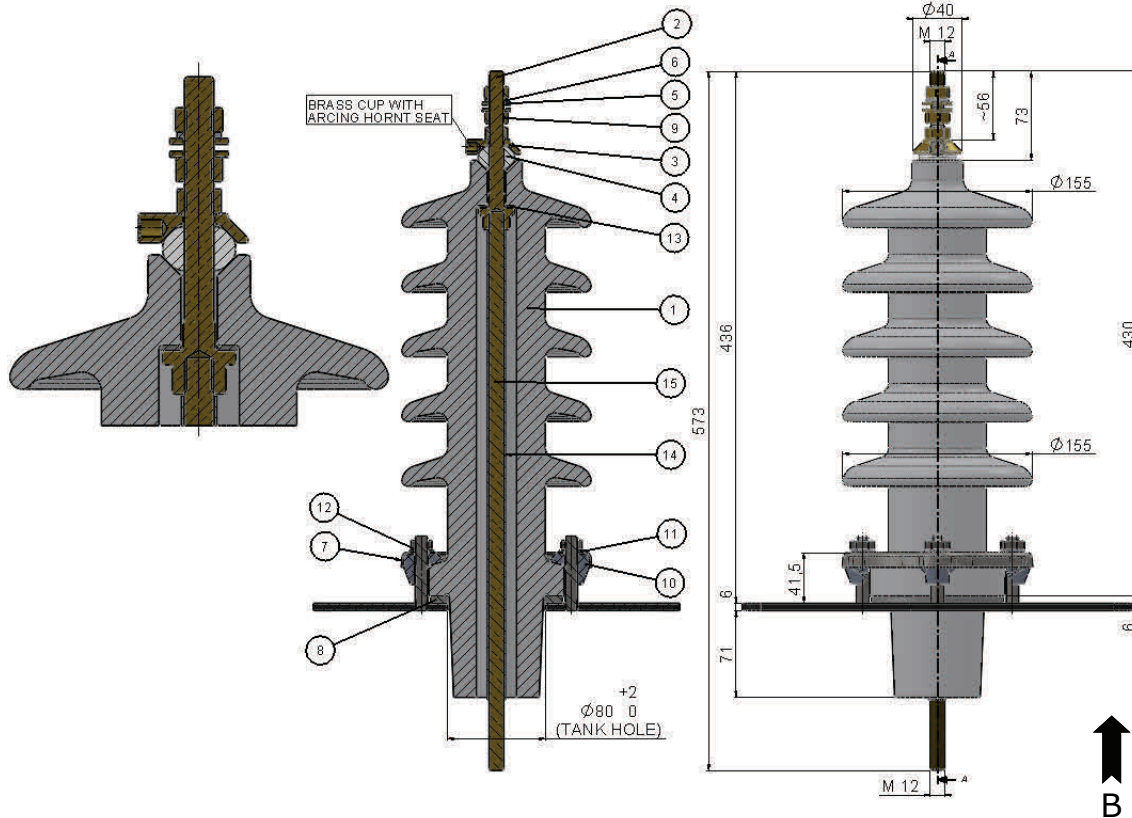
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: $\text{Ø}80^{+2}_0$ mm





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1
14	PAPER TUBE BAKELITE	BAKELITE	1

-B- WIEW

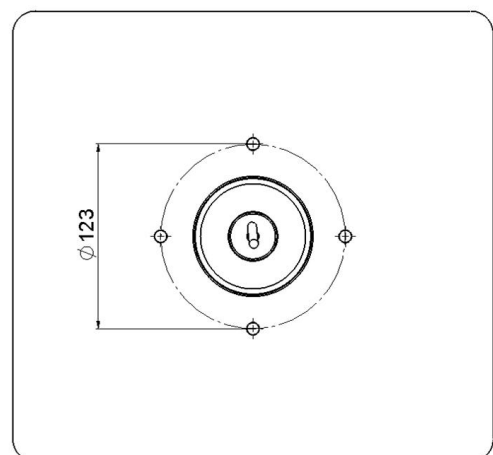
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: - Bolt 12 Nm - Flange nuts 14Nm

Tank Hole: Ø80⁺²₀ mm



IDENTIFICATION				VOLTAGE TIGHTNESS				
ACCORDING TO STANDARD	POLLUTION LEVEL	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)
					DRY	WET		
EN50180	P2	12	250	75	--	28	240	145
EN50180	P2	24	250	125	--	50	480	260
EN50180	P3	24	250	125	--	50	600	315

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to be handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

**DT NF250
DIN 42531**



PORCELAIN BUSHING INSULATOR

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

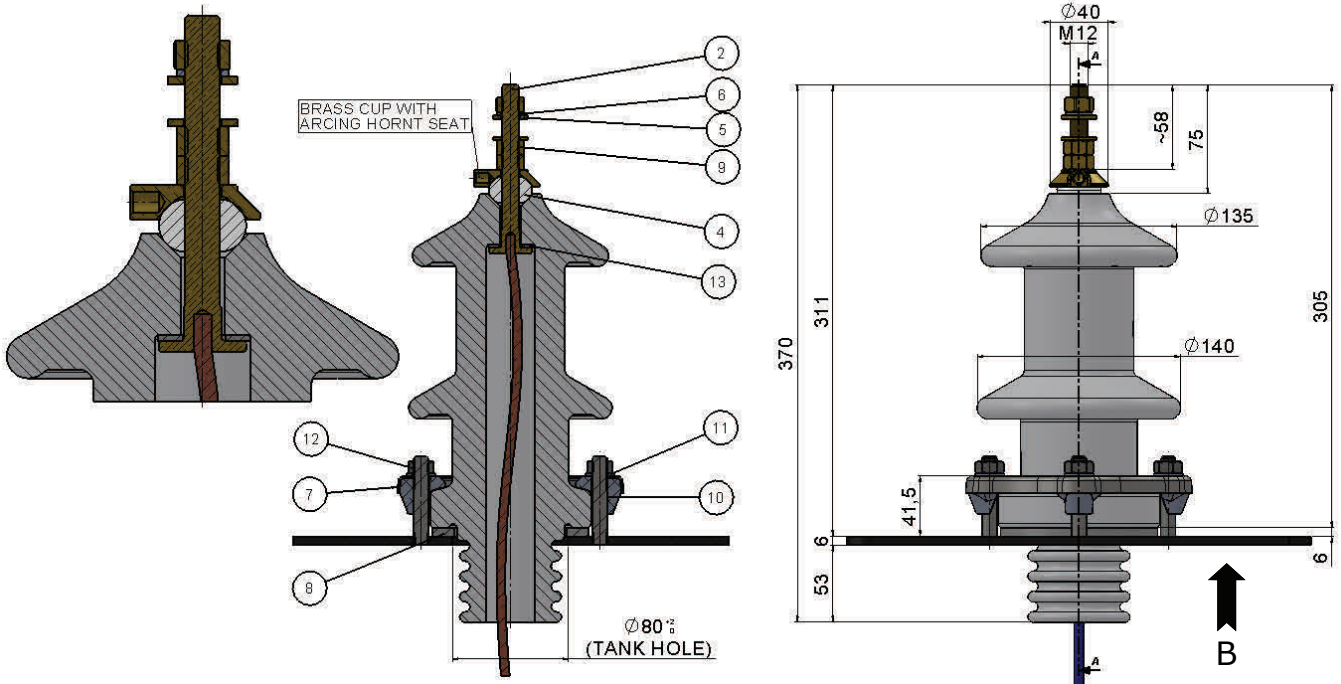
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-080

PORCELAIN BUSHING INSULATOR

Sheet

DT10 NF250 DIN42531 (with bolt for copper wire)	3
DT20 NF250 DIN42531 (with bolt for copper wire)	4
DT30 NF250 DIN42531 (with bolt for copper wire)	5
DT10 NF250 DIN42531	6
DT20 NF250 DIN42531	7
DT30 NF250 DIN42531	8



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

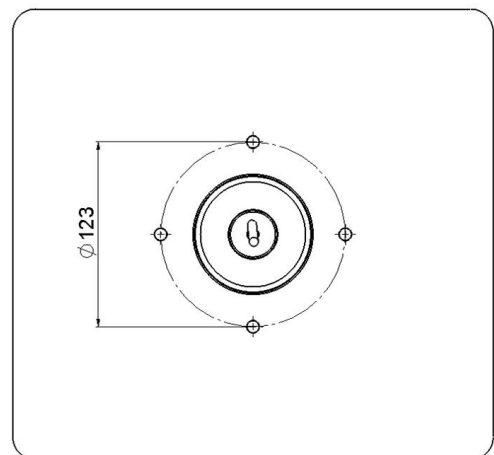
TECHNICAL FEATURES

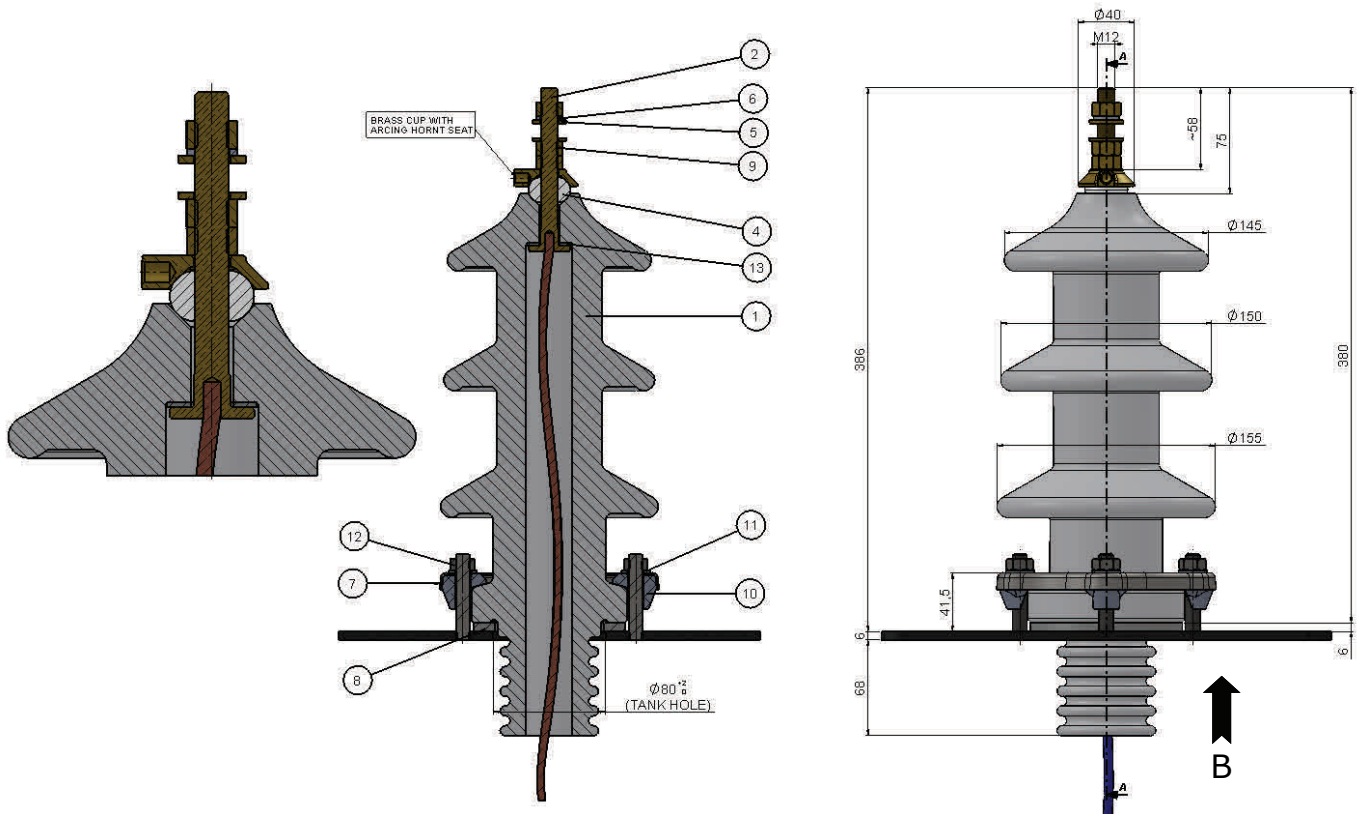
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: **Ø80⁺²₀ mm**





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

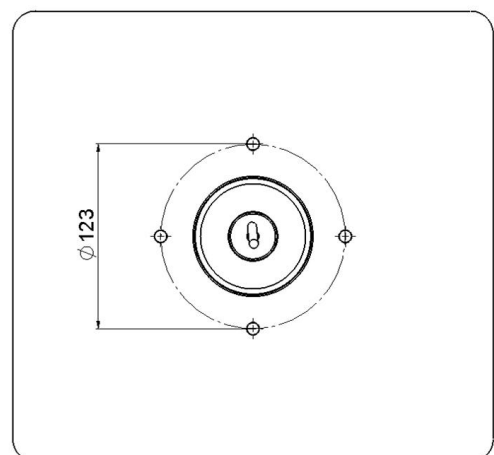
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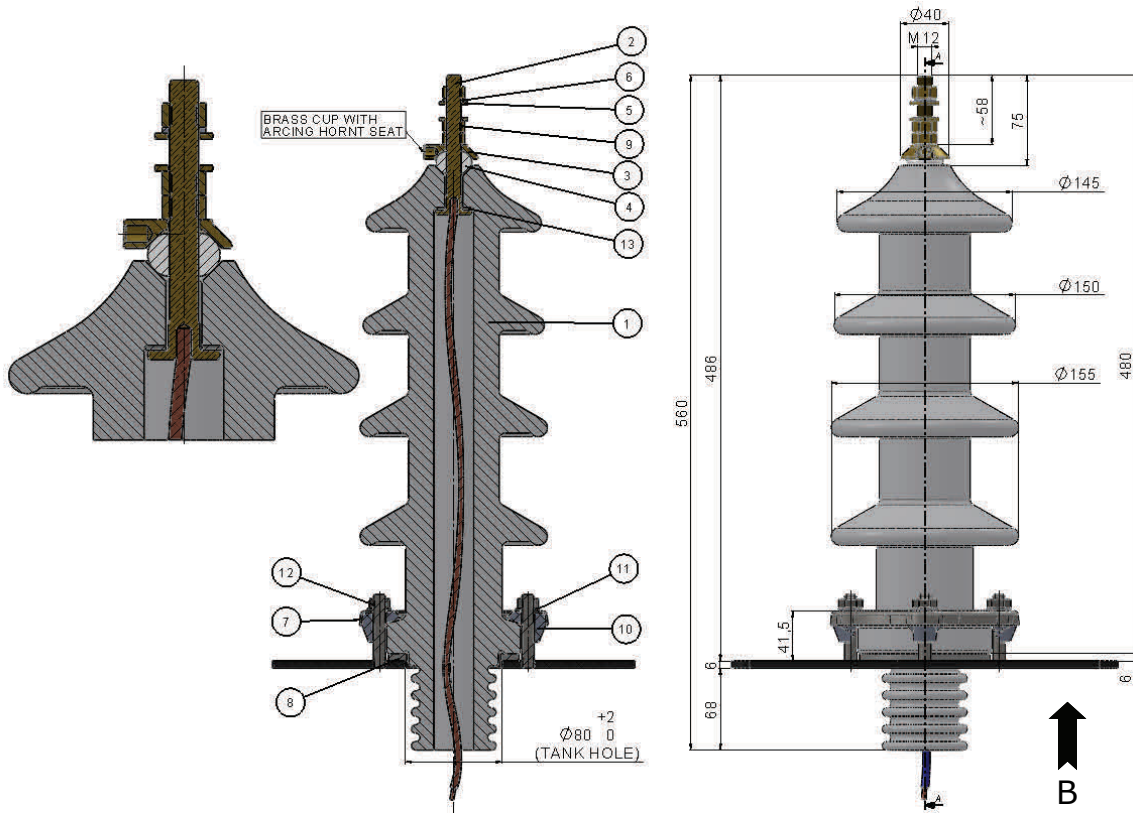
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: **Ø80⁺²₀ mm**





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT FOR WIRE	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1

-B- WIEW

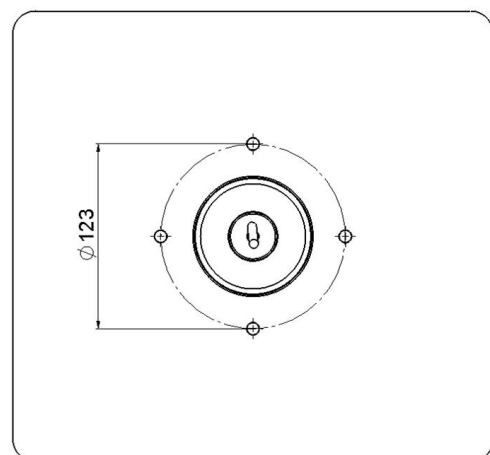
TECHNICAL FEATURES

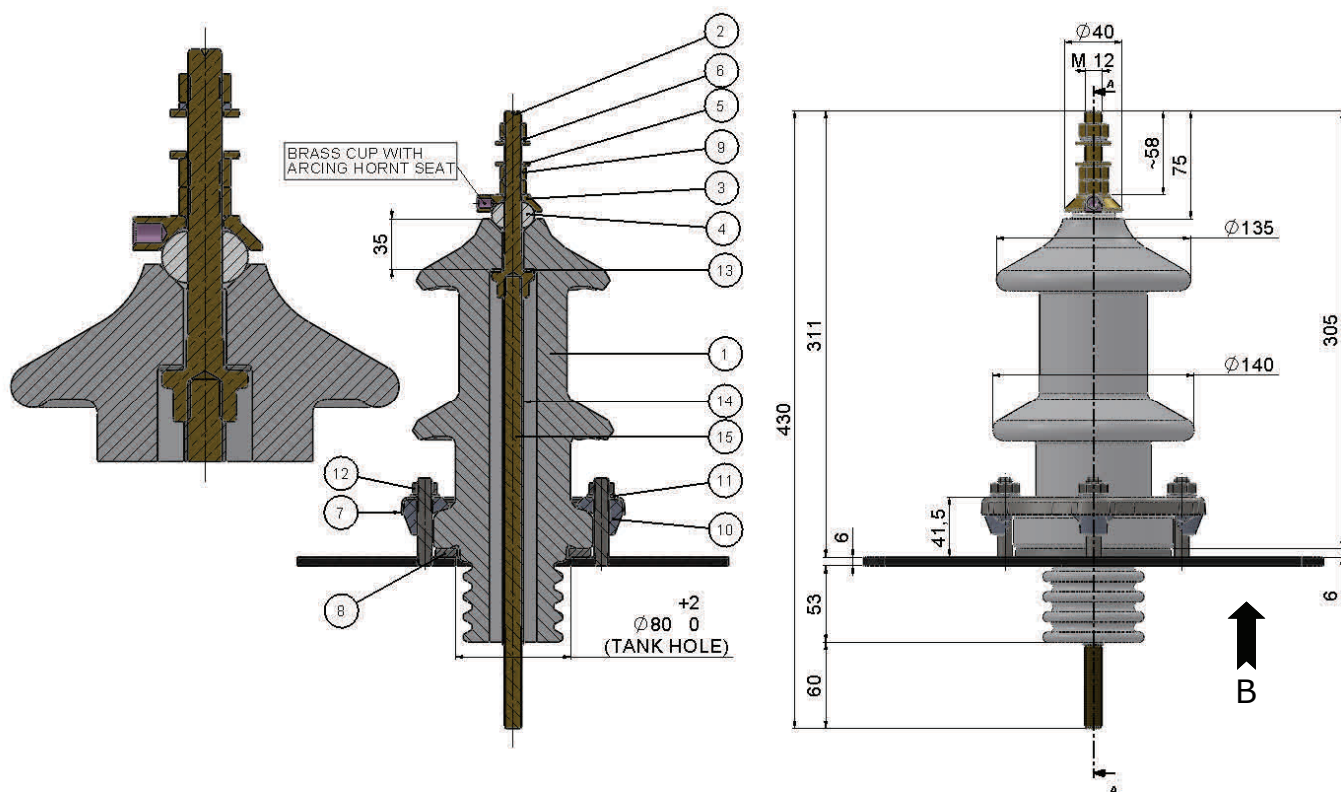
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: $\text{Ø}80^{+2}_0$ mm





LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER $\varnothing 12$	CW614N EN12164	2
6	GROVER $\varnothing 12$	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER $\varnothing 12$	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1
14	PAPER TUBE BAKELITE	BAKELITE	1
15	LOWER BOLT	CW614N EN12164	1

-B- WIEW

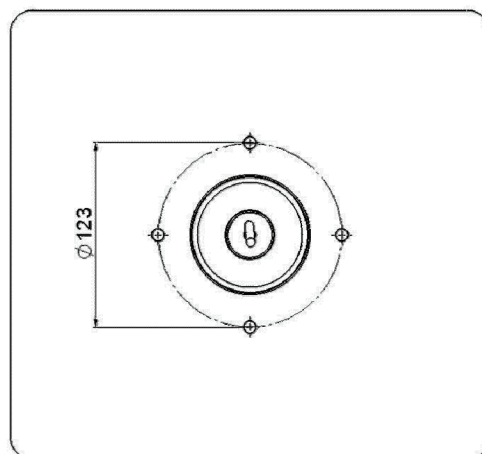
TECHNICAL FEATURES

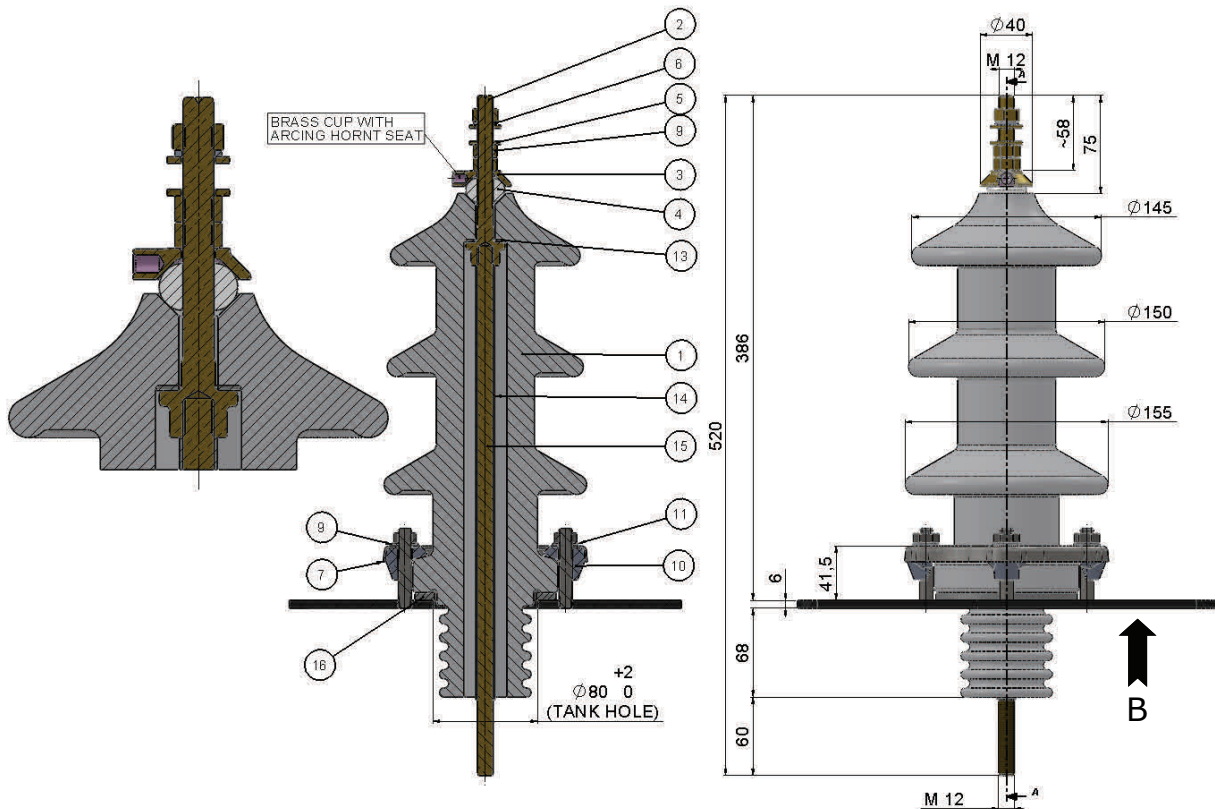
(*)Min/Max permanent working temperature:

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- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: $\varnothing 80_{+2}^0$ mm





LIST OF COMPONENTS

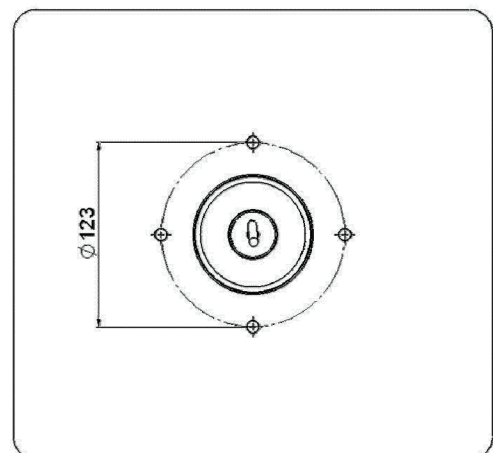
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1
14	PAPER TUBE BAKELITE	BAKELITE	1
15	LOWER BOLT	CW614N EN12164	1

-B- WIEW

TECHNICAL FEATURES

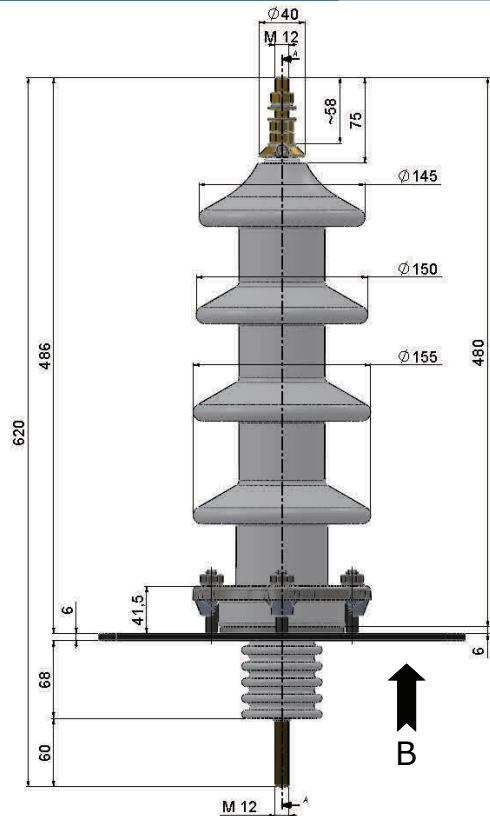
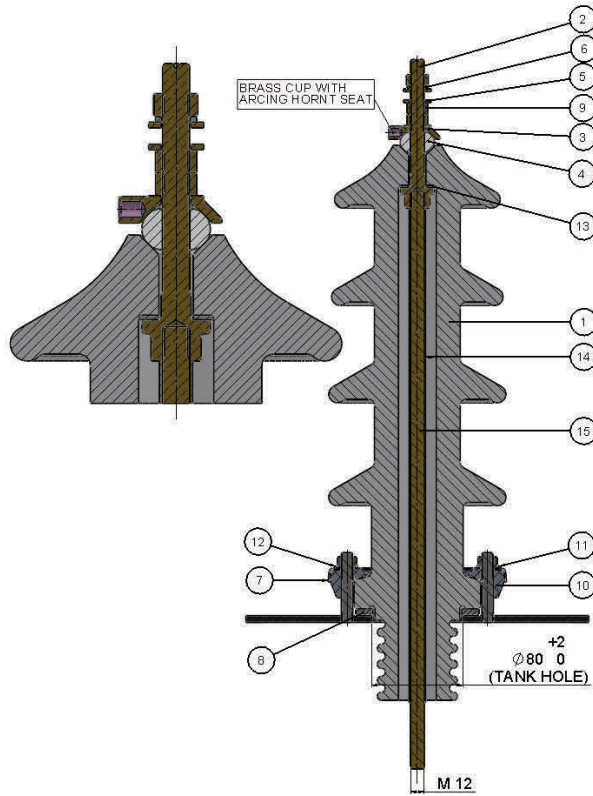
(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)



Suggested Torque value: **- Bolt 12 Nm** **- Flange nuts 14Nm**

Tank Hole: $\text{Ø}80^{+2}_0$ mm



LIST OF COMPONENTS			
POS	DESCRIPTION	MATERIAL	QTY
1	PORCELAIN	PORCELAIN	1
2	UPPER BOLT	CW617N EN12165	1
3	BRASS CUP	CW617N EN12165	1
4	RING GASKET	NBR (*)	1
5	WASHER Ø12	CW614N EN12164	2
6	GROVER Ø12	C70-C72 FOR SPRING	1
7	FLANGE	Fe P11 ZINC PLATED OR ALUMINUM OR INOX	1
8	FLANGE GASKET	NBR (*)	1
9	NUT M12	CW614N EN12164	3
10	PRESBIT	ALUMINUM EN AB46100	4
11	WASHER Ø12	AISI420	4
12	NUT M10	INOX A2	4
13	FLAT TOP GASKET	ELEKTRON	1
14	PAPER TUBE BAKELITE	BAKELITE	1
15	LOWER BOLT	CW614N EN12164	1

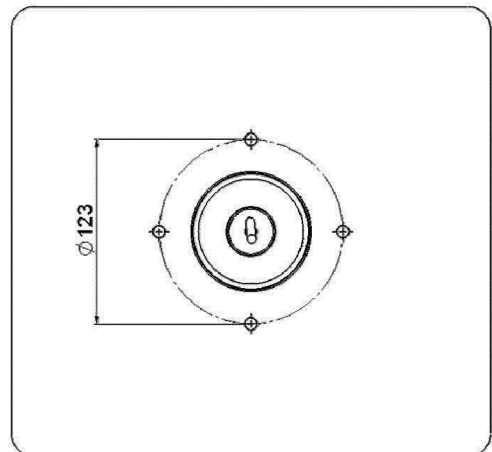
TECHNICAL FEATURES

(*)Min/Max permanent working temperature:

- ⇒ **-30/+110°C** (NBR gasket)
- ⇒ **-40/+120°C** (HNBR gasket)
- ⇒ **-50/+150°C** (SILICON gasket)
- ⇒ **-60/+200°C** (FLUORO-SILICON gasket)
- ⇒ **-20/+180°C** (VITON gasket)

Suggested Torque value: **- Bolt 12 Nm - Flange nuts 14Nm**

Tank Hole: $\text{Ø}80^{+2}_0$ mm



-B- WIEW

IDENTIFICATION			VOLTAGE TIGHTNESS					
ACCORDING TO STANDARD	RATED VOLTAGE (kV)	RATED CURRENT (A)	LIGHTING IMPULSE (kV)	POWER FREQUENCY (kV)		CREEPAGE DISTANCE MIN. (mm)	ARCING DISTANCE MIN. (mm)	LEE PROTECTED LINE MIN. (mm)
				DRY	WET			
DIN 42531-68	12	250	75	28	--	305	235	165
DIN 42531-68	24	250	125	50	--	450	310	212
DIN 42531-68	36	250	170	70	--	607	408	288

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

Make a hole on the cover of the transformer with dimension indicated on the table sheet of each insulator. Make sure that the border of the hole is completely free of burrs and clean. The surface where the insulator bushing will be installed, must be perfectly flat and clean.

Max torque nuts value of the bushing during the transformer drying process must be 5Nm.

After this process, when the transformer has reached the environment temperature, proceed with the final clamping of the bushing fixing the nuts with the torque value suggested on the table sheet. (of course using a torque wrench tool).

Note: Torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE
COMPONENT S.r.l.

DIN 43675 / EMC STANDARD



CONNECTING FLAGS

Technical Datasheet

1. Technical features and dimensions
2. List of components
3. Installation and Storage instructions

Prepared by

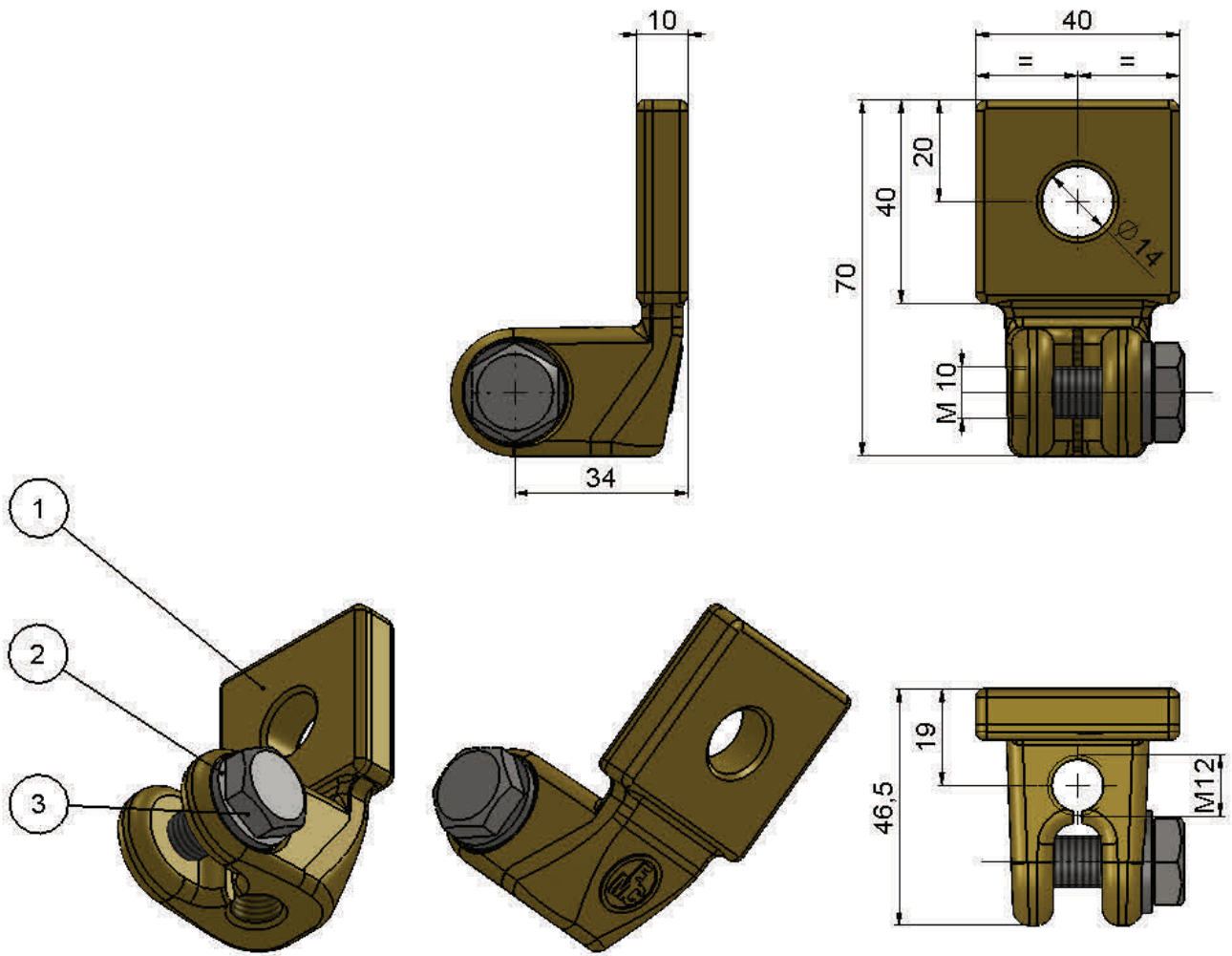
UPP - NB

Rev.	Date	Archive	Datasheet
2	03/2012	UPP	TD0003-090

CONNECTING FLAGS

Sheet

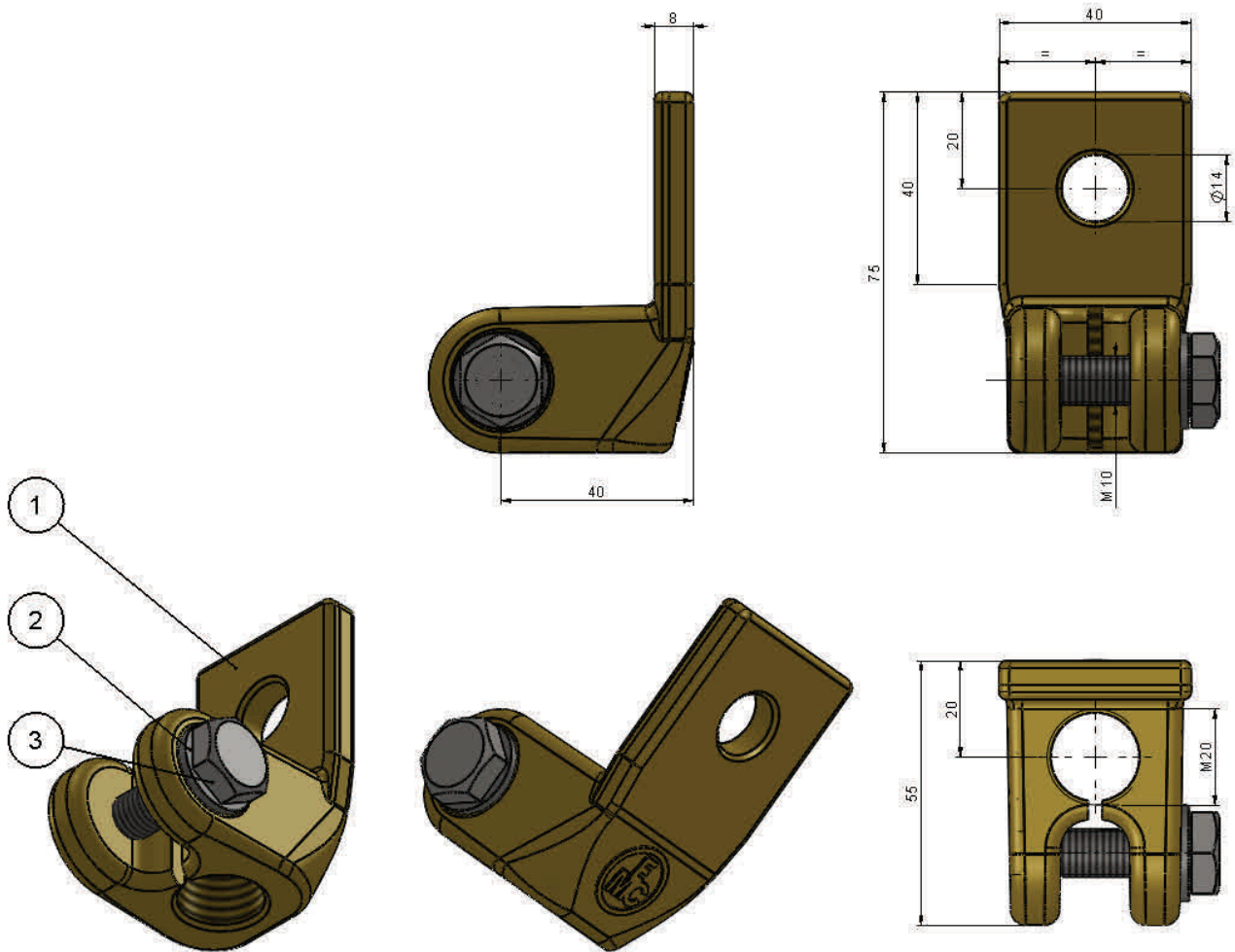
FLAG 009/250A ACCORDING TO EMC STANDARD	3
FLAG DP 630/630A ACCORDING TO DIN 43675 STANDARD	4
FLAG EP 1000/1000A ACCORDING TO DIN 43675 STANDARD	5
FLAG FP 2000/2000A ACCORDING TO DIN 43675 STANDARD	6
FLAG FP 3150/3150A ACCORDING TO DIN 43675 STANDARD	7
FLAG TYPE 4000/4000A ACCORDING TO EMC STANDARD	8



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø10	INOX A2	1
3	SCREW TE M10x25	INOX A2	1

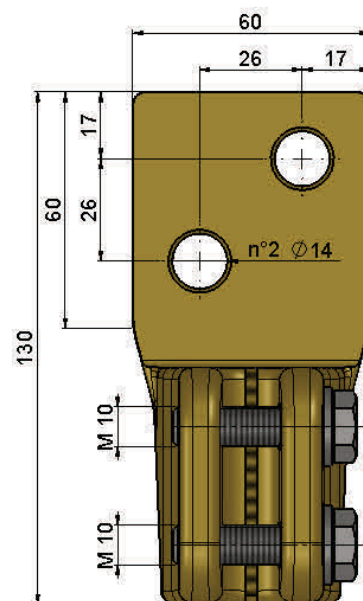
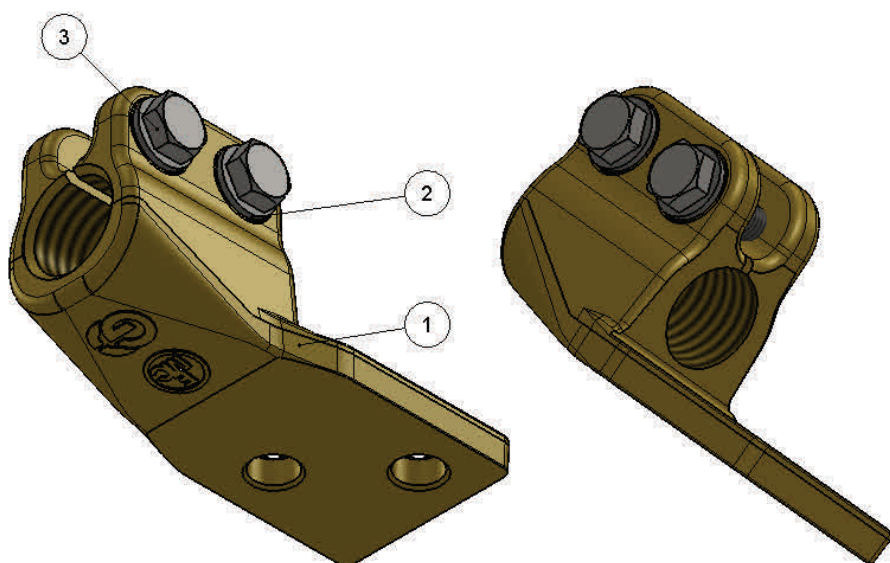
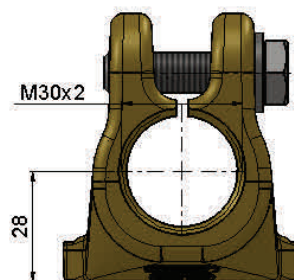
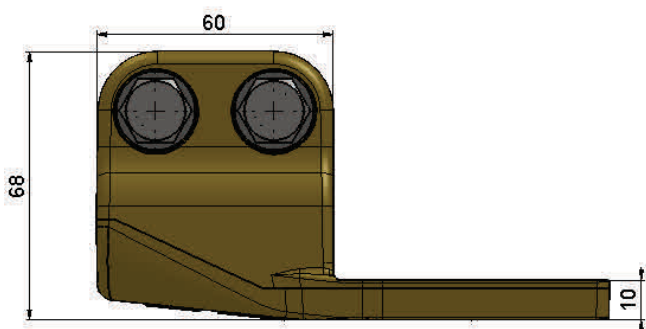
Screw suggested torque value: 22Nm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø10	INOX A2	1
3	SCREW TE M10x35	INOX A2	1

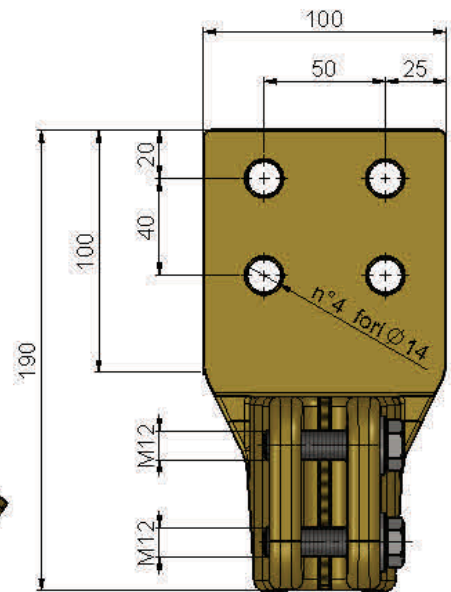
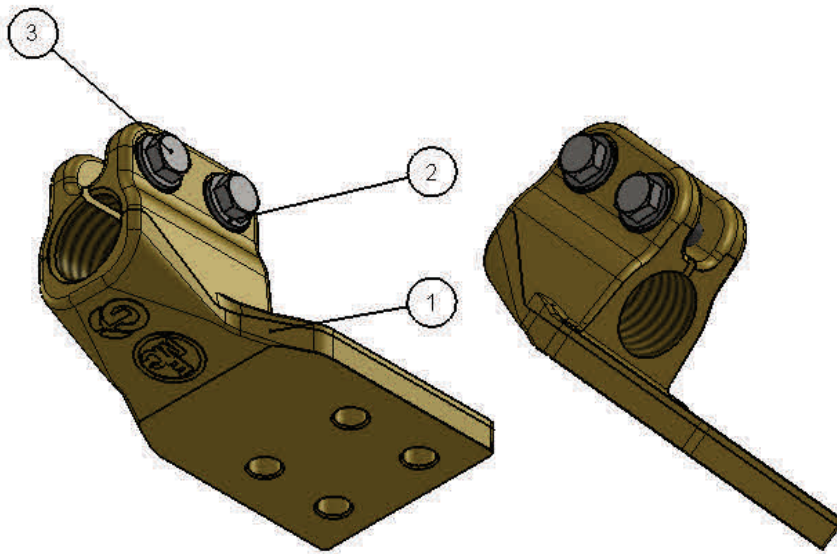
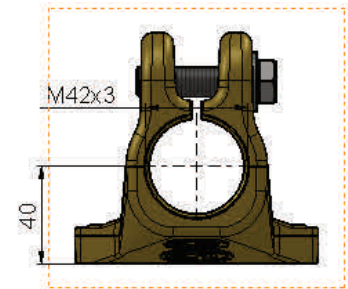
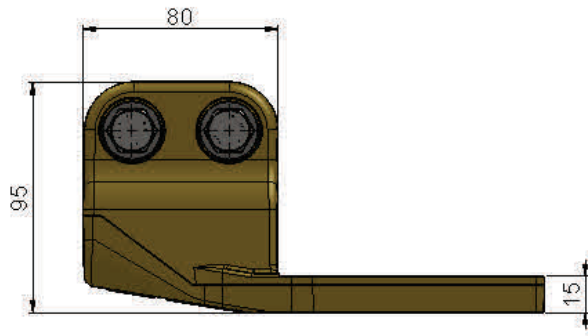
Screw suggested torque value: 22Nm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø10	INOX A2	2
3	SCREW TE M10x40	INOX A2	2

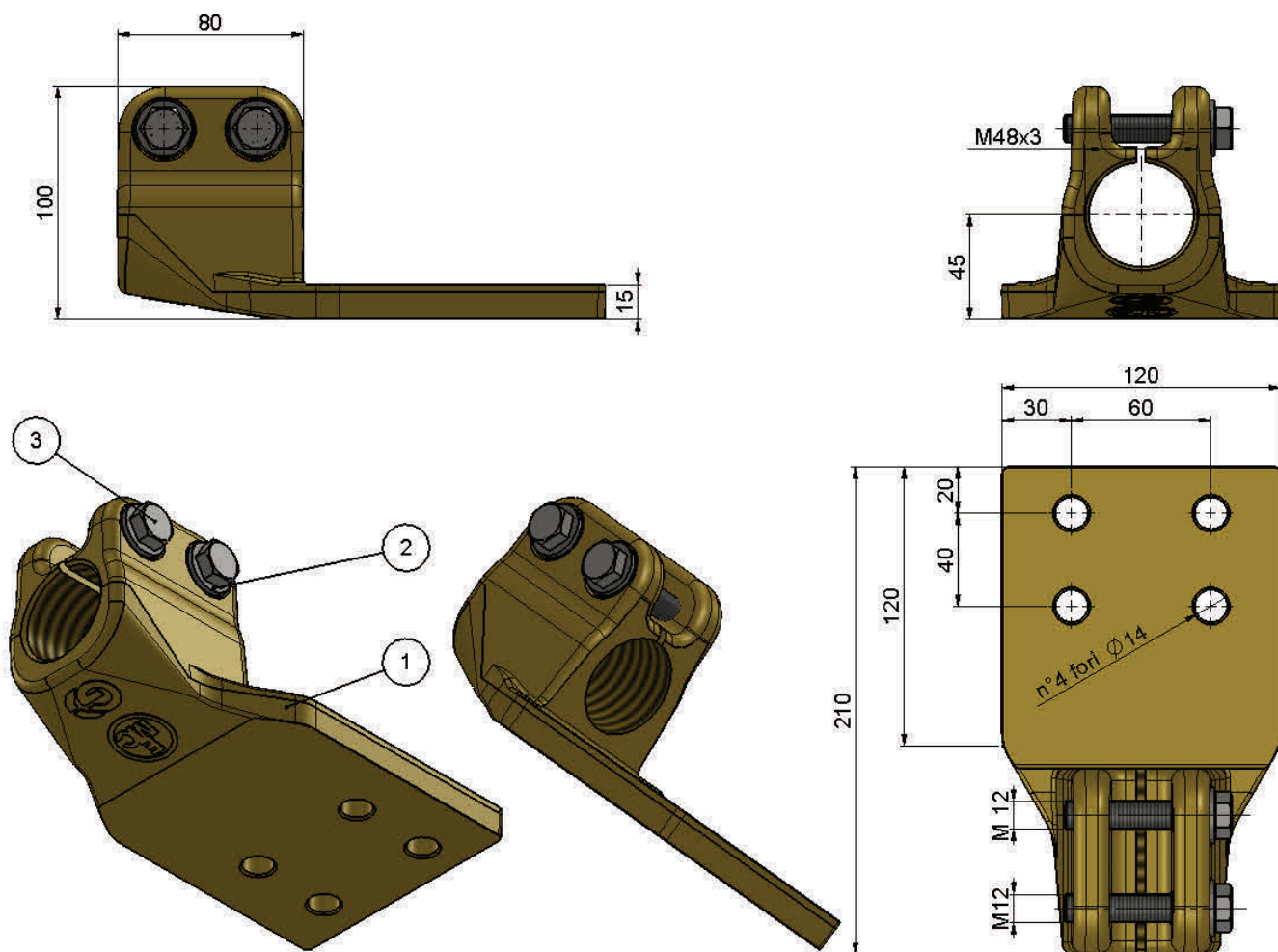
Screw suggested torque value: 22Nm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø12	INOX A2	2
3	SCREW TE M12x50	INOX A2	2

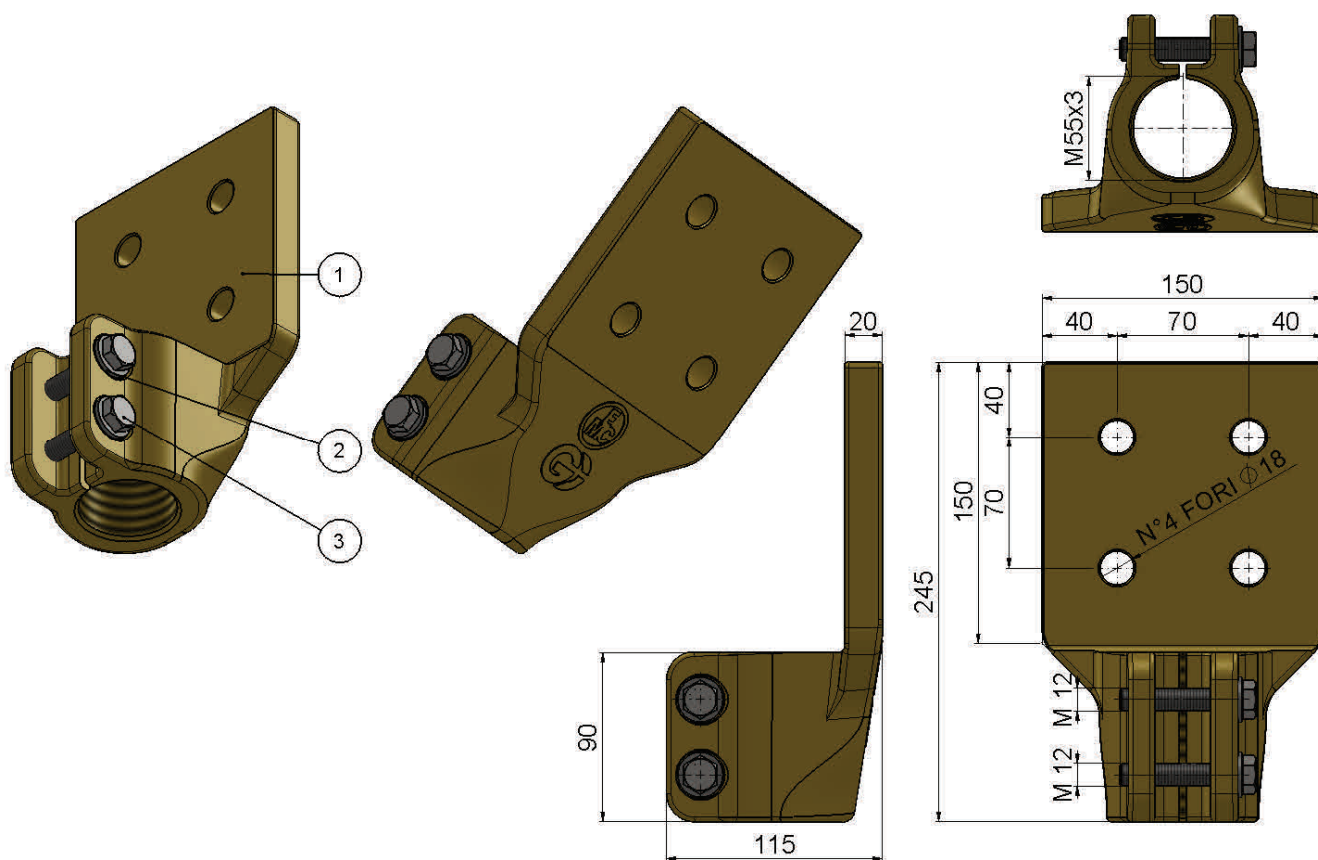
Screw suggested torque value: 35Nm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø12	INOX A2	2
3	SCREW TE M12x65	INOX A2	2

Screw suggested torque value: 35Nm



LIST OF COMPONENTS

POS	DESCRIPTION	MATERIAL	QTY
1	FLAG BODY	CW617N EN 12165	1
2	WASHER Ø12	INOX A2	2
3	SCREW TE M12x65	INOX A2	2

Screw suggested torque value: 35Nm

INSTALLATION INSTRUCTIONS

Please follow the instructions as written here under for a proper assembling operation.

- Unscrew totally the screws before assembling the flag on the bushing.
- Screw in the flag on all threaded part, next fix the screw with torque value suggested in the table sheet.

Note: torques values reported above, are purely indicative.

STORAGE INSTRUCTIONS

For a proper stocking:

- Packaging must be not tempered and has to be handled with proper care
- Location of boxes and any type of packages, should be in a proper environment free of humidity (low humidity) free of water, and indoor.
- Please mind that metal parts do not bear water and humidity

A light patina on the surface of metal components, has to be considered normal, and does not compromise their use.



ELETTROMAULE COMPONENT SRL

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