
Semiconductor mounting clamps

Product catalog 2021



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Aluminium mounting clamp

5SAC29V: 110 and 190 kN

—
Figure 01
5SAC29V1120

Each part number includes:
1. Leaf spring with correct clamping force indicator and pressure pad.
2. Washers
3. Label

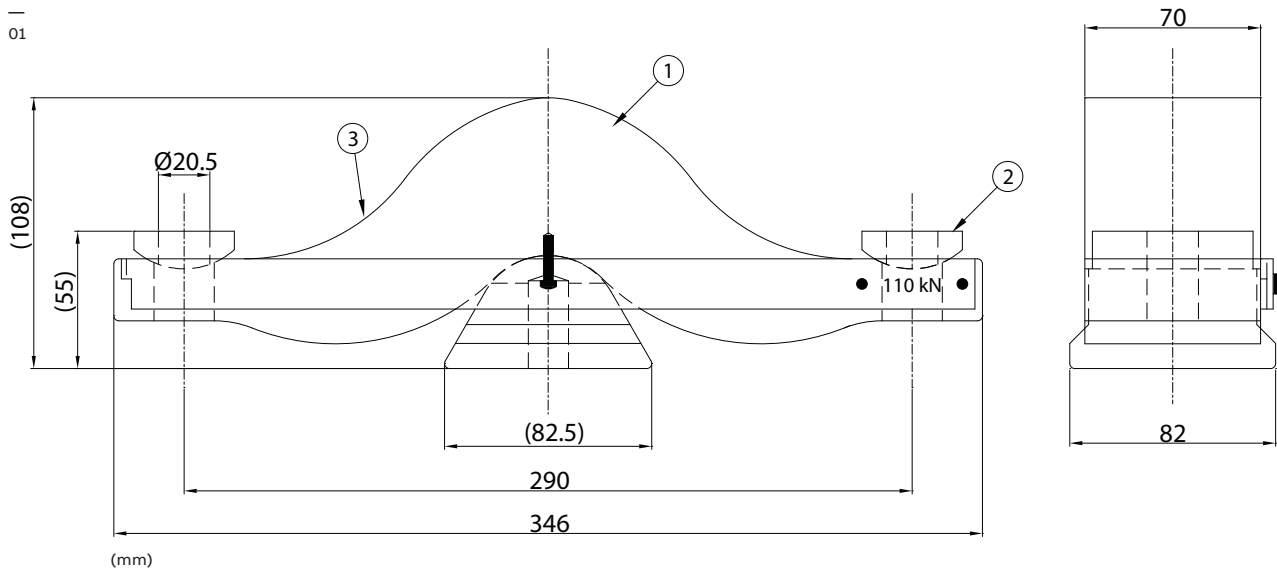
Clamping system for hockey-puck devices with flange diameter 172 to 197 mm clamping force 110 and 190 kN, in alloy EN-AW-6082-T6.

Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force up to 110 and 190 kN
- (-10%, +20%)
- ABB's correct clamping force indicator

5SAC29V

| Type and ordering number | Bolt | | Weight | F _m Clamping force | V _c Max. insulation voltage | V _m Voltage for partial discharge | T _m Max. temp for cont. operation | Fig. |
|--------------------------|--------|----------|--------|----------------------------------|---|---|---|------|
| | Length | Distance | | | | | | |
| | mm | mm | kg | kN | kV | kV | °C | |
| 5SAC29V1120 | — | 290 | 3.6 | 110 | — | — | 80 | 01 |
| 5SAC29V1920 | — | 290 | 5.1 | 190 | — | — | 80 | 02 |



Aluminium mounting clamp

5SAC29V: 110 and 190 kN

—
Figure 02
5SAC29V1920

Each part number includes:
1. Leaf spring with correct clamping force indicator and pressure pad.
2. Washers
3. Label

PRODUCT SPECIFICATIONS

Leaf spring

Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm)

Indicating spring

Material: EN-AW-6005
Surface treatment: Anodized nature (10µm)

Press piece

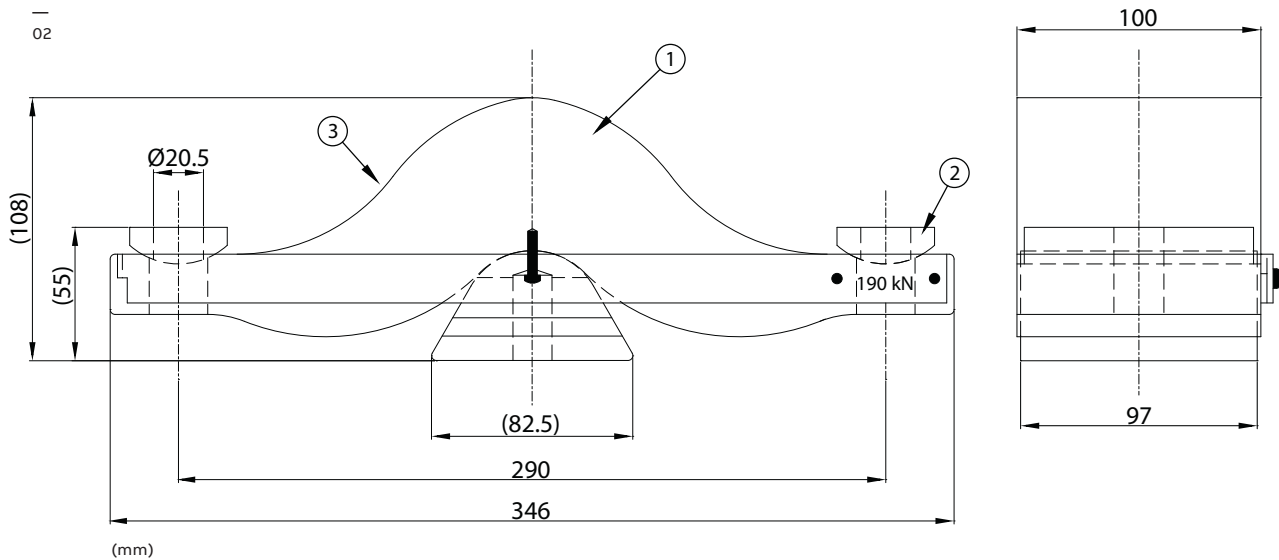
Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm)

Washers

Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm)

Environmental

IEC60721-3-3 set IE33, Class 3C1
Relative humidity 5 to 85%, no condensation allowed.



Aluminium mounting clamp

5SAC22V: 90 and 135 kN

—
Figure 01
5SAC22V9020

Each part number includes:
1. Leaf spring with correct clamping force indicator and pressure pad.
2. Washers
3. Label

Clamping system for hockey-puck devices with flange diameter 150 to 172 mm clamping force 90 and 135 kN, in alloy EN-AW-6082-T6.

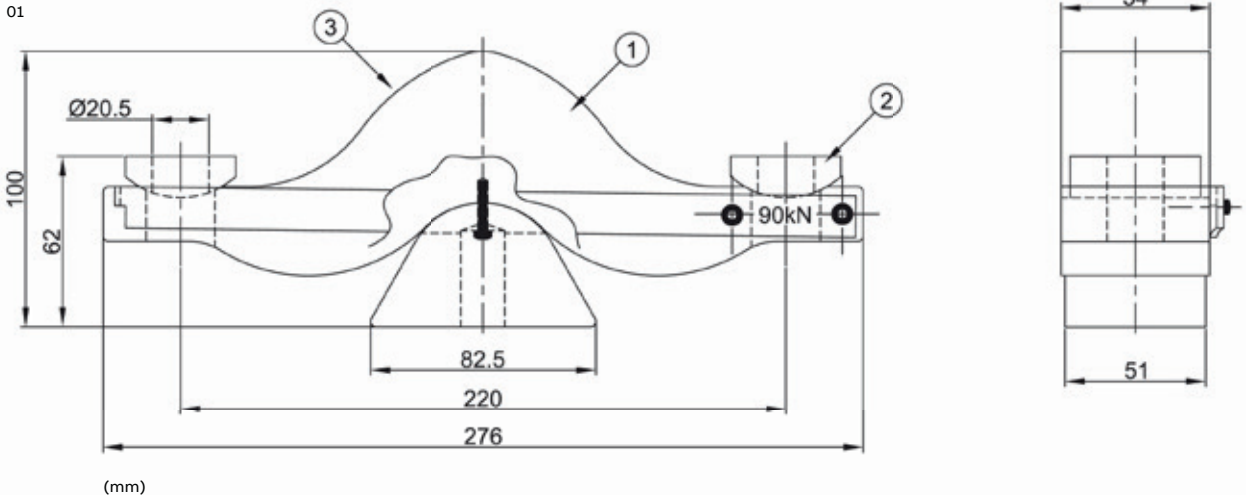
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force up to 90 and 135 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC22V

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC22V9020 | — | 220 | 2.00 | 90 | — | — | 80 | 01 |
| 5SAC22V1320 | — | 220 | 2.74 | 135 | — | — | 80 | 02 |

—
01



Aluminium mounting clamp

5SAC22V: 90 and 135 kN

—
Figure 02
5SAC22V1320

Each part number includes:
1. Leaf spring with correct clamping force indicator and pressure pad.
2. Washers
3. Label

PRODUCT SPECIFICATIONS

Leaf spring

Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm)

Indicating spring

Material: EN-AW-6005
Surface treatment: Anodized nature (10µm)

Press piece

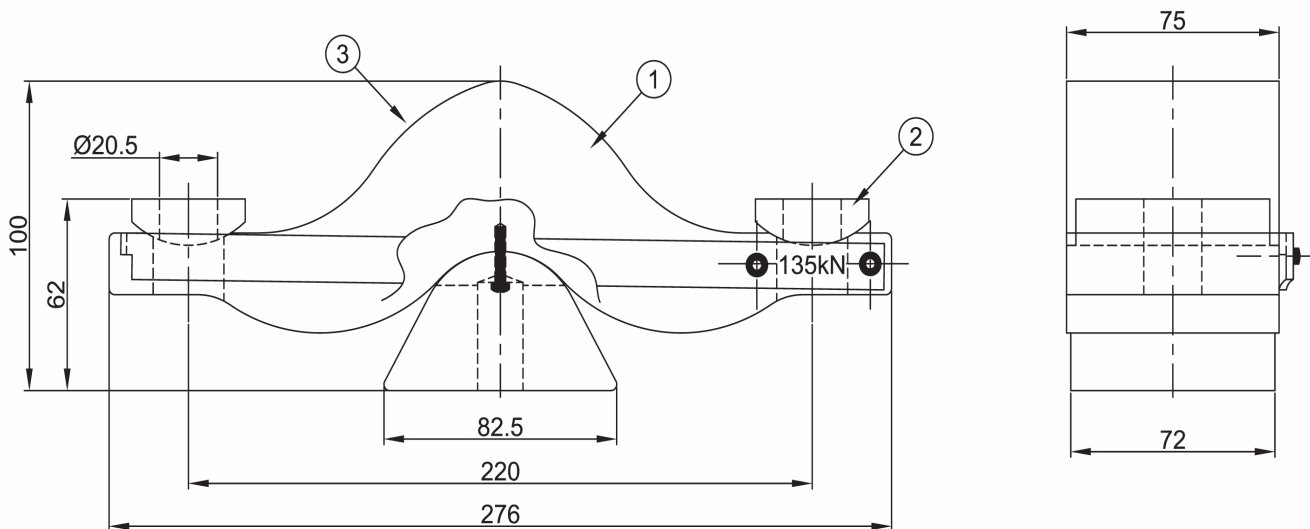
Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm).

Washers

Material: Aluminium EN-AW-6082
Surface treatment: Anodized nature (10µm)

Environmental

IEC60721-3-3 set IE33, Class 3C1
Relative humidity 5 to 85%, no condensation allowed.



Aluminium mounting clamp

5SAC18V: 50, 70 and 90 kN

—
Figure 01
5SAC18V5020
5SAC18V7020
5SAC18V9020

Each part number includes:
Leaf spring with correct clamping force indicator, spring support, washers (M16) item 1 and 2 and label item 3.

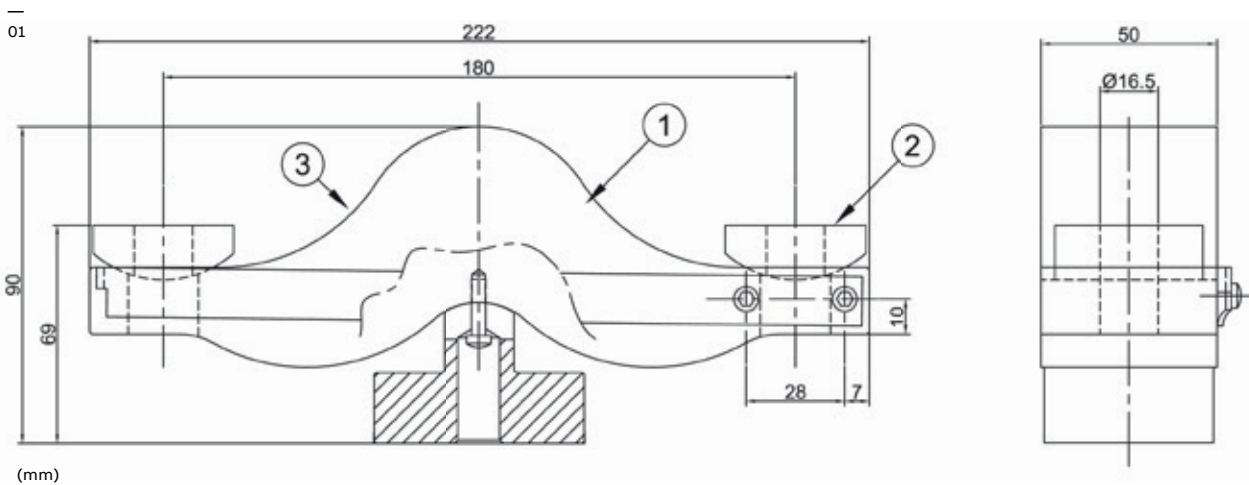
Clamping system for hockey-puck devices with flange diameter 100 to 150 mm, mounting force 50 to 90 kN in alloy EN-AW-6082-T6.

Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 50, 70 and 90 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC18V

| Type and ordering number | Bolt | | Weight | F_m Clamping force | V_c Max. insulation voltage | V_m Voltage for partial discharge | T_m Max. temp for cont. operation | Fig. |
|--------------------------|--------|----------|--------|-------------------------|----------------------------------|--|--|------|
| | Length | Distance | | | | | | |
| | mm | mm | kg | | | | | |
| 5SAC18V5020 | – | 180 | 1.26 | 50 | – | – | 80 | 01 |
| 5SAC18V7020 | – | 180 | 1.26 | 70 | – | – | 80 | 01 |
| 5SAC18V9020 | – | 180 | 1.26 | 90 | – | – | 80 | 01 |
| 5SAC18V5021 | – | 180 | 1.38 | 50 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC18V7021 | – | 180 | 1.38 | 70 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC18V9021 | – | 180 | 1.38 | 90 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC18V5022 | – | 180 | 1.55 | 50 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC18V7022 | – | 180 | 1.55 | 70 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC18V9022 | – | 180 | 1.55 | 90 | 7.0 | > 7.0 | 80 | 03 |



Aluminium mounting clamp

5SAC18V: 50, 70 and 90 kN

Figure 02
5SAC18V5021
5SAC18V7021
5SAC18V9021

Each part number includes:
Leaf spring with correct clamping force indicator, spring support, washers (M16) item 1 and 2 and label item 3.
2. Pressure pad insulator item 4.

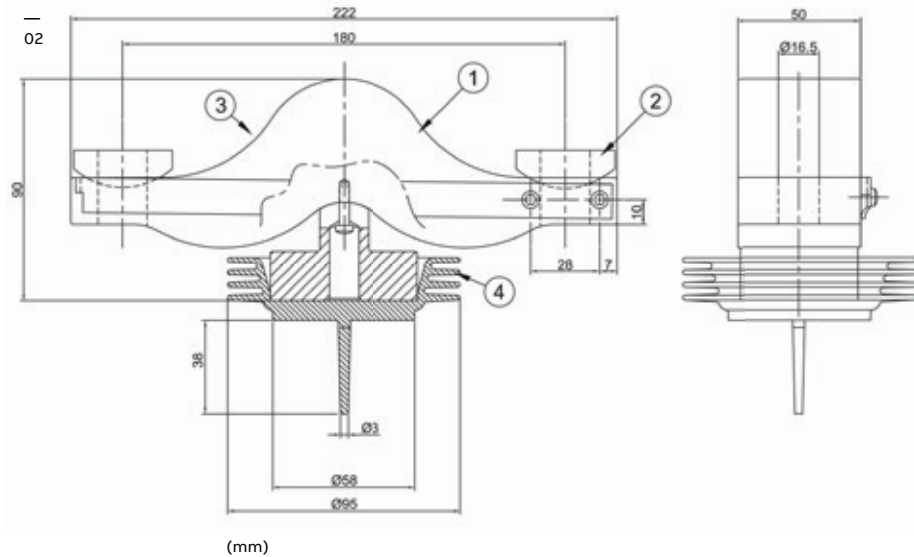
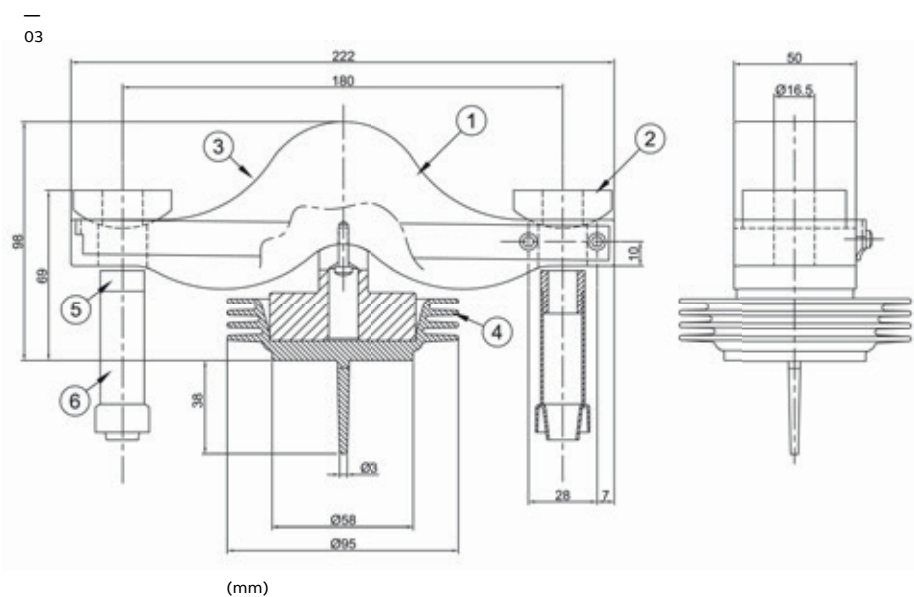


Figure 03
5SAC18V5022
5SAC18V7022
5SAC18V9022

Each part number includes:
Leaf spring with correct clamping force indicator, spring support, washers (M16) item 1 and 2 and label item 3.
2. Pressure pad insulator item 4.
3. Bolt insulators item 5 and 6.



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M12 property class 8.8 (DIN 931) | - |
| Plain washer | Coated or stainless steel | 17 x 45 x 3 | - |

Aluminium mounting clamp

5SAC18V: 20 and 40 kN

—
Figure 01
5SAC18V2011
5SAC18V4011

Each part number includes:
• Leaf spring with correct clamping force indicator.
• Pressure pad.

Clamping system for hockey-puck devices with flange diameter up to 150 mm, mounting force 20 to 40 kN in alloy EN-AW-6882-T6.

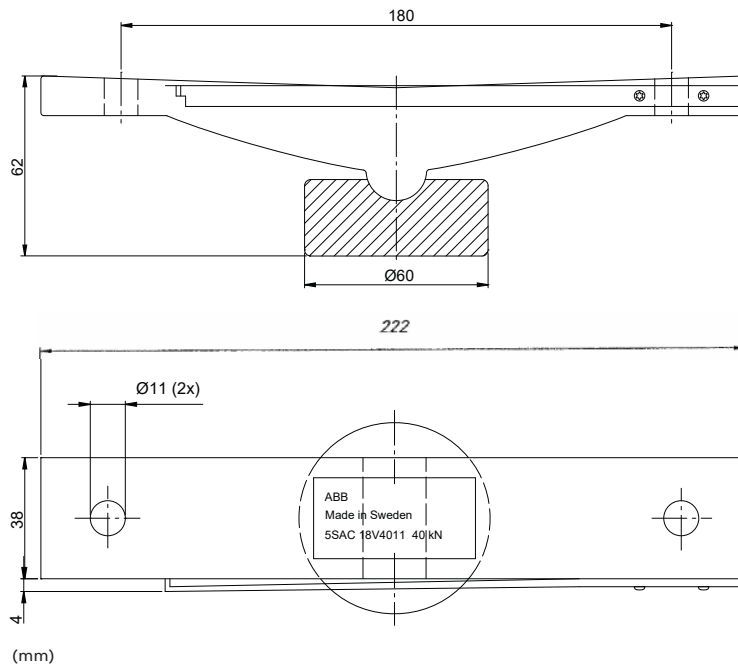
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 20 and 40 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC18V

| Type and ordering number | Bolt | | Weight | F _m Clamping force | V _c Max. insulation voltage | V _m Voltage for partial discharge | T _m Max. temp for cont. operation | Fig. |
|--------------------------|--------|----------|--------|----------------------------------|---|---|---|------|
| | Length | Distance | | | | | | |
| | mm | mm | kg | kN | kV | kV | °C | |
| 5SAC18V2011 | – | 180 | 0.44 | 20 | – | – | 80 | 01 |
| 5SAC18V4011 | – | 180 | 0.44 | 40 | – | – | 80 | 01 |
| Insulators | | | | | | | | |
| 2744010-3 | – | – | 0.11 | – | 7.0 | > 7.0 | 80 | 02 |
| 5FSE704857V1001 | – | – | 0.11 | – | 7.0 | > 7.0 | 80 | 03 |

—
01



Aluminium mounting clamp

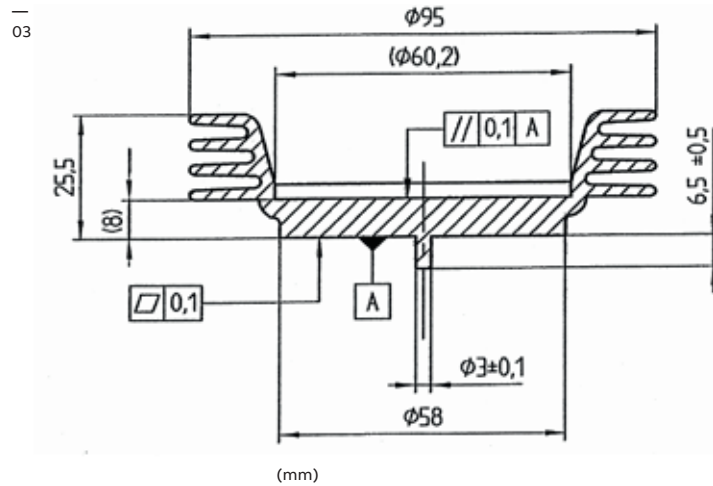
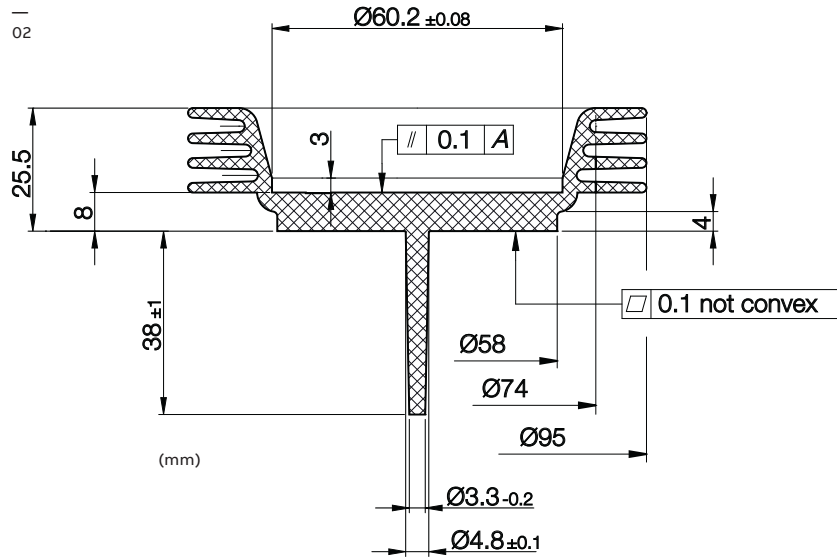
5SAC18V: 20 and 40 kN

Figure 02
2744010-3

Pressure pad insulator

Figure 03
5FSE704857V1001

Pressure pad insulator



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|-----------------|---------------------------|-----------------------------------|----------------------|
| Bolt (11–20 kN) | Coated or stainless steel | M10 property class 8.8 (DIN 931) | - |
| Bolt (40 kN) | Coated or stainless steel | M10 property class 10.9 (DIN 931) | - |
| Plain washer | Coated or stainless steel | 10.5 x 23 x 2 | - |
| Disc washer | Coated or stainless steel | 10.5 x 23 x 2.5 (DIN 6796) | - |

Aluminium mounting clamp

5SAC15V: 20, 22, 33, 40, 50 and 70 kN

—
Figure 01
5SAC15V2010
5SAC15V2210
5SAC15V3310
5SAC15V4010
5SAC15V5010
5SAC15V7010

Each part number includes:
• Leaf spring with correct clamping force indicator.
• Pressure pad

Clamping system for hockey-puck devices with flange diameter up to 120 mm, mounting force 20 to 70 kN.

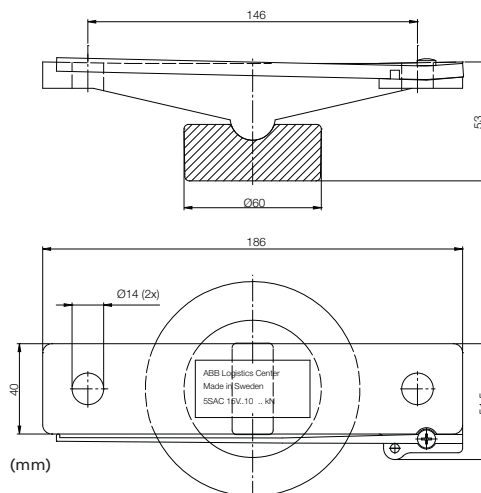
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 20, 22, 33, 40, 50 and 70 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC15V

| Type and ordering number | Bolt | | Weight | F_m Clamping force | V_c Max. insulation voltage | V_m Voltage for partial discharge | T_m Max. temp for cont. operation | Fig. |
|--------------------------|--------|----------|--------|-------------------------|----------------------------------|--|--|------|
| | Length | Distance | | | | | | |
| | mm | mm | kg | kN | kV | kV | °C | |
| 5SAC15V2010 | — | 146 | 0.57 | 20 | — | — | 80 | 01 |
| 5SAC15V2210 | — | 146 | 0.57 | 22 | — | — | 80 | 01 |
| 5SAC15V3310 | — | 146 | 0.57 | 33 | — | — | 80 | 01 |
| 5SAC15V4010 | — | 146 | 0.57 | 40 | — | — | 80 | 01 |
| 5SAC15V5010 | — | 146 | 0.57 | 50 | — | — | 80 | 01 |
| 5SAC15V7010 | — | 146 | 0.57 | 70 | — | — | 80 | 01 |
| 5SAC15V2001 | — | 146 | 0.69 | 20 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V2201 | — | 146 | 0.69 | 22 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V3301 | — | 146 | 0.69 | 33 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V4001 | — | 146 | 0.69 | 40 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V5001 | — | 146 | 0.69 | 50 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V7001 | — | 146 | 0.69 | 70 | 7.0 | > 7.0 | 80 | 02 |
| 5SAC15V2002 | — | 146 | 0.81 | 20 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC15V2202 | — | 146 | 0.81 | 22 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC15V3302 | — | 146 | 0.81 | 33 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC15V4002 | — | 146 | 0.81 | 40 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC15V5002 | — | 146 | 0.81 | 50 | 7.0 | > 7.0 | 80 | 03 |
| 5SAC15V7002 | — | 146 | 0.81 | 70 | 7.0 | > 7.0 | 80 | 03 |

—
01



Aluminium mounting clamp

5SAC15V: 20, 22, 33, 40, 50 and 70 kN

Figure 02
 5SAC15V2001
 5SAC15V2201
 5SAC15V3301
 5SAC15V4001
 5SAC15V5001
 5SAC15V7001

Each part number includes:
 • Leaf spring with correct clamping force indicator.
 • Pressure pad
 • Pressure pad insulator

02

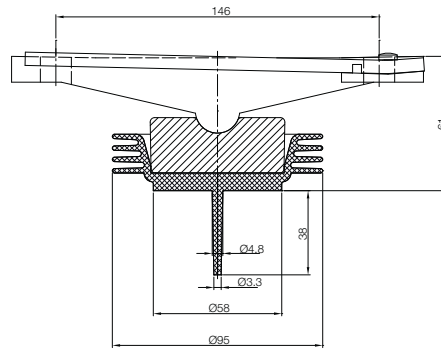
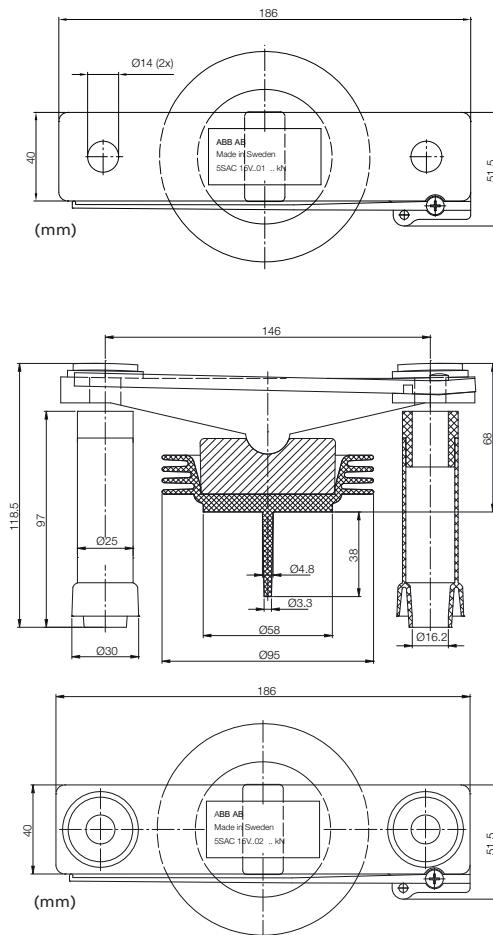


Figure 03
 5SAC15V2002
 5SAC15V2202
 5SAC15V3302
 5SAC15V4002
 5SAC15V5002
 5SAC15V7002

Each part number includes:
 • Leaf spring with correct clamping force indicator.
 • Pressure pad
 • Pressure pad insulator
 • Bolt insulators
 • Plain washers
 • Disc washers

03



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M12 property class 8.8 (DIN 931) | - |
| Plain washer | Coated or stainless steel | 13 x 34 x 3 | Fig. 03 |
| Disc washer | Coated or stainless steel | 13 x 29 x 3 (DIN 6796) | Fig. 03 |

Aluminium mounting clamp

5SAC14V33: 33 kN

—
Figure 01
5SAC14V3310

Each part number includes:
• Leaf spring with correct clamping force indicator and pressure pad.

Clamping system for hockey-puck devices with flange diameter up to 110 mm, mounting force 33 kN.

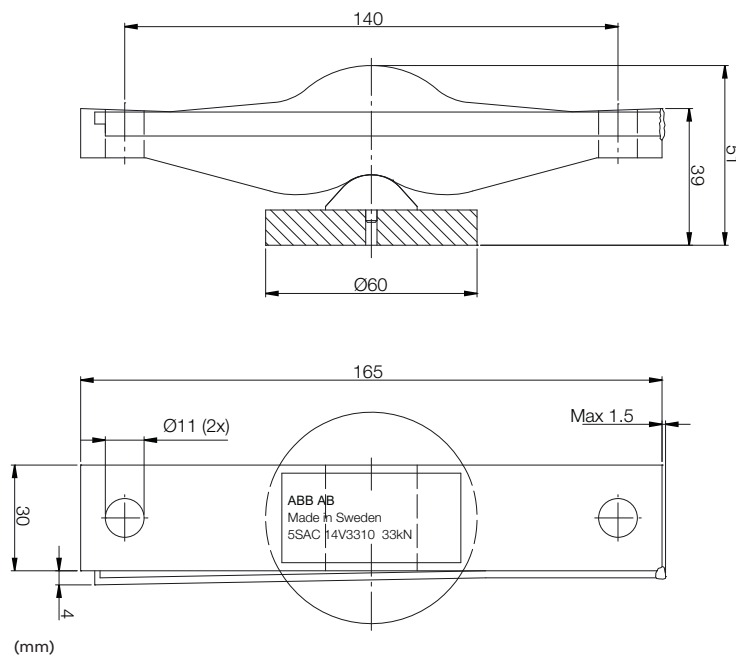
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 33 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC14V33

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC14V3310 | – | 140 | 0.53 | 33 | – | – | 80 | 01 |
| 5SAC14V3300 | – | 140 | 0.63 | 33 | – | – | 80 | 02 |
| 5SAC14V3301 | 140 | 140 | 0.85 | 33 | 4.8 | > 4.8 | 80 | 03 |

—
01



Aluminium mounting clamp

5SAC14V33: 33 kN

Figure 02
5SAC14V3300

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator

02

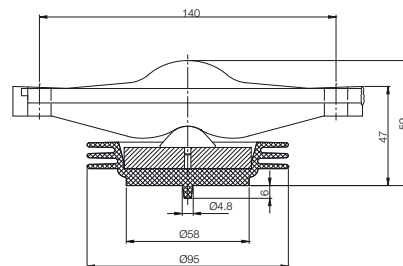
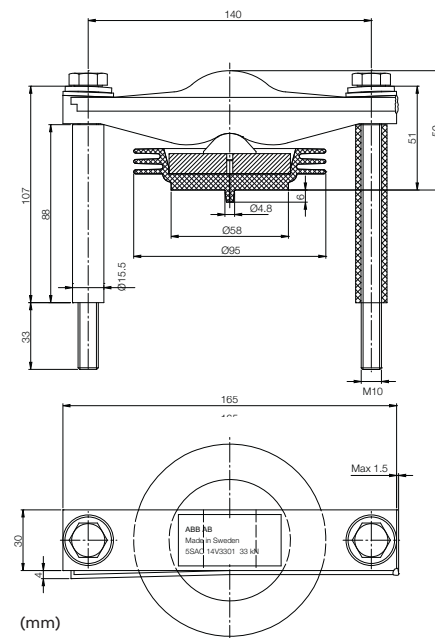
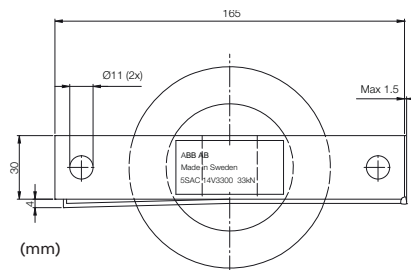


Figure 03
5SAC14V3301

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator
- Bolts (M10x140)
- Bolt insulators
- Plain washers
- Disc washers

03



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M10 property class 8.8 (DIN 931) | Fig. 03 |
| Plain washer | Coated or stainless steel | 10.5 x 25 x 2 | Fig. 03 |
| Disc washer | Coated or stainless steel | 10.5 x 23 x 2.5 (DIN 6796) | Fig. 03 |

Aluminium mounting clamp

5SAC14V20: 20 kN

Figure 01
5SAC14V2010

Each part number includes:
• Leaf spring with correct clamping force indicator and pressure pad.

Clamping system for hockey-puck devices with flange diameter up to 110 mm, mounting force 20 kN.

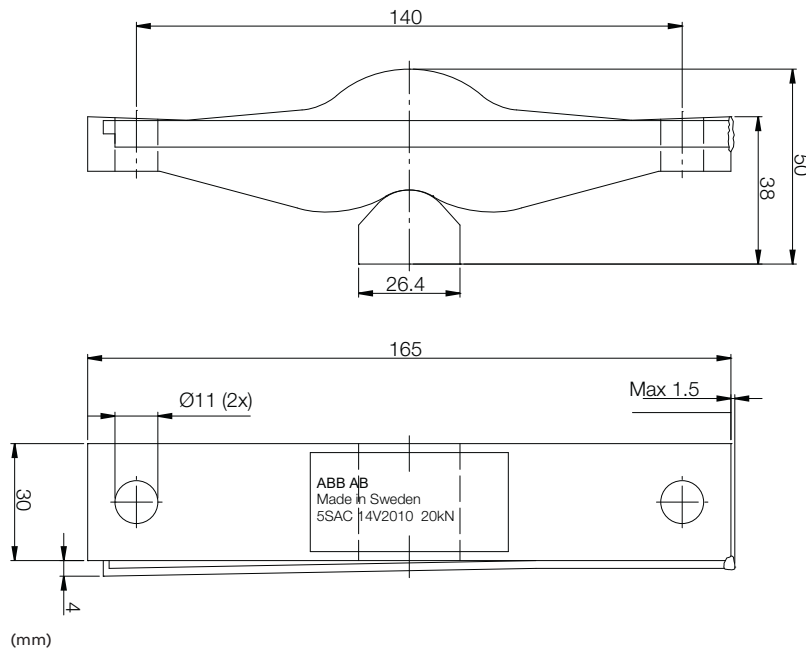
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 20 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC14V20

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC14V2010 | – | 140 | 0.34 | 20 | – | – | 80 | 01 |
| 5SAC14V2000 | – | 140 | 0.38 | 20 | – | – | 80 | 02 |
| 5SAC14V2001 | 140 | 140 | 0.60 | 20 | 4.8 | > 4.8 | 80 | 03 |

01



Aluminium mounting clamp

5SAC14V20: 20 kN

Figure 02
5SAC14V2000

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator

02

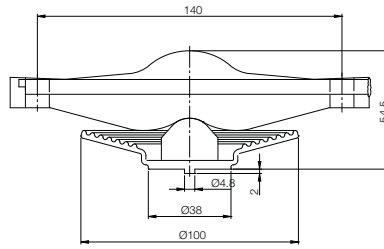
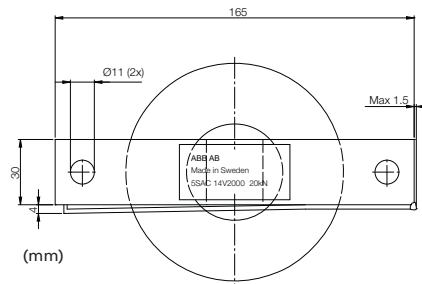


Figure 03
5SAC14V2001

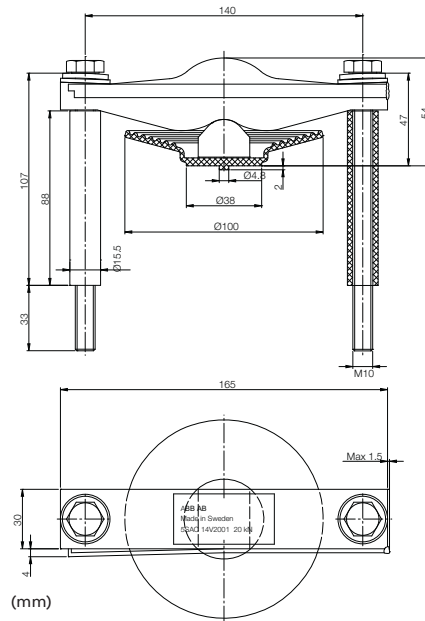
Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator
- Bolts (M10x140)
- Bolt insulators
- Plain washers
- Disc washers

03



(mm)



(mm)

Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M10 property class 8.8 (DIN 931) | Fig. 03 |
| Plain washer | Coated or stainless steel | 10.5 x 25 x 2 | Fig. 03 |
| Disc washer | Coated or stainless steel | 10.5 x 23 x 2.5 (DIN 6796) | Fig. 03 |

Aluminium mounting clamp

5SAC14V10: 10 kN

—
Figure 01
5SAC 14V1010

Each part number includes:
• Leaf spring with correct clamping force indicator and pressure pad.

Clamping system for hockey-puck devices with flange diameter up to 110 mm, mounting force 10 kN.

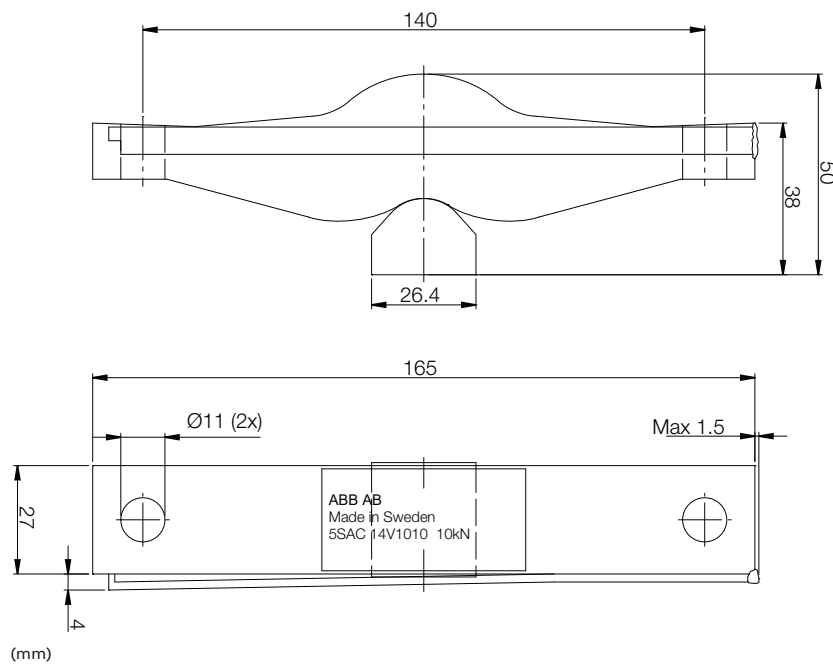
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 10 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC14V10

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC 14V1010 | – | 140 | 0.31 | 10 | – | – | 80 | 01 |
| 5SAC 14V1000 | – | 140 | 0.35 | 10 | – | – | 80 | 02 |
| 5SAC 14V1001 | 140 | 140 | 0.57 | 10 | 4.8 | > 4.8 | 80 | 03 |

—
01



Aluminium mounting clamp

5SAC14V10: 10 kN

Figure 02
5SAC 14V1000

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator

02

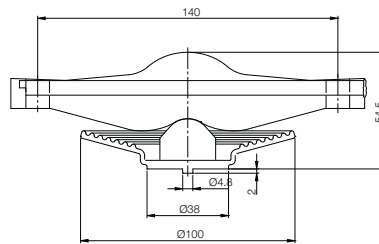
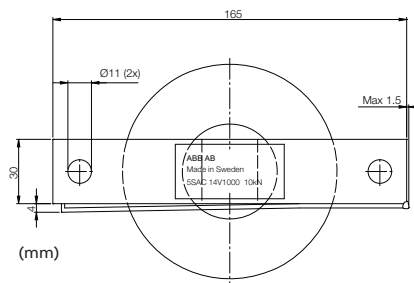


Figure 03
5SAC 14V1001

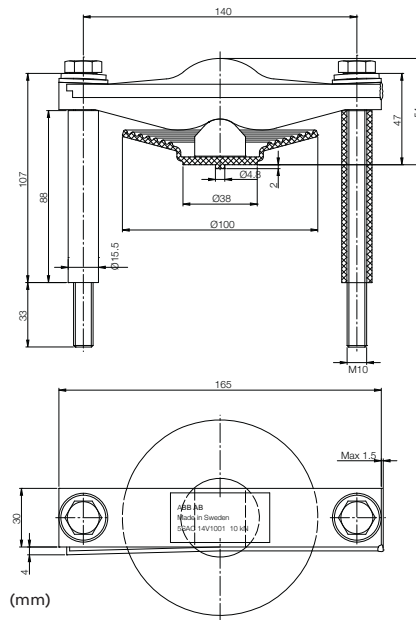
Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator
- Bolts (M10x140)
- Bolt insulators
- Plain washers
- Disc washers

03



(mm)



(mm)

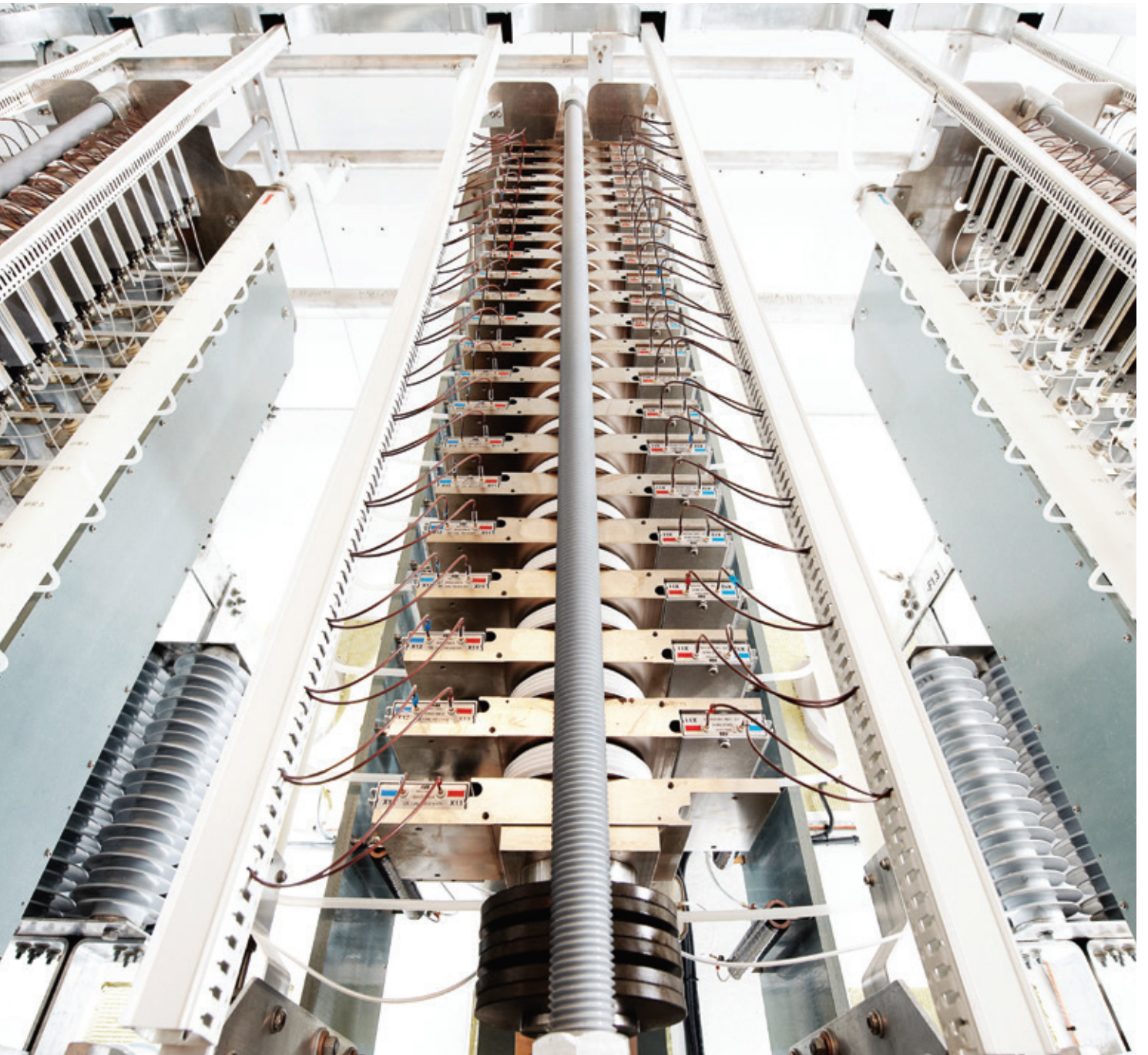
Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M10 property class 8.8 (DIN 931) | Fig. 03 |
| Plain washer | Coated or stainless steel | 10.5 x 25 x 2 | Fig. 03 |
| Disc washer | Coated or stainless steel | 10.5 x 23 x 2.5 (DIN 6796) | Fig. 03 |



Steel mounting clamp

5SAC13V5000: 40 and 50 kN

—
Figure 01
5SAC13V5000

- Each part number includes:
- Leaf spring
 - Correct clamping force indicator
 - Reaction bar
 - Insulator
 - Bolts (M10x140)
 - Spring washers

Clamping system for hockey-puck devices with flange diameter 100 to 120 mm, mounting force 40 and 50 kN.

Designed for the ABB Air Cooled Heat sink 5SAA21V3500 (YAP8-03).

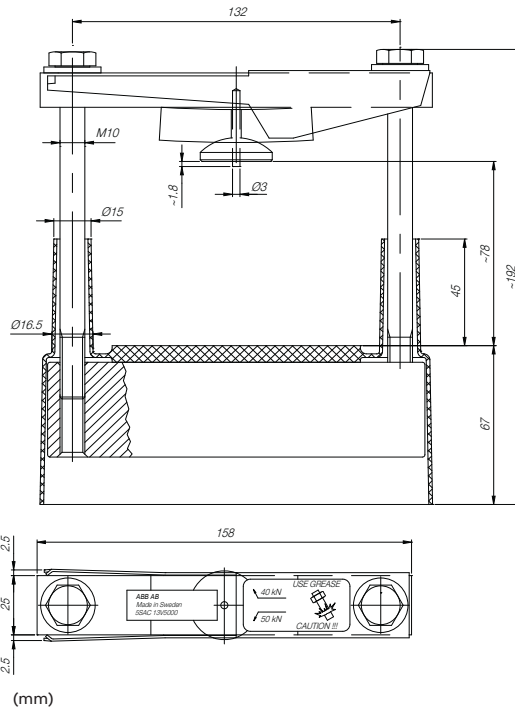
Features

- Corrosion resistant
- Clamping force 40 and 50 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC13V5000

| Type and ordering number | Bolt | | Weight | F _m Clamping force | V _c Max. insulation voltage | V _m Voltage for partial discharge | T _m Max. temp for cont. operation | Fig. |
|--------------------------|--------|----------|--------|----------------------------------|---|---|---|------|
| | Length | Distance | | | | | | |
| | mm | mm | kg | kN | kV | kV | °C | |
| 5SAC13V5000 | — | 132 | 1.8 | 40, 50 | 5.4 | > 5.4 | 125 | 01 |

—
01



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|---------------|---------------------------|-----------------------------------|----------------------|
| Bolt | Coated or stainless steel | M10 property class 10.9 (DIN 931) | Fig. 01 |
| Spring washer | Coated or stainless steel | 17 x 45 x 3 | Fig. 01 |

Aluminium mounting clamp

5SAC10V22: 22 kN

—
Figure 01
5SAC10V2210

Each part number includes:
• Leaf spring with correct clamping force indicator.
• Pressure pad

Clamping system for hockey-puck devices with flange diameter up to 75 mm, mounting force 22 kN.

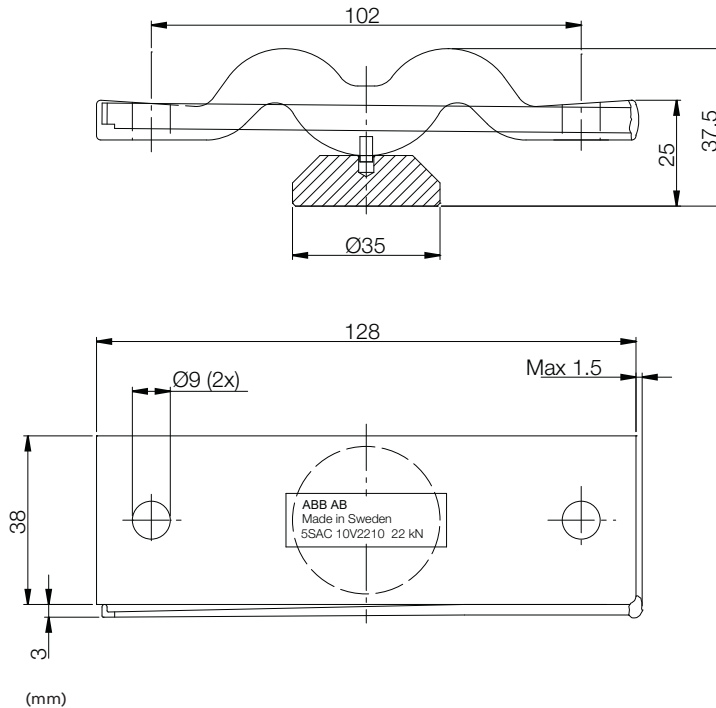
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 22 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC10V22

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC10V2210 | — | 102 | 0.20 | 22 | — | — | 80 | 01 |
| 5SAC10V2200 | — | 102 | 0.21 | 22 | 4.8 | > 4.8 | 80 | 02 |
| 5SAC10V2201 | — | 102 | 0.32 | 22 | 4.8 | > 4.8 | 80 | 03 |

—
01



Aluminium mounting clamp

5SAC10V22: 22 kN

Figure 02
5SAC10V2200

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator

02

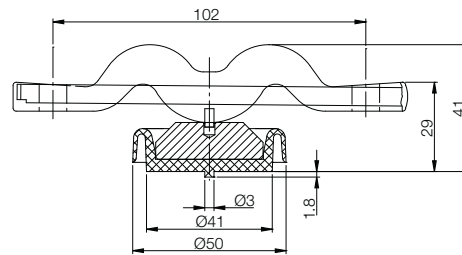
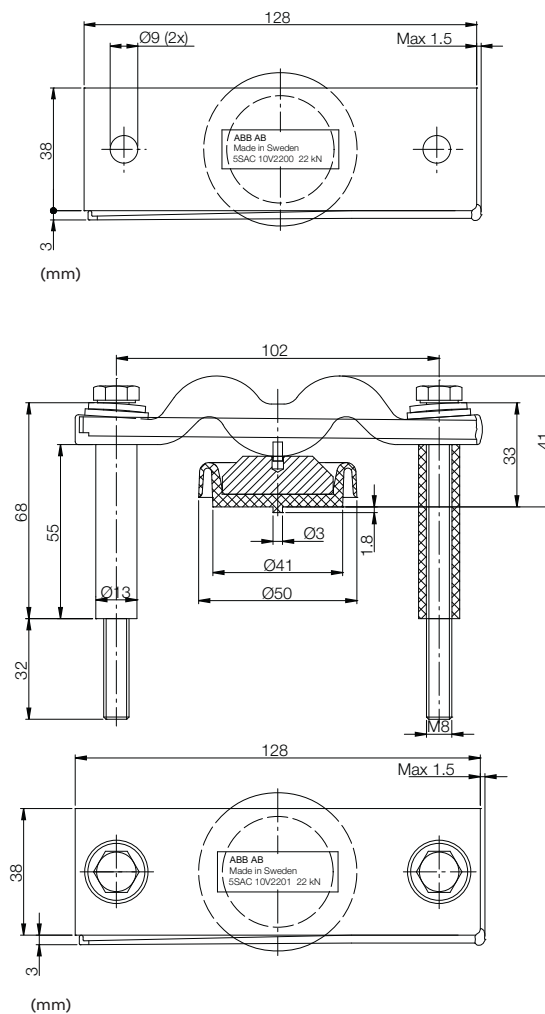


Figure 03
5SAC10V2201

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator
- Bolts (M8x100)
- Bolt insulators
- Plain washers
- Disc washers

03



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|---------------------------------|----------------------|
| Bolt | Coated or stainless steel | M8 property class 8.8 (DIN 931) | Fig. 03 |
| Plain washer | Coated or stainless steel | 8.4 x 20 x 2 | Fig. 03 |
| Disc washer | Coated or stainless steel | 8.4 x 18 x 2 (DIN 6796) | Fig. 03 |

Aluminium mounting clamp

5SAC10V10: 10 kN

—
Figure 01
5SAC10V10

Each part number includes:
• Leaf spring with correct clamping force indicator and pressure pad.
• Pressure pad

Clamping system for hockey-puck devices with flange diameter up to 75 mm, mounting force 10 kN.

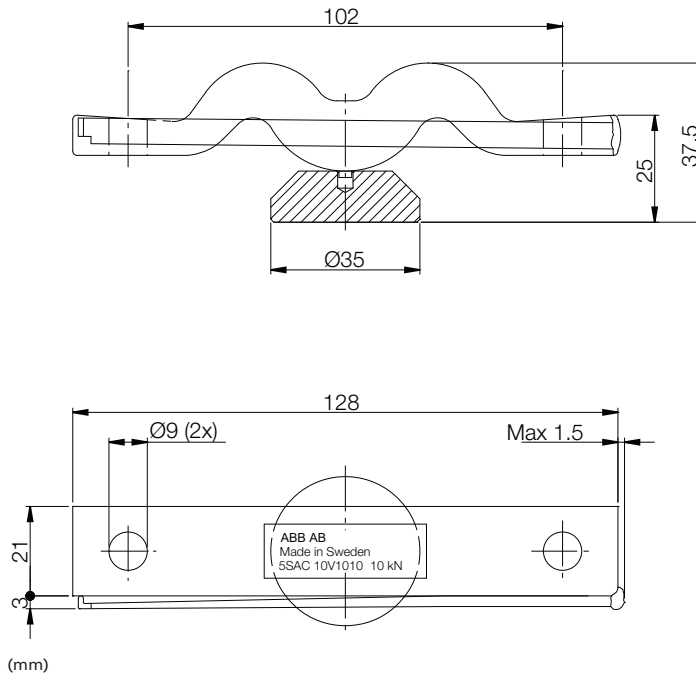
Features

- Not sensitive to magnetic fields
- Low weight
- High alloy content makes clamp exceptionally strong
- Clamping force 10 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC10V10

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC10V1010 | – | 102 | 0.12 | 10 | – | – | 80 | 01 |
| 5SAC10V1000 | – | 102 | 0.13 | 10 | 4.8 | > 4.8 | 80 | 02 |
| 5SAC10V1001 | 100 | 102 | 0.24 | 10 | 4.8 | > 4.8 | 80 | 03 |

—
01



Aluminium mounting clamp

5SAC10V10: 10 kN

Figure 02
5SAC10V1000

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator

02

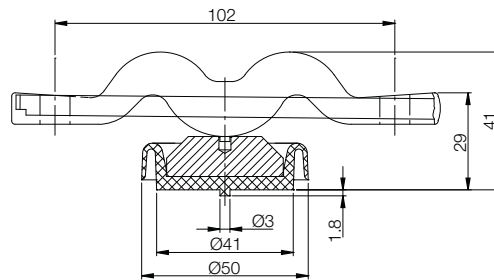
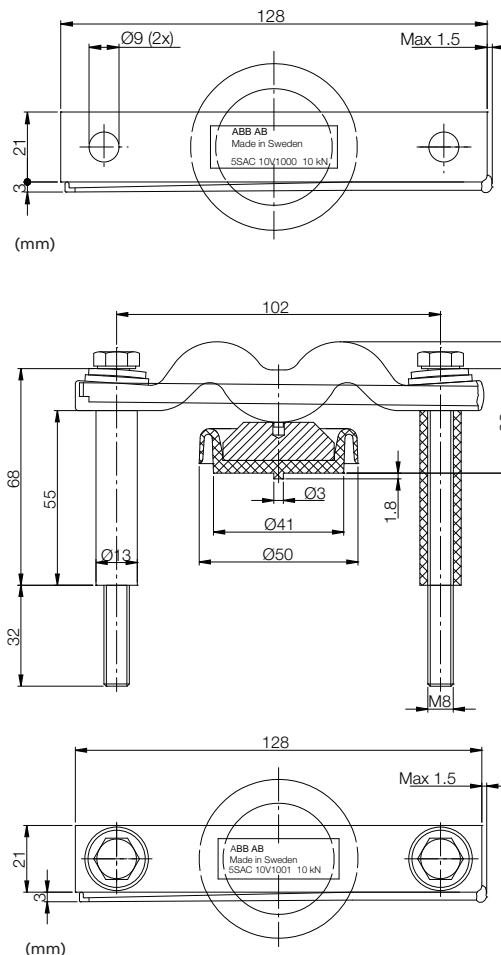


Figure 03
5SAC10V1001

Each part number includes:

- Leaf spring with correct clamping force indicator and pressure pad.
- Pressure pad insulator
- Bolts (M8x100)
- Bolt insulators
- Plain washers
- Disc washers

03



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|---------------------------------|----------------------|
| Bolt | Coated or stainless steel | M8 property class 8.8 (DIN 931) | Fig. 03 |
| Plain washer | Coated or stainless steel | 8.4 x 20 x 2 | Fig. 03 |
| Disc washer | Coated or stainless steel | 8.4 x 18 x 2 (DIN 6796) | Fig. 03 |

Steel mounting clamp

5SAC10V16: 4, 8, 12 and 16 kN

—
Figure 01
5SAC10V1610

Each part number includes:
• Leaf spring
• Correct clamping force indicator

Clamping system for hockey-puck devices with flange diameter up to 75 mm, mounting force 4 to 16 kN.

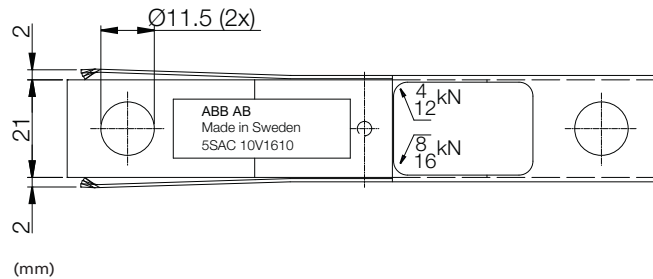
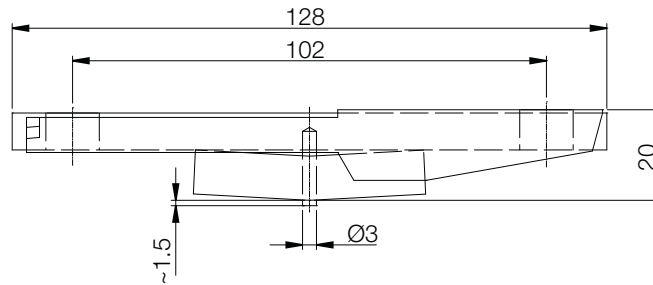
Features

- Corrosion resistant
- Clamping force 4, 8, 12 and 16 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC10V16

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC10V1610 | — | 102 | 0.09 | 4, 8, 12, 16 | — | — | 80 | 01 |
| 5SAC10V1600 | 110 | 102 | 0.40 | 4, 8, 12, 16 | 6.5 | > 6.5 | 80 | 02 |
| 5SAC10V1601 | 120 | 102 | 0.40 | 4, 8, 12, 16 | 6.5 | > 6.5 | 80 | 02 |

—
01



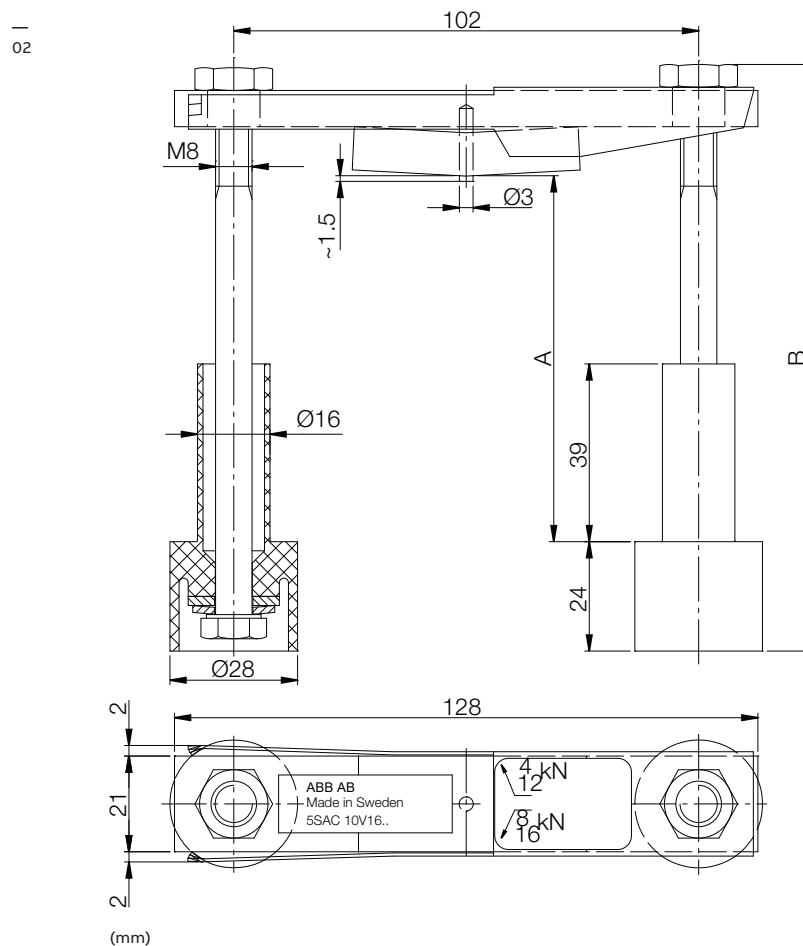
Steel mounting clamp

5SAC10V16: 4, 8, 12 and 16 kN

Figure 02
5SAC10V1600
5SAC10V1601

Each part number includes:

- Leaf spring
- Correct clamping force indicator
- Bolts and nuts
- Bolt insulators
- Plain washers
- Disc washers



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|--------------|---------------------------|---------------------------------|----------------------|
| Bolt | Coated or stainless steel | M8 property class 8.8 (DIN 931) | Fig. 02 |
| Plain washer | Coated or stainless steel | 8.4 x 20 x 2 | Fig. 02 |
| Disc washer | Coated or stainless steel | 8.4 x 18 x 2 (DIN 6796) | Fig. 02 |

Steel mounting clamp

5SAC09V12: 12 kN

Figure 01
5SAC09V1210

Each part number includes:
• Leaf spring with correct clamping force indicator.

Clamping system for hockey-puck devices with flange diameter up to 60 mm, mounting force 12 kN.

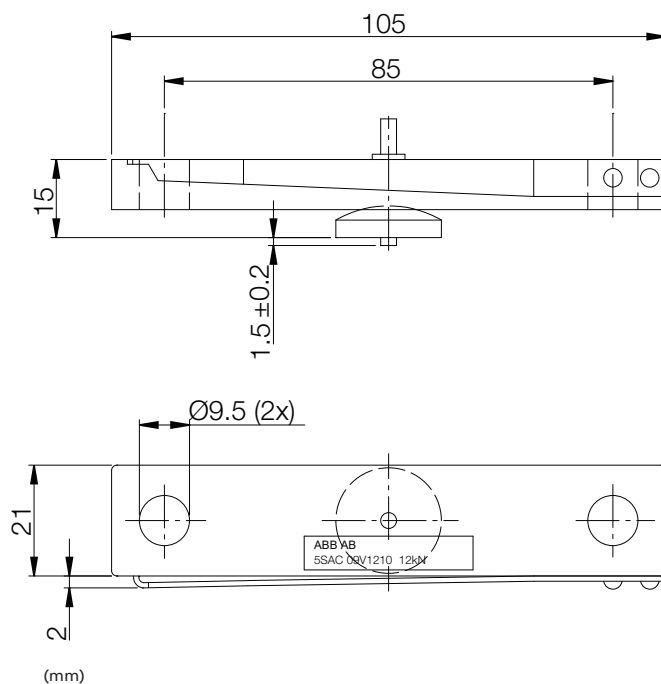
Features

- Corrosion resistant
- Clamping force 12 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC09V12

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC09V1210 | - | 85 | 0.15 | 12 | - | - | 125 | 01 |
| 5SAC09V1200 | - | 85 | 0.16 | 12 | 4.8 | > 4.8 | 125 | 02 |
| 5SAC09V1201 | 100 | 85 | 0.29 | 12 | 4.8 | > 4.8 | 125 | 03 |

Figure 01



Steel mounting clamp

5SAC09V12: 12 kN

Figure 02
5SAC09V1200

- Each part number includes:
- Leaf spring with correct clamping force indicator.
 - Pressure pad
 - Pressure pad insulator

02

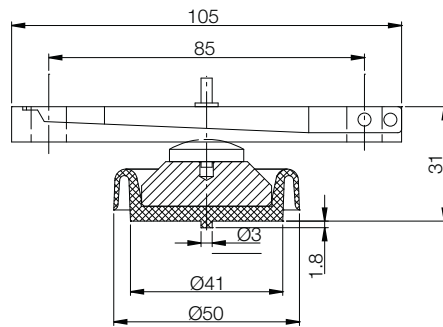
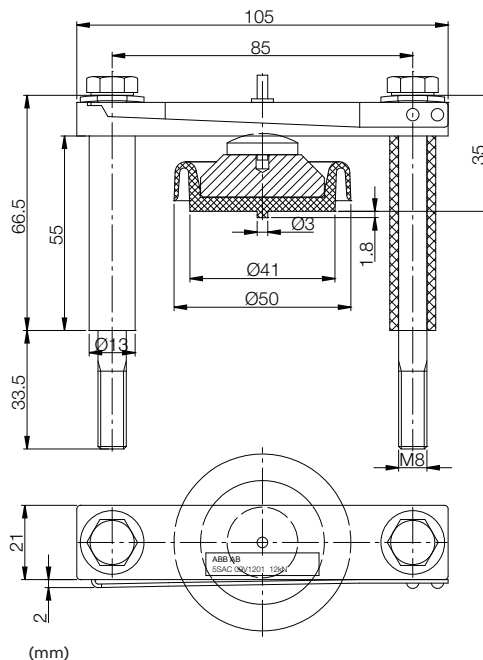
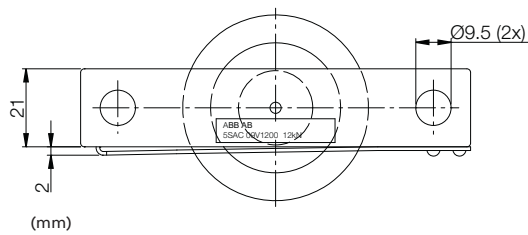


Figure 03
5SAC09V1201

- Each part number includes:
- Leaf spring with correct clamping force indicator.
 - Pressure pad
 - Pressure pad insulator
 - Bolts (M8x100)
 - Bolt insulators
 - Disc washers

03



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|-------------|---------------------------|---------------------------------|----------------------|
| Bolt | Coated or stainless steel | M8 property class 8.8 (DIN 931) | Fig. 03 |
| Disc washer | Coated or stainless steel | 8.4 x 18 x 2 (DIN 6796) | Fig. 03 |

Steel mounting clamp

5SAC07V08: 8 kN

Figure 01
5SAC07V0810

Each part number includes:
 • Leaf spring with correct clamping force indicator.
 • Washers

Clamping system for hockey-puck devices with flange diameter up to 60 mm, mounting force 8 kN.

Features

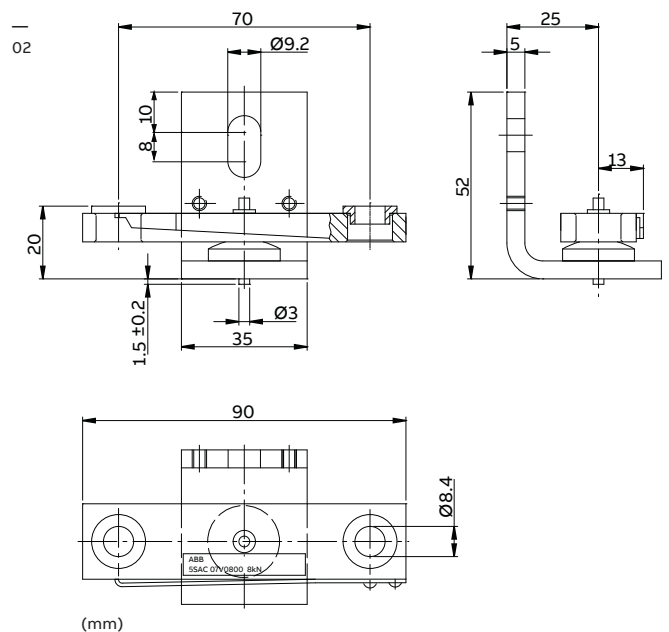
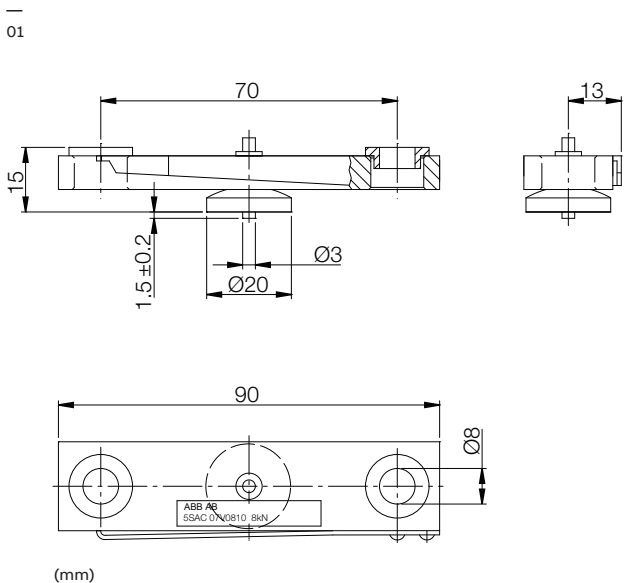
- Corrosion resistant
- Clamping force 8 kN (-10%, +20%)
- ABB's correct clamping force indicator

Figure 02
5SAC07V0800

Each part number includes:
 • Leaf spring with correct clamping force indicator.
 • Pressure pad

5SAC09V12

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC07V0810 | - | 70 | 0.13 | 8 | - | - | 125 | 01 |
| 5SAC07V0800 | - | 70 | 0.27 | 8 | - | - | 125 | 02 |
| 5SAC07V0802 | 100 | 70 | 0.26 | 8 | 2.8 | > 2.8 | 110 | 03 |
| 5SAC07V0803 | 70 | 70 | 0.36 | 8 | 2.8 | > 2.8 | 110 | 04 |



Steel mounting clamp

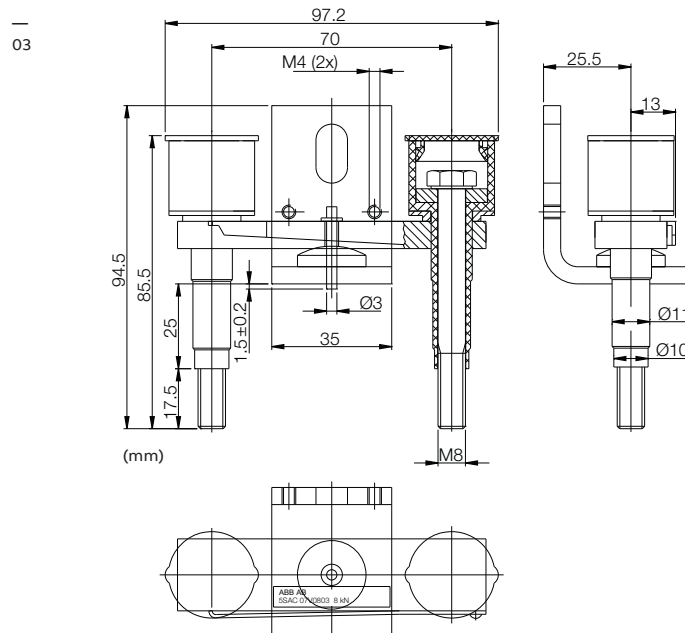
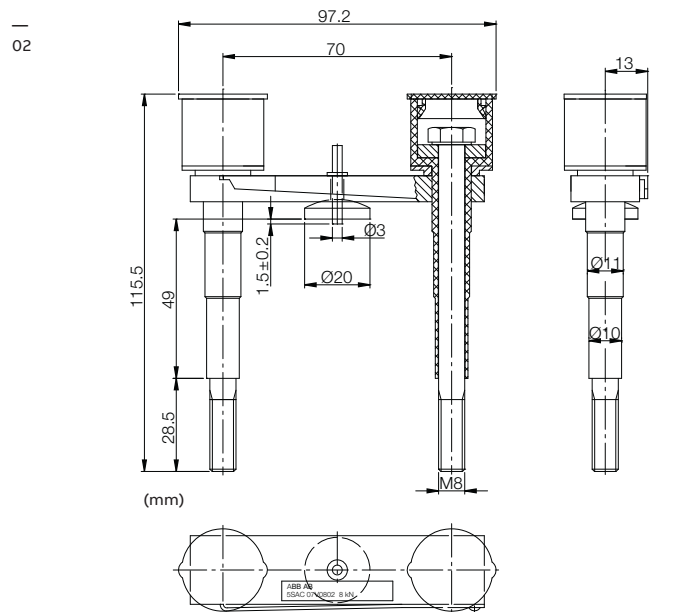
5SAC07V08: 8 kN

Figure 03
5SAC07V0802

- Each part number includes:
- Leaf spring with correct clamping force indicator.
 - Bolts (M8x100)
 - Bolt insulators
 - Washers

Figure 04
5SAC07V0803

- Each part number includes:
- Leaf spring with correct clamping force indicator.
 - Pressure pad
 - Pressure pad insulator
 - Bolts (M8x70)
 - Bolt insulators
 - Washers



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

Recommendations for piece parts

| Piece part | Material | Dimensions mm | Included in products |
|------------|---------------------------|---------------------------------|----------------------|
| Bolt | Coated or stainless steel | M8 property class 8.8 (DIN 931) | Fig. 03 and 04 |

Steel mounting clamp

5SAC05V: 4 and 8 kN

—
Figure 01
5SAC05V0403

Each part number includes:
• Leaf spring with correct clamping force indicator and pressure pad.
• Bolts (M6x45)
• Bolt insulators
• Washers

Clamping system for hockey-puck devices with flange diameter up to 42 mm, mounting force 4 and 8 kN.

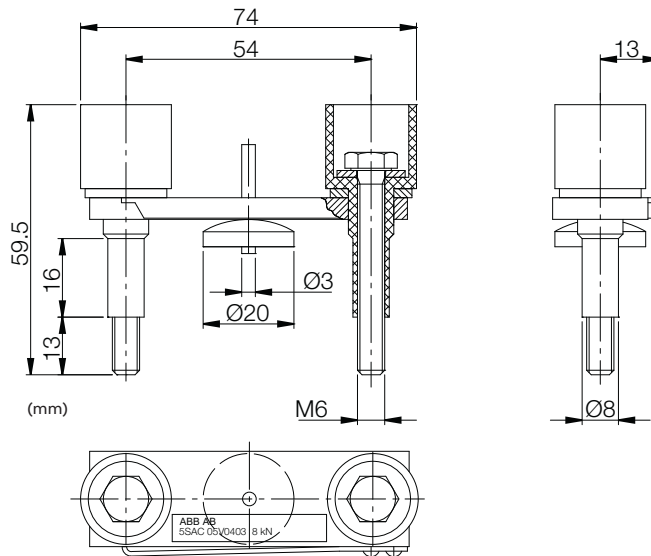
Features

- Corrosion resistant
- Clamping force 4 and 8 kN (-10%, +20%)
- ABB's correct clamping force indicator

5SAC05V

| Type and ordering number | Bolt | | Weight kg | F _m Clamping force kN | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|--------------|----------------|--------------|--|---|---|---|------|
| | Length mm | Distance mm | | | | | | |
| 5SAC05V0403 | 45 | 54 | 0.11 | 4 | 2.2 | > 2.2 | 110 | 01 |
| 5SAC0508V0001 | — | 54 | 0.20 | 8 | 2.2 | > 2.2 | 110 | 02 |
| 5SAC0508V0002 | — | 54 | 0.20 | 8 | 2.2 | > 2.3 | 110 | 03 |

—
01



Steel mounting clamp

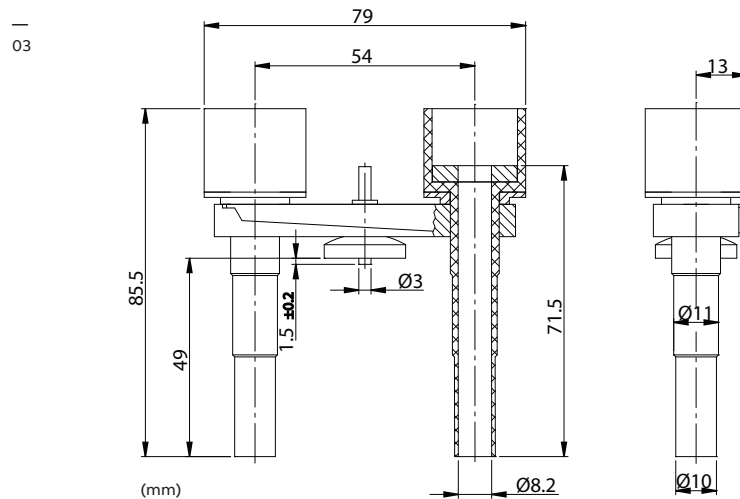
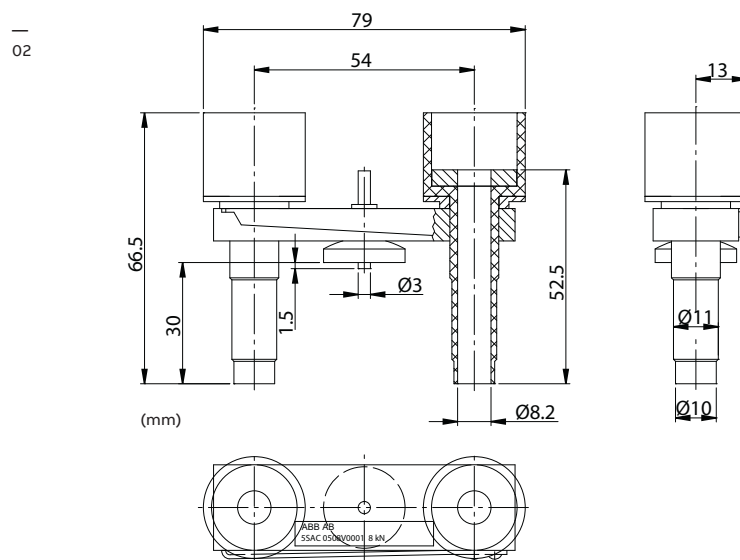
5SAC05V: 4 and 8 kN

Figure 02
5SAC0508V0001

Each part number includes:
 • Leaf spring with correct clamping force indicator.
 • Bolt insulators

Figure 03
5SAC0508V0002

Each part number includes:
 • Leaf spring with correct clamping force indicator and pressure pad.
 • Bolt insulators



Environmental

IEC60721-3-3 set IE33, Class 3C1.

Relative humidity 5 to 85%, no condensation allowed.

| Recommendations for piece parts | | | |
|---------------------------------|---------------------------|---------------------------------|----------------------|
| Piece part | Material | Dimensions mm | Included in products |
| Bolt | Coated or stainless steel | M6 property class 8.8 (DIN 931) | Fig. 01 |

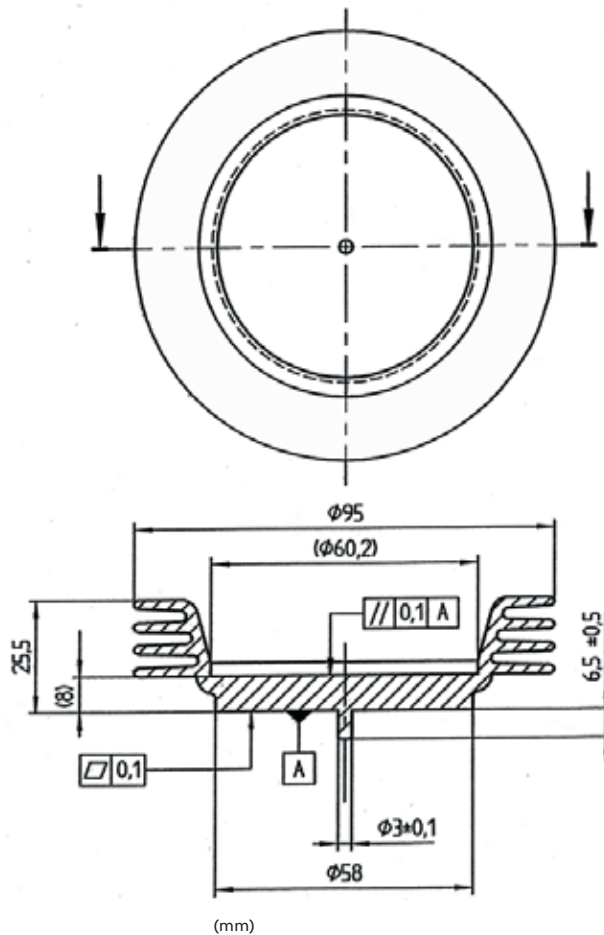
Pressure pad insulator

5FSE704857V1001

5FSE704857V1001

| Type and ordering number | Material | V _c Max. insulation voltage kV | V _m Voltage for partial discharge kV | T _m Max. temp for cont. operation °C | Fig. |
|--------------------------|-------------------|---|---|---|------|
| 5FSE704857V1001 | Ultrason E2010 G6 | 7.0 | 7.0 | 80 | 01 |

Figure 01
5FSE704857V1001



Aluminium reaction bar

5FSE704857-805: 290 mm

PRODUCT SPECIFICATIONS

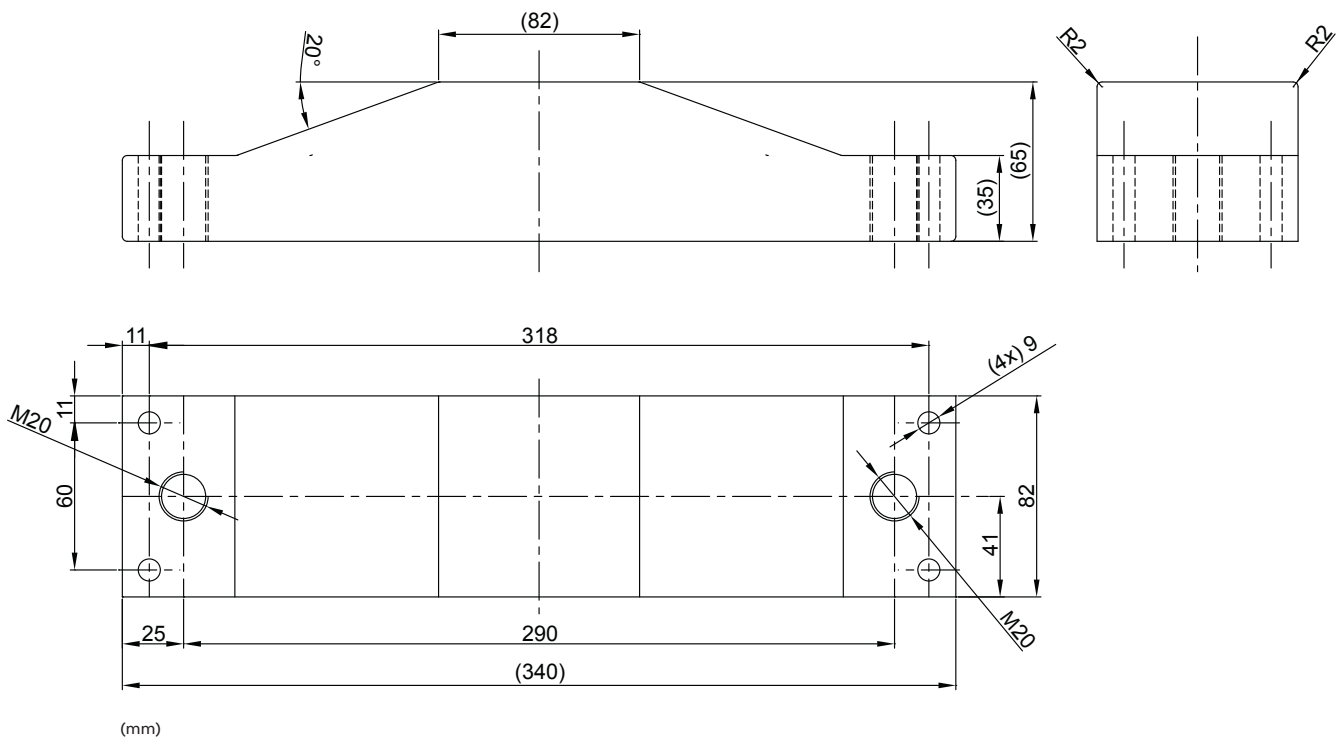
Designed for stack assemblies

Material: Aluminium alloy EN-AW-6082 T6

Surface treatment: Anodized nature (10µm)

Features

- Not sensitive to magnetic fields
- Low weight



Aluminium reaction bar

5FSE704857-804: 220 mm

PRODUCT SPECIFICATIONS

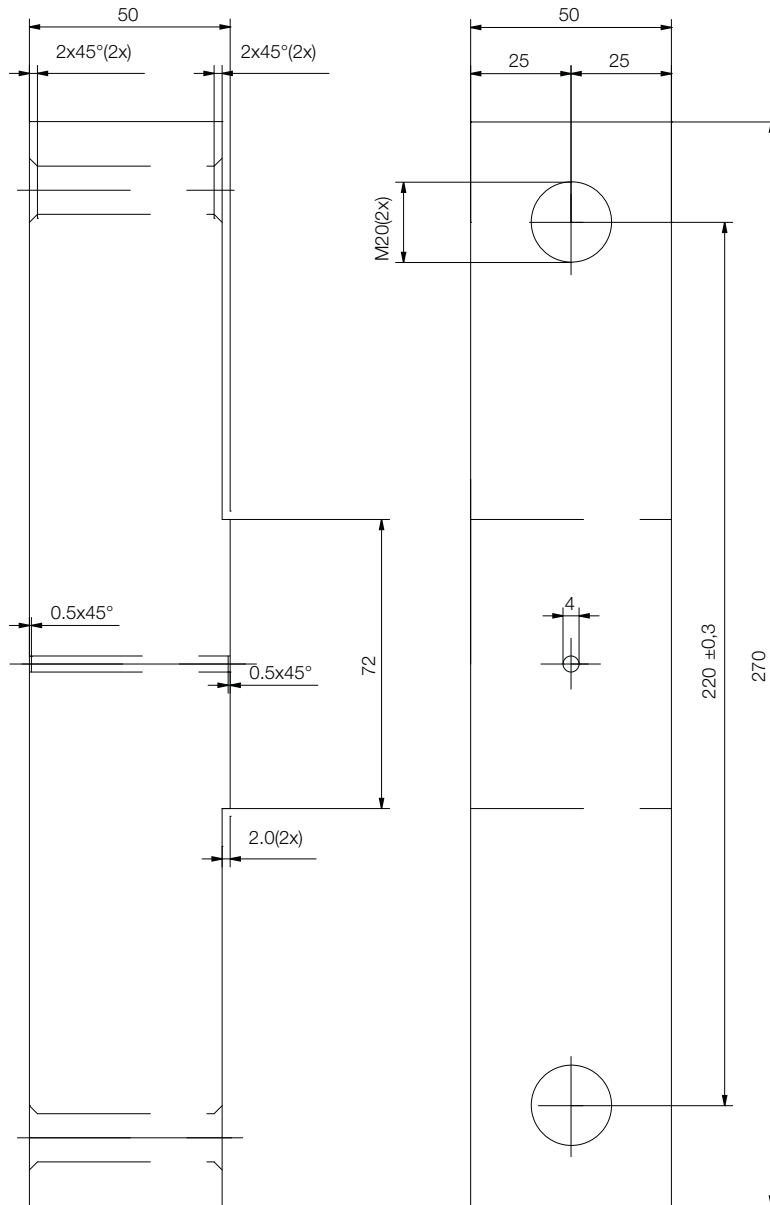
Designed for stack assemblies

Material: Aluminium alloy EN-AW-6082 T6

Surface treatment: Anodized nature (10µm)

Features

- Not sensitive to magnetic fields
- Low weight



(mm)

Aluminium reaction bar

5FSE704857-801: 180 mm

PRODUCT SPECIFICATIONS

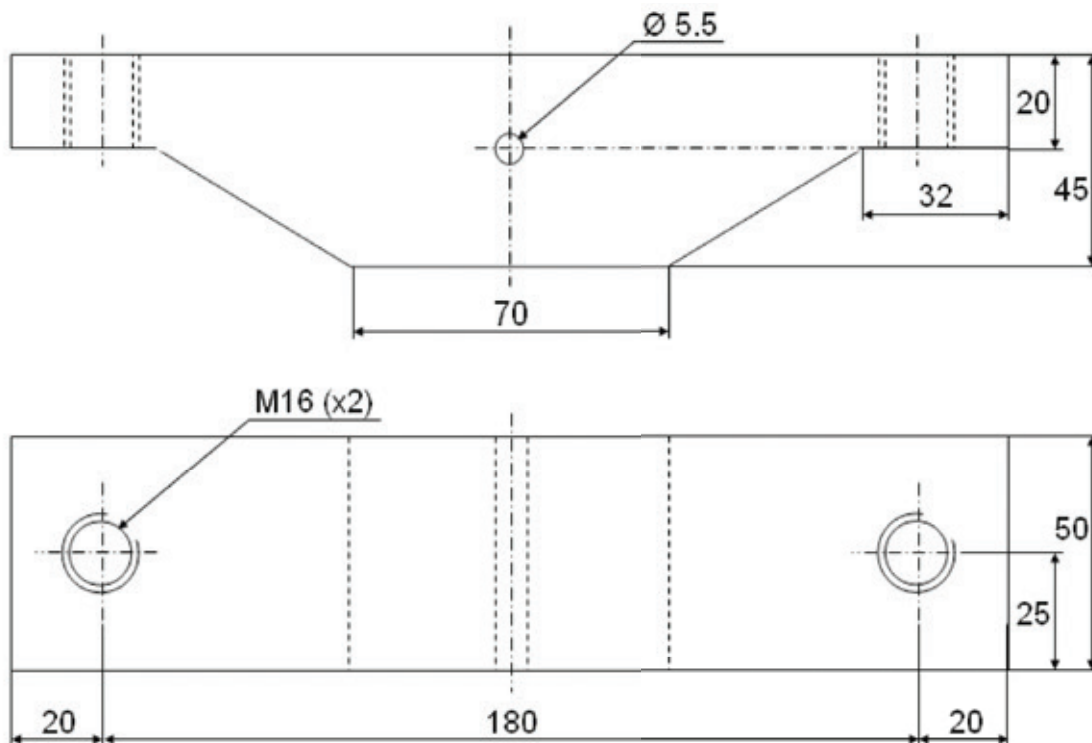
Designed for stack assemblies

Material: Aluminium alloy EN-AW-6082 T6

Surface treatment: Anodized nature (10µm)

Features

- Not sensitive to magnetic fields
- Low weight



(mm)

Aluminium reaction bar

5FSE704857-802: 146 mm

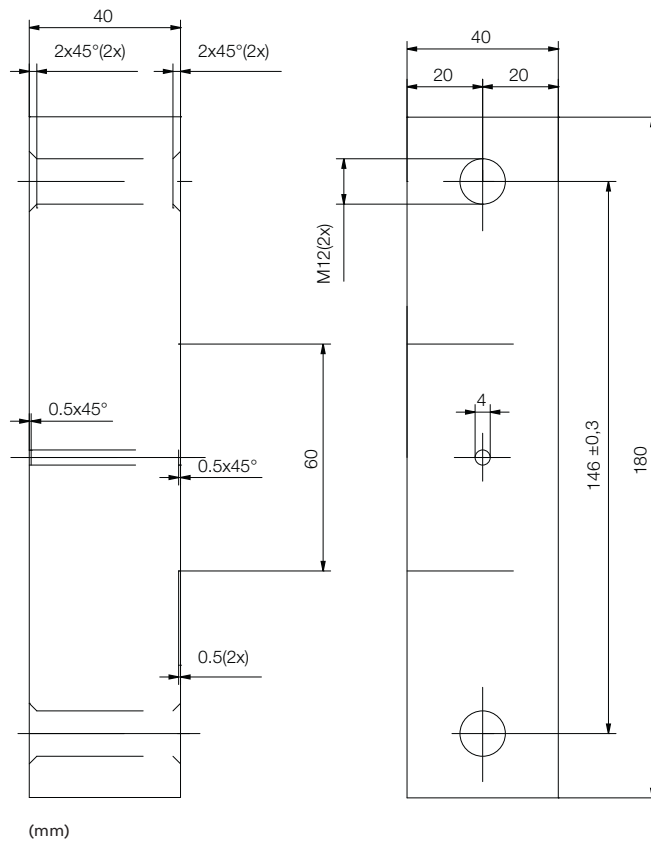
PRODUCT SPECIFICATIONS

Designed for stack assemblies

Material: Aluminium alloy EN-AW-6082 T6

Features

- Not sensitive to magnetic fields
- Low weight



Aluminium reaction bar

YK2172001-1: 140 mm

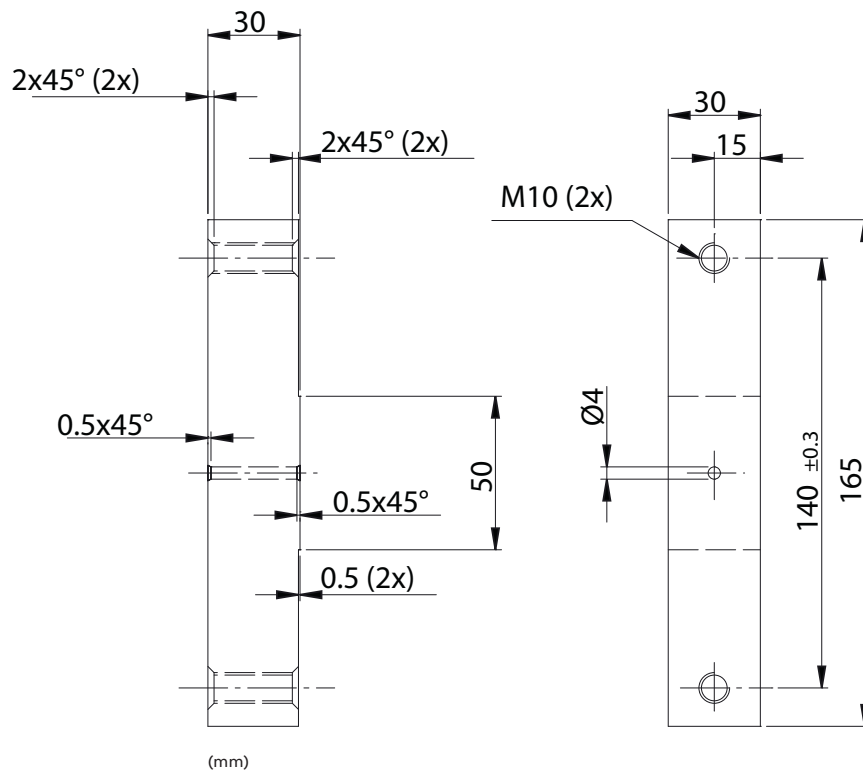
PRODUCT SPECIFICATIONS

Designed for stack assemblies

Material: Aluminium alloy EN-AW-6082 T6

Features

- Not sensitive to magnetic fields
- Low weight



Cleaning kit

Silicon oil



Cleaning kits

| Part number | Description | Contents | |
|----------------|---|----------|------------------|
| 5FSE70 4857-1 | Complete cleaning kit for preparation of semiconductor and heatsink contact surfaces before assembly. | 25 ml | Silicon oil |
| | | 60 ml | Cleaning solvent |
| | | 1 pc | Abrasive cloth |
| | | 10 pc | Lintfree paper |
| 5FSE70 4857-A | Kit for preparation of semiconductor and heatsink contact surface before assembly. For export reasons the cleaning solvent is not included. | 25 ml | Silicon oil |
| | | 1 pc | Abrasive cloth |
| | | 10 pc | Lintfree paper |
| 5FSE70 4857-26 | Silicon oil | 25 ml | |
| 5FSE70 4857-28 | Silicon oil | 250 ml | |

Thyristor tester

YSP 50-01

The thyristor tester type YSP 50-01 meets the need for a compact, portable and low weight tool for tests of thyristors and diodes.

Features

Test voltages: V_{DRM} and V_{RRM} up to 5000 V
Test of triggering data



YSP 50-01

| Part number | Description | Type | Weight | Test voltage V_{DRM} V_{RRM} | Supply voltage |
|---------------|------------------|-----------|---------|---|----------------|
| 5FSE 704857-5 | Thyristor tester | YSP 50-01 | 14.5 kg | up to 5 kV | 220 V / 50 Hz |
| 5FSE 704857-6 | Thyristor tester | YSP 50-01 | 14.5 kg | up to 5 kV | 110 V / 60 Hz |
| 5FSE 704857-7 | Test fixture | YSP 40-01 | 4.4 kg | 10 kV | – |

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