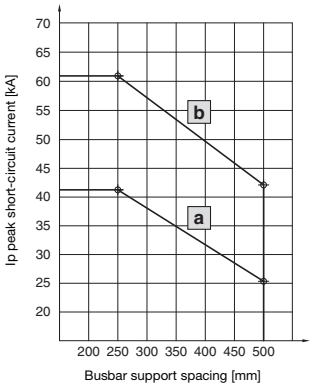
## CUPONAL busbars

## Short-circuit withstand strength

| Busbars CUPONAL mm | Rated current[1] A | Busbar support | Curve |
|---|---|---|---|
| 20 x 5 | 235 | SV 9340.000/.050 | a |
| 20 x 10 | 363 | SV 9340.000/.050 | a |
| 30 x 5 | 328 | SV 9340.000/.050 | b |
| 30 x 10 | 493 | SV 9340.000/.050 | b |

[1] Current carrying capacity at 65°C bar temperature and 35°C ambient temperature, correction factor diagram to DIN 43 671




## Machining instructions

Because the material properties differ from those of E-Cu busbars, the following machining instructions apply to CUPONAL busbars SV 3582.020, SV 3584.020, SV 3585.020, SV 3586.020:

**Sawing**
Recommended cutting speed 50 – 90 m/min

**Drilling**
Recommended cutting speed 50 m/min,
cutting angle 135° – 140°

**Punching**
Comparable to copper busbars

**Bending**
In accordance with the following table, the bending radii for CUPONAL are somewhat larger than for copper

| Bending radii | | | | |
|---|---|---|---|---|
| Bar thickness d mm | Bar width mm | < = 90° | 90° – 120° | > 120° |
| 5 | 20 – 60 | 1d | 2d | 4d |
| 10 | 20 – 120 | 2d | 3d | 4d |

## Material features

**Flow behaviour**
The flow behaviour of CUPONAL is between that of copper and aluminium. When in large-scale contact with RiLine components, the flow behaviour was not found to be any different from that of copper.

**Torques**
Components and system connections are tightened in accordance with the RiLine guidelines for copper. For screw connections, torques should be selected based on EN 43 673.

**Application restrictions**
Not suitable for use in applications with moisture condensation or corrosive environments.