

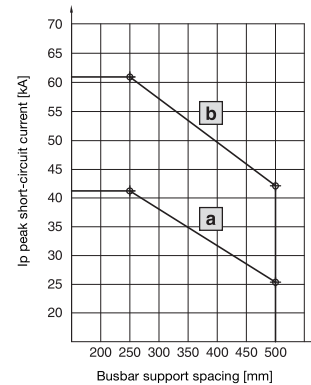
# Power distribution

## CUPONAL busbars

### Short-circuit withstand strength

Busbars CUPONAL mm	Rated current <sup>1)</sup> 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

<sup>1)</sup> 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.