

Technical information

Short-circuit protection diagrams to IEC



Laminated copper bars

Catalogue 33, page 314

Configuration ¹⁾ mm	I_n for 70 K ²⁾	I_n for 50 K ²⁾	I_n for 30 K ²⁾	Curve (short-circuit resistance)	Installation type	Model No. SV
8 x 6 x 0.5	195 A	165 A	125 A	–	–	3565.015
6 x 9 x 0.8	285 A	240 A	180 A	–	–	3565.005
4 x 15.5 x 0.8	330 A	275 A	210 A	–	–	3567.005
6 x 15.5 x 0.8	415 A	350 A	265 A	a	1	3568.005
10 x 15.5 x 0.8	575 A	480 A	365 A	a	1	3569.005
5 x 20 x 1	525 A	435 A	330 A	a	1	3570.005
5 x 24 x 1	605 A	510 A	385 A	a	1	3571.005
10 x 24 x 1	920 A	770 A	585 A	b	1	3572.005
5 x 32 x 1	770 A	645 A	485 A	b	2/3	3573.005
10 x 32 x 1	1155 A	965 A	730 A	c	2/3	3574.005
5 x 40 x 1	930 A	780 A	590 A	b	2/3	3575.005
10 x 40 x 1	1370 A	1145 A	865 A	c	2/3	3576.005
5 x 50 x 1	1125 A	940 A	710 A	b	2/3	3577.005
10 x 50 x 1	1635 A	1365 A	1030 A	c	2/3	3578.005
10 x 63 x 1	1950 A	1610 A	1230 A	d	2/3	3579.005

¹⁾ Number of lamina x lamina width x lamina thickness

²⁾ The conductor temperature of the laminated copper bar is derived by adding the ambient temperature and the temperature increase together.

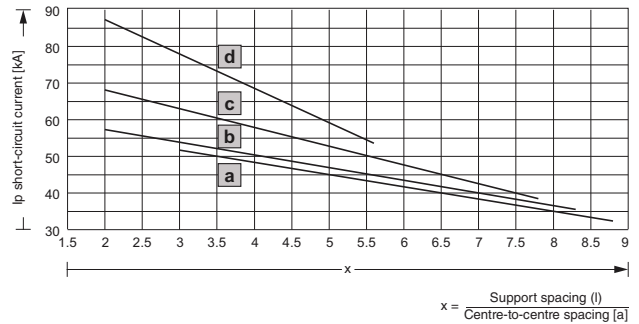
Example:

SV 3565.005 carrying 180 A, i.e. the temperature increases by 30 K. At an ambient temperature of 35°C, this produces a resultant conductor temperature of 35°C + 30 K = 65°C.

Short-circuit resistance diagrams

Basis of test:
VDE 0660, part 500/IEC 60 439-1.
Test implemented:
Dynamic short-circuit resistance
to IEC 60 439-1.

The dimensions for the support spacing (l) and for the centre-to-centre spacing (a) must be within the specified min./max. limits. The quotients of l/a can be used to determine the permissible short-circuit current I_p by using curves a to d. The prescribed installation type must be taken into account.



Curve	Support spacing (l) mm		Centre-to-centre spacing (a) mm	
	min.	max.	min.	max.
a	150	300	34	60
w	150	350	42	85
c	200	400	51	85
d	200	450	81	100

Type of assembly with universal support SV 3079.000

