

POWER DISTRIBUTION SOLUTIONS

Busbar for 60mm system (up to 2500A)

The **copper busbars** are required to distribute the power phases throughout the system: individual enclosures; or line-ups of ganged cabinets. The busbars are offered in either flat bar or T-sections for a complete range of current carrying capacities. Bars and sections are sold in standard length of 2400mm. Standard finish is Tin plated. **UR / CSA**

Note: Precut to specific lengths available upon request.

Catalog number	Description	Cross section (mm)	Current carrying capacities (A) at busbar temperature of *		Busbar support part number (to be ordered separately)	Measured short circuit strength Ieff (RMS) surge current (kA) at specific busbar support clearances (center to center) **		
			65°C	85°C		250mm	400mm	700mm
886 01618	Flat bar 12 x 5 mm	60	200A	250A	886 01508	18.75	18.75	-
886 01620	Flat bar 20 x 5 mm	100	320A	400A	886 01508	18.75	18.75	-
886 01622	Flat bar 30 x 5 mm	150	450A	550A	886 01508	25	22	-
886 01623	Flat bar 12 x 10 mm	120	360A	450A	886 01508	18.75	18.75	-
886 01624	Flat bar 20 x 10 mm	200	520A	630A	886 01508	18.75	18.75	-
886 01625	Flat bar 30 x 10 mm	300	630A	800A	886 01508	25	22	-
886 01609	Double T-section	500	-	1250A	886 01231	-	30	25
886 01608	Double T-section	720	-	1600A	886 01231	-	30	25
886 01187	Triple T-section	1140	-	2500A	886 01232	-	35	25

* Current capacities of flat bars with components fitted were calculated by testing at an ambient temperature of 35°C (IEC and UL).

• Current capacities of 'T' sections with components fitted were calculated by testing at an ambient temperature of 30°C (IEC and UL).

** Approximate short-circuit strength according to UL845 for 60mm busbar system with respect to clearances (mm) between busbar supports part numbers 886 01508; 886 01231; or 886 01232

Busbar temperatures are influenced by mounted components and by air circulation. An ambient temperature dependent correction factor (k2) can be determined using the diagram opposite and example below. The busbar temperature will vary for changes in loading or ambient conditions.

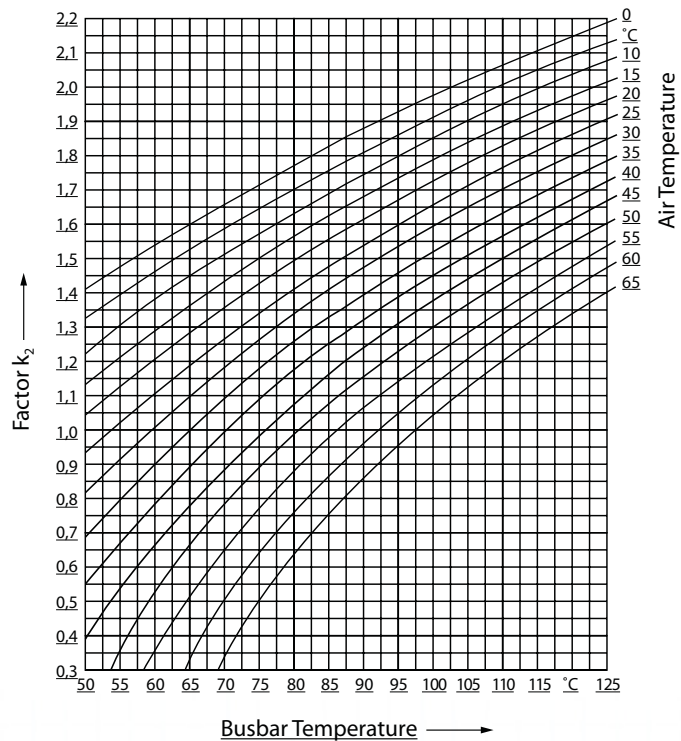
Example: System using a 30 x 10mm bussbar system

At 35°C the normal current carrying capacity is 630A (k2 = 1.0)

If a continuous load of 800A is required, then $k2 = 800/630 = 1.3$

Using the diagram, at factor k2 and ambient 35°C the busbar temp. is now 85°C

Thus the components in contact with the bar must have a temperature resistance of at least 85°C



Data subject to change without notice.



Not sure how to select or optimize your busbar system! Contact us with your system specifications and we'll support you in developing the best layout and bill of material for the application.