



# Technical Data / Specification



Description:	<b>Busbars - System</b>	<b>DB-S003-E</b>	<b>14.11.2006</b>
Type:	<b>1 / 2 / 3 / 4 phases</b>		
Info.:	<b>FTG products are CE conform and correspond to the RoHS of the EU</b>		
Note:	<b>Due to security purposes all shortened busbars need to be covered with suitable endcovers.</b>		

<b>Materials:</b>	Busbars:	E – Cu 58 F25
	Extruded insulation:	PC / ABS or PVC – lead free
	Injected insulation:	PC / ABS
	End cover:	PC / ABS
<b>Heat deflection temp.:</b>	PVC – lead free:	VST B50 – ISO 306 0>80°C – flame resistant / self-extinguishing
	PC / ABS extruded:	VST B 120 – ISO 306 = 113°C – UL94-V0/1,5
	PC / ABS injected:	VST B 120 – ISO 306 = 138°C – UL94-V0/1,6
<b>Glow wire stability:</b>	PVC – lead free:	960°C / 3mm
	PC / ABS extruded:	960°C / 3,2mm and 850°C / 1mm
	PC / ABS injected:	960°C / 1 mm
<b>Climate stability:</b>	according to DIN EN 60068	
<b>Insulations coordination:</b>	Overvoltage category III / Degree of pollution 2	
<b>Comparative tracking index:</b>	PVC – lead free:	600V
	PC / ABS extruded:	600V
	PC / ABS injected:	250V
<b>Regulations:</b>	DIN EN 60947-1 VDE 0660 part 100 = IEC 60947-1:2004	
<b>Dielectric strenght:</b>	PVC – lead free:	>40 kV / mm
	PC / ABS extruded:	>32 kV / mm
	PC / ABS injected:	>32 kV / mm
<b>Impulse voltage strenght:</b>	=> 4,5 kV (1kV /mmLS)	
<b>Min. air distance:</b>	> 5,5mm	
<b>Min. creeping distance:</b>	> 5mm	
<b>Max. operating voltage:</b>	600 V	

Capacity at 35°C ambient temperature depending of feeding point

Cross section	Depp hole + Comb bars						Busbars				
	10mm	12mm <sup>2</sup>	16mm <sup>2</sup>	20mm <sup>2</sup>	24mm <sup>2</sup>	36mm <sup>2</sup>	10mm <sup>2</sup>	16mm <sup>2</sup>	30mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>
<b>Feeding at beginning / ending</b>											
Max. current Is/Phase	63A	65A	80A	90A	100A	130A	63A	80A	120A	125A	160A
Connection cross current mm <sup>2</sup>	10	16	16	25	25	35	10	16	35	35	50
<b>Other Feedings</b>											
Max. feeding current	100A	110A	120A	150A	170A	220A	100A	130A	160A	160A	200A
Cross section of connection mm <sup>2</sup>	25	35	35	2x25	2x25	2x32	25	35	2x35	2x35	2x50

