

PSGSG 132	Product Specification For Interface Contacts	Drg. No	
		Date	07.07.08
		Product	GSM 400
1.0	Application: Interface contacts for power connectors of Electrical switchgear, GIS, etc. for static and dynamic applications		
2.0	Configuration: The contacts shall be Copper louver type mounted on steel carrier spring beam strips, High Current density separable contact interface deflected spring beam strips made of rolled, hardened silver plated Copper Beryllium alloy/E-copper/copper Chromium zirconium. They should provide multiple microscopic contact spots (a-spots) between mating connector surfaces.		
3.0	Size: The overall size of interface contact should be small as to provide compact footprints of the designed power connectors, which will provide high current and power density and therefore higher efficiency. The normal force produced between the contact surface on the spring beam and the mating surfaces maintaining the electric path across the separable interface of the connector. Edges bent at 45° to the face of the strip for placing it inside the housing groove.		
4.0	Rating The ratings provided are approx. guidelines for the sizes mentioned, which should not be maintained nearly the same. Both mechanical (Low friction normal force) and electrical (High conductive path) parameters for long life must be achieved with a single component or with small accessories. Interface strips should be silver plated to give a minimum of 5000 plugging cycles.		
5.0	Quantity : 120 Nos. of interface contacts : 165 sets of retaining rings (Approx. 165m)		
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6.00	Qualifying requirements: The vendor must have supplied similar interfaces for more than 5 years. A list of some such supplies / references, where they are in service shall be attached.		
7.0	Specifications: 7.1 Width of strip = 10 – 12mm 7.2 Thickness of strip = 0.15mm 7.3 Contact spacing r = 3 – 3.5 mm 7.4 Rated current per louver 38 – 40A rms 7.5 Contact resistance per louver <0.35 mΩ 7.6 Peak withstand current/louver = 2.5 kA 7.7 Rated SC current / louver, 3 sec. > 0.60 kA 7.8 Max. working temperature > 100°C 7.9 Sliding plug application – plug outer dia = 160 mm 7.10 Number of louvers = n >143 7.11 Total resistance = R < 2 μΩ Approx. 7.12 Total current > 5720 A rms minimum 7.13 Total short circuit current, 3s > 93 kA		
8.0	Packing: The contacts shall be packed in high density cardboard boxes, with a suitable wrapping element. The components shall be guaranteed against all manufacturing defects. For any clarifications please contact – Dr M Mohana Rao, Manager(GSG) / Shri S Vinaykumar, AGM(GSG) e-mail ID : mmrao@bhelrnd.co.in / svinay@bhelrnd.co.in		
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