GKW PRODUCTS

PRODUCT CATALOGUE

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GKW
The Busbar Specialist

IPB RANGE

Naturally Cooled

International Standard	Current kA See Note 1	Voltage kV	Impulse Level kVp.	Maximum Ambient Temp. °C	Maximum Operating Temp. See Note 2	
					Conductor °C	Enclosure °C
BS 159	Up to 23	3.6 - 36	40 - 170	40	115	80 See Note 3
IEC 298	Up to 23	3.6 - 36	40 - 170	40	115	80
ANSI 37 - 23	Up to 23	3.6 - 36	60 - 150	40	105	80

1. For higher currents e.g. up to 40kA, forced air cooled or water cooled systems are supplied.
2. Can be designed to suit specific temperature rise requirements.
3. GKW recommendation.

BUSWAY RANGE

Copper Conductors

System Designation	E1000	E1200	E1600	E1750	E2000	E2500	E3000	E3500	E4000	E4500	E5000
Current Rating (Amps)	1000	1200	1600	1750	2000	2500	3000	3500	4000	4500	5000
Overall Case Size (Amps)	120x123	120x123	120x160	120x185	120x185	120x220	120x260	120x320	120x320	120x360	120x360
Approx Weight (Kg/m)	22	26	37	38	46	55	68	71	86	99	110
AC Resistance @ OP. Temp. (mΩ/m)	0.063	0.050	0.033	0.033	0.027	0.022	0.019	0.018	0.014	0.013	0.012
Reactance @ OP. Temp. (mΩ/m)	0.0130	0.0077	0.0067	0.0065	0.0060	0.0045	0.0059	0.0036	0.0045	0.0044	0.0044
Impedance @ OP. Temp. (mΩ/m)	0.064	0.051	0.034	0.034	0.028	0.022	0.020	0.018	0.015	0.014	0.013
Volt Drop @ 0.8p.f (v/m)	0.084	0.077	0.071	0.077	0.074	0.073	0.081	0.083	0.084	0.087	0.091

1. For distribution load use 50% of listed voltage drop.
2. Aluminium conductors are available on request.

BUSDUCT RANGE

Current Ratings (Amps)				Conductor Size	Conductor Material	Non Phase Segregated Enclosure Size (mm)				Phase Segregated Enclosure Size (mm)			
Rated Voltages													
3.6kV	7.2kV	12kV	17.5kV			3.6kV	7.2kV	12kV	17.5kV	3.6kV	7.2kV	12kV	17.5kV
* 1375 1800	- -	- -	- -	6 x 75 FLAT BAR	ALUMINIUM COPPER	253 x 538	- -	- -	- -	260 x 757	- -	- -	- -
1875 2450	- -	- -	- -	10 x 75 FLAT BAR	ALUMINIUM COPPER	253 x 538	- -	- -	- -	260 x 757	- -	- -	- -
* 2100 2625	- -	- -	- -	12 x 75 FLAT BAR	ALUMINIUM COPPER	253 x 538	- -	- -	- -	260 x 757	- -	- -	- -
* 2450 3150	- -	- -	- -	15 x 75 FLAT BAR	ALUMINIUM COPPER	253 x 538	- -	- -	- -	260 x 757	- -	- -	- -
- -	1475 1900	1475 1925	1500 1950	6 x 125 FLAT BAR	ALUMINIUM COPPER	- -	303 x 800	348 x 936	433 x 1080	- -	- -	- -	- -
- -	1500 1950	1575 2050	1625 2125	6 x 125 FLAT BAR	ALUMINIUM COPPER	- -	- -	- -	- -	- -	303 x 996	348 x 1192	433 x 1416
- -	- 2150	- 2175	- 2200	8 x 125 FLAT BAR	- COPPER	- -	303 x 800	348 x 936	433 x 1080	- -	- -	- -	- -
- -	- 2200	- 2325	- 2400	8 x 125 FLAT BAR	- COPPER	- -	- -	- -	- -	- -	303 x 996	348 x 1192	433 x 1416
* 2900 3775	1800 2350	1825 2375	1850 2400	10 x 125 FLAT BAR	ALUMINIUM COPPER	303 x 538	303 x 800	348 x 936	433 x 1080	- -	- -	- -	- -
* 2900 3775	1850 2400	1925 2525	2000 2600	10 x 125 FLAT BAR	ALUMINIUM COPPER	- -	- -	- -	- -	309 x 757	303 x 996	348 x 1192	433 x 1416
* 3225 4200	- 2525	- 2575	- 2600	12 x 125 FLAT BAR	ALUMINIUM COPPER	303 x 538	303 x 800	348 x 936	433 x 1080	- -	- -	- -	- -
* 3225 4200	- 2600	- 2725	- 2825	12 x 125 FLAT BAR	- COPPER	- -	- -	- -	- -	309 x 757	303 x 996	348 x 1192	433 x 1416
* 3675 4775	- -	- -	- -	15 x 125 FLAT BAR	ALUMINIUM COPPER	303 x 538	- -	- -	- -	309 x 757	- -	- -	- -
- -	2250 2900	2275 2950	2300 2975	115 x 65 x 6 CHANNEL	ALUMINIUM COPPER	- -	340 x 810	380 x 930	430 x 1080	- -	- -	- -	- -
- -	2300 2975	2400 3125	2500 3250	115 x 65 x 6 CHANNEL	ALUMINIUM COPPER	- -	- -	- -	- -	- -	340 x 1006	380 x 1192	465 x 1426
- -	2550 3325	2575 3350	2600 3400	115 x 65 x 8 CHANNEL	ALUMINIUM COPPER	- -	340 x 810	380 x 930	430 x 1080	- -	- -	- -	- -
- -	2600 3400	2725 3550	2825 3700	115 x 65 x 8 CHANNEL	ALUMINIUM COPPER	- -	- -	- -	- -	- -	340 x 1006	380 x 1192	465 x 1426
- -	- 3600	- 3650	- 3750	115 x 65 x 10 CHANNEL	- COPPER	- -	340 x 810	380 x 930	430 x 1080	- -	- -	- -	- -
- -	- 3700	- 3875	- 4050	115 x 65 x 10 CHANNEL	- COPPER	- -	- -	- -	- -	- -	340 x 1006	380 x 1192	465 x 1426
- -	2975 3875	3050 3975	3125 4075	125 x 115 x 6 CHANNEL	ALUMINIUM COPPER	- -	390 x 840	430 x 960	515 x 1120	- -	- -	- -	- -
- -	3050 3975	3250 4225	3400 4425	125 x 115 x 6 CHANNEL	ALUMINIUM COPPER	- -	- -	- -	- -	- -	390 x 1036	430 x 1216	515 x 1456
- -	3375 4400	3475 4525	3550 4625	125 x 115 x 8 CHANNEL	ALUMINIUM COPPER	- -	390 x 840	430 x 960	515 x 1120	- -	- -	- -	- -
- -	3475 4525	3625 4800	3850 5025	125 x 115 x 8 CHANNEL	ALUMINIUM COPPER	- -	- -	- -	- -	- -	390 x 1036	430 x 1216	515 x 1456
- -	3750 4875	3850 5000	3925 -	125 x 115 x 10 CHANNEL	ALUMINIUM COPPER	- -	390 x 840	430 x 960	515 x 1120	- -	- -	- -	- -
- -	3900 -	4075 -	4325 -	125 x 115 x 10 CHANNEL	ALUMINIUM -	- -	- -	- -	- -	- -	390 x 1036	430 x 1216	515 x 1456
- -	3975 -	4075 -	4175 -	125 x 115 x 12 CHANNEL	ALUMINIUM -	- -	390 x 840	430 x 960	515 x 1120	- -	- -	- -	- -
- -	4075 -	4325 -	4550 -	125 x 115 x 12 CHANNEL	ALUMINIUM -	- -	- -	- -	- -	- -	390 x 1036	430 x 1216	515 x 1456
- -	4350 -	4525 -	4650 -	175 x 150 x 10 CHANNEL	ALUMINIUM -	- -	425 x 990	465 x 1110	550 x 1270	- -	- -	- -	- -
- -	4700 -	4875 -	5050 -	175 x 150 x 10 CHANNEL	ALUMINIUM -	- -	- -	- -	- -	- -	425 x 1186	465 x 1366	550 x 1606
- -	4600 -	4800 -	4900 -	175 x 150 x 12 CHANNEL	ALUMINIUM -	- -	425 x 990	465 x 1110	550 x 1270	- -	- -	- -	- -
- -	4925 -	5100 -	- -	175 x 150 x 12 CHANNEL	ALUMINIUM -	- -	- -	- -	- -	- -	425 x 1186	465 x 1366	- -

1. The Current Ratings above are based upon a 65°C Conductor temperature rise above a 40°C ambient. Frequency 50/60Hz.

*Two Conductors per Phase for Current Ratings with 3.6kV Rated Voltage.