

>IP55 >IP68

 **ENTRACO BKS**
BUS DUCTS PVT. LTD.

An Indo-Swiss Venture



EntracoBKS offers world's pioneering super compact bus duct with a full range of Low voltage & Medium voltage. Our premium IP68 resin cast bus duct and IP55 sandwich bus duct has a line of satisfied fans worldwide.

Along with our smart bus ducts, EntracoBKS offers value added services such as engineering, implementation and commissioning – a complete package.

EntracoBKS is a joint venture between **Entraco Power Systems**, India and **BKS Stormschienen AG**, Switzerland.



- ITS THE LIFELINE FOR YOUR PROJECTS

EntracoBKS bus ducts are proud to present the cutting edge Swiss technology bus duct that is second to none in the world. Our approach to design is revealed in the beautiful simplicity of our products.

EntracoBKS bus ducts are the lifeline for every major project from Residential towers to Nuclear plants, IT Parks to Chemical factories, Manufacturing units to Oil refineries, Airports to Seaports, Hospitals to Commercial Malls and much more.

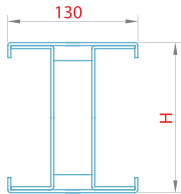
EntracoBKS team and its bus ducts work with the stakeholders to make these projects successful to its fullest potential. Our approach is revealed in the beautiful simplicity of our products that are smart, easy to install and maintenance free.

Let us know how we can help you.



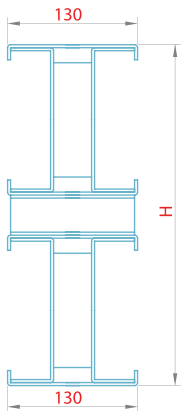
TECHNICAL DATA

SB [single bar] - Aluminium



Type SB	H mm	In A	Area mm ²	I k 1sec.	R20 m	Rt m	X m	Z m	IP Class	Wt. kg/mtr.
SC-S SB	PROPOSED	400							55	
SC-S SB	PROPOSED	630							55	
SC-S SB 60 AL	90	800	360	65	80.56	95.89	24.60	100.77	55	12
SC-S SB 80 AL	110	1000	480	65	60.42	73.8	53.60	92.90	55	14
SC-S SB 100 AL	130	1250	600	65	48.33	57.35	49.70	77.8	55	16
SC-S SB 120 AL	150	1400	720	65	40.28	48.8	40.88	64.30	55	
SC-S SB 160 AL	190	1600	960	65	30.21	35.71	44.33	57.29	55	21
SC-S SB 200 AL	230	2000	1200	65	24.17	28.9	30.77	42.82	55	25
SC-S SB 240 AL	270	2500	1440	65	20.14	24.55	28.44	36.42	55	28

DB [single bar] - Aluminium



Type DB	H mm	In A	Area mm ²	I k 1sec.	R20 m	Rt m	X m	Z m	IP Class	Wt. kg/mtr.
SC-R DB 080 A	380	3200	1920	100	15.10	18.65	22.55	29.3	55	43
SC-R DB 100 A	460	4000	2400	100	12.08	14.87	24.76	28.38	55	50
SC-R DB 120 A	540	5000	2880	100	10.07	11.68	22.53	25.73	55	57

PER 100 METER

- Bus duct drawings not to the exact proportion.

Entraco BKS bus duct and rising main are specially designed for commercial, residential, industrial and infrastructure projects.

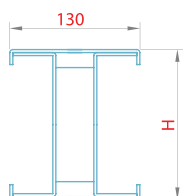
Sandwich construction

415V 50Hz system

- 3 phase 4 wire (100% neutral)
- 3 phase 5 wire (100% internal earth)

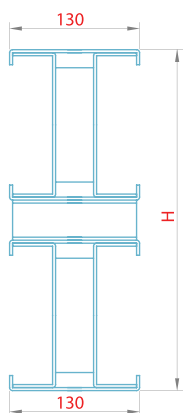
TECHNICAL DATA

SB [single bar] - Copper



Type SB	H mm	In A	Area mm ²	I k 1sec.	R20 m	Rt m	X m	Z m	IP Class	Wt. kg/mtr.
SC-S SB 50 Cu	70	630	360	23	99.00	117.89	104.78	155.10	55	14
SC-S SB 60 Cu	90	800	360	23	74.00	92.82	83.70	124.90	55	20
SC-S SB 80 Cu	90	1000	480	38	49.00	60.72	67.35	90.90	55	22
SC-S SB 100 Cu	110	1250	600	38	36.46	47.88	66.36	76.13	55	26
SC-S SB 120 Cu	150	1600	720	65	29.17	34.29	56.71	67.34	55	30
SC-S SB 160 Cu	190	2000	960	65	18.23	20.95	27.33	34.82	55	46
SC-S SB 200 Cu	230	2500	1200	80	14.58	16.1	23.55	28.37	55	54
SC-S SB 240 Cu	270	3200	1440	80	12.15	14.61	16.64	22.22	55	64

DB [single bar] - Copper



Type DB	H mm	In A	Area mm ²	I k 1sec.	R20 m	Rt m	X m	Z m	IP Class	Wt. kg/mtr.
SC-S DB 160 Cu	420	4000	1920	100	9.11	10.99	15.71	21.19	55	83
SC-S DB 200 Cu	500	5000	2400	100	7.29	7.77	16.39	19.19	55	101
SC-S DB 240 Cu	580	6300	2880	100	6.08	6.79	16.02	18.13	55	120

PER 100 METER

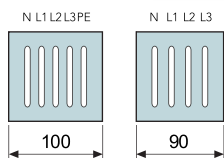
• Bus duct drawings not to the exact proportion.

Main Features

- Extruded Aluminum enclosure
- Enclosure uses as earth
- Low voltage drop
- Low maintenance
- Compact space saving
- Withstand high short circuit
- Higher mechanical strength
- Low impedance

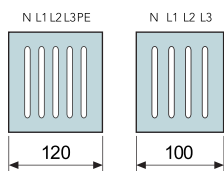
TECHNICAL DATA

SB [single bar] - Aluminium



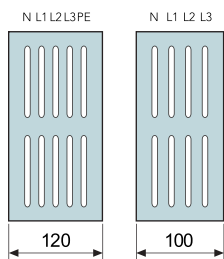
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
SB-60											
SC-R / SB 060-03 AL	90	400	178	23	48	161.11	176.43	49.90	178.34	68	21
SC-R / SB 060-04 AL	90	630	237	23	48	120.83	141.96	41.55	151.16	68	22
SC-R / SB 060-06 AL	90	800	352	38	80	80.56	96.35	25.71	101.91	68	22

SB [single bar] - Aluminium



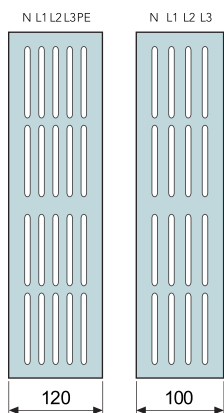
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
SB											
SC-R / SB 080 AL	110	1000	472	38	80	60.42	74.35	54.65	93.80	68	29
SC-R / SB 100 AL	130	1250	592	65	140	48.33	58.86	50.57	78.64	68	34
SC-R / SB 120 AL	150	1400	712	65	140	40.28	49.59	41.79	65.80	68	39

DB [double bar] - Aluminium



Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
DB											
SC-R / DB 080 AL	190	1600	945	65	140	30.21	36.27	45.90	58.91	68	48
SC-R / DB 100 AL	230	2000	1185	65	140	24.17	29.48	31.38	43.32	68	58
SC-R / DB 120 AL	270	2500	1425	65	140	20.14	25.62	29.18	38.30	68	68

QB [quadruple bar] - Aluminium



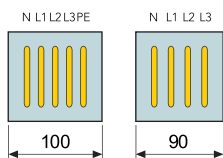
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
QB											
SC-R / QB 080 AL	380	3200	1889	130	280	15.10	19.03	23.93	30.69	68	95
SC-R / QB 100 AL	460	4000	2369	130	280	12.08	15.24	25.68	29.73	68	115
SC-R / QB 120 AL	540	5000	2849	130	280	10.07	12.70	23.07	26.47	68	135

* PER 100 METER

• Bus duct drawings not to the exact proportion.

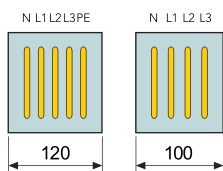
TECHNICAL DATA

SB [single bar] - Copper



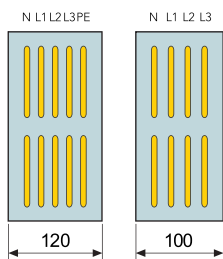
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
SB-60											
SC-R / SB 060-03 Cu	90	630	178	23	48	99	119	106	159	68	26
SC-R / SB 060-04 Cu	90	800	237	23	48	74	93	85	126	68	28
SC-R / SB 060-06 Cu	90	1000	352	38	80	49	62	69	92	68	31

SB [single bar] - Copper



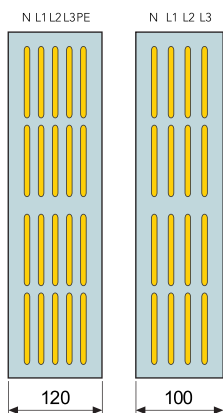
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
SB											
SC-R / SB 080 Cu	110	1250	472	65	140	36.46	49.74	67.95	77.13	68	41
SC-R / SB 100 Cu	130	1600	592	65	140	29.17	35.70	58.07	68.58	68	48
SC-R / SB 120 Cu	150	1700	712	65	140	26.00	31.00	38.00	49.00	68	56

DB [double bar] - Copper



Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
DB											
SC-R / DB 080 Cu	190	2000	945	65	140	18.23	22.49	28.60	36.38	68	72
SC-R / DB 100 Cu	230	2500	1185	65	140	14.58	17.62	24.51	29.89	68	87
SC-R / DB 120 Cu	270	3200	1425	65	140	12.15	15.11	17.90	23.58	68	103

QB [quadruple bar] - Copper



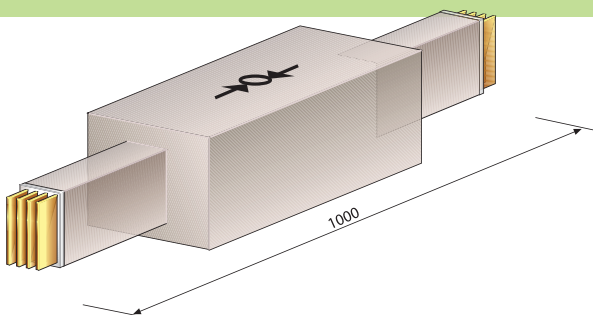
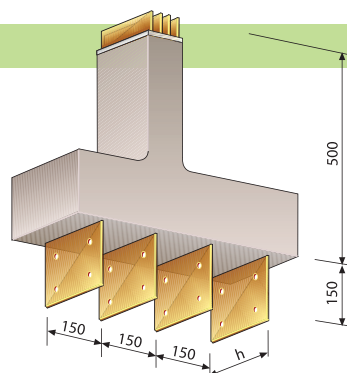
Type	H mm	In A	Area mm ²	I _k 1 sec.	I _k dyn.	R ₂₀ mΩ	R _t mΩ	X mΩ	Z mΩ	IP Class	Wt. kg/mtr.
QB											
SC-R / QB 080 Cu	380	4000	1889	130	280	9.11	11.30	16.66	22.24	68	142
SC-R / QB 100 Cu	460	5000	2369	130	280	7.29	8.83	17.09	20.08	68	174
SC-R / QB 120 Cu	540	6300	2849	130	280	6.08	7.58	17.81	19.37	68	205

* PER 100 METER

• Bus duct drawings not to the exact proportion.

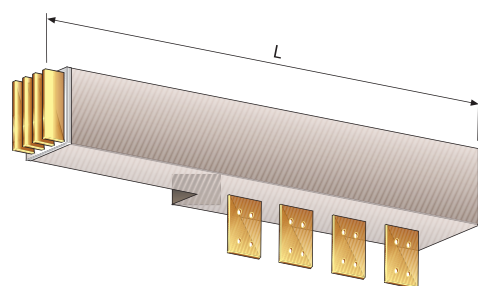
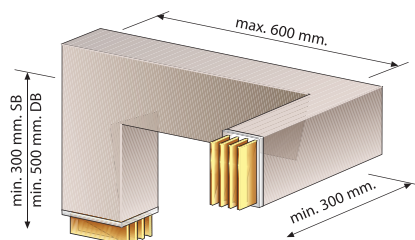
STANDARD & NON-STANDARD ELEMENTS

Terminal - element TO-S



Expansion - element

Double elbow flat + dihedral



Terminal - element TE

$L = \text{max. } 2000\text{mm.}$

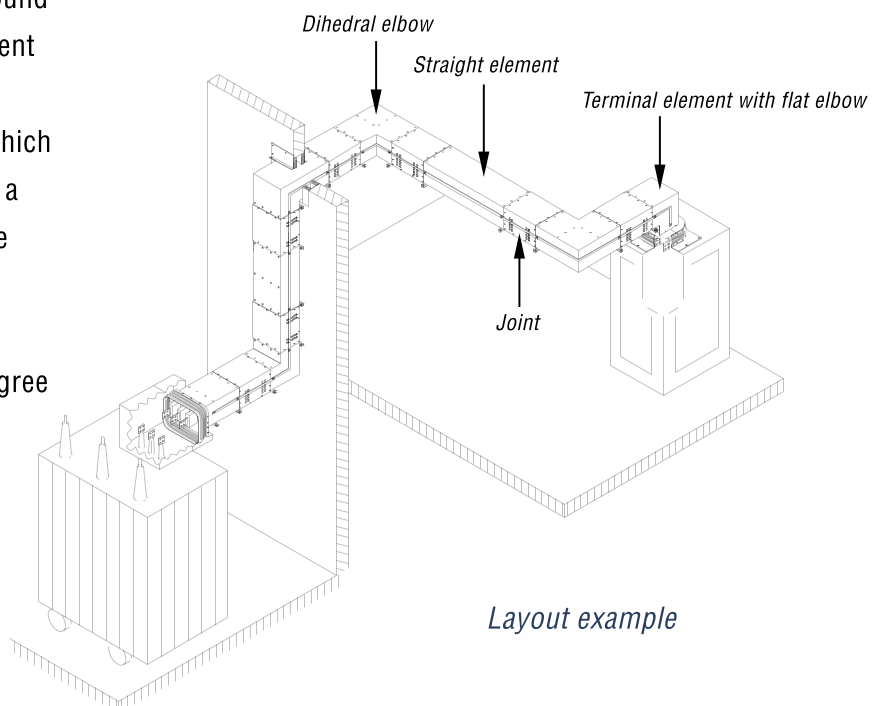


Major advantages

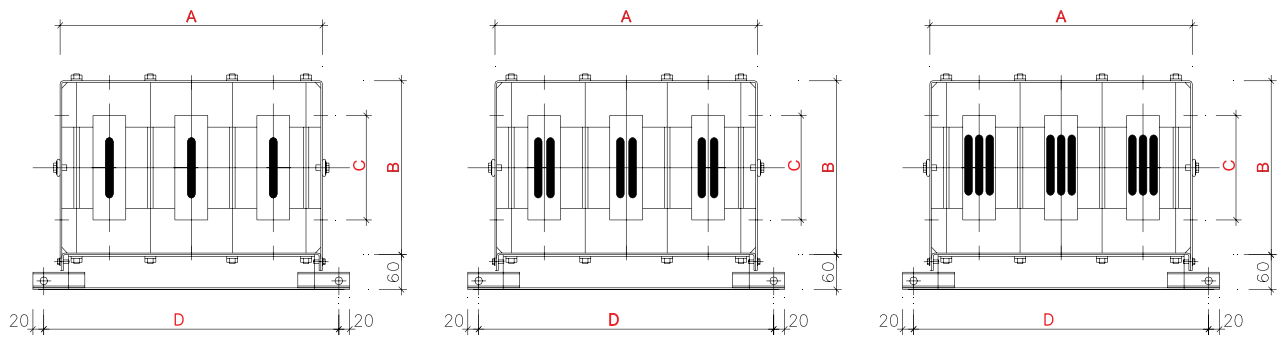
- Wide range from 1250A - 5000A/3.6KV
- Outdoor IP68
- High short-circuit withstand
- Fully insulated with cast resin
- Electro erosion resistant
- Low voltage drop
- Tailor made terminal-elements
- High mechanical strength
- Very compact dimensions
- Air & watertight wall bushings
- Chemical resistant
- Fungi, insects and rodents resistant
- UV resistant
- Self-extinguishing insulation
- Fire retarding wall bushings F120
- Non chimney effect
- Tropical resistant
- Simple erection
- Maintenance free

EntracoBKS MV-Resin bus duct consist of tin plated copper conductors, embedded in an enclosure of homogeneous insulation compound based on epoxy resin mixed with a high content of selected inert mineral fillers. EntracoBKS insulation compound is free of occlusions, which may cause leaks and partial discharges, with a high mechanical, chemical and fire resistance level.

EntracoBKS MV-Resin bus duct with high degree of protection IP68 is the ideal solution for outdoor installation in tropical, saline and corrosive environments. The system is simple to design, easy to install and ultimately maintenance free.



Layout example



3.6 - 7.2 kv 60Hz / 50Hz

TYPE	RATING	VOLTAGE KV	A	B	C	D
MV-R 060-01	1250	3.6/7.2	480	260	140	540
MV-R 080-01	1600	3.6/7.2	480	260	140	540
MV-R 100-01	1750	3.6/7.2	480	300	180	540
MV-R 120-01	2000	3.6/7.2	480	300	180	540
MV-R 080-02	2500	3.6/7.2	540	260	140	600
MV-R 100-02	3000	3.6/7.2	540	300	180	600
MV-R 120-02	3500	3.6/7.2	540	300	180	600
MV-R 100-03	4000	3.6/7.2	600	300	180	660
MV-R 120-03	5000	3.6/7.2	600	300	180	660

12 kv 60Hz / 50Hz

TYPE	RATING	VOLTAGE KV	A	B	C	D
MV-R 060-01	1250	12	600	320	140	660
MV-R 080-01	1600	12	600	320	140	660
MV-R 100-01	1750	12	600	360	180	660
MV-R 120-01	2000	12	600	360	180	660
MV-R 080-02	2500	12	600	320	140	660
MV-R 100-02	3000	12	600	360	180	660
MV-R 120-02	3500	12	600	360	180	660
MV-R 100-03	4000	12	720	360	180	780
MV-R 120-03	5000	12	720	360	180	780

17.5 kv 60Hz / 50Hz

TYPE	RATING	VOLTAGE KV	A	B	C	D
MV-R 060-01	1250	17.5	380	380	140	800
MV-R 080-01	1600	17.5	380	380	140	800
MV-R 100-01	1750	17.5	420	420	180	800
MV-R 120-01	2000	17.5	420	420	180	800
MV-R 080-02	2500	17.5	380	380	140	860
MV-R 100-02	3000	17.5	420	420	180	860
MV-R 120-02	3500	17.5	420	420	180	860
MV-R 100-03	4000	17.5	420	420	180	860
MV-R 120-03	5000	17.5	420	420	180	860



- its the lifeline for your project®



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