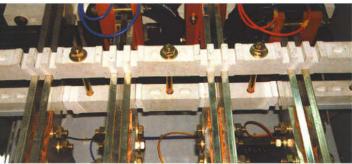


BUSBAR SUPPORTS & INSULATORS





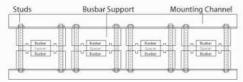


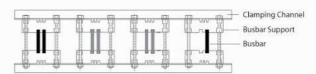


Busbar Supports

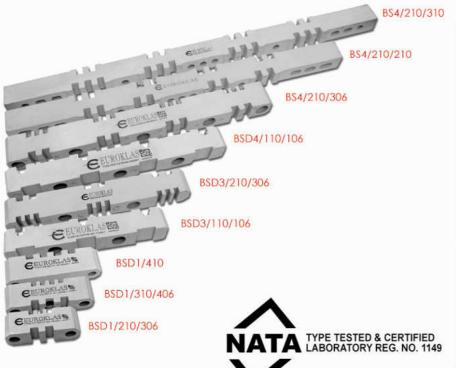


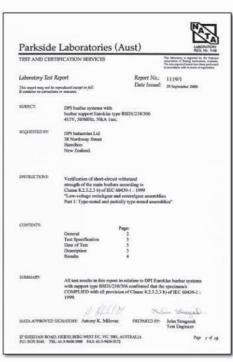
A busbar may either be supported on insulators, or else insulation may completely surround it. In general, the busbar system is built up of horizontal main busbars, vertical distribution busbars and a connection system for branching of built-in sets. Busbars, busbar supports and busbar insulation are designed to withstand the mechanical and thermal stresses which appear during operation as well as by earthing

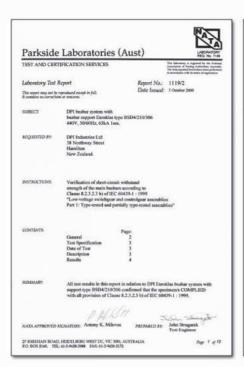




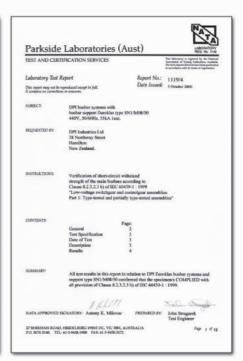
The horizontal main busbar connects the vertical distribution busbars, and the connection system connects the electrical built-in set. If required, the busbar system can be constructed with vertical main busbars and horizontal distribution busbars.















BUSBAR SUPPORTS

- Type tested to IEC 60439-1 in Australia.
- Made of halogen free fiberglass composite materials.
 Self-extinguishing and heat resistant (ISO 75/A>200°C).
- High thermal, mechanical & electrical strength.

SPECIFICATIONS

CATALOGUE NO.	MATERIAL	PHASES	BUSBAR SIDE 1 (mm)	BUSBAR SIDE 2 (mm)	RATED VOLTAGE (V)	MAX. BOLT SIZE	RECOM. TORQUE (Nm)
BSD1/210/306BG	DMC	1	10mm x 2	6mm x 3	660	M8	16
BSD1/310/406BG	DMC	1	10mm x 3	6mm x 4	660	M8	16
BSD1/410BG	DMC	1	10mm x 4	50000000000000000000000000000000000000	660	M8	16
BSD3/110/106BG	DMC	3	10mm x 1	6mm x 1	660	M6	8 8
BSD3/106BG	DMC	3	-	6mm x 1	660	M6	8
BSD3/210/306BG	DMC	3	10mm x 2	6mm x 3	660	M12	21
BSD4/110/106BG	DMC	4	10mm x 1	6mm x 1	660	M6	8
BSD4/210/306BG	DMC	4	10mm x 2	6mm x 3	660	M8	16
BSS1/210/306GY	SMC	1	10mm x 2	6mm x 3	660	M8	16
BSS1/310/406GY	SMC	1	10mm x 3	6mm x 4	660	M8	16
BSS3/110/106GY	SMC	3	10mm x 1	6mm x 1	660	M6	8
BSS4/110/106GY	SMC	4	10mm x 1	6mm x 1	660	M6	8
BSS4/210/306GY	SMC	4	10mm x 2	6mm x 3	660	M8	8 16
BSS4/210/210GY	SMC	4	10mm x 2	10mm x 2	660	M10	28
BSS4/210/310GY	SMC	4	10mm x 2	10mm x 3	660	M10	28 28

Note: Support grooves also suitable for corresponding imperial busbar sizes of 6.3mm

SHORT CIRCUIT RATINGS (to IEC 60439-1)

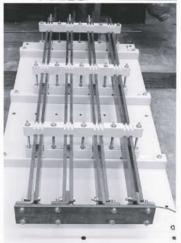
CATALOGUE NO.	kr RMS	KA PEAK	DURATION (secs)	BUSBAR SIDE (mm)	SUPPORT DIST. (mm)	TEST VOLTAGE (V)	FREQUENCY (Hz)	TEST REPORT
BSD1/210/306	50	105	1	2 x 75 x 10	400	415	50/60	1119/1
BSD1/210/306	50	105	1	3 x 75 x 6	400	415	50/60	1119/1
BSD4/110/106	35	73.5	1	1 x 75 x 6	400	415	50/60	1119/3
BSD4/210/306	63	138.6	1	2 x 75 x 10	400	415	50/60	1119/2

MATERIAL SPECIFICATIONS

	DMC	SMC				
MATERIAL		REINFORCED ED POLYSTER				
DISCHARGE		SEN FREE				
ENVIRONMENT PROTECTION		CLEABLE				
COLOUR	BEIGE	GREY				
THERMAL PROPERTIES						
WORKING TEMPERATURE	160 (deg C				
TEMPERATURE OF DEFLECTION		deg C				
DEFLECTION UNDER LOAD @ 100°C	1.2	mm				
FLAME RETARDENT PROPERTIES						
FLAMMABILITY	UL94 CLAS	S VO & 5VA				
MOISTURE ABSORPTION		(<12mg-BS2782)				
MECHANICAL PROPERTIES (BS2782/ISO179						
CHARPY IMPACT STRENGTH @ 90°C	26kJ / sq.m	65kJ / sq.m				
FLEXURAL STRENGTH	90MPa	195 MPa				
FLEXURAL MODULUS	11.5GPa	12GPa				
TENSILE STRENGTH	30MPa	80MPa				
ELECTRICAL PROPERTIES						
ELECTRICAL STRENGTH @ 90°C		m (IEC243)				
ARC RESISTANCE (ASTM D495-73)	AND THE PROPERTY OF THE PARTY O	95s				
INSULATION RESISTANCE		nms (IEC167)				
TRACKING RESISTANCE (DIN 53480)	Grade KA3C (METHOD A)					
		METHOD B)				
		901 / IEC112)				
LOSS TANGENT @ 1MHz	tan	0.013				

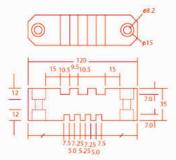




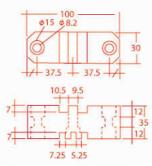




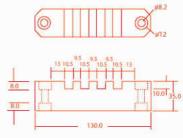
DIMENSIONS



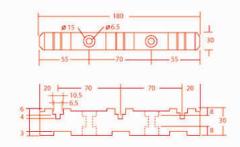
BSD1/310/406BG | BSS1/310/406GY



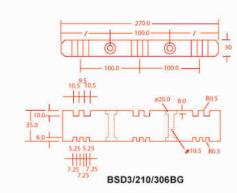
BSD1/210/306BG | BSS1/210/306GY

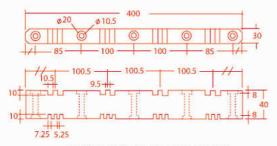


BSD1/410BG

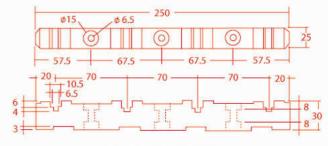


BSD3/110/106 | BSS3/110/106

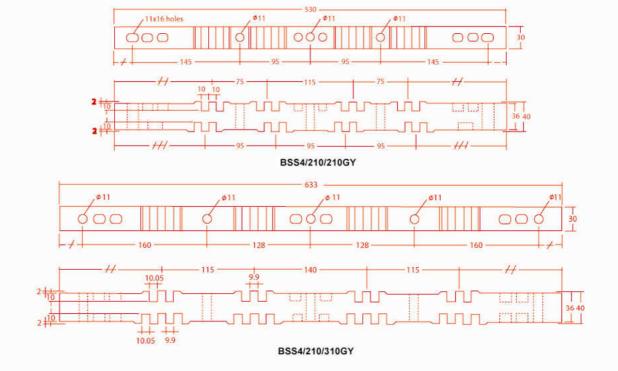




BSD4/210/306BG | BSS4/210/306GY



BSD4/110/106GY | BSS4/110/106GY





SD1/M08/051



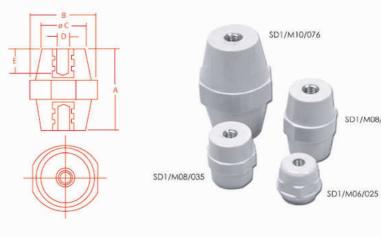
STANDOFF INSULATORS

- Type tested to IEC 60439-1 in Australia.
- Made of halogen free fiberglass composite materials.
- Self-extinguishing and heat resistant (ISO 75/A>200°C).
- · High thermal, mechanical & electrical strength.

DIMENSIONS

CATALOGUE NO.	A	В	øC	D	E
SD1/M06/025	25	30	23	M6	8
SD1/M08/035	35	42	28	M8	12
SD1/M08/035/H	35	42	28	M8	12
SD1/M08/051	51	36	29	M8	13
SD1/M08/051/H	51	36	29	M8	13
SD1/M10/051	51	36	29	M10	18
SD1/M10/076	76	50	36	M10	24

All dimensions in mm



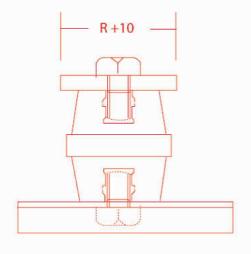
SPECIFICATIONS

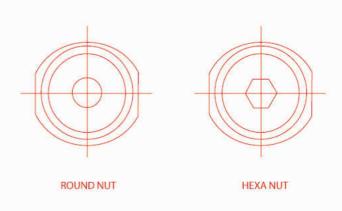
CATALOGUE NO.	MATERIAL	INSERT	RATED VOLTAGE (kV)	IMPULSE VOLTAGE (kV)	FLEXURAL STRENGTH (kN)	FLEXURAL MODULUS (kN)	TORSION RESISTANCE (Nm)	RECOM. TORQUE (Nm)	TYPE OF BOLT
SD1/M06/025	DMC	M6	0.66	7.5	4	6	15	8	R
SD1/M08/035	DMC	M8	1	23	6.9	10	50	16	R
SD1/M08/035/H	DMC	M8	1	23	6.9	10	50	16	Н
SD1/M08/051	DMC	M8	1	37	5	13	50	16	R
SD1/M08/051/H	DMC	M8	1	37	5	13	50	16	Н
SD1/M10/051	DMC	M10	1	37	6	13	90	25	R
SD1/M10/076	DMC	M10	1.5	50	12	22	90	28	R

SHORT CIRCUIT RATINGS (to IEC 60439-1)

CATALOGUE NO.	kR RMS	KA PEAK	DURATION (secs)	BUSBAR SIDE (mm)	SUPPORT DIST. (mm)	TEST VOLTAGE (V)	FREQUENCY (Hz)	TEST REPORT
SD1/M08/051	35	73.5	4	50 x 10	350	440	50/60	1119/4

TWO TYPE OF STANDOFF INSULATOR HOLES

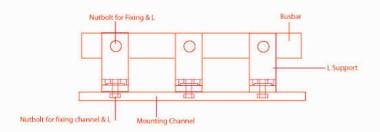






L SHAPE BUSBAR SUPPORTS

- Made of halogen free fiberglass composite materials.
- Self-extinguishing and heat resistant (ISO 75/A>200^OC).
- · High thermal, mechanical & electrical strength.

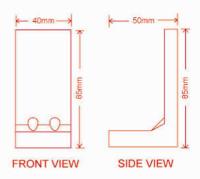




DIMENSIONS

CATALOGUE NO.	HEIGHT
BSDL	85

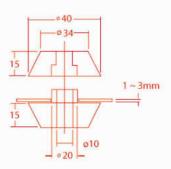
All dimensions in mm



THROUGH-HOLE INSULATOR

- · For high current through-hole applications
- Accomodate M8, M10 and M12 brass stud
- · Made of fiberglass reinforced composite materials

DIMENSIONS



SPECIFICATIONS

CATALOGUE NO.	INSULATOR	THROUGH	CONDU	CTOR	RATED	RATED	IMPULSE	RECOMMENDED
	MATERIAL	HOLE DIAMETER	DIAMETER	LENGTH (mm)	CURRENT (A)	VOLTAGE kV	VOLTAGE kV	TORQUE Nm
SD1/T10	DMC	20mm	10mm	-	-	0.66	7.5	-
SD1/T10/BM08	DMC	20mm	M8	68	125	0.66	7.5	8
SD1/T10/BM10	DMC	20mm	M10	70	160	0.66	7.5	15
SD1/T10/BM12	DMC	20mm	M12	75	200	0.66	7.5	16



Introduction

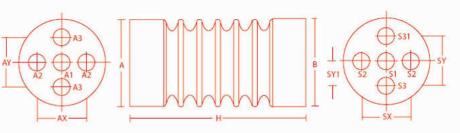
High-voltage insulators used for high-voltage power transmission are made from glass, porcelain, or composite polymer materials. The design of insulators often includes deep grooves, or sheds, that provides increased arc-lengths.



HIGH VOLTAGE INSULATOR

- · Up to 36kV insulation rating
- Tested and certified by the Taiwan Electric Research Center
- Compliance to JIS C3801 and C3851 standards
- Made from top quality fiberglass reinforced composite material (red) and epoxy based compounds (brown)
- Brass nut inserts (different insert arrangements on request)

DIMENSIONS



SPECIFICATIONS & DIMENSIONS

CATALOGUE NO.	EL-30N	EL-20N	EL-10N	EL-10H	EL-25	EL-24	EL-15	EL-12	EL-6M	EL-3M	EL-6S	EL-3S
End diameters (A/B), mm	100	85/90	75/80	75/80	70	70	70	58	70	70	55	50
Height (H), mm	310	210	145	115	230	210	142	130	90	60	90	50
Surface leakage distance, mm	630	330	240	190	375	356	210	172	125	88	130	65
Rated voltage, kV	36	22	16.5	12	25	24	15	12	7.2	3.6	7.2	3.6
Low frequency dielectric strength, kV	75	50	36	28	60	60	50	36	22	16	22	16
Impulse voltage resistance, kV	200	125	95	75	150	125	110	95	75	60	60	45
Pesistent bending strength, 1min, kg	500	600	600	600	300	300	400	300	400	400	250	150
Tensile strength, kg	>3000	>2000	>2000	>2000	>2000	>1500	>1500	>2000	>1200	>1200	>1800	>1000
Torque strength, kg-m	>25	>25	>25	>25	>25	>25	>25	>25	>25	>25	>25	>20

INSERTS ARRANGEMENT

NOEKIO AKK	ANG	WILIAI											
CATALOGUE N	Ο.	EL-30N	EL-20N	EL-10N	EL-10H	EL-25	EL-24	EL-15	EL-12	EL-6M	EL-3M	EL-6S	EL-3S
	A1	M16	M10	M10		-	M10	M10	M10	M10		M10	A
	A2	M8	M8	M8	M8	M10		±i.	M8	M8	M6	M8	- 1
ТОР	A3	-	M10	M10	M10	M10	M8	M8		-2-	-	2	M8
	AX	40	34	34	34	40	-	5	36	40	32	40	
	AY	0	40	40	40	40	40	40	- 2	2	<u>~</u>	-	32
	\$1	M16	-	5	-	-	M10	M10	M10	M10	M8	M10	M10
BOTTOM	S2		M10	M10	M10	*	1 +1	#:	=	-	*	*	*
	\$3	M4	M10	M10	The Sales	M10	- 2	활	-	2	2	2	2
	\$31	-	M10	M10	-	M10	-	7 1	-	*	*	=	
	SX	2	40	40	40	2	2	#	2	-	-	¥	-
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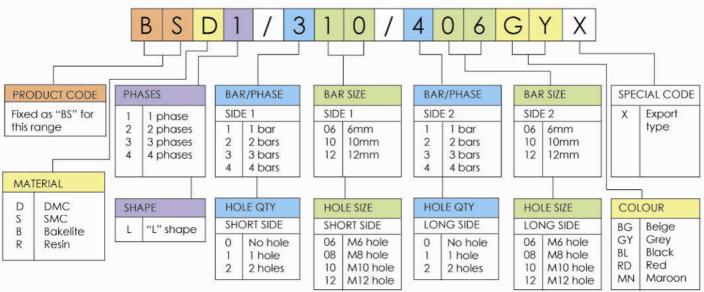


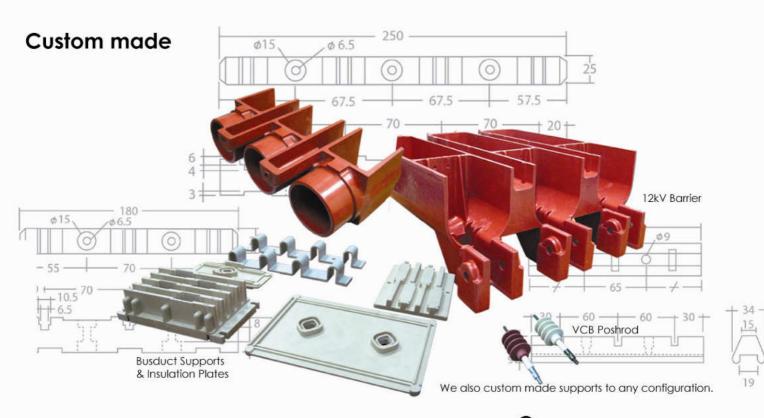














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