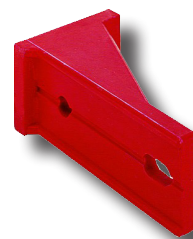
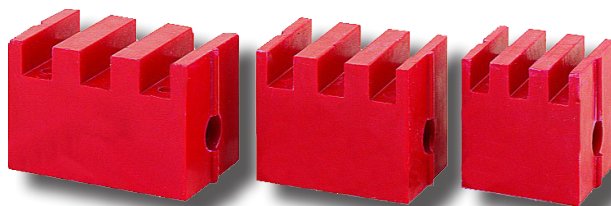


WE MAKE YOUR VALUES VISIBLE.



Bus bar isolators / -supports

Perfect measurement results,
that you can rely on.





Bus bar isolators / -supports

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Spacing isolator Type DB/P	3
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LOW- AND MEDIUM- VOLTAGE CURRENT TRANSFORMERS



SAFETY APPLIANCE TESTERS



THERMAL PRINTERS



ENERGY MANAGEMENT



SHUNTS



ANALOGU PANEL METERS



SWITCHBOARD COMPONENTS



DIGITAL PANEL METERS



VOLTAGE DIVIDER



MEASURING TRANSDUCERS



LOW VOLTAGE SWITCHGEAR

Spacing isolator Type DB/P



Made of Polyglas-polyester material, reinforced with fiberglass, colour red, self extinguishing.

The isolators of type DB are unbreakable and have excellent electrical and mechanical characteristics and can be used under extreme working conditions such as high room temperatures, also when in contact with corrosive substances, vibrations, etc.

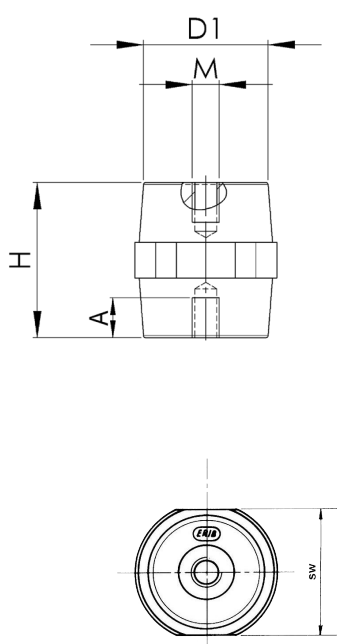
The hexagon, arranged middle layer with two facing sides, facilitates the connection and locking in place the isolator.

Upon request, the isolators can be supplied as follows:

- The isolator can be equipped with a thread which is not standard
- The isolator can be supplied with one or two threaded bolts „GB“

Operating temperature: $-40^{\circ}\text{C} < T < +130^{\circ}\text{C}$

Fire resistance class: UL 94-V0



Art.- no.	Type	H [mm]	sw* [mm]	D1 [mm]	U _M [V]	M	A [mm]	Colour	Pac [pcs.]
10090015	DB/P 12	12	11	10	220	M3	3	black	100
10090018	DB/P 12	12	11	10	220	M4	3	red	100
10090022	DB/P 16	16	14	13	380	M4	4	red	100
10090025	DB/P 20	20	17	15	500	M4	6	red	100
10090026	DB/P 20	20	17	15	500	M6	6	red	100
10090028	DB/P 25	25	19	15	600	M6	7	black	250
10090029	DB/P 25	25	19	15	600	M5	7	red	250
10090030	DB/P 25	25	19	15	600	M6	7	red	250
10090033	DB/P 30	30	30	26	600	M6	8	red	80
10090034	DB/P 30	30	30	26	600	M8	7	red	80
10090035	DB/P 34	35	32	28	1000	M6	9	red	64
10090036	DB/P 34	35	32	28	1000	M8	10	red	64
10090037	DB/P 34	35	32	28	1000	M10	10	red	64
10090038	DB/P 35	35	41	35	1000	M6	9	red	36
10090039	DB/P 35	35	41	35	1000	M8	9	red	36
10090040	DB/P 35	35	41	35	1000	M10	10	red	36
10090438	DB/P 40	40	40	30	1000	M8	11	red	100
10090439	DB/P 40	40	40	30	1000	M10	12	red	100
10090440	DB/P 40	40	40	30	1000	M12	10	red	100
10090041	DB/P 45	45	41	35	1500	M6	12	red	27
10090042	DB/P 45	45	41	35	1500	M8	12	red	27
10090043	DB/P 45	45	41	35	1500	M10	12	red	27
10090044	DB/P 45	45	41	35	1500	M12	12	red	27
10090046	DB/P 50	50	36	29	2000	M8	12	red	36
10090047	DB/P 50	50	36	29	2000	M10	12	red	36
10090048	DB/P 50	50	36	29	2000	M12	13	red	36
10090441	DB/P 60	60	55	40	2000	M8	20	red	25
10090442	DB/P 60	60	55	40	2000	M10	21	red	25
10090443	DB/P 60	60	55	40	2000	M12	20	red	25
10090050	DB/P 65	63,5	41	35	3000	M8	17	red	22
10090051	DB/P 65	63,5	41	35	3000	M10	19	red	22
10090052	DB/P 65	63,5	41	35	3000	M12	19	red	22
10090053	DB/P 75	76	50	36	5000	M8	19	red	12
10090054	DB/P 75	76	50	36	5000	M10	19	red	12
10090055	DB/P 75	76	50	36	5000	M12	19	red	12
10090057	DB/P 750	75	65	52	5000	M12	18	red	8
10090058	DB/P 750	75	65	52	5000	M16	23	red	8

* sw = wrench width

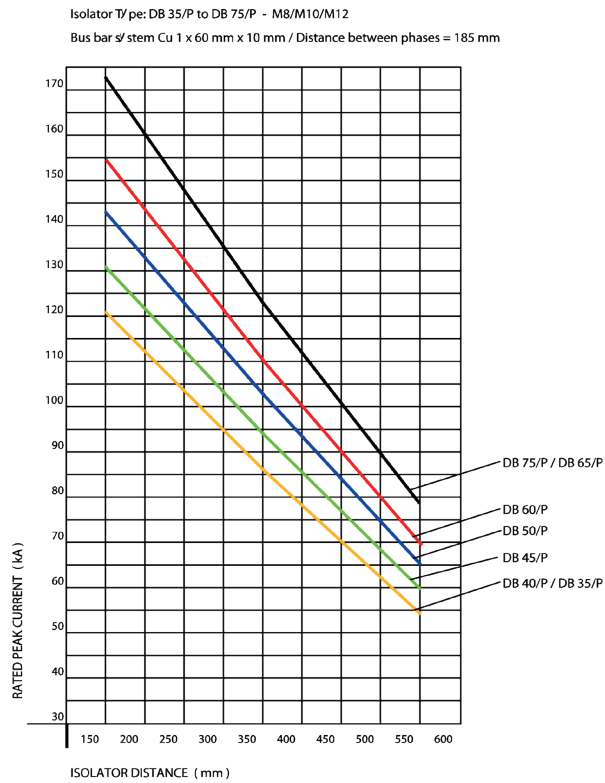


Type	Thread	Ripple current resistance [kV]	Discharge voltage [kV]	Max. tensile load [kN]	Max. bending load [kN]	Max. compression load [kN]	Max. tightening torque [Nm]
DB/P 16	M4	3	8	1	0,5	5	2,8
DB/P 20	M4	4	15	1,5	0,6	6	2,8
DB/P 20	M6	4	15	1,5	0,6	6	8,9
DB/P 25	M5	7	20	3	1,8	21	5,1
DB/P 25	M6	7	20	3	1,8	21	8,9
DB/P 30	M6	8	23	5	2,5	44	8,9
DB/P 30	M8	8	23	5	2,5	44	21,5
DB/P 34	M6	10	30	8	4,5	65	8,9
DB/P 34	M8	10	30	8	4,5	65	21,5
DB/P 34	M10	10	30	8	4,5	65	43,0
DB/P 35	M6	10	30	11	8	80	8,9
DB/P 35	M8	10	30	11	8	80	21,5
DB/P 45	M6	12	40	12	8	80	8,9
DB/P 45	M8	12	40	12	8	80	21,5
DB/P 45	M10	12	40	12	8	80	43,0
DB/P 45	M12	12	40	12	8	80	85,0
DB/P 50	M8	12	40	8,5	4,5	68	21,5
DB/P 50	M10	12	40	8,5	4,5	68	43,0
DB/P 50	M12	12	40	8,5	4,5	68	85,0
DB/P 65	M8	15	40	15	7	83	21,5
DB/P 65	M10	15	40	15	7	83	43,0
DB/P 65	M12	15	40	15	7	83	85,0
DB/P 75	M8	25	50	23	9	100	21,5
DB/P 75	M10	25	50	23	9	100	43,0
DB/P 75	M12	25	50	23	9	100	85,0
DB/P 750	M12	25	50	28	15	150	85,0
DB/P 750	M16	25	50	28	15	150	180,4

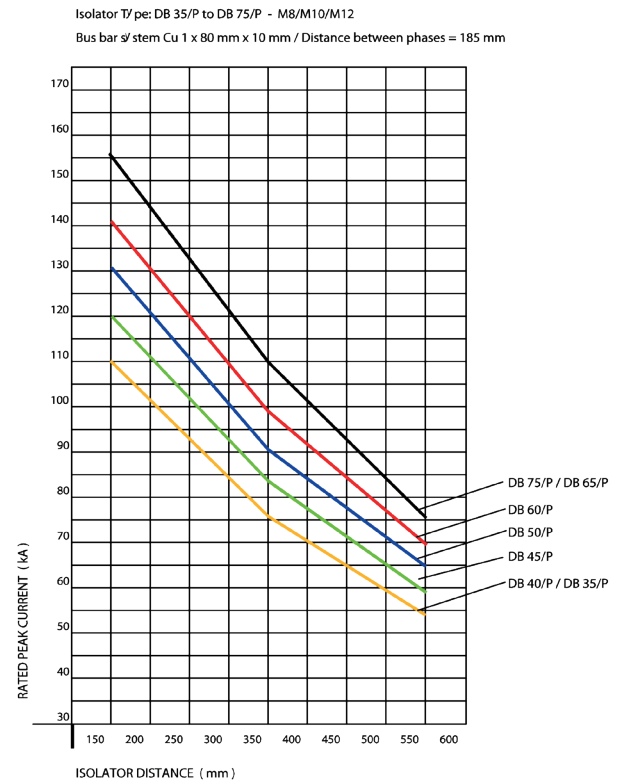
The spacing isolator type DB/P has been tested for dynamic short-circuit withstand strength according to the regulations covering IEC 61439-1+2: 2009-01.

Short-circuiting resistance of the isolators Type DB/P

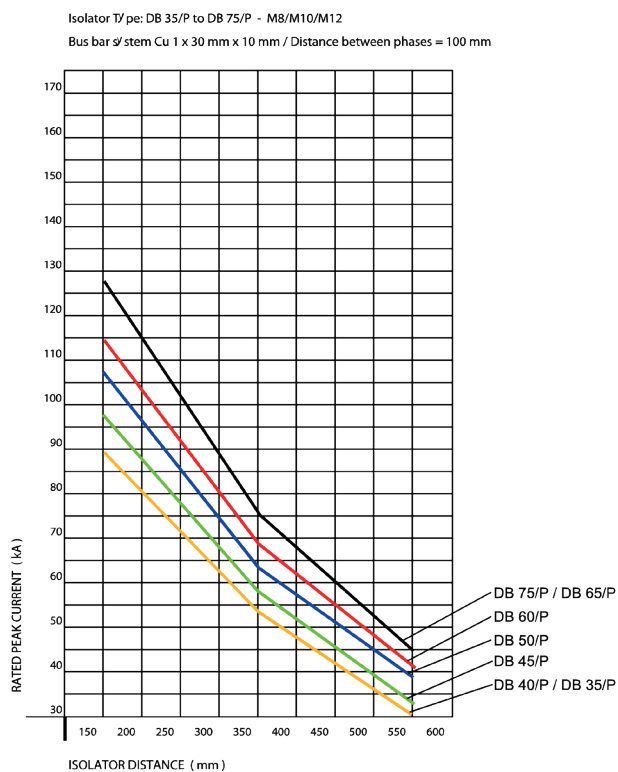
SHORT-CIRCUITING RESISTANCE / ISOLATOR DISTANCE - Tab. 1



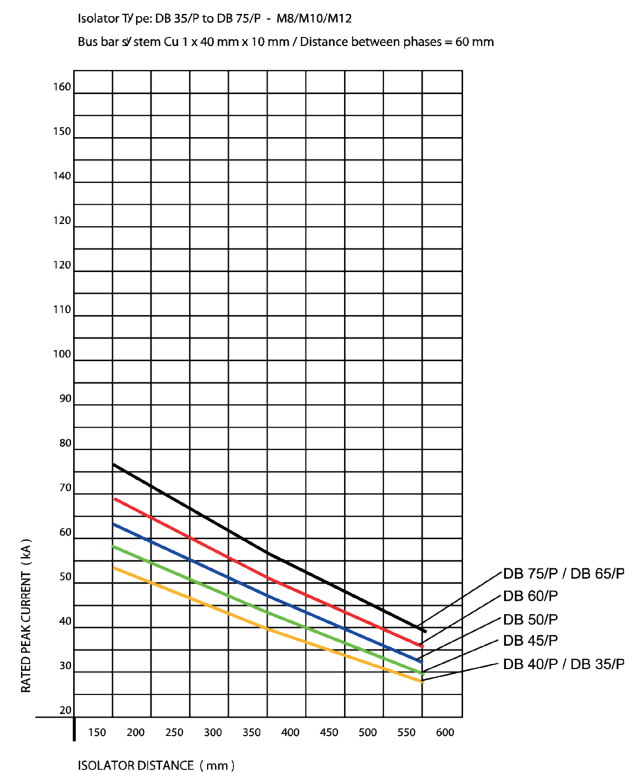
SHORT-CIRCUITING RESISTANCE / ISOLATOR DISTANCE - Tab. 2



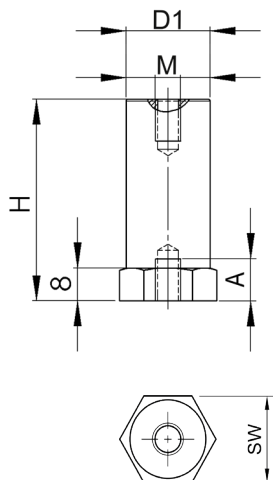
SHORT-CIRCUITING RESISTANCE / ISOLATOR DISTANCE - Tab. 3



SHORT-CIRCUITING RESISTANCE / ISOLATOR DISTANCE - Tab. 4



Spacing isolator Type CO/P



Made of Polyglas-polyester material, reinforced with fiberglass, colour red, self extinguishing.

Upon request the isolators type CO/P, can be supplied with 1 or 2 threaded bolts "GB", fitted and secured with Loctite.

Operating temperature: -40 °C up to +130 °C

Fire resistance class: UL94-V0

Art.- no.	Type	H [mm]	sw* [mm]	D1 [mm]	U _M [V]	M	A [mm]	Pac [pcs.]
10090061	CO/P 16	16	21	20	220	M4	4	250
10090062	CO/P 16	16	21	20	220	M5	4	250
10090063	CO/P 16	16	21	20	220	M6	4	250
10090064	CO/P 16	16	21	20	220	M8	4	250
10090065	CO/P 20	20	21	20	400	M5	5	200
10090066	CO/P 20	20	21	20	400	M6	5	200
10090067	CO/P 20	20	21	20	400	M8	5	200
10090068	CO/P 25	25	21	20	500	M5	6	150
10090069	CO/P 25	25	21	20	500	M6	6	150
10090070	CO/P 25	25	21	20	500	M8	6	150
10090071	CO/P 30	30	21	20	600	M5	7	140
10090072	CO/P 30	30	21	20	600	M6	7	140
10090073	CO/P 30	30	21	20	600	M8	7	140
10090075	CO/P 35	35	21	20	600	M6	7	120
10090077	CO/P 40	40	21	20	600	M6	9	110
10090078	CO/P 40	45	21	20	600	M8	10	110
10090079	CO/P 45	45	21	20	750	M6	9	100
10090080	CO/P 45	45	21	20	750	M8	10	100
10090081	CO/P 50	50	21	20	750	M6	10	80
10090082	CO/P 50	50	21	20	750	M8	10	80
10090083	CO/P 60	60	21	20	750	M6	9	70
10090084	CO/P 60	60	21	20	750	M8	9	70

* sw = wrench width

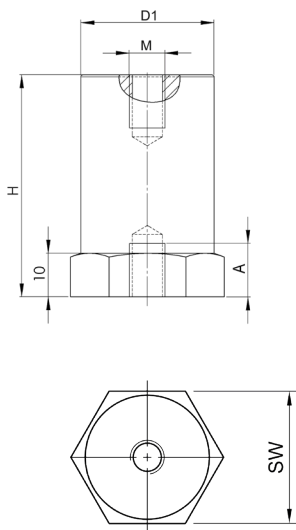
Type	Ripple current resistance [kV]	Discharge voltage [kV]	Max. tensile load [kN]	Max. bending load [kN]	Max. compression load [kN]	Max. tightening torque [Nm]
CO/P 16						2 - 10
CO/P 20						6 - 10
CO/P 25						6 - 14
CO/P 30	5	15	4	2	21	8 - 16
CO/P 35						6 - 12
CO/P 40	8	20	4	1,5	21	12 - 16
CO/P 45						12 - 16
CO/P 50	10	25	4	1	21	12 - 16
CO/P 60	10	30	4	1	21	12 - 16

Spacing isolator Type CS/P

Made of Polyglas-polyester material, reinforced with fiberglass, colour red, self extinguishing.

Operating temperature: -40 °C up to +130 °C

Fire resistance class: UL94-V0



Art.- no.	Type	H [mm]	sw* [mm]	D1 [mm]	U _M [V]	M [mm]	A [mm]	Pac [pcs.]
10090087	CS/P 30	30	30	30	750	M6	9	80
10090088	CS/P 30	30	30	30	750	M8	9	80
10090089	CS/P 30	30	30	30	750	M10	9	80
10090090	CS/P 35	35	30	30	1000	M6	9	64
10090091	CS/P 35	35	30	30	1000	M8	9	64
10090092	CS/P 35	35	30	30	1000	M10	9	64
10090093	CS/P 40	40	30	30	1000	M6	12	60
10090094	CS/P 40	40	30	30	1000	M8	12	60
10090095	CS/P 40	40	30	30	1000	M10	12	60
10090096	CS/P 45	45	30	30	1000	M6	12	48
10090097	CS/P 45	45	30	30	1000	M8	12	48
10090098	CS/P 45	45	30	30	1000	M10	13	48
10090099	CS/P 50	50	30	30	1500	M6	12	48
10090100	CS/P 50	50	30	30	1500	M8	13	48
10090101	CS/P 50	50	30	30	1500	M10	12	48
10090102	CS/P 55	55	30	30	1500	M6	12	40
10090103	CS/P 55	55	30	30	1500	M8	11	40
10090105	CS/P 60	60	30	30	1500	M6	12	40
10090106	CS/P 60	60	30	30	1500	M8	16	40
10090107	CS/P 60	60	30	30	1500	M10	20	40
10090109	CS/P 65	65	30	30	1500	M8	18	32
10090111	CS/P 70	70	30	30	1500	M6	14	32
10090112	CS/P 70	70	30	30	1500	M8	18	32
10090113	CS/P 70	70	30	30	1500	M10	18	32

* sw = wrench width

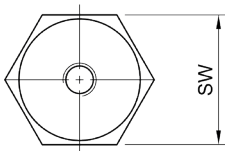
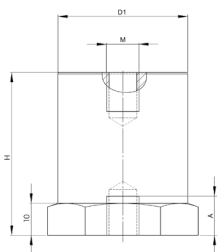
Type	Ripple current resistance [kV]	Discharge voltage [kV]	Max. tensile load [kN]	Max. bending load [kN]	Max. compression load [kN]	Max. tightening torque [Nm]
CS/P 30	8	20	9	4,5	40	10 - 24
CS/P 40	8	25	9	3	40	10 - 24
CS/P 50	10	35	9	2	40	10 - 24
CS/P 60	15	35	9	1,5	40	10 - 24

Spacing isolator Type CT/P

Made of Polyglas-polyester material, reinforced with fiberglass, colour red, self extinguishing.

Operating temperature: -40 °C up to +130 °C

Fire resistance class: UL94-V0



Art.- no.	Type	H [mm]	sw* [mm]	D1 [mm]	U _M [V]	M	A [mm]	Pac [pcs.]
10090118	CT/P 30	30	41	40	750	M8	8	45
10090119	CT/P 30	30	41	40	750	M10	9	45
10090120	CT/P 35	35	41	40	750	M8	9	36
10090121	CT/P 35	35	41	40	750	M10	9	36
10090122	CT/P 40	40	41	40	1000	M8	12	27
10090123	CT/P 40	40	41	40	1000	M10	12	27
10090123M12	CT/P 40	40	41	40	1000	M12	12	27
10090124	CT/P 45	45	41	40	1000	M8	13	27
10090125	CT/P 45	45	41	40	1000	M10	12	27
10090126	CT/P 50	50	41	40	1500	M8	12	27
10090127	CT/P 50	50	41	40	1500	M10	13	27
10090127M12	CT/P 50	50	41	40	1500	M12	11	27
10090129	CT/P 55	55	41	40	1500	M10	12	18
10090130	CT/P 60	60	41	40	1500	M8	18	18
10090131	CT/P 60	60	41	40	1500	M10	18	18
10090131M12	CT/P 60	60	41	40	1500	M12	18	18
10090133	CT/P 65	65	41	40	1500	M10	18	18
10090134	CT/P 70	70	41	40	1500	M8	18	18
10090135	CT/P 70	70	41	40	1500	M10	18	18

* sw = wrench width

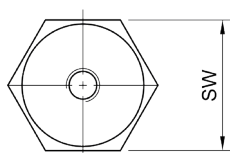
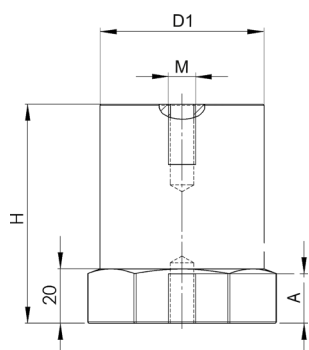
Type	Thread	Ripple current resistance [kV]	Discharge voltage [kV]	Max. tensile load [kN]	Max. bending load [kN]	Max. compression load [kN]	Max. tightening torque [Nm]
CT/P 30	M8	8	20	10	7,5	80	21,5
CT/P 30	M10	8	20	10	7,5	80	43,0
CT/P 40	M8	10	25	10	7	80	21,5
CT/P 40	M10	10	25	10	7	80	43,0
CT/P 40	M12	10	25	10	7	80	73,8
CT/P 50	M8	10	35	10	5	80	21,5
CT/P 50	M10	10	35	10	5	80	43,0
CT/P 50	M12	10	35	10	5	80	73,8
CT/P 60	M8	10	35	10	3,7	80	21,5
CT/P 60	M10	10	35	10	3,7	80	43,0
CT/P 60	M12	10	35	10	3,7	80	73,8

Spacing isolator Type CPE

Made of Polyglas-polyester material, reinforced with fiberglass, colour red, self extinguishing.

Operating temperature: -40 °C up to +130 °C

Fire resistance class: UL94-V0



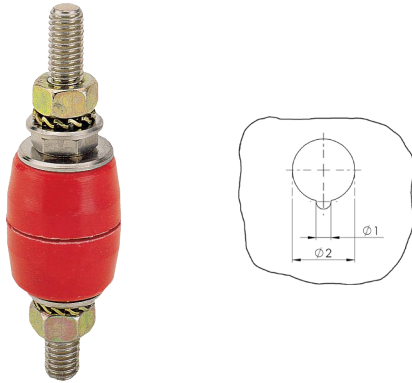
Art.- no.	Type	H [mm]	sw* [mm]	D1 [mm]	U _M [V]	M	A [mm]	Pac [pcs.]
10090140	CPE 40	40	60	60	1500	M10	11	12
10090141	CPE 40	40	60	60	1500	M12	11	12
10090142	CPE 40	40	60	60	1500	M16	12	12
10090143	CPE 60	60	60	60	3000	M10	18	10
10090144	CPE 60	60	60	60	3000	M12	18	10
10090145	CPE 60	60	60	60	3000	M16	19	10
10090146	CPE 80	80	60	60	5000	M10	19	8
10090147	CPE 80	80	60	60	5000	M12	19	8
10090148	CPE 80	80	60	60	5000	M16	23	8
10090149	CPE 100	100	60	60	8000	M10	19	5
10090150	CPE 100	100	60	60	8000	M12	19	5
10090151	CPE 100	100	60	60	8000	M16	23	5

* sw = wrench width

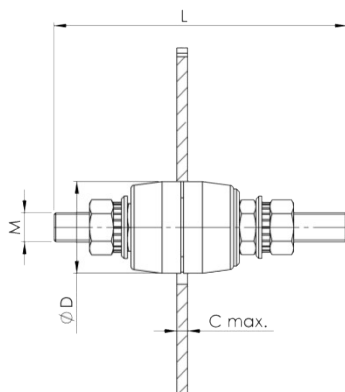
Type	Ripple current resistance [kV]	Discharge voltage [kV]	Max. tensile load [kN]	Max. bending load [kN]	Max. compression load [kN]	Max. tightening torque [Nm]
CPE 40	10	25	11	7	100	24 - 50
CPE 60	20	50	15	5	100	24 - 50
CPE 80	25	50	23	9	120	24 - 55
CPE 100	30	50	30	15	150	24 - 55

Passing isolator Type PI/P

Polyester material, red

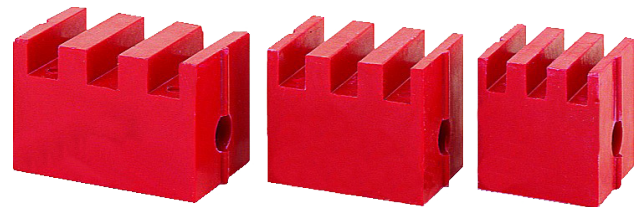


Art.- no.	Type	L [mm]	Ø D [mm]	U _M [V]	M	Pac [pcs.]
10090166	PI/P 4	50	15	600	M4	60
10090167	PI/P 6	65	22	1000	M6	40
10090168	PI/P 8	80	25	1000	M8	30
10090169	PI/P 10	95	30	1000	M10	20
10090170	PI/P 12	105	35	1000	M12	15
10090171	PI/P 16	135	43	2000	M16	10
10090172	PI/P 20	155	54	2000	M20	5



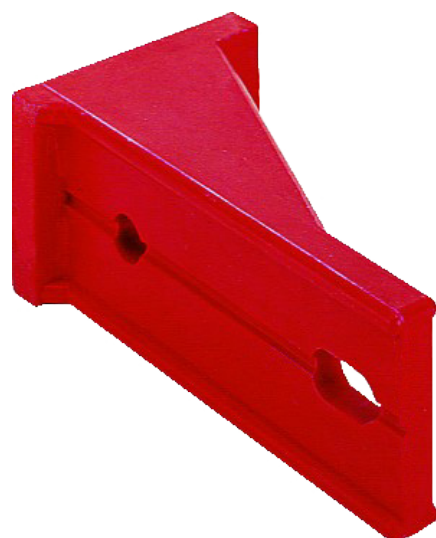
Art.- no.	Type	Ø 1 [mm]	Ø 2 [mm]	C _{max} [mm]	Max. tightening torque [Nm]
10090166	PI/P 4	2,0	8,5	2,0	3,0
10090167	PI/P 6	3,0	12,0	3,0	5,0
10090168	PI/P 8	3,0	15,0	4,0	10,0
10090169	PI/P 10	4,0	17,0	4,0	16,0
10090170	PI/P 12	4,5	20,0	4,0	18,0
10090171	PI/P 16	5,0	25,0	8,0	22,0
10090172	PI/P 20	5,5	31,0	10,0	26,0

Vertical bus bar support Type PSB

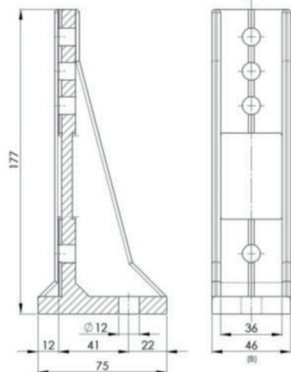


Easy to assemble vertical bus bar support in polyester material with reinforced fibre glass, red, suitable for bus bars with dimensions between 40 x 60 mm and 120 x 10 mm. Due to its construction characteristics this bus bar support is suitable for special isolating and mechanical resistance requirements. For the mounting of a bus bar support the following parts are required:

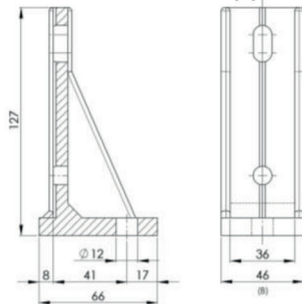
1 or 2 lateral supports, two mounting screws and the necessary block number to clamp into place the required bus bars.



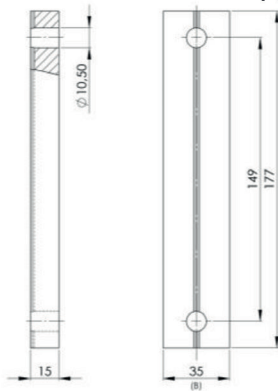
PSB/1 – Horizontal / lateral support



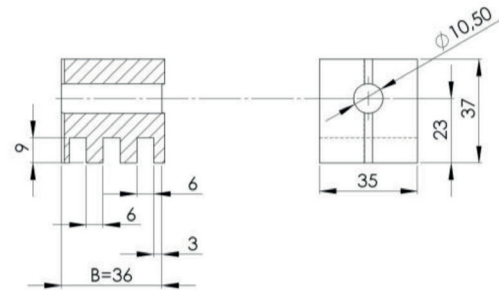
PSB/2 - Horizontal / lateral support



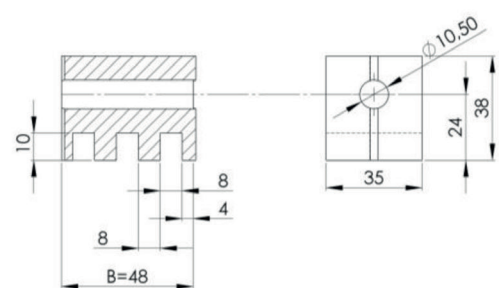
PSB/120 - Horizontal / lateral support



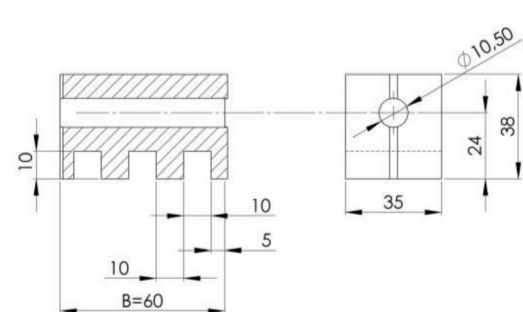
PSB/6 - Block for 6 mm bus bar



PSB/8 - Block for 8 mm bus bar



PSB/10 - Block for 10 mm bus bar



Lateral support	Blocks	Bus bars			Art.- no.
PSB/1	PSB 6	60 x 6	80 x 6	100 x 6	
	PSB 8	60 x 8	80 x 8	100 x 8	10090175*
	PSB 10	60 x 10	80 x 10	100 x 10	
PSB/2	PSB 6	40 x 6	50 x 6		
	PSB 8	40 x 8	50 x 8		10090176*
	PSB 10	40 x 10	50 x 10		
PSB/120	PSB 6	120 x 6			
	PSB 8	120 x 8			10090177*
	PSB 10	120 x 10			

Elastic deviation of the teeth with signs of rupture			Pac [pcs.]	Art.- no.
PSB/6	kg	950	36	10090178*
PSB/8	kg	1130	30	10090179*
PSB/10	kg	1375	24	10090180*

*=storage parts

Operating voltage: 1000 V

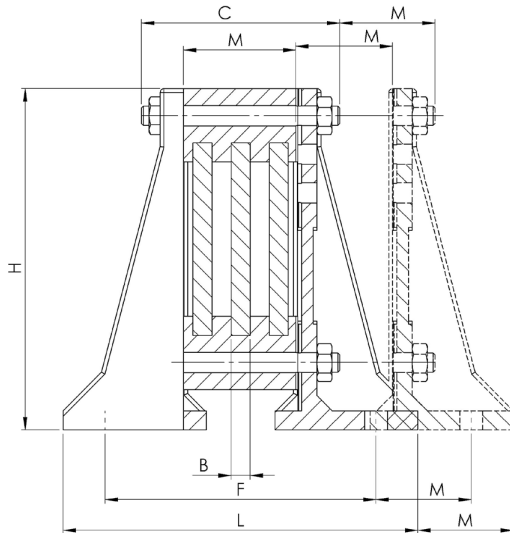
Operating temperature: $-40^{\circ}\text{C} \leq q \leq +130^{\circ}\text{C}$

Fire resistance: class: UL94-V0

Vertical bus bar support Type PSB

Illustration 1

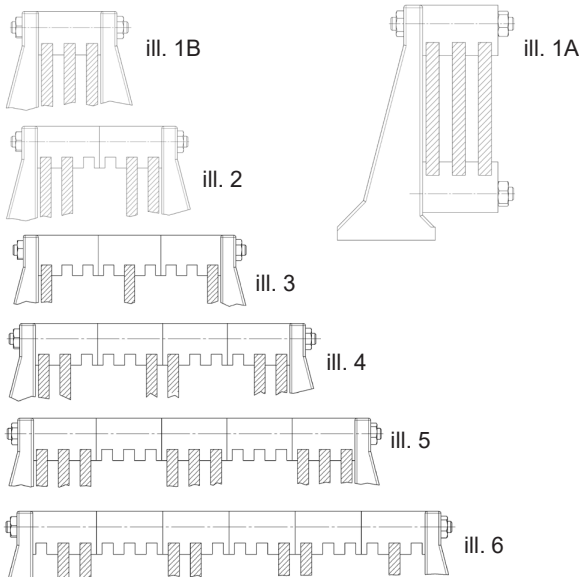
Example of an unipolar bus bar support with 3 parallel bus bar support holders



A = Number of blocks
B = Bus bar thickness
C = Length of mounting screw

L = External space requirement
H = Height
M = Module

Illustrations 1 – 2 – 3 – 4 – 5 – 6
show some of the possible variations.
Illustrations up to max. 10 x 100 mm



H. With lateral support PSB/1 = 177 mm
PSB/2 = 127 mm

M. With block PSB/6 = 36 mm
PSB/8 = 48 mm
PSB/10 = 60 mm

Art.-no.	Pac (pcs.)	Art-group	H (mm)	B (mm)	U _M (V)	For thread
10090175	96	PSB/1	177	46	1000	M10
10090176	144	PSB/2	127	46	1000	M10
10090177	244	PSB/120	177	35	1000	M10
10090178	36	PSB/6	37	36	1000	M10
10090179	30	PSB/8	38	48	1000	M10
10090180	24	PSB/10	38	60	1000	M10

Art.-no.	Art-group	ill.	H (mm)	L (mm)	U _M (V)	For thread	B (mm)
10090187	PSB	1A	177		1000	M10	6
10090188	PSB	1A	177		1000	M10	8
10090189	PSB	1A	177		1000	M10	10
10090190	PSB	1B	177	162	1000	M10	6
10090191	PSB	1B	177	174	1000	M10	8
10090192	PSB	1B	177	186	1000	M10	10
10090193	PSB	2	177	198	1000	M10	6
10090194	PSB	2	177	222	1000	M10	8
10090195	PSB	2	177	246	1000	M10	10
10090196	PSB	3	177	234	1000	M10	6
10090197	PSB	3	177	270	1000	M10	8
10090198	PSB	3	177	306	1000	M10	10
10090199	PSB	4	177	270	1000	M10	6
10090200	PSB	4	177	318	1000	M10	8
10090201	PSB	4	177	366	1000	M10	10
10090202	PSB	5	177	306	1000	M10	6
10090203	PSB	5	177	366	1000	M10	8
10090204	PSB	5	177	426	1000	M10	10
10090205	PSB	6	177	342	1000	M10	6
10090206	PSB	6	177	414	1000	M10	8
10090207	PSB	6	177	486	1000	M10	10
10090211	PSB	1A	127		1000	M10	6
10090212	PSB	1A	127		1000	M10	8
10090213	PSB	1A	127		1000	M10	10
10090214	PSB	1B	127	152	1000	M10	6
10090215	PSB	1B	127	164	1000	M10	8
10090216	PSB	1B	127	176	1000	M10	10
10090217	PSB	2	127	188	1000	M10	6
10090218	PSB	2	127	212	1000	M10	8
10090219	PSB	2	127	236	1000	M10	10
10090220	PSB	3	127	224	1000	M10	6
10090221	PSB	3	127	260	1000	M10	8
10090222	PSB	3	127	296	1000	M10	10
10090223	PSB	4	127	260	1000	M10	6
10090224	PSB	4	127	308	1000	M10	8
10090225	PSB	4	127	356	1000	M10	10
10090226	PSB	5	127	296	1000	M10	6
10090227	PSB	5	127	356	1000	M10	8
10090228	PSB	5	127	416	1000	M10	10
10090229	PSB	6	127	332	1000	M10	6
10090230	PSB	6	127	404	1000	M10	8
10090231	PSB	6	127	476	1000	M10	10

The above mentioned data are only for information purposes and are without a guarantee. The customer is required to check from time to time if the product is suitable for the required application.

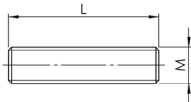
Upon request milled bus bar supports and other from GPO-3 extracted details can be supplied.
In this instance drawings are to be submitted.

Type-tested according to IEC 61439-2:2011-08, EN 61439-2:2012-06 with practically relevant fixing points and supporting widths.

Mounting material / Threaded bolts

Hexagon spacer in brass

GB Threaded bolt



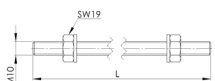
Art.-no.	Pac (pcs.)	Art-group	For thread	L (mm)
10090272	100	GB	M4	15
10090273	100	GB	M4	16
10090274	100	GB	M4	18
10090275	100	GB	M4	20
10090276	100	GB	M5	20
10090277	100	GB	M5	22
10090278	100	GB	M5	27
10090279	100	GB	M5	30
10090280	100	GB	M6	18
10090281	100	GB	M6	20
10090282	100	GB	M6	25
10090283	100	GB	M6	27
10090284	100	GB	M6	33
10090285	100	GB	M6	35
10090286	100	GB	M8	20
10090287	100	GB	M8	23
10090288	100	GB	M8	25
10090289	100	GB	M8	30
10090290	100	GB	M8	33
10090291	100	GB	M8	35
10090292	100	GB	M8	38
10090293	100	GB	M8	50
10090294	100	GB	M10	30
10090295	100	GB	M10	35
10090296	100	GB	M10	38
10090297	100	GB	M10	40
10090298	100	GB	M10	45
10090299	100	GB	M10	50
10090300	100	GB	M12	30
10090301	100	GB	M12	50
10090326	100	GB	M16	40
10090327	100	GB	M16	60

Hexagon screw M10 with nut and washer



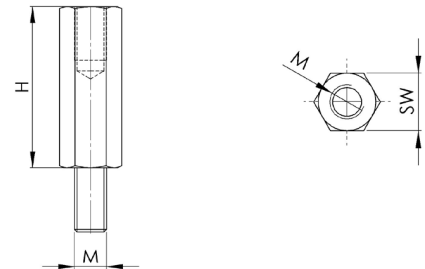
Art.-no.	Pac (pcs.)	Art-group	For thread	L (mm)
10090309	100	SKS	M10	60
10090310	100	SKS	M10	80
10090311	100	SKS	M10	70
10090312	100	SKS	M10	90
10090313	100	SKS	M10	100
10090314	100	SKS	M10	110
10090315	100	SKS	M10	140
10090316	100	SKS	M10	150
10090317	100	SKS	M10	160

Threaded bolt M10 complete with nut and washer



Art.-no.	Pac (pcs.)	Art-group	For thread	L (mm)
10090318	100	GB	M10	194
10090319	100	GB	M10	230
10090320	100	GB	M10	242
10090317	100	GB	M10	270
10090317	100	GB	M10	290
10090317	100	GB	M10	350
10090317	100	GB	M10	410
10090317	100	GB	M10	1000

SK



Art.-no.	Pac (pcs.)	For thread	H (mm)	sw* (mm)
10090330	100	M4	15	7
10090331	100	M4	20	7
10090332	100	M4	25	7
10090333	100	M4	30	7
10090334	100	M4	50	7
10090335	100	M4	70	7
10090336	100	M5	90	7
10090337	100	M5	15	8
10090338	100	M5	20	8
10090339	100	M5	25	8
10090340	100	M5	30	8
10090341	100	M5	50	8
10090342	100	M5	70	8
10090343	100	M5	90	8
10090344	100	M6	15	10
10090345	100	M6	20	10
10090346	100	M6	25	10
10090347	100	M6	30	10
10090348	100	M6	50	10
10090349	100	M6	70	10
10090350	100	M6	90	10
10090351	100	M8	15	13
10090352	100	M8	20	13
10090353	100	M8	25	13
10090354	100	M8	30	13
10090355	100	M8	50	13
10090356	100	M8	70	13
10090357	100	M8	90	13

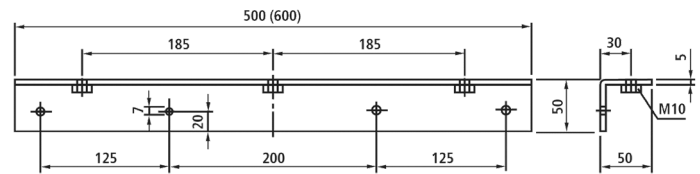
*sw = wrench width

Bus bar support L



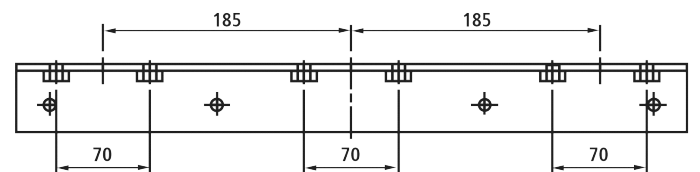
Support L185/1

Art.-no. 10090392



Support L185/2 (2 x M10 each phase)

Art.-no. 10090395



Bus bar supports in general

Characteristics of the raw material (GRP-profile, hot hardened)

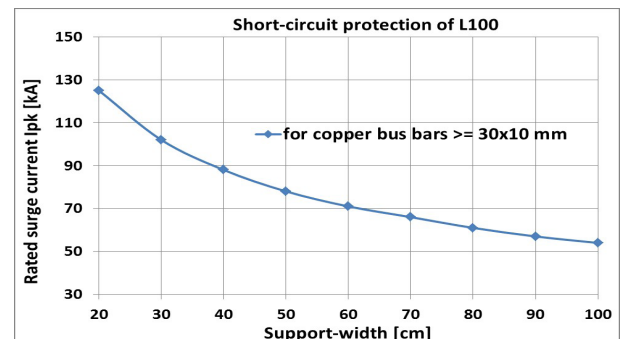
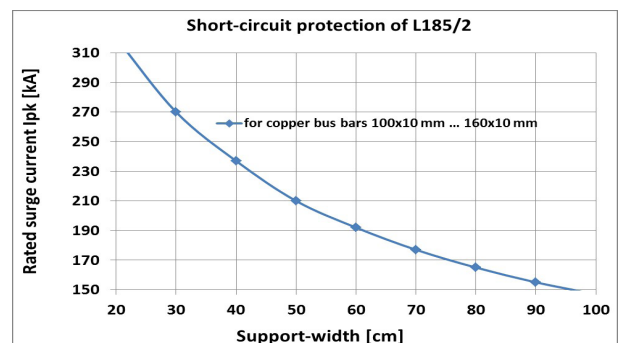
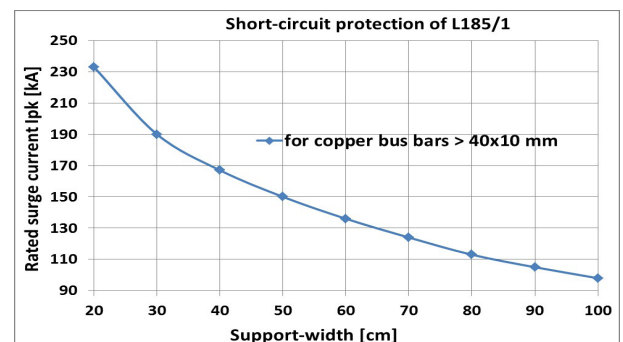
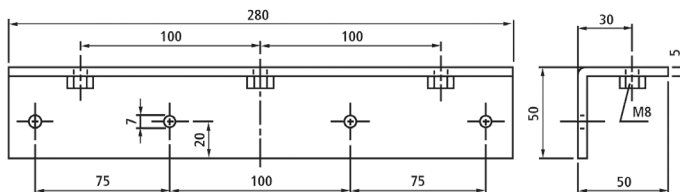
- Temperature range -40°C bis +130°C
- Operating AC voltage 1000 V
- Continuous current
 - L/Z 280 mm 2500 A
 - L/Z 500 mm 4000 A
- Phase clearance
 - L/Z 280 mm 100 mm
 - L/Z 500 mm 185 mm
- Form stability DIN 53462 °C > 200
- Natural density DIN 53479 gr/cm² ca. 1,7
- Fire resistance UL 94 HB
- Discharge resistance DIN 53481 kV/cm 10
- Resistance voltage tracking DIN IEC 112 CTI 600
- Specific flow resistance DIN 53482 Ohm x cm 1012

All bus bars are type tested acc. to VDE 0660, part 500

- Torque for M10: approx. 4.5 Nm
- Copper bus bar 10 mm thick made of copper F30 not nickel-plated

Support L100

Art.-no. 10090391



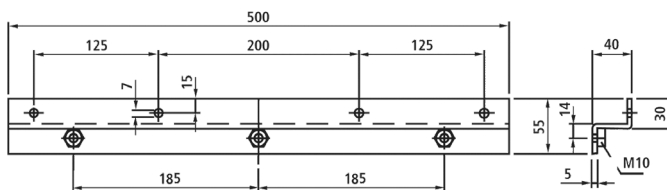
Type	Art.- no.	Pac [pcs.]	Art.- group	Length [mm]	Profile [mm]	Bore [mm]	Thread [mm]	Color
L100	10090391	1	L	280	50/50	7	M8	grey
L185/1	10090392	1	L	500	50/50	7	M10	grey
L185/2	10090395	1	L	500	50/50	7	M10	grey

Bus bar support Z



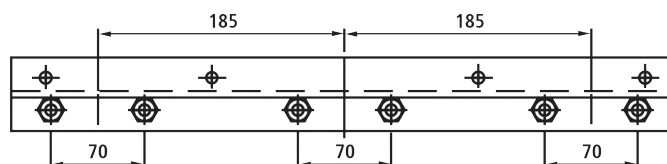
Support Z185/1

Art.-no. 10090382



Support Z185/2 (2 x M10 each phase)

Art.-no. 10090385



Bus bar supports in general

Characteristics of the raw material (GRP-profile, hot hardened)

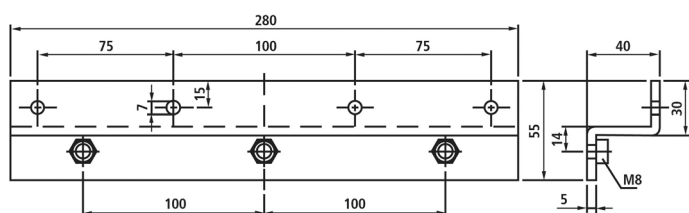
- Temperature range -40°C bis +130°C
- Operating AC voltage 1000 V
- Continuous current
 - L/Z 280 mm 2500 A
 - L/Z 500 mm 4000 A
- Phase clearance
 - L/Z 280 mm 100 mm
 - L/Z 500 mm 185 mm
- Form stability DIN 53462 °C > 200
- Natural density DIN 53479 gr/cm² ca. 1,7
- Fire resistance UL 94 HB
- Discharge resistance DIN 53481 kV/cm 10
- Resistance voltage tracking DIN IEC 112 CTI 600
- Specific flow resistance DIN 53482 Ohm x cm 1012

All bus bars are type tested acc. to VDE 0660, part 500

- Torque for M10: approx. 4.5 Nm
- Copper bus bar 10 mm thick made of copper F30 not nickel-plated

Support Z100

Art.-no. 10090381



Type	Art.- no.	Pac [pcs.]	Art.- group	Length [mm]	Profile [mm]	Bore [mm]	Thread [mm]	Color
Z100	10090381	1	Z	280	30/40/30	7	M8	grey
Z185/1	10090382	1	Z	500	30/40/30	7	M10	grey
Z185/2	10090395	1	Z	500	30/40/30	7	M10	grey

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VAT-No.: DE 815 535 316

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