

RCP IP 68 Resin Busbar Trunking

Cat.Nos :

see relative catalog for detailed reference tables.



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1. USE

RCP is a busbar range suitable for high-power distribution and, thanks to its epoxy resin casing, guarantees an IP 68 protection degree. RCP distributes high-power electricity efficiently and safely. The epoxy resin insulates the conductors and provides impact resistance certified up to IK 10 and IP 68 protection rating.

The conductors separated and agglomerated in the resin, ensure double electrical insulation. The resin provides good heat dissipation, improving energy efficiency, reducing losses, and minimizing voltage drop. Additionally, the resin ensures structural robustness, allowing the system to withstand high short-circuit currents.

This product is suitable indoor and outdoor installation. It is recommended for installations in environments with critical conditions, such as saline atmospheres, high humidity, and corrosive environments (outdoor, industrial plants, petrochemical plants, chemical plants and in areas with risk of flooding).

2. RANGE

RCP resin busbar range is available for aluminium conductors from 630A to 5000A, and copper conductors from 800A to 6300A.

Available rating		
Rating (A)	Aluminium	Copper
630	S	-
800		S
1000		
1250		
1600		
2000		
2500	D	D
3200		
4000		
5000	*	*
6300	-	

*Combination of 2 parallel busbar lines:
2 x 2500A for the aluminium version and 2 x 3200A for the copper version.

The range is designed to trunk several bars into a single structure. Three combinations of conductors are available: 3 conductors, 4 conductors (standard version), and 5 conductors.

It is possible to order extra earth 3 conductors, extra earth 4 conductors, extra earth 5 conductors.

Single bar	Double bar	N° conductors
60280150R-3W	60390154R-3W	3 Conductors
60280150R	60390154R	4 Conductors
60240150R	60360154R	5 Conductors

3. TECHNICAL CHARACTERISTICS

■ 3.1 Mechanical characteristics

Protection against solid bodies/liquids: IP 68

RCP range has been designed and manufactured with a strong casing. The degree protection against impacts is IK 10.

■ 3.2 Material characteristics

All versions are available in grey (RAL N.A). They are fully encapsulated with epoxy resin.

The conductors are insulated in polyester film.

■ 3.3 Electrical characteristics

See tables from page 2 to 7.

■ 3.4 Climate characteristics

Correction factors for medium ambient temperatures other than 40°C (kt)								
Ambient temperature	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
Kt factor	1,15	1,12	1,08	1,05	1,025	1	0,975	0,95

Ambient temperature $\geq 40^{\circ}\text{C}$: Use the coefficient to limit the current and prevent the product from overheating to levels dangerous for the insulators.

Ambient temperature $< 40^{\circ}\text{C}$: The overload does not comply with the «delta T» regulatory limits, but it can be sustained indefinitely without compromising the product's functionality.

Operating ambient temperature	-40°C/+50°C
Storage ambient temperature	See installation and user manual
UV resistance	Yes
Type of installation	Indoor and outdoor

3. TECHNICAL CHARACTERISTICS (continued)**■ 3.5 Corrosive class**

Chemicals	Resistance	Chemicals	Resistance
Boric acid	(+)	Glycerol	(+)
Hydrochloric acid 10%	(-)	Greases and lubricating oils	(+)
Citric acid	(+)	Greases and oils	(+)
Lactic acid	(+)	Vegetable oils	(+)
Ethly alcohol	(0)	Aliphatic hydrocarbons	(+)
Beer	(+)	Aromatic hydrocarbons	(-)
Acetone	(-)	Carbon tetrachloride	(-)
Calcium chloride	(+)	Ammonia	(+)
Combustible liquid	(+)	Milk	(+)
Water	(+)	Sodium Hydroxide 10%	(+)
Esters	(+) / (0)	Soap	(+)
Ethers	(-)	Sugar	(+)
Formalin 30% - 40%	(+)	Urine	(+)

(+) Cast Resin is resistant to the chemical agent

(0) Cast Resin is partially resistant to the chemical agent

(-) Cast Resin is not resistant to the chemical agent

Specific test of prolonged immersion in different chemical agents at ambient temperature

Chemical agent	After 15 days	After 30 days
10% Hydrochloric Acid Solution	(-)	(-)
10% NaOH Solution	(+)	(+) / (0)
Gasoline	(+)	(+)
Fuel (Diesel)	(+)	(+)
Antifreeze	(+) / (0)	(+) / (0)
DBE (Di Basic Esther)	(0)	(0) / (-)

(+) Cast Resin is resistant to the chemical agent

(0) Cast Resin is partially resistant to the chemical agent

(-) Cast Resin is not resistant to the chemical agent

■ 3.6 Technical information

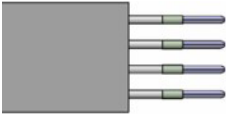
RCP-3C Aluminium											
		Single bar						Double bar			2x Double bars
Rated current	In [A]	630	800	1000	1250	1600	2000	2500	3200	4000	5000
Overall dimension of the busbars	L x H [mm]	75x115	75x150	75x150	75x160	75x200	75x245	75x300	75x380	75x470	2x (75x300)
Overall dimension of the junction	L x H [mm]	140 x180	140 x190	140 x190	140 x190	140 x230	140 x275	140 x370	140 x450	140 x500	2x (140x370)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA]rms	20	36	36	50	50	60	60	100	100	100
Peak current	Ipk [kA]	40	76	76	105	105	132	132	220	220	220
Allowable specific energy for three-phase fault	I ² t [MA ² s]	400	1296	1296	2500	2500	3600	3600	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA]rms	-	-	-	-	-	-	-	-	-	-

3. TECHNICAL CHARACTERISTICS (continued)

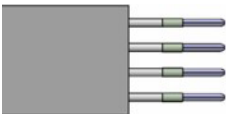
RCP-3C Aluminium											
		Single bar						Double bar			2x Double bars
Rated current	In [A]	630	800	1000	1250	1600	2000	2500	3200	4000	5000
Peak current of the neutral bar	I _{pk} [kA]	-	-	-	-	-	-	-	-	-	-
Rated short-time current of the protective circuit (1 s)	ICW [kA] _{rms}	-	-	-	-	-	-	-	-	-	-
Peak current of the protective circuit	I _{pk} [kA]	-	-	-	-	-	-	-	-	-	-
Average phase resistance at 20°C	R ₂₀ [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,031	0,037	0,030	0,023	0,017	0,010	0,007
Average phase impedance	Z [mΩ/m]	0,098	0,078	0,078	0,058	0,051	0,040	0,033	0,024	0,017	0,014
Average phase resistance at thermal conditions	R [mΩ/m]	0,095	0,073	0,077	0,061	0,045	0,034	0,034	0,024	0,019	0,017
Average phase impedance at thermal conditions	Z [mΩ/m]	0,110	0,088	0,092	0,068	0,058	0,045	0,041	0,029	0,021	0,018
Average Neutral resistance	R ₂₀ [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth resistance (FE)	R ₂₀ [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth reactance (FE)	X [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average Resistance of the protective bar	R _{PE} [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the protective bar	X _{PE} [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average resistance of the fault loop	R _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the fault loop	X _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average impedance of the fault loop	Z _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average resistance phase - N	R _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average reactance phase - N	X _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average impedance phase - N	Z _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero sequence short circuit average resistance phase PE	R _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero sequence short circuit average reactance phase PE	X _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero sequence short circuit average impedance phase PE	Z _o [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Voltage drop with load at the end of the line (b=1) ΔV [V(m*A)] 10 ⁻⁶	cosφ = 0,70	183,2	148,7	154,6	112,3	99,8	78,6	69,1	49,7	34,9	29,0
	cosφ = 0,75	186,4	150,5	156,8	114,8	100,3	78,8	69,9	50,1	35,6	29,8
	cosφ = 0,80	188,7	151,6	158,3	116,8	100,2	78,6	70,3	50,4	36,2	30,5
	cosφ = 0,85	190,0	151,7	158,8	118,1	99,4	77,7	70,3	50,3	36,5	31,1
	cosφ = 0,90	189,5	150,2	157,8	118,5	97,4	76,0	69,6	49,6	36,6	31,4
	cosφ = 0,95	186,0	146,0	154,0	117,2	93,4	72,5	67,6	48,0	36,0	31,4
	cosφ = 1,00	164,5	125,8	134,2	105,7	77,2	59,2	58,1	40,9	32,2	29,0
Weight	p [kg/m]	23,1	27,7	27,7	29,1	36,2	44,3	61,7	77,7	94,0	2x61,7
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class	P [W/m]	B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current		113	139	232	286	342	410	628	725	893	1257
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

* on request: conductor bars sleeved with Class F, DMD insulation sheet.

3. TECHNICAL CHARACTERISTICS (continued)

RCP-4C (3L+N) Aluminium											
		Single bar					Double bar				2x Double bars
		630	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated current	In [A]										
Overall dimension of the busbars	L x H [mm]	95x115	95x150	95x150	95x160	95x200	95x245	95x300	95x380	95x470	2x (95x300)
Overall dimension of the junction	L x H [mm]	160x180	160x190	160x190	160x190	160x230	160x275	160x370	160x450	160x500	2x (160x370)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA] rms	20	36	36	50	50	60	60	100	100	100
Peak current	Ipk [kA]	40	76	76	105	105	132	132	220	220	220
Allowable specific energy for three-phase fault	I ² t [MA ² s]	400	1296	1296	2500	2500	3600	3600	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA] rms	20	36	36	50	50	60	60	100	100	100
Peak current of the neutral bar	Ipk [kA]	37	70	70	98	98	123	123	205	205	205
Rated short-time current of the protective circuit (1 s)	ICW [kA] rms	-	-	-	-	-	-	-	-	-	-
Peak current of the protective circuit	Ipk [kA]	-	-	-	-	-	-	-	-	-	-
Average phase resistance at 20°C	R20 [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,031	0,037	0,030	0,023	0,017	0,010	0,007
Average phase impedance	Z [mΩ/m]	0,098	0,078	0,078	0,058	0,051	0,040	0,033	0,024	0,017	0,014
Average phase resistance at thermal conditions	R [mΩ/m]	0,095	0,073	0,077	0,061	0,045	0,034	0,034	0,024	0,019	0,017
Average phase impedance at thermal conditions	Z [mΩ/m]	0,110	0,088	0,092	0,068	0,058	0,045	0,041	0,029	0,021	0,018
Average Neutral resistance	R20 [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average functional Earth resistance (FE)	R20 [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth reactance (FE)	X [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average Resistance of the protective bar	RPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the protective bar	XPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average resistance of the fault loop	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the fault loop	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average impedance of the fault loop	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average resistance phase - N	Ro [mΩ/m]	0,109	0,081	0,081	0,065	0,046	0,036	0,032	0,023	0,018	0,016
Zero-sequence short-circuit average reactance phase - N	Xo [mΩ/m]	0,073	0,065	0,065	0,041	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase - N	Zo [mΩ/m]	0,131	0,104	0,104	0,077	0,068	0,054	0,045	0,032	0,022	0,019
Zero-sequence short circuit average resistance phase PE	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short circuit average reactance phase PE	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short circuit average impedance phase PE	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-

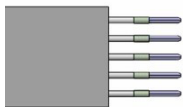
3. TECHNICAL CHARACTERISTICS (continued)

RCP-4C (3L+N) Aluminium											
		Single bar					Double bar				2x Double bars
Rated current	In [A]	630	800	1000	1250	1600	2000	2500	3200	4000	5000
Voltage drop with load at the end of the line (b=1) $\Delta V [V(m \cdot A)] 10^{-6}$	$\cos\phi = 0,70$	183,2	148,7	154,6	112,3	99,8	78,6	69,1	49,7	34,9	29,0
	$\cos\phi = 0,75$	186,4	150,5	156,8	114,8	100,3	78,8	69,9	50,1	35,6	29,8
	$\cos\phi = 0,80$	188,7	151,6	158,3	116,8	100,2	78,6	70,3	50,4	36,2	30,5
	$\cos\phi = 0,85$	190,0	151,7	158,8	118,1	99,4	77,7	70,3	50,3	36,5	31,1
	$\cos\phi = 0,90$	189,5	150,2	157,8	118,5	97,4	76,0	69,6	49,6	36,6	31,4
	$\cos\phi = 0,95$	186,0	146,0	154,0	117,2	93,4	72,5	67,6	48,0	36,0	31,4
	$\cos\phi = 1,00$	164,5	125,8	134,2	105,7	77,2	59,2	58,1	40,9	32,2	29,0
Weight	p [kg/m]	29,2	35,4	35,4	37,5	46,9	57,6	72,7	91,2	110,3	2x72,7
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class	P [W/m]	B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current		113	139	232	286	342	410	628	725	893	1257
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

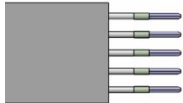
* on request: conductor bars sleeved with Class F, DMD insulation sheet.

Available standard versions :
4P - (3P+N)

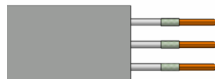
3. TECHNICAL CHARACTERISTICS (continued)

RCP-5C (3L+N+Pe) Aluminium											
		Single bar						Double bars			(2 x 2500) Double bars
		630	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated current	In [A]										
Overall dimension of the busbars	L x H [mm]	115x115	115x150	115x150	115x160	115x200	115x245	115x300	115x380	115x470	2x (115x300)
Overall dimension of the junction	L x H [mm]	180x180	180x190	180x190	180x190	180x230	180x275	180x370	180x450	180x500	2x (180x370)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA]rms	20	36	36	50	50	60	60	100	100	100
Peak current	Ipk [kA]	40	76	76	105	105	132	132	220	220	220
Allowable specific energy for three-phase fault	I ² t [MA ² s]	400	1296	1296	2500	2500	3600	3600	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA]rms	20	36	36	50	50	60	60	100	100	100
Peak current of the neutral bar	Ipk [kA]	37	70	70	98	98	123	123	205	205	205
Rated short-time current of the protective circuit (1 s)	ICW [kA]rms	12	22	22	30	30	36	36	60	60	60
Peak current of the protective circuit	Ipk [kA]	24	45	45	63	63	76	76	132	132	132
Average phase resistance at 20°C	R20 [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,031	0,037	0,030	0,023	0,017	0,010	0,007
Average phase impedance	Z [mΩ/m]	0,098	0,078	0,078	0,058	0,051	0,040	0,033	0,024	0,017	0,014
Average phase resistance at thermal conditions	R [mΩ/m]	0,095	0,073	0,077	0,061	0,045	0,034	0,034	0,024	0,019	0,017
Average phase impedance at thermal conditions	Z [mΩ/m]	0,110	0,088	0,092	0,068	0,058	0,045	0,041	0,029	0,021	0,018
Average Neutral resistance	R20 [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average functional Earth resistance (FE)	R20 [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average functional Earth reactance (FE)	X [mΩ/m]	0,055	0,049	0,049	0,031	0,037	0,030	0,023	0,017	0,010	0,007
Average Resistance of the protective bar	RPE [mΩ/m]	0,082	0,061	0,061	0,049	0,035	0,027	0,024	0,017	0,013	0,012
Average reactance of the protective bar	XPE [mΩ/m]	0,055	0,049	0,049	0,031	0,037	0,030	0,023	0,017	0,010	0,007
Average resistance of the fault loop	Ro [mΩ/m]	0,163	0,121	0,121	0,097	0,069	0,054	0,049	0,035	0,027	0,024
Average reactance of the fault loop	Xo [mΩ/m]	0,11	0,10	0,10	0,06	0,07	0,06	0,05	0,03	0,02	0,01
Average impedance of the fault loop	Zo [mΩ/m]	0,197	0,156	0,156	0,115	0,101	0,081	0,067	0,049	0,034	0,028
Zero-sequence short-circuit average resistance phase - N	Ro [mΩ/m]	0,109	0,081	0,081	0,065	0,046	0,036	0,032	0,023	0,018	0,016
Zero-sequence short-circuit average reactance phase - N	Xo [mΩ/m]	0,073	0,065	0,065	0,041	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase - N	Zo [mΩ/m]	0,131	0,104	0,104	0,077	0,068	0,054	0,045	0,032	0,022	0,019
Zero-sequence short-circuit average resistance phase PE	Ro [mΩ/m]	0,109	0,081	0,081	0,065	0,046	0,036	0,032	0,023	0,018	0,016
Zero-sequence short-circuit average reactance phase PE	Xo [mΩ/m]	0,073	0,065	0,065	0,041	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase PE	Zo [mΩ/m]	0,131	0,104	0,104	0,077	0,068	0,054	0,045	0,032	0,022	0,019

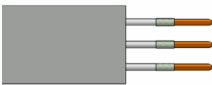
3. TECHNICAL CHARACTERISTICS (continued)

RCP-SC (3L+N+Pe) Aluminium											
		Single bar						Double bars			(2 x 2500) Double bars
Rated current	In [A]	630	800	1000	1250	1600	2000	2500	3200	4000	5000
Voltage drop with load at the end of the line (b=1) $\Delta V [V/(m \cdot A)] 10^{-6}$	$\cos\phi = 0,70$	183,2	148,7	154,6	112,3	99,8	78,6	69,1	49,7	34,9	29,0
	$\cos\phi = 0,75$	186,4	150,5	156,8	114,8	100,3	78,8	69,9	50,1	35,6	29,8
	$\cos\phi = 0,80$	188,7	151,6	158,3	116,8	100,2	78,6	70,3	50,4	36,2	30,5
	$\cos\phi = 0,85$	190,0	151,7	158,8	118,1	99,4	77,7	70,3	50,3	36,5	31,1
	$\cos\phi = 0,90$	189,5	150,2	157,8	118,5	97,4	76,0	69,6	49,6	36,6	31,4
	$\cos\phi = 0,95$	186,0	146,0	154,0	117,2	93,4	72,5	67,6	48,0	36,0	31,4
	$\cos\phi = 1,00$	164,5	125,8	134,2	105,7	77,2	59,2	58,1	40,9	32,2	29,0
Weight	p [kg/m]	34,2	41,8	41,8	44,4	55,9	68,6	91,3	115,8	141,0	2x91,3
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class	P [W/m]	B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current		113	139	232	286	342	410	628	725	893	1257
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

* on request: conductor bars sleeved with Class F, DMD insulation sheet

RCP-3C Copper											
		Single bar						Double bar			(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Overall dimension of the busbars	L x H [mm]	75x115	75x150	75x150	75x190	75x200	75x240	75x360	75x380	75x460	2x (75x360)
Overall dimension of the junction	L x H [mm]	140x180	140x190	140x190	140x220	140x230	140x270	140x430	140x450	140x490	2x (140x430)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA] rms	40	40	40	65	65	65	100	100	100	100
Peak current	IpK [kA]	84	84	84	143	143	143	220	220	220	220
Allowable specific energy for three-phase fault	I²t [MA²s]	1600	1600	1600	4225	4225	4225	10000	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA] rms	-	-	-	-	-	-	-	-	-	-
Peak current of the neutral bar	IpK [kA]	-	-	-	-	-	-	-	-	-	-
Rated short-time current of the protective circuit (1 s)	ICW [kA] rms	-	-	-	-	-	-	-	-	-	-
Peak current of the protective circuit	IpK [kA]	-	-	-	-	-	-	-	-	-	-
Average phase resistance at 20°C	R20 [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,045	0,037	0,030	0,023	0,017	0,010	0,007
Average phase impedance	Z [mΩ/m]	0,068	0,058	0,058	0,050	0,041	0,033	0,026	0,019	0,012	0,009
Average phase resistance at thermal conditions	R [mΩ/m]	0,046	0,037	0,039	0,027	0,024	0,018	0,014	0,012	0,009	0,008
Average phase impedance at thermal conditions	Z [mΩ/m]	0,071	0,062	0,062	0,052	0,044	0,035	0,027	0,021	0,014	0,010

3. TECHNICAL CHARACTERISTICS (continued)

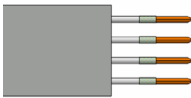
RCP-3C Copper											
		Single bar					Double bar				(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Average Neutral resistance	R20 [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth resistance (FE)	R20 [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth reactance (FE)	X [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average Resistance of the protective bar	RPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the protective bar	XPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average resistance of the fault loop	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the fault loop	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average impedance of the fault loop	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average resistance phase - N	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average reactance phase - N	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average impedance phase - N	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average resistance phase PE	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average reactance phase PE	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average impedance phase PE	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Voltage drop with load at the end of the line (b=1) $\Delta V [V/(m \cdot A)] 10^{-6}$	$\cos\phi = 0,70$	123,4	105,7	107,6	88,4	74,4	59,0	45,4	35,6	23,5	17,9
	$\cos\phi = 0,75$	122,4	104,5	106,5	86,7	73,0	57,8	44,5	35,1	23,3	17,9
	$\cos\phi = 0,80$	120,5	102,5	104,7	84,2	71,1	56,2	43,2	34,4	23,1	17,8
	$\cos\phi = 0,85$	117,4	99,5	101,8	80,8	68,5	54,0	41,5	33,3	22,6	17,6
	$\cos\phi = 0,90$	112,7	95,0	97,5	76,1	64,7	50,8	39,1	31,6	21,8	17,1
	$\cos\phi = 0,95$	104,9	87,7	90,3	68,8	58,8	45,9	35,4	29,0	20,4	16,3
	$\cos\phi = 1,00$	79,1	64,4	67,2	46,8	40,8	31,3	24,2	20,9	15,8	13,1
Weight	p [kg/m]	32,1	39,1	39,1	50,3	54,8	68,1	103,9	115,3	141,8	2x103,9
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class		B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current	P [W/m]	88	112	182	208	283	339	429	578	686	904
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

* on request: conductor bars sleeved with Class F, DMD insulation sheet.

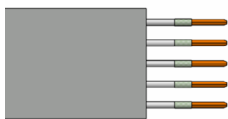
3. TECHNICAL CHARACTERISTICS (continued)

RCP-4C (3L+N) Copper											
		Single bar					Double bar				(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Overall dimension of the busbars	L x H [mm]	95x115	95x150	95x150	95x190	95x200	95x240	95x360	95x380	95x460	2x (95x360)
Overall dimension of the junction	L x H [mm]	160x180	160x190	160x190	160x220	160x230	160x270	160x430	160x450	160x490	2x (160x430)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA] rms	40	40	40	65	65	65	100	100	100	100
Peak current	Ipk [kA]	84	84	84	143	143	143	220	220	220	220
Allowable specific energy for three-phase fault	I ² t [MA ² s]	1600	1600	1600	4225	4225	4225	10000	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA] rms	40	40	40	65	65	65	100	100	100	100
Peak current of the neutral bar	Ipk [kA]	78	78	78	133	133	133	205	205	205	205
Rated short-time current of the protective circuit (1 s)	ICW [kA] rms	-	-	-	-	-	-	-	-	-	-
Peak current of the protective circuit	Ipk [kA]	-	-	-	-	-	-	-	-	-	-
Average phase resistance at 20°C	R20 [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,045	0,037	0,030	0,023	0,017	0,010	0,007
Average phase impedance	Z [mΩ/m]	0,068	0,058	0,058	0,050	0,041	0,033	0,026	0,019	0,012	0,009
Average phase resistance at thermal conditions	R [mΩ/m]	0,046	0,037	0,039	0,027	0,024	0,018	0,014	0,012	0,009	0,008
Average phase impedance at thermal conditions	Z [mΩ/m]	0,071	0,062	0,062	0,052	0,044	0,035	0,027	0,021	0,014	0,010
Average Neutral resistance	R20 [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average functional Earth resistance (FE)	R20 [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth reactance (FE)	X [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average Resistance of the protective bar	RPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the protective bar	XPE [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average resistance of the fault loop	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average reactance of the fault loop	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average impedance of the fault loop	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average resistance phase - N	Ro [mΩ/m]	0,053	0,041	0,041	0,030	0,025	0,019	0,015	0,012	0,009	0,008
Zero-sequence short-circuit average reactance phase - N	Xo [mΩ/m]	0,073	0,065	0,065	0,060	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase - N	Zo [mΩ/m]	0,091	0,077	0,077	0,067	0,055	0,044	0,034	0,026	0,016	0,012
Zero-sequence short-circuit average resistance phase PE	Ro [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average reactance phase PE	Xo [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Zero-sequence short-circuit average impedance phase PE	Zo [mΩ/m]	-	-	-	-	-	-	-	-	-	-

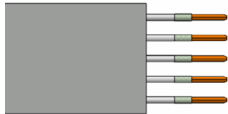
3. TECHNICAL CHARACTERISTICS (continued)

RCP-4C (3L+N) Copper											
		Single bar					Double bar				(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Voltage drop with load at the end of the line (b=1) $\Delta V [V/(m \cdot A)] 10^{-6}$	$\cos\phi = 0,70$	123,4	105,7	107,6	88,4	74,4	59,0	45,4	35,6	23,5	17,9
	$\cos\phi = 0,75$	122,4	104,5	106,5	86,7	73,0	57,8	44,5	35,1	23,3	17,9
	$\cos\phi = 0,80$	120,5	102,5	104,7	84,2	71,1	56,2	43,2	34,4	23,1	17,8
	$\cos\phi = 0,85$	117,4	99,5	101,8	80,8	68,5	54,0	41,5	33,3	22,6	17,6
	$\cos\phi = 0,90$	112,7	95,0	97,5	76,1	64,7	50,8	39,1	31,6	21,8	17,1
	$\cos\phi = 0,95$	104,9	87,7	90,3	68,8	58,8	45,9	35,4	29,0	20,4	16,3
	$\cos\phi = 1,00$	79,1	64,4	67,2	46,8	40,8	31,3	24,2	20,9	15,8	13,1
Weight	p [kg/m]	41,1	50,4	50,4	65,1	71,4	89,0	127,0	141,0	173,6	2x127
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class		B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current	P [W/m]	88	112	182	208	283	339	429	578	686	904
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

* on request: conductor bars sleeved with Class F, DMD insulation sheet.

RCP-5C (3L+N+Pe) Copper											
		Single bar					Double bar				(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Overall dimension of the busbars	L x H [mm]	115 x115	115 x150	115 x150	115 x190	115 x200	115 x240	115 x360	115 x380	115 x460	2x (115x360)
Overall dimension of the junction	L x H [mm]	180 x180	180 x190	180 x190	180 x220	180 x230	180 x270	180 x430	180 x450	180 x490	2x (180x430)
Rated operational voltage	Ue [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	Ui [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50	50	50	50	50	50	50	50	50	50
Rated short-time current (1 s)	ICW [kA] rms	40	40	40	65	65	65	100	100	100	100
Peak current	IpK [kA]	84	84	84	143	143	143	220	220	220	220
Allowable specific energy for three-phase fault	I²t [MA²s]	1600	1600	1600	4225	4225	4225	10000	10000	10000	10000
Rated short-time current of the neutral bar (1 s)	ICW [kA] rms	40	40	40	65	65	65	100	100	100	100
Peak current of the neutral bar	IpK [kA]	78	78	78	133	133	133	205	205	205	205
Rated short-time current of the protective circuit (1 s)	ICW [kA] rms	24	24	24	39	39	39	60	60	60	60
Peak current of the protective circuit	IpK [kA]	50	50	50	82	82	82	132	132	132	132
Average phase resistance at 20°C	R20 [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average phase reactance (50Hz)	X [mΩ/m]	0,055	0,049	0,049	0,045	0,037	0,030	0,023	0,017	0,010	0,007

3. TECHNICAL CHARACTERISTICS (continued)

RCP-5C (3L+N+Pe) Copper											
		Single bar					Double bar				(2 X 3200) Double bars
Rated current	In [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Average phase impedance	Z [mΩ/m]	0,068	0,058	0,058	0,050	0,041	0,033	0,026	0,019	0,012	0,009
Average phase resistance at thermal conditions	R [mΩ/m]	0,046	0,037	0,039	0,027	0,024	0,018	0,014	0,012	0,009	0,008
Average phase impedance at thermal conditions	Z [mΩ/m]	0,071	0,062	0,062	0,052	0,044	0,035	0,027	0,021	0,014	0,010
Average Neutral resistance	R20 [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average functional Earth resistance (FE)	R20 [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average functional Earth reactance (FE)	X [mΩ/m]	-	-	-	-	-	-	-	-	-	-
Average Resistance of the protective bar	RPE [mΩ/m]	0,040	0,031	0,031	0,023	0,018	0,014	0,011	0,009	0,007	0,006
Average reactance of the protective bar	XPE [mΩ/m]	0,055	0,049	0,049	0,045	0,037	0,030	0,023	0,017	0,010	0,007
Average resistance of the fault loop	Ro [mΩ/m]	0,080	0,062	0,062	0,045	0,037	0,028	0,023	0,018	0,014	0,011
Average reactance of the fault loop	Xo [mΩ/m]	0,11	0,10	0,10	0,09	0,07	0,06	0,05	0,03	0,02	0,01
Average impedance of the fault loop	Zo [mΩ/m]	0,136	0,116	0,116	0,101	0,083	0,066	0,051	0,039	0,024	0,018
Zero-sequence short-circuit average resistance phase - N	Ro [mΩ/m]	0,053	0,041	0,041	0,030	0,025	0,019	0,015	0,012	0,009	0,008
Zero-sequence short-circuit average reactance phase - N	Xo [mΩ/m]	0,073	0,065	0,065	0,060	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase - N	Zo [mΩ/m]	0,091	0,077	0,077	0,067	0,055	0,044	0,034	0,026	0,016	0,012
Zero-sequence short-circuit average resistance phase PE	Ro [mΩ/m]	0,053	0,041	0,041	0,030	0,025	0,019	0,015	0,012	0,009	0,008
Zero-sequence short-circuit average reactance phase PE	Xo [mΩ/m]	0,073	0,065	0,065	0,060	0,049	0,040	0,031	0,023	0,013	0,009
Zero-sequence short-circuit average impedance phase PE	Zo [mΩ/m]	0,091	0,077	0,077	0,067	0,055	0,044	0,034	0,026	0,016	0,012
Voltage drop with load at the end of the line (b=1) $\Delta V [V/(m \cdot A)] 10^{-6}$	$\cos \phi = 0,70$	123,4	105,7	107,6	88,4	74,4	59,0	45,4	35,6	23,5	17,9
	$\cos \phi = 0,75$	122,4	104,5	106,5	86,7	73,0	57,8	44,5	35,1	23,3	17,9
	$\cos \phi = 0,80$	120,5	102,5	104,7	84,2	71,1	56,2	43,2	34,4	23,1	17,8
	$\cos \phi = 0,85$	117,4	99,5	101,8	80,8	68,5	54,0	41,5	33,3	22,6	17,6
	$\cos \phi = 0,90$	112,7	95,0	97,5	76,1	64,7	50,8	39,1	31,6	21,8	17,1
	$\cos \phi = 0,95$	104,9	87,7	90,3	68,8	58,8	45,9	35,4	29,0	20,4	16,3
	$\cos \phi = 1,00$	79,1	64,4	67,2	46,8	40,8	31,3	24,2	20,9	15,8	13,1
Weight	p [kg/m]	49,0	60,4	60,4	78,1	86,2	107,6	158,2	177,1	219,4	2x158,2
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class		B *	B *	B *	B *	B *	B *	B *	B *	B *	B *
Losses for the Joule effect at nominal current	P [W/m]	88	112	182	208	283	339	429	578	686	904
Ambient temperature min/MAX	[°C]	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**	-5/35**

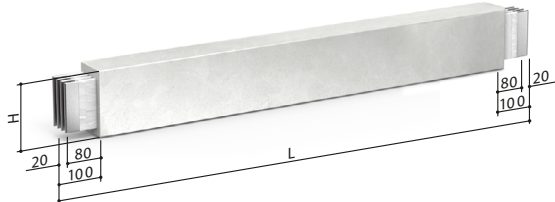
* on request: conductor bars sleeved with Class F, DMD insulation sheet.

4. COMPOSITION

All the elements composing the RCP range are encapsulated with epoxy resin.

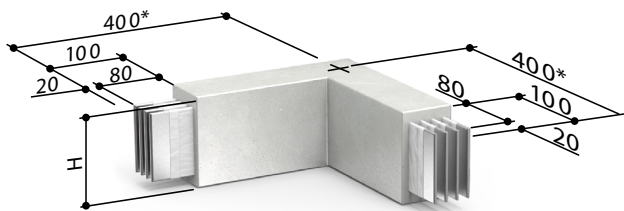
■ 4.1 Straight elements

Straight elements are designed for transport.

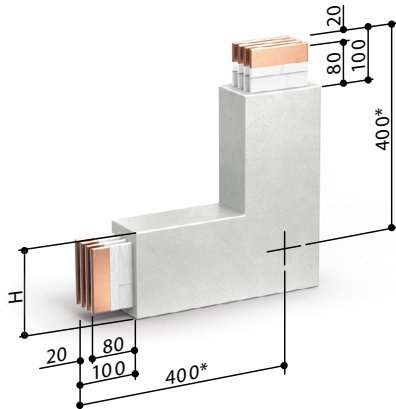


■ 4.2 Elbows

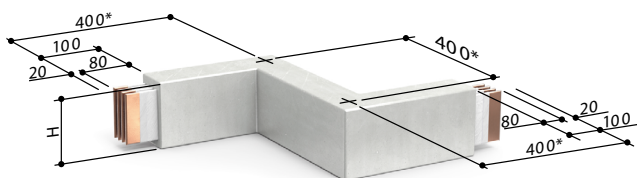
Horizontal elbow



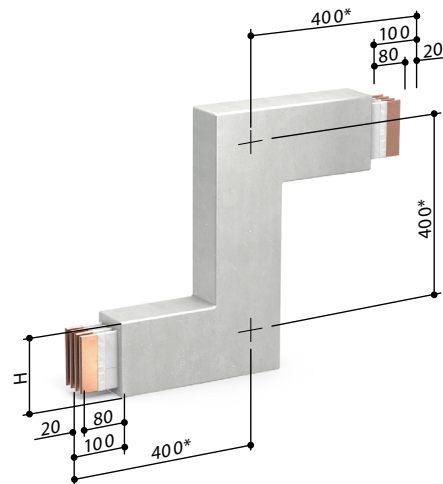
Vertical elbow



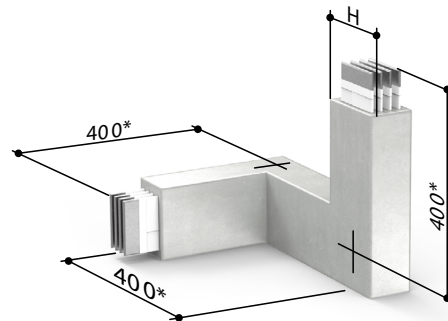
Double horizontal elbow



Double vertical elbow



Double horizontal+vertical elbow



5. ACCESSORIES

■ 5.1 Brackets

The brackets enable sturdy installation of the busbar to the system's support structures.

In order to fix the line to the structure of the building, directly or with wall/ceiling/beam supports, it is necessary to use the bracket supports or vertical suspension supports.

Suspension brackets

There are brackets for vertical and for horizontal suspension, these are PG (STD type) which is typically suitable for a C1 environment. On request, bracket solutions are available for more aggressive environments (stainless steel).

Suspension brackets can be edgewise or flat.

The same brackets can be installed in two installation type : type A and type B (see training manual). Type A installation is used for changes of direction (elbow) and type B for straight elements.

- Edgewise suspension brackets

Standard distance between two brackets: 1500 mm



5. ACCESSORIES (continued)**■ 5.1 Brackets (continued)****Suspension brackets (continued)**

Standard version				
I _n (A)	Aluminium		Copper	
	Cat.Nos	A (mm)	Cat.Nos	A (mm)
630	65202021R	195	-	-
800	65202022R	230	65202021R	195
1000	65202022R	230	65202022R	230
1250	65202022R	240	65202022R	230
1600	65202023R	280	65202023R	270
2000	65222024R	325	65202023R	280
2500	65222025R	380	65222024R	320
3200	65222026R	460	65222026R	440
4000	65222027R	550	65222026R	460
5000	2 x 65222025R	*	65222027R	540
6300	-	-	2 x 65222026R	**

Stainless steel version				
I _n (A)	Aluminium		Copper	
	Brackets Cat.Nos	A (mm)	Brackets Cat.Nos	A (mm)
630	65302021R	190	-	-
800	65302022R	315	65302021R	190
1000	65302022R	315	65302022R	315
1250	65302022R	315	65302022R	315
1600	65302023R	315	65302023R	315
2000	65322024R	315	65302023R	315
2500	65322025R	370	65322024R	315
3200	65322026R	430	65322026R	430
4000	65322027R	530	65322026R	430
5000	2 x 65322025R	*	65322027R	530
6300	-	-	2 x 65322026R	**

*For RCP 5000A (Aluminium) : use 2 sets of 2500A (Aluminium) brackets.

**For RCP 6300A (Copper) : use 2 sets of 3200A (Copper) brackets.

- Flat suspension brackets

Standard distance between 2 brackets: 1500 mm



Standard version				
I _n (A)	Aluminium		Copper	
	Brackets Cat.Nos	A (mm)	Brackets Cat.Nos	A (mm)
630	65202021R	190	-	-
800	65202032R	315	65202021R	190
1000	65202032R	315	65202032R	315
1250	65202032R	315	65202032R	315
1600	65202032R	315	65202023R	315
2000	65202032R	315	65202032R	315
2500	65222035R	370	65202032R	315
3200	65222036R	430	65222036R	430
4000	65222037R	530	65222036R	430
5000	2 x 65222035R	*	65222037R	530
6300	-	-	2 x 65222036R	**

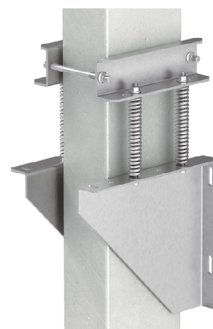
Stainless steel version				
I _n (A)	Aluminium		Copper	
	Brackets Cat.Nos	A (mm)	Brackets Cat.Nos	A (mm)
630	65302032R	190	-	-
800	65302032R	315	65302032R	190
1000	65302032R	315	65302032R	315
1250	65302032R	315	65302032R	315
1600	65302032R	315	65302032R	315
2000	65302032R	315	65302032R	315
2500	65322035R	370	65302032R	315
3200	65322036R	430	65322036R	430
4000	65322037R	530	65322036R	430
5000	2 x 65322035R	*	65322037R	530
6300	-	-	2 x 65322036R	**

*For RCP 5000A (Aluminium) : use 2 sets of 2500A (Aluminium) brackets.

**For RCP 6300A (Copper) : use 2 sets of 3200A (Copper) brackets.

Vertical elements brackets

In case of rising mains, pre-loaded spring brackets both hold the bar in place, and support the weight of the system.



5. ACCESSORIES (continued)

5.2 Vertical elements brackets (continued)

Aluminium			
I _n (A)	Brackets Cat.Nos	Quantity of springs	Weight holding capacity
630	65203711R	4	300
800	65203712R	4	300
1000	65203712R	4	300
1250	65203713R	4	300
1600	65203715R	6	300
2000	65203717R	8	600
2500	65203742R	8	600
3200	65203744R	12	600
4000	65203746R	12	600
5000	65203747R	-	-
6300	-	-	-

Copper			
I _n (A)	Brackets Cat.Nos	Quantity of springs	Weight holding capacity
630	-	-	-
800	65203711R	4	300
1000	65203712R	4	300
1250	65203712R	4	300
1600	65203714R	6	300
2000	65203715R	6	300
2500	65203716R	8	600
3200	65203743R	8	600
4000	65203744R	12	600
5000	65203745R	12	600
6300	-	-	-

5.2 Fire barrier element

The fire barrier is used when it is necessary to pass through a wall or floor while maintaining the REI fire resistance rating. In the RCP, it is placed in the element from any side, as there is no derivation.

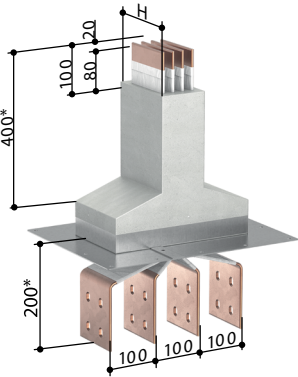
The only requirement is to keep a distance of more than 160 mm from the junction to avoid interference during the resin application phase on site.



I _n (A)	Al	Cu
630	65EFB01R	-
800	65EFB02R	65EFB01R
1000	65EFB02R	65EFB02R
1250	65EFB03R	65EFB02R
1600	65EFB05R	65EFB04R
2000	65EFB07R	65EFB05R
2500	65EFB32R	65EFB06R
3200	65EFB34R	65EFB33R
4000	65EFB35R	65EFB34R
5000	65EFB32R*	65EFB36R
6300	-	65EFB33R*

*For current capacity 5000 A (Al) and 6300 A (Cu), consisting of two parallel lines (2500 + 2500 = 5000A and 3200 + 3200 = 6300A), use 2 fire barriers.

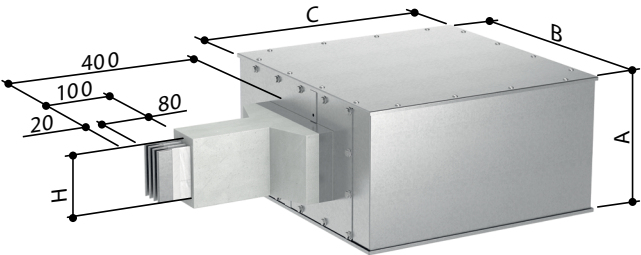
5.3 Connection interface



* standard dimensions, other measurement possible on request.

5.4 Feed unit

Feed units are for power supply via cables, it differs from the connection interface, which is designed to be inserted into the power distribution panel.



Dimensions			
Aluminium	630A - 1250A	1600A - 2000A	2500A - 4000A
Copper	800A - 1250A	1600A - 2500A	3200A - 5000A
A	320	320	600
B	600	600	600
C	610	810	810

5. ACCESSORIES (continued)**■ 5.5 Expansion elements**

The expansion elements can be used to facilitate the thermal expansion of conductors due to the passage of current, the expansion of busbars and as a building movement element decoupling joint for the lines.

These elements must be installed if the line exceeds a certain length (see catalogue) or if there is a transition between different buildings or structures that have or may have different expansion rates.

■ 5.6 Adapter element (IP 68 - IP 55)

The adapter element is 1 meter long. It enables the connexion between XCP and RCP elements.

**■ 5.7 Tap-off boxes**

Tap-off boxes are not suited for RCP range because they will downgrade its protection degree. If necessary, it is better to use a XCP range element and use an adapter (cf. page 9) to establish connexion between RCP and XCP elements.

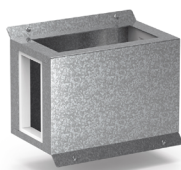
■ 5.8 Moulds

Moulds enable the sealing of the connexions between the busbars and maintain the protection degree to IP 68.

The moulds are available in 3 types :

- suited for 3 conductor busbar
- suited for 4 conductor busbar
- suited for 5 conductor busbar

By changing the number in the reference, you can order the right type for your installation. (cf. tables)

Horizontal mould (for edgewise installation)**Horizontal (edgewise installation)**

I_n (A)	Aluminium	Copper
630	6MLD4E01R	-
800	6MLD4E02R	6MLD4E01R
1000	6MLD4E02R	6MLD4E02R
1250	6MLD4E03R	6MLD4E02R
1600	6MLD4E05R	6MLD4E04R
2000	6MLD4E07R	6MLD4E05R
2500	6MLD4E11R	6MLD4E06R
3200	6MLD4E13R	6MLD4E12R

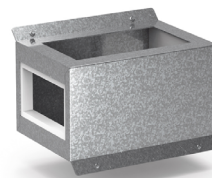
Horizontal (edgewise installation)

I_n (A)	Aluminium	Copper
4000	6MLD4E14R	6MLD4E13R
5000	6MLD4E11R*	6MLD4E15R
6300	-	6MLD4E12R*

3 : 3 conductors

4 : 4 conductors

5 : 5 conductors

Horizontal mould (for flat installation)**Horizontal (flat installation)**

I_n (A)	Aluminium	Copper
630	6MLD4F01R	-
800	6MLD4F02R	6MLD4F01R
1000	6MLD4F02R	6MLD4F02R
1250	6MLD4F03R	6MLD4F02R
1600	6MLD4F05R	6MLD4F04R
2000	6MLD4F07R	6MLD4F05R
2500	6MLD4F11R	6MLD4F06R
3200	6MLD4F13R	6MLD4F12R
4000	6MLD4F14R	6MLD4F13R
5000	6MLD4F11R*	6MLD4F15R
6300	-	6MLD4F12R*

3 : 3 conductors

4 : 4 conductors

5 : 5 conductors

Vertical mould**Vertical (flat installation)**

I_n (A)	Aluminium	Copper
630	6MLD4R01R	-
800	6MLD4R02R	6MLD4R01R
1000	6MLD4R02R	6MLD4R02R
1250	6MLD4R03R	6MLD4R02R
1600	6MLD4R05R	6MLD4R04R
2000	6MLD4R07R	6MLD4R05R
2500	6MLD4R11R	6MLD4R06R
3200	6MLD4R13R	6MLD4R12R
4000	6MLD4R14R	6MLD4R13R
5000	6MLD4R11R*	6MLD4R15R
6300	-	6MLD4R12R*

3 : 3 conductors

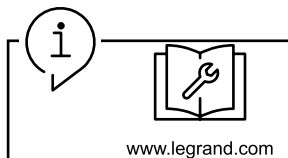
4 : 4 conductors

5 : 5 conductors

6. STANDARDS AND REGULATIONS

RCP IP 68 resin busbar trunking is complying to IEC 61439-6 and IEC 60331-1 standards.

7. OTHER INFORMATION



Installation and user guide : mounting information, equipments, accessories, spare parts, instructions available on e-catalog.

Instruction sheet: detailed mounting procedures, available on e-catalog.

PEP sheet: available on e-catalog.

For further technical information, please contact Legrand technical support.

Unless otherwise indicated, data reported in this document refers exclusively to test conditions according to product standards.

For different conditions of use of the product, inside electrical equipment or in any different installation context, refer to the regulatory requirements of the equipment, local regulations and design specifications of the system.