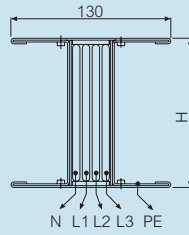


# SCP super compact busbar – 4 conductor (aluminium)

technical data

## ■ 3L + N + PE aluminium



Aluminium	Single bar							Double bar		
	$I_n$ [A]	630	800	1000	1250	1600	2000	2500	3200	4000
Casing overall dimensions	L x H [mm]	130x130	130x130	130x130	130x130	130x170	130x220	130x380	130x440	130x480
Operating voltage	$U_e$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Insulation voltage	$U_i$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	36	42	50	75	80	80	150	160	160
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	76	88	110	165	176	176	330	352	352
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	22	25	30	45	48	48	90	96	96
Allowable peak current for single-phase fault	$I_{pk}$ [kA]	48	55	66	99	106	106	198	211	211
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	1296	1764	2500	5625	6400	6400	22500	25600	25600
Phase resistance	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.006	0.006	0.006
Phase impedance	Z [mΩ/m]	0.080	0.059	0.059	0.048	0.036	0.027	0.022	0.017	0.014
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.084	0.063	0.068	0.055	0.039	0.030	0.024	0.019	0.016
Phase impedance at thermal conditions	Z [mΩ/m]	0.087	0.066	0.070	0.057	0.041	0.032	0.025	0.020	0.018
Neutral resistance	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Resistance of the protective conductor (PE 1)	$R_{PE}$ [mΩ/m]	0.125	0.125	0.125	0.125	0.113	0.101	0.075	0.069	0.065
Resistance of the protective conductor (PE 2)	$R_{PE}$ [mΩ/m]	0.036	0.036	0.036	0.036	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.050	0.041	0.033	0.021	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.080	0.078	0.078	0.048	0.039	0.028	0.020	0.015	0.016
Resistance of the fault loop (PE 1)	$R_o$ [mΩ/m]	0.209	0.188	0.193	0.180	0.152	0.131	0.099	0.088	0.081
Resistance of the fault loop (PE 2)	$R_o$ [mΩ/m]	0.120	0.099	0.104	0.091	0.067	0.053	0.038	0.031	0.027
Resistance of the fault loop (PE 3)	$R_o$ [mΩ/m]	0.134	0.113	0.118	0.105	0.080	0.063	0.045	0.037	0.033
Reactance of the fault loop (50 Hz)	$X_o$ [mΩ/m]	0.10	0.10	0.10	0.06	0.05	0.04	0.03	0.02	0.02
Impedance of the fault loop (PE 1)	$Z_o$ [mΩ/m]	0.233	0.211	0.215	0.191	0.161	0.137	0.103	0.091	0.084
Impedance of the fault loop (PE 2)	$Z_o$ [mΩ/m]	0.158	0.137	0.141	0.111	0.085	0.066	0.046	0.038	0.035
Impedance of the fault loop (PE 3)	$Z_o$ [mΩ/m]	0.169	0.148	0.152	0.123	0.096	0.074	0.052	0.043	0.040
Zero-sequence resistance phase - N	$R_o$ [mΩ/m]	0.306	0.257	0.257	0.238	0.172	0.140	0.107	0.080	0.070
Zero-sequence reactance phase - N	$X_o$ [mΩ/m]	0.174	0.160	0.160	0.128	0.106	0.108	0.083	0.073	0.060
Zero-sequence Impedance phase - N	$Z_o$ [mΩ/m]	0.352	0.303	0.303	0.270	0.202	0.177	0.135	0.108	0.092
Zero-sequence resistance phase - PE	$R_o$ [mΩ/m]	0.581	0.519	0.519	0.369	0.321	0.270	0.217	0.196	0.164
Zero-sequence reactance phase - PE	$X_o$ [mΩ/m]	0.263	0.229	0.229	0.191	0.175	0.212	0.155	0.148	0.146
Zero-sequence Impedance phase - PE	$Z_o$ [mΩ/m]	0.638	0.567	0.567	0.416	0.366	0.343	0.267	0.246	0.22
Voltage drop factor with distributed load $\Delta V = k \cdot L \cdot I_e \cdot 10^{-6}$ [V]	$\cos\phi = 0.70$	65.3	48.9	51.9	42.9	32.3	25.1	18.4	15.4	13.7
	$\cos\phi = 0.75$	67.9	50.9	54.1	44.6	33.4	25.9	19.2	16.0	14.1
	$\cos\phi = 0.80$	70.3	52.7	56.1	46.2	34.3	26.7	19.9	16.5	14.5
	$\cos\phi = 0.85$	72.5	54.4	58.0	47.7	35.1	27.3	20.6	16.9	14.9
	$\cos\phi = 0.90$	74.3	55.8	59.6	48.9	35.7	27.7	21.2	17.3	15.1
	$\cos\phi = 0.95$	75.5	56.7	60.8	49.7	35.9	27.8	21.6	17.5	15.2
$\cos\phi = 1.00$	72.9	54.9	59.1	48.0	33.8	26.2	21.0	16.7	14.3	
Weight (PE 1)	$\rho$ [kg/m]	17.3	17.0	17.0	18.7	20.3	30.7	43.7	52.3	62.7
Weight (PE 2)	$\rho$ [kg/m]	20.8	20.5	20.5	23.2	24.9	36.7	53.9	64.3	75.7
Weight (PE 3)	$\rho$ [kg/m]	18.4	18.1	18.1	20.8	21.8	32.6	46.9	56.1	66.8
Fire load	[kWh/m]	4.5	5.5	5.5	6.0	8.5	10.5	16.0	19.0	21.0
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	100	122	205	260	300	363	455	592	790
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

### Regulations and conformity :

IEC 61439-6 (BS EN 61439-6)

### Suitable for the following climates :

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

### Degree of protection :

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

### Insulation and surface treatment of the conductors :

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

### Busbar casing material :

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request - +44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1  
Standard version



PE 2  
Extra earth - copper

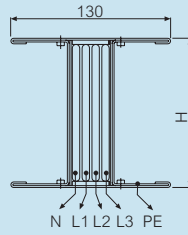


PE 3  
Extra earth - aluminium

# SCP super compact busbar – 4 conductor (copper)

technical data

## ■ 3L + N + PE copper



Copper	Single bar							Double bar		
	$I_n$ [A]	800	1000	1250	1600	2000	2500	3200	4000	5000
Casing overall dimensions	L x H [mm]	130x130	130x130	130x130	130x170	130x170	130x220	130x380	130x440	130x480
Operating voltage	$U_e$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Insulation voltage	$U_i$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	45	50	60	85	88	88	170	176	176
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	95	110	132	187	194	194	374	387	387
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	27	30	36	51	53	53	102	106	106
Allowable peak current for single-phase fault	[kA]	57	66	79	112	116	116	224	232	232
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	2025	2500	3600	7225	7744	7744	28900	30976	30976
Phase resistance	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.007	0.006	0.006
Phase impedance	Z [mΩ/m]	0.045	0.035	0.035	0.027	0.023	0.018	0.013	0.011	0.009
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.042	0.035	0.037	0.027	0.022	0.017	0.013	0.011	0.008
Phase impedance at thermal conditions	Z [mΩ/m]	0.048	0.039	0.041	0.031	0.026	0.020	0.015	0.013	0.010
Neutral resistance	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Resistance of the protective conductor (PE 1)	$R_{PE}$ [mΩ/m]	0.125	0.125	0.125	0.113	0.113	0.101	0.075	0.069	0.065
Resistance of the protective conductor (PE 2)	$R_{PE}$ [mΩ/m]	0.036	0.036	0.036	0.028	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.041	0.041	0.033	0.021	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.054	0.054	0.054	0.044	0.044	0.032	0.022	0.017	0.016
Resistance of the fault loop (PE 1)	$R_0$ [mΩ/m]	0.167	0.160	0.162	0.140	0.135	0.118	0.088	0.080	0.073
Resistance of the fault loop (PE 2)	$R_0$ [mΩ/m]	0.078	0.071	0.073	0.055	0.050	0.040	0.027	0.023	0.019
Resistance of the fault loop (PE 3)	$R_0$ [mΩ/m]	0.092	0.085	0.087	0.068	0.063	0.050	0.034	0.029	0.025
Reactance of the fault loop (50 Hz)	$X_0$ [mΩ/m]	0.077	0.071	0.071	0.059	0.058	0.043	0.029	0.023	0.022
Impedance of the fault loop (PE 1)	$Z_0$ [mΩ/m]	0.184	0.175	0.177	0.152	0.147	0.126	0.093	0.083	0.077
Impedance of the fault loop (PE 2)	$Z_0$ [mΩ/m]	0.110	0.100	0.102	0.081	0.077	0.059	0.040	0.033	0.029
Impedance of the fault loop (PE 3)	$Z_0$ [mΩ/m]	0.120	0.110	0.112	0.090	0.086	0.066	0.045	0.037	0.034
Zero-sequence resistance phase - N	$R_0$ [mΩ/m]	0.170	0.155	0.155	0.115	0.120	0.098	0.083	0.071	0.062
Zero-sequence reactance phase - N	$X_0$ [mΩ/m]	0.159	0.151	0.151	0.114	0.098	0.065	0.056	0.055	0.042
Zero-sequence Impedance phase - N	$Z_0$ [mΩ/m]	0.233	0.216	0.216	0.162	0.155	0.118	0.100	0.090	0.075
Zero-sequence resistance phase - PE	$R_0$ [mΩ/m]	0.507	0.429	0.429	0.331	0.283	0.221	0.177	0.178	0.144
Zero-sequence reactance phase - PE	$X_0$ [mΩ/m]	0.201	0.177	0.177	0.143	0.150	0.124	0.111	0.094	0.086
Zero-sequence Impedance phase - PE	$Z_0$ [mΩ/m]	0.545	0.464	0.464	0.361	0.320	0.253	0.209	0.201	0.168
Voltage drop factor with distributed load $\Delta V = k.L.I_e.10^{-6}$ [V]	$\cos\phi = 0.70$	39.9	31.5	33.0	25.6	22.1	17.1	12.2	10.5	8.9
	$\cos\phi = 0.75$	40.7	32.2	33.9	26.1	22.4	17.4	12.4	10.8	8.9
	$\cos\phi = 0.80$	41.3	32.8	34.6	26.5	22.6	17.5	12.6	10.9	9.0
	$\cos\phi = 0.85$	41.7	33.3	35.1	26.7	22.7	17.5	12.8	11.0	9.0
	$\cos\phi = 0.90$	41.7	33.4	35.4	26.7	22.5	17.4	12.8	11.0	8.9
	$\cos\phi = 0.95$	41.1	33.1	35.1	26.2	22.0	17.0	12.6	10.9	8.6
	$\cos\phi = 1.00$	36.7	30.0	32.2	23.3	19.1	14.7	11.2	9.8	7.3
Weight (PE 1)	p [kg/m]	31.0	31.0	31.0	42.0	46.0	69.0	84.0	101.0	126.0
Weight (PE 2)	p [kg/m]	35.0	35.0	35.0	47.0	51.0	70.0	94.0	114.0	139.0
Weight (PE 3)	p [kg/m]	33.0	32.0	32.0	44.0	48.0	66.0	87.0	105.0	130.0
Fire load	[kWh/m]	4.5	5.5	5.5	8	8.2	10.5	16	19	21
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	81	104	174	207	265	319	399	541	636
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

**Regulations and conformity :**

IEC 61439-6 (BS EN 61439-6)

**Suitable for the following climates :**

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

**Degree of protection :**

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

**Insulation and surface treatment of the conductors :**

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

**Busbar casing material :**

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request -

+44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1  
Standard version



PE 2  
Extra earth - copper

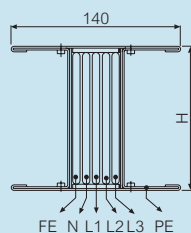


PE 3  
Extra earth - aluminium

# SCP super compact busbar – 5 conductor (aluminium)

technical data

■ SCP technical data functional earth clean earth / low noise SCP5C (3L + N + PE + FE) aluminium



Aluminium	Single bar							Double bar		
	$I_n$ [A]	630	800	1000	1250	1600	2000	2500	3200	4000
Rated current	$I_n$ [A]	630	800	1000	1250	1600	2000	2500	3200	4000
Casing overall dimensions	L x H [mm]	140x130	140x130	140x130	140x130	140x170	140x220	140x380	140x440	140x480
Operating voltage	$U_e$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Insulation voltage	$U_i$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	36	42	50	75	80	80	150	160	160
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	76	88	110	165	176	176	330	352	352
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	22	25	30	45	48	48	90	96	96
Allowable peak current for single-phase fault	$I_{pk}$ [kA]	48	55	66	99	106	106	198	211	211
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	1296	1764	2500	5625	6400	6400	22500	25600	25600
Phase resistance	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.006	0.006	0.006
Phase impedance	Z [mΩ/m]	0.080	0.059	0.059	0.048	0.036	0.027	0.022	0.017	0.014
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.084	0.063	0.068	0.055	0.039	0.030	0.024	0.019	0.016
Phase impedance at thermal conditions	Z [mΩ/m]	0.087	0.066	0.070	0.057	0.041	0.032	0.025	0.020	0.018
Neutral resistance	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Functional earthing resistance (FE)	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Functional earthing reactance (FE)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.006	0.006	0.006
Resistance of the protective conductor (PE type 1)	$R_{PE}$ [mΩ/m]	0.121	0.121	0.121	0.121	0.110	0.098	0.074	0.068	0.064
Resistance of the protective conductor (PE type 2)	$R_{PE}$ [mΩ/m]	0.035	0.035	0.035	0.035	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE type 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.050	0.040	0.033	0.020	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.080	0.078	0.078	0.048	0.039	0.028	0.020	0.015	0.016
Resistance of the fault loop (PE 1)	$R_o$ [mΩ/m]	0.131	0.102	0.107	0.089	0.064	0.050	0.041	0.032	0.027
Resistance of the fault loop (PE 2)	$R_o$ [mΩ/m]	0.108	0.085	0.090	0.075	0.054	0.042	0.033	0.026	0.022
Resistance of the fault loop (PE 3)	$R_o$ [mΩ/m]	0.115	0.090	0.095	0.079	0.057	0.044	0.034	0.028	0.024
Reactance of the fault loop (50 Hz)	$X_o$ [mΩ/m]	0.10	0.10	0.10	0.06	0.05	0.04	0.03	0.02	0.02
Impedance of the fault loop (PE 1)	$Z_o$ [mΩ/m]	0.167	0.139	0.143	0.109	0.083	0.064	0.048	0.038	0.035
Impedance of the fault loop (PE 2)	$Z_o$ [mΩ/m]	0.149	0.128	0.131	0.098	0.076	0.057	0.042	0.034	0.031
Impedance of the fault loop (PE 3)	$Z_o$ [mΩ/m]	0.154	0.131	0.134	0.101	0.078	0.059	0.043	0.035	0.032
Zero-sequence resistance phase - N	$R_o$ [mΩ/m]	0.306	0.257	0.257	0.238	0.172	0.140	0.107	0.080	0.070
Zero-sequence reactance phase - N	$X_o$ [mΩ/m]	0.174	0.160	0.160	0.128	0.106	0.108	0.083	0.073	0.060
Zero-sequence Impedance phase - N	$Z_o$ [mΩ/m]	0.352	0.303	0.303	0.270	0.202	0.177	0.135	0.108	0.092
Zero-sequence resistance phase - PE	$R_o$ [mΩ/m]	0.468	0.387	0.387	0.246	0.213	0.173	0.113	0.107	0.070
Zero-sequence reactance phase - PE	$X_o$ [mΩ/m]	0.263	0.229	0.229	0.191	0.175	0.212	0.155	0.148	0.146
Zero-sequence Impedance phase - PE	$Z_o$ [mΩ/m]	0.537	0.450	0.450	0.311	0.276	0.274	0.192	0.183	0.162
Voltage drop factor with distributed load $\Delta V = k.L.I.e.10^{-6}$ [V]	$k$ [V/m/A]10 <sup>-6</sup>									
	$\cos\phi = 0.70$	65.3	48.9	51.9	42.9	32.3	25.1	18.4	15.4	13.7
	$\cos\phi = 0.75$	67.9	50.9	54.1	44.6	33.4	25.9	19.2	16.0	14.1
	$\cos\phi = 0.80$	70.3	52.7	56.1	46.2	34.3	26.7	19.9	16.5	14.5
	$\cos\phi = 0.85$	72.5	54.4	58.0	47.7	35.1	27.3	20.6	16.9	14.9
	$\cos\phi = 0.90$	74.3	55.8	59.6	48.9	35.7	27.7	21.2	17.3	15.1
$\cos\phi = 0.95$	75.5	56.7	60.8	49.7	35.9	27.8	21.6	17.5	15.2	
$\cos\phi = 1.00$	72.9	54.9	59.1	48.0	33.8	26.2	21.0	16.7	14.3	
Weight (PE 1)	$p$ [kg/m]	21.6	21.3	21.3	23.4	25.4	38.4	54.6	65.4	78.4
Weight (PE 2)	$p$ [kg/m]	23.0	22.8	22.8	26.4	28.6	41.4	60.1	72.1	84.9
Weight (PE 3)	$p$ [kg/m]	20.6	20.4	20.4	24.0	25.5	37.4	53.1	64.0	76.0
Fire load	[kWh/m]	5.6	6.9	6.9	7.5	10.6	13.1	20.0	23.8	26.3
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	100	122	205	260	300	363	455	592	790
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

**Regulations and conformity :**

IEC 61439-6 (BS EN 61439-6)

Suitable for the following climates :

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

Degree of protection :

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

Insulation and surface treatment of the conductors :

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

Busbar casing material :

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request - +44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1 Standard version



PE 2 Extra earth - copper

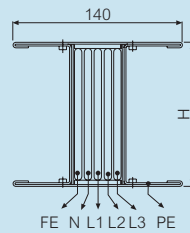


PE 3 Extra earth - aluminium

# SCP super compact busbar – 5 conductor (copper)

## technical data

■ SCP technical data functional earth clean earth / low noise SCP5C (3L + N + PE + FE) copper



Copper	Single bar							Double bar		
	$I_n$ [A]	800	1 000	1 250	1 600	2 000	2 500	3 200	4 000	5 000
Rated current	$I_n$ [A]	800	1 000	1 250	1 600	2 000	2 500	3 200	4 000	5 000
Casing overall dimensions	L x H [mm]	140x130	140x130	140x130	140x170	140x170	140x220	140x380	140x440	140x480
Operating voltage	$U_e$ [V]	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
Insulation voltage	$U_i$ [V]	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	45	50	60	85	88	88	170	176	176
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	95	110	132	187	194	194	374	387	387
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	27	30	36	51	53	53	102	106	106
Allowable peak current for single-phase fault	$I_{pk}$ [kA]	57	66	79	112	116	116	224	232	232
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	2025	2 500	3 600	7 225	7 744	7 744	28 900	30 976	30 976
Phase resistance	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.007	0.006	0.006
Phase impedance	Z [mΩ/m]	0.045	0.035	0.035	0.027	0.023	0.018	0.013	0.011	0.009
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.042	0.035	0.037	0.027	0.022	0.017	0.013	0.011	0.008
Phase impedance at thermal conditions	Z [mΩ/m]	0.048	0.039	0.041	0.031	0.026	0.020	0.015	0.013	0.010
Neutral resistance	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Functional earthing resistance (FE)	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Functional earthing reactance (FE)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.007	0.006	0.006
Resistance of the protective conductor (PE type 1)	$R_{PE}$ [mΩ/m]	0.125	0.125	0.125	0.113	0.113	0.101	0.075	0.069	0.065
Resistance of the protective conductor (PE type 2)	$R_{PE}$ [mΩ/m]	0.036	0.036	0.036	0.028	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE type 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.041	0.041	0.033	0.021	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.054	0.054	0.054	0.044	0.044	0.032	0.022	0.017	0.016
Resistance of the fault loop (PE 1)	$R_o$ [mΩ/m]	0.072	0.059	0.062	0.045	0.038	0.029	0.023	0.019	0.015
Resistance of the fault loop (PE 2)	$R_o$ [mΩ/m]	0.061	0.051	0.054	0.039	0.033	0.026	0.019	0.016	0.013
Resistance of the fault loop (PE 3)	$R_o$ [mΩ/m]	0.064	0.054	0.056	0.041	0.035	0.027	0.020	0.017	0.013
Reactance of the fault loop (50 Hz)	$X_o$ [mΩ/m]	0.077	0.071	0.071	0.059	0.058	0.043	0.029	0.023	0.022
Impedance of the fault loop (PE 1)	$Z_o$ [mΩ/m]	0.105	0.092	0.094	0.074	0.069	0.052	0.037	0.030	0.026
Impedance of the fault loop (PE 2)	$Z_o$ [mΩ/m]	0.098	0.087	0.089	0.071	0.067	0.050	0.035	0.028	0.025
Impedance of the fault loop (PE 3)	$Z_o$ [mΩ/m]	0.100	0.089	0.090	0.072	0.068	0.051	0.035	0.029	0.026
Zero-sequence resistance phase - N	$R_o$ [mΩ/m]	0.170	0.155	0.155	0.115	0.120	0.098	0.083	0.071	0.062
Zero-sequence reactance phase - N	$X_o$ [mΩ/m]	0.159	0.151	0.151	0.114	0.098	0.065	0.056	0.055	0.042
Zero-sequence Impedance phase - N	$Z_o$ [mΩ/m]	0.233	0.216	0.216	0.162	0.155	0.118	0.100	0.090	0.075
Zero-sequence resistance phase - PE	$R_o$ [mΩ/m]	0.408	0.320	0.320	0.220	0.188	0.142	0.092	0.077	0.061
Zero-sequence reactance phase - PE	$X_o$ [mΩ/m]	0.196	0.158	0.158	0.126	0.135	0.136	0.104	0.088	0.075
Zero-sequence Impedance phase - PE	$Z_o$ [mΩ/m]	0.453	0.357	0.357	0.254	0.231	0.197	0.139	0.117	0.097
Voltage drop factor with distributed load $\Delta V = k.L.I.e.10^{-6}$ [V]	$k$ [V/(m/A)10 <sup>-6</sup> ]									
	$\cos\phi = 0.70$	39.9	31.5	33.0	25.6	22.1	17.1	12.2	10.5	8.9
	$\cos\phi = 0.75$	40.7	32.2	33.9	26.1	22.4	17.4	12.4	10.8	8.9
	$\cos\phi = 0.80$	41.3	32.8	34.6	26.5	22.6	17.5	12.6	10.9	9.0
	$\cos\phi = 0.85$	41.7	33.3	35.1	26.7	22.7	17.5	12.8	11.0	9.0
	$\cos\phi = 0.90$	41.7	33.4	35.4	26.7	22.5	17.4	12.8	11.0	8.9
$\cos\phi = 0.95$	41.1	33.1	35.1	26.2	22.0	17.0	12.6	10.9	8.6	
$\cos\phi = 1.00$	36.7	30.0	32.2	23.3	19.1	14.7	11.2	9.8	7.3	
Weight (PE 1)	$p$ [kg/m]	39.0	39.0	39.0	53.0	58.0	86.0	105.0	126.0	158.0
Weight (PE 2)	$p$ [kg/m]	41.0	41.0	41.0	55.0	60.0	83.0	111.0	134.0	174.0
Weight (PE 3)	$p$ [kg/m]	38.0	38.0	38.0	52.0	57.0	79.0	104.0	126.0	163.0
Fire load	[kWh/m]	5.6	6.9	6.9	10.0	10.3	13.1	20.0	23.8	26.3
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	81	104	174	207	265	319	399	541	636
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

**Regulations and conformity :**

IEC 61439-6 (BS EN 61439-6)

**Suitable for the following climates :**

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

**Degree of protection :**

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

**Insulation and surface treatment of the conductors :**

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

**Busbar casing material :**

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request -

+44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1  
Standard version



PE 2  
Extra earth - copper

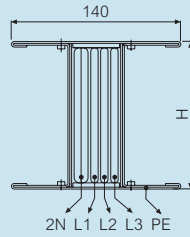


PE 3  
Extra earth - aluminium

# SCP super compact busbar – double neutral (aluminium)

## technical data

### Double neutral SCP2N (3L + 2N + PE) aluminium



Aluminium	Single bar							Double bar		
	$I_n$ [A]	630	800	1000	1250	1600	2000	2500	3200	4000
Casing overall dimensions	L x H [mm]	140x130	140x130	140x130	140x130	140x170	140x220	140x380	140x440	140x480
Operating voltage	$U_e$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Insulation voltage	$U_i$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	36	42	50	75	80	80	150	160	160
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	76	88	110	165	176	176	330	352	352
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	22	25	30	45	48	48	90	96	96
Allowable peak current for single-phase fault	$I_{pk}$ [kA]	48	55	66	99	106	106	198	211	211
Rated short-time protection current (1 s)	$I_{cw}$ [kA]rms	22	25	30	45	48	48	90	96	96
Protection circuit peak rated current	$I_{pk}$ [kA]	48	55	66	99	106	106	198	211	211
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	1296	1764	2500	5625	6400	6400	22500	25600	25600
Phase resistance	$R_{20}$ [mΩ/m]	0.077	0.057	0.057	0.046	0.033	0.025	0.021	0.016	0.013
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.006	0.006	0.006
Phase impedance	Z [mΩ/m]	0.080	0.059	0.059	0.048	0.036	0.027	0.022	0.017	0.014
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.084	0.063	0.068	0.055	0.039	0.030	0.024	0.019	0.016
Phase impedance at thermal conditions	Z [mΩ/m]	0.087	0.066	0.070	0.057	0.041	0.032	0.025	0.020	0.018
Neutral resistance	$R_{20}$ [mΩ/m]	0.039	0.029	0.029	0.023	0.017	0.013	0.011	0.008	0.007
Resistance of the protective conductor (PE type 1)	$R_{PE}$ [mΩ/m]	0.121	0.121	0.121	0.121	0.110	0.098	0.074	0.068	0.064
Resistance of the protective conductor (PE type 2)	$R_{PE}$ [mΩ/m]	0.035	0.035	0.035	0.035	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE type 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.050	0.040	0.033	0.020	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.080	0.078	0.078	0.048	0.039	0.028	0.020	0.015	0.016
Resistance of the fault loop (PE 1)	$R_o$ [mΩ/m]	0.205	0.184	0.189	0.176	0.149	0.128	0.098	0.087	0.080
Resistance of the fault loop (PE 2)	$R_o$ [mΩ/m]	0.119	0.098	0.103	0.090	0.067	0.053	0.038	0.031	0.027
Resistance of the fault loop (PE 3)	$R_o$ [mΩ/m]	0.134	0.113	0.118	0.105	0.079	0.063	0.044	0.037	0.033
Reactance of the fault loop (50 Hz)	$X_o$ [mΩ/m]	0.10	0.10	0.10	0.06	0.05	0.04	0.03	0.02	0.02
Impedance of the fault loop (PE 1)	$Z_o$ [mΩ/m]	0.230	0.207	0.212	0.187	0.158	0.134	0.102	0.090	0.083
Impedance of the fault loop (PE 2)	$Z_o$ [mΩ/m]	0.158	0.137	0.140	0.110	0.085	0.066	0.046	0.038	0.035
Impedance of the fault loop (PE 3)	$Z_o$ [mΩ/m]	0.169	0.148	0.152	0.123	0.095	0.074	0.051	0.043	0.040
Zero-sequence resistance phase - N	$R_o$ [mΩ/m]	0.147	0.135	0.135	0.132	0.129	0.126	0.084	0.063	0.048
Zero-sequence reactance phase - N	$X_o$ [mΩ/m]	0.198	0.180	0.180	0.166	0.160	0.190	0.135	0.165	0.103
Zero-sequence Impedance phase - N	$Z_o$ [mΩ/m]	0.247	0.225	0.225	0.212	0.206	0.228	0.159	0.177	0.114
Zero-sequence resistance phase - PE	$R_o$ [mΩ/m]	0.581	0.519	0.519	0.369	0.321	0.270	0.217	0.196	0.164
Zero-sequence reactance phase - PE	$X_o$ [mΩ/m]	0.263	0.229	0.229	0.191	0.175	0.212	0.155	0.148	0.146
Zero-sequence Impedance phase - PE	$Z_o$ [mΩ/m]	0.638	0.567	0.567	0.416	0.366	0.343	0.267	0.246	0.220
Voltage drop factor with distributed load $\Delta V = k.L.I.e.10^{-6}$ [V]	$k$ [V/m/A]10 <sup>-6</sup>									
	$\cos\phi = 0.70$	65.3	48.9	51.9	42.9	32.3	25.1	18.4	15.4	13.7
	$\cos\phi = 0.75$	67.9	50.9	54.1	44.6	33.4	25.9	19.2	16.0	14.1
	$\cos\phi = 0.80$	70.3	52.7	56.1	46.2	34.3	26.7	19.9	16.5	14.5
	$\cos\phi = 0.85$	72.5	54.4	58.0	47.7	35.1	27.3	20.6	16.9	14.9
	$\cos\phi = 0.90$	74.3	55.8	59.6	48.9	35.7	27.7	21.2	17.3	15.1
$\cos\phi = 0.95$	75.5	56.7	60.8	49.7	35.9	27.8	21.6	17.5	15.2	
$\cos\phi = 1.00$	72.9	54.9	59.1	48.0	33.8	26.2	21.0	16.7	14.3	
Weight (PE 1)	$p$ [kg/m]	21.6	21.3	21.3	23.4	25.4	38.4	54.6	65.4	78.4
Weight (PE 2)	$p$ [kg/m]	23.0	22.8	22.8	26.4	28.6	41.4	60.1	72.1	84.9
Weight (PE 3)	$p$ [kg/m]	20.6	20.4	20.4	24.0	25.5	37.4	53.1	64.0	76.0
Fire load	[kWh/m]	5.6	6.9	6.9	7.5	10.6	13.1	20.0	23.8	26.3
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	100	122	205	260	300	363	455	592	790
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

#### Regulations and conformity :

IEC 61439-6 (BS EN 61439-6)

#### Suitable for the following climates :

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

#### Degree of protection :

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

#### Insulation and surface treatment of the conductors :

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

#### Busbar casing material :

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request - +44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1  
Standard version



PE 2  
Extra earth - copper



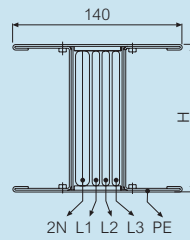
PE 3  
Extra earth - aluminium



# SCP super compact busbar – double neutral (copper)

## technical data

### Double neutral SCP2N (3L + 2N + PE) copper



Copper	Single bar							Double bar		
	$I_n$ [A]	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated current	$I_n$ [A]	800	1000	1250	1600	2000	2500	3200	4000	5000
Casing overall dimensions	L x H [mm]	140x130	140x130	140x130	140x170	140x170	140x220	140x380	140x440	140x480
Operating voltage	$U_e$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Insulation voltage	$U_i$ [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current for three-phase fault (1 s)	$I_{cw}$ [kA]rms	45	50	60	85	88	88	170	176	176
Allowable peak current for three-phase fault	$I_{pk}$ [kA]	95	110	132	187	194	194	374	387	387
Rated short-time current for single-phase fault (1 s)	$I_{cw}$ [kA]rms	27	30	36	51	53	53	102	106	106
Allowable peak current for single-phase fault	$I_{pk}$ [kA]	57	66	79	112	116	116	224	232	232
Rated short-time protection current (1 s)	$I_{cw}$ [kA]rms	27	30	36	51	53	53	102	106	106
Protection circuit peak rated current	$I_{pk}$ [kA]	57	66	79	112	116	116	224	232	232
Allowable specific energy for three-phase fault	$I^2t$ [MA <sup>2</sup> s]	2025	2500	3600	7225	7744	7744	28900	30976	30976
Phase resistance	$R_{20}$ [mΩ/m]	0.039	0.030	0.030	0.022	0.018	0.014	0.011	0.009	0.007
Phase reactance (50 Hz)	X [mΩ/m]	0.023	0.017	0.017	0.015	0.014	0.011	0.007	0.006	0.006
Phase impedance	Z [mΩ/m]	0.045	0.035	0.035	0.027	0.023	0.018	0.013	0.011	0.009
Phase resistance at thermal conditions	$R_t$ [mΩ/m]	0.042	0.035	0.037	0.027	0.022	0.017	0.013	0.011	0.008
Phase impedance at thermal conditions	Z [mΩ/m]	0.048	0.039	0.041	0.031	0.026	0.020	0.015	0.013	0.010
Neutral resistance	$R_{20}$ [mΩ/m]	0.020	0.015	0.015	0.011	0.009	0.007	0.006	0.005	0.003
Resistance of the protective conductor (PE type 1)	$R_{PE}$ [mΩ/m]	0.125	0.125	0.125	0.113	0.113	0.101	0.075	0.069	0.065
Resistance of the protective conductor (PE type 2)	$R_{PE}$ [mΩ/m]	0.036	0.036	0.036	0.028	0.028	0.023	0.014	0.012	0.011
Resistance of the protective conductor (PE type 3)	$R_{PE}$ [mΩ/m]	0.050	0.050	0.050	0.041	0.041	0.033	0.021	0.018	0.017
Reactance of the protective conductor (50 Hz)	$X_{PE}$ [mΩ/m]	0.054	0.054	0.054	0.044	0.044	0.032	0.022	0.017	0.016
Resistance of the fault loop (PE 1)	$R_o$ [mΩ/m]	0.167	0.160	0.162	0.140	0.135	0.118	0.088	0.080	0.073
Resistance of the fault loop (PE 2)	$R_o$ [mΩ/m]	0.078	0.071	0.073	0.055	0.050	0.040	0.027	0.023	0.019
Resistance of the fault loop (PE 3)	$R_o$ [mΩ/m]	0.092	0.085	0.087	0.068	0.063	0.050	0.034	0.029	0.025
Reactance of the fault loop (50 Hz)	$X_o$ [mΩ/m]	0.077	0.071	0.071	0.059	0.058	0.043	0.029	0.023	0.022
Impedance of the fault loop (PE 1)	$Z_o$ [mΩ/m]	0.184	0.175	0.177	0.152	0.147	0.126	0.093	0.083	0.077
Impedance of the fault loop (PE 2)	$Z_o$ [mΩ/m]	0.110	0.100	0.102	0.081	0.077	0.059	0.040	0.033	0.029
Impedance of the fault loop (PE 3)	$Z_o$ [mΩ/m]	0.120	0.110	0.112	0.090	0.086	0.066	0.045	0.037	0.034
Zero-sequence resistance phase - N	$R_o$ [mΩ/m]	0.128	0.125	0.125	0.121	0.117	0.094	0.088	0.065	0.046
Zero-sequence reactance phase - N	$X_o$ [mΩ/m]	0.184	0.152	0.152	0.143	0.127	0.122	0.078	0.076	0.073
Zero-sequence Impedance phase - N	$Z_o$ [mΩ/m]	0.224	0.197	0.197	0.187	0.173	0.154	0.118	0.100	0.086
Zero-sequence resistance phase - PE	$R_o$ [mΩ/m]	0.507	0.429	0.429	0.331	0.283	0.221	0.177	0.178	0.144
Zero-sequence reactance phase - PE	$X_o$ [mΩ/m]	0.201	0.177	0.177	0.143	0.150	0.124	0.111	0.094	0.086
Zero-sequence Impedance phase - PE	$Z_o$ [mΩ/m]	0.545	0.464	0.464	0.361	0.320	0.253	0.209	0.201	0.168
Voltage drop factor with distributed load $\Delta V = k.L.I.e.10^{-6}$ [V]	$k$ [V/m/A]10 <sup>-6</sup>									
	$\cos\phi = 0.70$	39.9	31.5	33.0	25.6	22.1	17.1	12.2	10.5	8.9
	$\cos\phi = 0.75$	40.7	32.2	33.9	26.1	22.4	17.4	12.4	10.8	8.9
	$\cos\phi = 0.80$	41.3	32.8	34.6	26.5	22.6	17.5	12.6	10.9	9.0
	$\cos\phi = 0.85$	41.7	33.3	35.1	26.7	22.7	17.5	12.8	11.0	9.0
	$\cos\phi = 0.90$	41.7	33.4	35.4	26.7	22.5	17.4	12.8	11.0	8.9
$\cos\phi = 0.95$	41.1	33.1	35.1	26.2	22.0	17.0	12.6	10.9	8.6	
$\cos\phi = 1.00$	36.7	30.0	32.2	23.3	19.1	14.7	11.2	9.8	7.3	
Weight (PE 1)	$p$ [kg/m]	39.0	39.0	39.0	53.0	58.0	86.0	105.0	126.0	158.0
Weight (PE 2)	$p$ [kg/m]	41.0	41.0	41.0	55.0	60.0	83.0	111.0	134.0	174.0
Weight (PE 3)	$p$ [kg/m]	38.0	38.0	38.0	52.0	57.0	79.0	104.0	126.0	163.0
Fire load	[kWh/m]	5.6	6.9	6.9	10.0	10.3	13.1	20.0	23.8	26.3
Degree of protection	IP	55	55	55	55	55	55	55	55	55
Thermal resistance class of the insulating materials	-	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>	B/F <sup>1</sup>
Joule effect losses at rated current	P [W/m]	81	104	174	207	265	319	399	541	636
Min./max. ambient temperature	[°C]	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50	-5/50

#### Regulations and conformity :

IEC 61439-6 (BS EN 61439-6)

#### Suitable for the following climates :

Constant humid climate (IEC 60068 2 – 11)

Cyclical humid climate (IEC 60068 2 – 30)

#### Degree of protection :

IP 55; IP x7 carrying lines available with accessories, on request - +44 (0) 370 608 9020

#### Insulation and surface treatment of the conductors :

Insulated conductors for the whole length, aluminum copper-plated and tin-plated

#### Busbar casing material :

1.5 mm galvanised steel plate, pre-painted or stainless steel

(available, if required, with special paint and/or with thickness 2 mm)

1 : Class F thermal resistance (155°C) available on request -

+44 (0) 370 608 9020

$I_n$  : rated current referred to a room temperature of 40°C



PE 1  
Standard version



PE 2  
Extra earth - copper



PE 3  
Extra earth - aluminium