

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--------|-----------------------|-------|-------|----------------|-------|-----|--|---------|-----|-----|----------|-------|-----------------|----------|-------------|-------|--|-------|---------------|-------|------------|-------|---------------------|---------------|-------------|-------------------------------------|---|--------------|-------|---------------------------|------|---------|------|----------------|
| Sieć | | $U_N =$ | 15 | kV | $Z_{kQ} =$ | 0,78 | mΩ | <div>Obliczenia techniczne</div> <div>Dobór przewodów</div> <div>Ochrona przeciwporażeniowa</div> <div>Spadki napięć</div> | | | | | | | | | | RGB-cz.2 | | | | | | | | | | POLITECHNIKA GDAŃSKA | | | | | | | |
| | | $S''_{kQ} =$ | 250 | MVA | $R_{kQ} =$ | 0,08 | mΩ | | | | | | | | | | | | | | | | | | | | | ul. Narutowicza 11/12, 80-233 Gdańsk, Polska | | | | | | | |
| | | $U_{N\,obl} =$ | 420 | V | $X_{kQ} =$ | 0,77 | mΩ | | | | | | | | | | | | | | | | | | | | | BUDYNEK CENTRUM EKOINNOWACJI Z GARAŻEM PODZIEMNYM | | | | | | | |
| Trafo | | $S_{nT} =$ | 630 | kVA | $Z_T =$ | 16,80 | mΩ | | | | | | | | | | | PRZEBUDOWA i REMONT BUDYNKU WILIŚ-ŻELBET | | | | | | | | | | | | | | | | | |
| | | $u_{kr} =$ | 6,0 | % | $R_T =$ | 3,56 | mΩ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | $\Delta P_{obc\,n} =$ | 8 | kW | $X_T =$ | 16,42 | mΩ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,80 | kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L.p. | Obwód | | | | | | | Kabel / Przewód | | | | | | | | | | Zabezpieczenie | | | | | | Skuteczność ochrony | | Koordynacja | | | Przeciążenie | | | Δu% | | | Wynik obliczeń |
| | Skąd | Dokąd | U_N | P_N | $\cos \varphi$ | I_B | L | Sposób ułożenia | typ | | | γ | x_L | S_{obl} | I_{dd} | ilość żył/f | k_U | k_T | I_Z | typ | I_N | k_{char} | I_2 | I_a | $I''_k^{(1)}$ | Z_s | $1,25 \cdot Z_s \cdot I_a \leq U_0$ | $I_B \leq$ | $I_N \leq$ | I_Z | $I_2 \leq 1,45 \cdot I_Z$ | odc. | całości | dop. | |
| | | | V | kW | - | A | m | | | | | S/m | mΩ/m | mm ² | A | | - | - | A | | A | kA | mΩ | A | - | | | A | A | A | A | % | % | % | |
| ST-BW | ST-RGN | RGB | 400 | 230 | 0,89 | 375 | 50 | w-Z[(Cu)pvcT | 8 x YKY | 1 x | 120 | 58 | 0,08 | 240 | 326 | 2 | 0,70 | 1,00 | 456 | Typ06-gG-5,0s | 400 | 1,60 | 640 | 2750 | 5,0 | 46 | 159 ≤ 230 | 375 ≤ 400 ≤ 456 | 640 ≤ 662 | 0,52 | 0,54 | 1,00 | PRAWDA | | |
| RGB-101.0 | RGB | RM2 | 400 | 50 | 0,95 | 76 | 45 | c-Pw(Cu)pvc | YKYżo | 5 x | 25 | 58 | 0,08 | 25 | 112 | 1 | 0,80 | 1,00 | 90 | Typ06-gG-5,0s | 80 | 1,60 | 128 | 425 | 2,5 | 92 | 49 ≤ 230 | 76 ≤ 80 ≤ 90 | 128 ≤ 130 | 0,97 | 1,51 | 2,50 | PRAWDA | | |
| | RM2 | RM21 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,3 | 171 | 25 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 1,92 | 2,50 | PRAWDA | | |
| | RM2 | RM22 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,3 | 171 | 25 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 1,92 | 2,50 | PRAWDA | | |
| | RM2 | RM23 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,3 | 171 | 25 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 1,92 | 2,50 | PRAWDA | | |
| RGB-101.1 | RGB | R02 | 400 | 50 | 0,95 | 76 | 50 | c-Pw(Cu)pvc | YKYżo | 5 x | 25 | 58 | 0,08 | 25 | 112 | 1 | 0,80 | 1,00 | 90 | Typ06-gG-5,0s | 80 | 1,60 | 128 | 425 | 2,3 | 98 | 52 ≤ 230 | 76 ≤ 80 ≤ 90 | 128 ≤ 130 | 1,08 | 1,62 | 2,50 | PRAWDA | | |
| | R02 | R021 | 400 | 20 | 0,95 | 30 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 6 | 58 | 0,08 | 6 | 45 | 1 | 0,80 | 1,00 | 36 | Typ06-gG-5,0s | 32 | 1,60 | 51 | 149 | 1,5 | 151 | 28 ≤ 230 | 30 ≤ 32 ≤ 36 | 51 ≤ 52 | 0,36 | 1,98 | 2,50 | PRAWDA | | |
| | R02 | R022 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,3 | 178 | 26 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,02 | 2,50 | PRAWDA | | |
| | R02 | R023 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,3 | 178 | 26 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,02 | 2,50 | PRAWDA | | |
| | R02 | PTs-2.2 (istn.) | 400 | 30 | 0,85 | 51 | 40 | c-Pw(Cu)pvc | YDYżo | 5 x | 25 | 58 | 0,08 | 25 | 112 | 1 | 0,80 | 1,00 | 90 | Typ06-gG-5,0s | 63 | 1,60 | 101 | 338 | 1,5 | 150 | 64 ≤ 230 | 51 ≤ 63 ≤ 90 | 101 ≤ 130 | 0,52 | 2,14 | 2,50 | PRAWDA | | |
| | R02 | PTs-2.1 (istn.) | 400 | 5 | 0,95 | 8 | 50 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 0,4 | 518 | 75 ≤ 230 | 8 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,67 | 2,29 | 2,50 | PRAWDA | | |
| RGB-101.2 | RGB | R12 | 400 | 50 | 0,95 | 76 | 55 | c-Pw(Cu)pvc | YKYżo | 5 x | 25 | 58 | 0,08 | 25 | 112 | 1 | 0,80 | 1,00 | 90 | Typ06-gG-5,0s | 80 | 1,60 | 128 | 425 | 2,2 | 105 | 56 ≤ 230 | 76 ≤ 80 ≤ 90 | 128 ≤ 130 | 1,19 | 1,73 | 2,50 | PRAWDA | | |
| | R12 | R121 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,2 | 185 | 27 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,13 | 2,50 | PRAWDA | | |
| | R12 | R122 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,2 | 185 | 27 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,13 | 2,50 | PRAWDA | | |
| RGB-101.3 | RGB | R22 | 400 | 50 | 0,95 | 76 | 60 | c-Pw(Cu)pvc | YKYżo | 5 x | 25 | 58 | 0,08 | 25 | 112 | 1 | 0,80 | 1,00 | 90 | Typ06-gG-5,0s | 80 | 1,60 | 128 | 425 | 2,1 | 111 | 59 ≤ 230 | 76 ≤ 80 ≤ 90 | 128 ≤ 130 | 1,29 | 1,84 | 2,50 | PRAWDA | | |
| | R22 | R221 | 400 | 20 | 0,95 | 30 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 6 | 58 | 0,08 | 6 | 45 | 1 | 0,80 | 1,00 | 36 | Typ06-gG-5,0s | 32 | 1,60 | 51 | 149 | 1,4 | 164 | 31 ≤ 230 | 30 ≤ 32 ≤ 36 | 51 ≤ 52 | 0,36 | 2,19 | 2,50 | PRAWDA | | |
| | R22 | R222 | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,2 | 192 | 28 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,24 | 2,50 | PRAWDA | | |
| | R22 | R32W | 400 | 15 | 0,95 | 23 | 10 | c-Pw(Cu)pvc | YDYżo | 5 x | 4 | 58 | 0,08 | 4 | 36 | 1 | 0,80 | 1,00 | 29 | Typ06-gG-5,0s | 25 | 1,60 | 40 | 117 | 1,2 | 192 | 28 ≤ 230 | 23 ≤ 25 ≤ 29 | 40 ≤ 42 | 0,40 | 2,24 | 2,50 | PRAWDA | | |