

# Sprawdzenie dopuszczalnego spadku napięcia

|   | typ przewodu/kabla                            | długość<br>l | przekrój<br>S   | przewodność<br>$\gamma$ | moc<br>szczyt.<br>oblicz.<br>$P_B$ | napięcie<br>znamionowe<br>$U_N$ | spadek nap.<br>dopuszczalny<br>$\Delta U_{dop}$ | spadek nap.<br>obliczony<br>$\Delta U_{\%}$ | Warunek<br>$\Delta U_{dop} \geq \Delta U_{\%}$<br>spełniony TAK/NIE |
|---|-----------------------------------------------|--------------|-----------------|-------------------------|------------------------------------|---------------------------------|-------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|
|   | -                                             | m            | mm <sup>2</sup> |                         | kW                                 | V                               | %                                               |                                             | -                                                                   |
| 1 | ZKP - RG                                      |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKXS 4x35mm <sup>2</sup> *                    | 80           | 35              | 57                      | 48                                 | 400                             | 4                                               | 1,20                                        | TAK                                                                 |
| 1 | Agregat - RG                                  |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKXS 4x35mm <sup>2</sup> ***                  | 15           | 35              | 57                      | 48                                 | 400                             | 4                                               | 0,23                                        | TAK                                                                 |
| 2 | RG-RZST                                       |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKXS 5x35mm <sup>2</sup> ***                  | 10           | 35              | 57                      | 25,5                               | 400                             | 4                                               | 0,08                                        | TAK                                                                 |
| 3 | RG-RZH                                        |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKXS 5x35mm <sup>2</sup> ***                  | 5            | 35              | 57                      | 22,5                               | 400                             | 4                                               | 0,04                                        | TAK                                                                 |
| 4 | RZST-PGS4 18,5 kW                             |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKY 4x16mm <sup>2</sup> ***                   | 70           | 16              | 57                      | 18,5                               | 400                             | 4                                               | 0,89                                        | TAK                                                                 |
| 5 | RZST-PGS5 18,5 kW                             |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | YKY 4x16mm <sup>2</sup> ***                   | 110          | 16              | 57                      | 18,5                               | 400                             | 4                                               | 1,39                                        | TAK                                                                 |
| 6 | RZST-Dmuchawa 11 kW                           |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | 2xOlflex Clasic 100 4x2,5mm <sup>2</sup> **** | 60           | 5               | 57                      | 11                                 | 400                             | 4                                               | 1,45                                        | TAK                                                                 |
| 7 | RZST-PP 11kW                                  |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | 2xOlflex Clasic 100 4x2,5mm <sup>2</sup> **** | 25           | 5               | 57                      | 11                                 | 400                             | 4                                               | 0,60                                        | TAK                                                                 |
| 8 | RZH-ZH 7,5 kW                                 |              |                 |                         |                                    |                                 |                                                 |                                             |                                                                     |
|   | Olflex Clasic 100 4x4mm <sup>2</sup> ****     | 25           | 4               | 57                      | 7,5                                | 400                             | 4                                               | 0,51                                        | TAK                                                                 |

$$\Delta U_{\%} = \frac{P_B \cdot l}{\gamma \cdot S \cdot U_N^2} \cdot 10^5$$

$$\gamma_{Cu} = 57 \cdot \frac{S \cdot m}{mm^2}$$