$$K_{166}^{2} = \begin{bmatrix} \frac{-9\,U}{2\,t} & \frac{\frac{\mathbf{i}}{4}\left(3\,\mathbf{i}+\sqrt{3}\right)U^{2}}{t^{2}} & \frac{\frac{3\,\mathbf{i}}{2}\left(\mathbf{i}+\sqrt{3}\right)U}{\sqrt{2}\,t} \\ \frac{\frac{-\mathbf{i}}{4}\left(-3\,\mathbf{i}+\sqrt{3}\right)U^{2}}{t^{2}} & \frac{-3\,U}{2\,t} & 0 \\ \frac{\frac{-3\,\mathbf{i}}{2}\left(-\mathbf{i}+\sqrt{3}\right)U}{\sqrt{2}\,t} & 0 & \frac{-3\,U}{t} \end{bmatrix}$$