$$K_{166}^{1} = \begin{bmatrix} \mathbf{i}\sqrt{3} & \frac{U+\mathbf{i}\sqrt{3}\,U}{2\,t} & \frac{3+\mathbf{i}\sqrt{3}}{\sqrt{2}} \\ \frac{\frac{\mathbf{i}}{2}\left(\mathbf{i}+\sqrt{3}\right)U}{t} & -\mathbf{i}\sqrt{3} & 0 \\ \frac{\mathbf{i}\left(3\,\mathbf{i}+\sqrt{3}\right)}{\sqrt{2}} & 0 & 0 \end{bmatrix}$$