

$$\begin{aligned}
& \frac{-1/2[13][15]\langle 16 \rangle [24]^2 \langle 34 \rangle^2}{[34]\langle 1|5+6|1 \rangle^2 \langle 3|2+4|3 \rangle^2} + \\
& \frac{1[13][15]\langle 16 \rangle [24]^2 \langle 34 \rangle}{[34]^2 \langle 1|5+6|1 \rangle^2 \langle 3|2+4|3 \rangle} + \\
& \frac{1[12][15]\langle 16 \rangle [24]\langle 34 \rangle}{[34]\langle 1|5+6|1 \rangle^2 \langle 3|2+4|3 \rangle} + \\
& \frac{1/2[15]\langle 16 \rangle \langle 24 \rangle [24]^3 \langle 4|2+3|1 \rangle}{[34]^2 \langle 1|5+6|1 \rangle^2 \langle 4|2+3|4 \rangle^2} + \\
& \frac{3/2[13][15]\langle 16 \rangle [24]^2 \langle 34 \rangle}{[34]^2 \langle 1|5+6|1 \rangle^2 \langle 4|2+3|4 \rangle} + \\
& \frac{[12][15]\langle 16 \rangle \langle 1|12 \rangle \langle 13 \rangle [23]^2 [24] + 1/2 \langle 14 \rangle^2 [24]^2 [34] + 1/2 \langle 13 \rangle^2 [23]^2 [34])}{[23][34]\langle 1|5+6|1 \rangle^2 \langle 1|2+4|3 \rangle \langle 1|2+3|4 \rangle} + \\
& \frac{-3/2[12][15]\langle 16 \rangle [24]}{[34]^2 \langle 1|5+6|1 \rangle^2} + \\
& \frac{1[15]\langle 16 \rangle [24]^2 \langle 1|3+4|1 \rangle}{[34]^2 \langle 1|5+6|1 \rangle^2 \langle 1|2+3|4 \rangle} + \\
& \frac{3/2[15][23][24]\langle 34 \rangle \langle 36 \rangle}{[34]\langle 1|5+6|1 \rangle \langle 3|2+4|3 \rangle^2} + \\
& \frac{-5/2 \langle 13 \rangle [15][23]\langle 6|1+5|2 \rangle}{[34]\langle 1|5+6|1 \rangle \langle 1|2+4|3 \rangle \langle 3|2+4|3 \rangle} + \\
& \frac{-2[15][23]\langle 36 \rangle \langle 1|3+4|2 \rangle}{[34]\langle 1|5+6|1 \rangle \langle 1|2+4|3 \rangle \langle 3|2+4|3 \rangle} + \\
& \frac{-3[15][23]^2 [24]\langle 36 \rangle}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 3|2+4|3 \rangle} + \\
& \frac{-3/2[15][24]^2 \langle 34 \rangle \langle 46 \rangle}{[34]\langle 1|5+6|1 \rangle \langle 4|2+3|4 \rangle^2} + \\
& \frac{5/2 \langle 14 \rangle [15][24]^3 \langle 6|1+5|3 \rangle}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 1|2+3|4 \rangle \langle 4|2+3|4 \rangle} + \\
& \frac{2[15][24]^3 \langle 46 \rangle \langle 1|2+4|3 \rangle}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 1|2+3|4 \rangle \langle 4|2+3|4 \rangle} + \\
& \frac{-3/2[15][23][24]^2 \langle 46 \rangle}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 4|2+3|4 \rangle} + \\
& \frac{3[15]\langle 16 \rangle [23]\langle 1|3+4|2 \rangle}{[34]\langle 1|5+6|1 \rangle \langle 1|2+4|3 \rangle^2} + \\
& \frac{3[15]\langle 16 \rangle [23]^2 [24]}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 1|2+4|3 \rangle} + \\
& \frac{1/2[15]\langle 16 \rangle [23][24]^2}{[23][34]^2 \langle 1|5+6|1 \rangle \langle 1|2+3|4 \rangle}
\end{aligned}$$