$$\frac{(s_{12}+s_{13}+s_{24}+s_{34})(s_{13}-s_{24})(9/8\langle16\rangle\langle12\rangle[12][15]\ldots\langle\!\langle5\,\text{terms}\rangle\!\rangle\ldots+9/8\langle46\rangle[35][24]\langle23\rangle)}{\langle1|2+3|4]\langle2|1+4|3]^2\Delta_{14|23|56}}+$$

$$\frac{(s_{12}+s_{13}+s_{24}+s_{34})(s_{13}-s_{24})(s_{124}-s_{134})(33/32[25]\langle26\rangle-57/32\langle46\rangle[45])}{\langle1|2+3|4]\langle2|1+4|3]^2\Delta_{14|23|56}}+$$

$$\frac{(s_{13}-s_{24})(s_{124}-s_{134})(-3/8\langle46\rangle[35]\langle13\rangle[14]\ldots\langle\!\langle3\,\text{terms}\rangle\!\rangle\ldots+3/8\langle46\rangle[35][24]\langle23\rangle)}{\langle1|2+3|4]\langle2|1+4|3]^2\Delta_{14|23|56}}+$$

$$\frac{\langle46\rangle(s_{12}+s_{13}+s_{24}+s_{34})(s_{124}-s_{134})(-15/16[13]\langle13\rangle[45]+9/8[35]\langle13\rangle[14]+3/16[35][24]\langle23\rangle)}{\langle1|2+3|4]\langle2|1+4|3]^2\Delta_{14|23|56}}+$$

$$\frac{3/4\langle26\rangle[13](s_{124}-s_{134})[35]\langle13\rangle^2[12]}{\langle1|2+3|4]\langle2|1+4|3]^2\Delta_{14|23|56}}+$$

$$\frac{-3/8\langle2|1+3|5]\langle16\rangle\langle13\rangle[12][24](s_{123}-s_{234})}{\langle1|2+3|4]^2\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{-3/2\langle3|1+2|5]\,[13]\langle16\rangle\langle13\rangle[24](s_{123}-s_{234})}{\langle1|2+3|4]^2\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{9/64(s_{12}+s_{13}+s_{24}+s_{34})[25]\langle26\rangle s_{56}\langle3|1+4|2](s_{123}-s_{234})}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{-9/64(s_{12}+s_{13}+s_{24}+s_{34})[25]\langle26\rangle(s_{14}-s_{23})\langle3|1+4|2](s_{123}-s_{234})}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{27/64(s_{12}+s_{13}+s_{24}+s_{34})(s_{13}+s_{34})\langle3|1+4|2]\langle6|1+2|5](s_{123}-s_{234})}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{-27/32(s_{12}+s_{13}+s_{24}+s_{34})[25](s_{123}-s_{234})[13]\langle36\rangle\langle3|1+4|2]\langle12\rangle}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{9/16[45]\langle14\rangle^2\langle36\rangle[12]\ldots\langle\!\langle22\,\text{terms}\rangle\!\rangle\ldots+9/4[35]\langle13\rangle\langle36\rangle[12]^2\langle12\rangle}{\langle1|2+3|4]\langle2|1+4|3]\Delta_{14|23|56}}+$$

$$\frac{27/32(s_{12}+s_{13}+s_{24}+s_{34})[15]\langle3|1+4|2]\langle46\rangle\langle3|5+6|3]}{\langle2|1+4|3]\Delta_{14|23|56}^2}+$$

$$\frac{9/16[13][15]\langle3|1+4|2]\langle34\rangle\langle46\rangle}{\langle2|1+4|3]\langle4|2+3|1]\Delta_{14|23|56}}+$$

$$\frac{-9/16[15]\langle34\rangle\langle46\rangle[12](s_{123}-s_{234})}{\Delta_{14|23|56}\langle2|1+4|3]\langle4|2+3|1]}+$$

$$(123456\to-\overline{432165})+$$

$$\frac{-45/8\langle26\rangle[13](s_{124}-s_{134})[35]\langle24\rangle}{\langle2|1+4|3]^4}+$$

$$\frac{\langle12\rangle[13][35](15/8\langle24\rangle[24]\langle26\rangle+15/2\langle46\rangle[14]\langle12\rangle-15/8[12]\langle12\rangle\langle26\rangle+15/8\langle26\rangle\langle23\rangle[23])}{\langle12\rangle[34]\langle2|1+4|3]^3}+$$

$$\frac{15/8[13]^2[25]\langle12\rangle^2\langle26\rangle}{\langle12\rangle[34]\langle2|1+4|3]^3}+$$

$$\frac{\langle12\rangle[13][35](15/8[15][12]\langle12\rangle^2-15/8[45]\langle24\rangle^2[24]-15/4[45]\langle24\rangle[12]\langle12\rangle)}{\langle12\rangle[34][56]\langle2|1+4|3]^3}+$$

$$\frac{[13]\langle26\rangle(-15/8\langle24\rangle[34]\langle36\rangle[23]-15/8\langle26\rangle\langle24\rangle[24][23]+15/8\langle46\rangle[14]\langle14\rangle[34]-15/8\langle26\rangle\langle23\rangle[23]^2)}{[34]\langle56\rangle\langle2|1+4|3]^3}+$$

$$\frac{[13][35](87/8\langle13\rangle\langle24\rangle\langle26\rangle-81/4\langle24\rangle\langle36\rangle\langle12\rangle+87/8\langle46\rangle\langle12\rangle\langle23\rangle)}{\langle12\rangle\langle2|1+4|3]^3}+$$

$$\frac{[13][35](-15/8[45]\langle13\rangle\langle24\rangle^2+15/8[45]\langle24\rangle\langle34\rangle\langle12\rangle-15/8[35]\langle34\rangle\langle12\rangle\langle23\rangle)}{\langle12\rangle[56]\langle2|1+4|3]^3}+$$

$$\frac{\langle13\rangle(-21/2[13][35]\langle13\rangle\langle23\rangle\langle46\rangle[34]^2\ldots\langle\!\langle20\,\text{terms}\rangle\!\rangle\ldots-3/4[23][35]\langle23\rangle^2\langle46\rangle[34]^2)}{\langle12\rangle[34]\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]^2}+$$

$$\frac{-3/8[13][35]\langle13\rangle\langle23\rangle\langle46\rangle[34]\ldots\langle\!\langle35\,\text{terms}\rangle\!\rangle\ldots-15/8\langle26\rangle[35]\langle23\rangle[12]\langle12\rangle[23]}{\langle12\rangle[34]\langle56\rangle[56]\langle2|1+4|3]^2}+$$

$$\frac{3/2[45]\langle1|2+4|3]\langle2|1+3|5]\langle13\rangle[24]}{\langle12\rangle[34][56]\langle1|2+3|4]^2\langle2|1+4|3]}+$$

$$\frac{-33/4[35]\langle23\rangle\langle46\rangle[24]^2\langle12\rangle[34]\ldots\langle\!\langle26\,\text{terms}\rangle\!\rangle\ldots+3/4[14]\langle16\rangle[12][35][24]\langle12\rangle^2}{\langle12\rangle[34]^2\langle56\rangle[56]\langle1|2+3|4]\langle2|1+4|3]}+$$

$$\frac{3/2[13][14][35]\langle13\rangle\langle46\rangle\langle12\rangle\ldots\langle\!\langle9\,\text{terms}\rangle\!\rangle\ldots-3[13][35]\langle23\rangle\langle46\rangle[24]\langle12\rangle}{\langle12\rangle\langle24\rangle[34]^2\langle56\rangle[56]\langle2|1+4|3]}+$$

$$\frac{11/2[25][13]\langle23\rangle\langle46\rangle\langle12\rangle\ldots\langle\!\langle28\,\text{terms}\rangle\!\rangle\ldots-3/2[35]\langle34\rangle\langle23\rangle\langle46\rangle[34]}{\langle12\rangle\langle24\rangle[34]\langle56\rangle[56]\langle2|1+4|3]}+$$

$$\frac{-15/8[45]^2s_{123}\langle23\rangle^2}{\langle12\rangle[56]\langle2|1+3|4]^3}+$$

$$\frac{-3\langle46\rangle[45]\langle23\rangle^2[34]}{\langle12\rangle\langle24\rangle[34]\langle2|1+3|4]^2}+$$

$$\frac{-39/8[13]\langle13\rangle[45]^2\langle23\rangle}{\langle12\rangle[34][56]\langle2|1+3|4]^2}+$$

$$\frac{123/16\langle3|1+2|5][45]\langle23\rangle}{\langle12\rangle[56]\langle2|1+3|4]^2}+$$

$$\frac{-11/4\langle46\rangle^2[14]\langle23\rangle}{\langle24\rangle^2[34]\langle56\rangle\langle2|1+3|4]}+$$

$$\frac{21/4[14][35]\langle13\rangle\langle23\rangle\langle46\rangle\ldots\langle\!\langle3\,\text{terms}\rangle\!\rangle\ldots+21/4\langle46\rangle[35][24]\langle23\rangle^2}{\langle12\rangle\langle24\rangle[34]\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{\langle13\rangle(-39/8[13][45][24]\langle26\rangle+3/2\langle16\rangle[14]^2[35])}{\langle12\rangle[34]^2\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{3/2\langle13\rangle[14][25]\langle26\rangle\ldots\langle\!\langle4\,\text{terms}\rangle\!\rangle\ldots-8\langle36\rangle[25][14]\langle12\rangle}{\langle12\rangle[34]\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{3[23]\langle1|3+4|2]\langle26\rangle\langle16\rangle[34]}{\langle12\rangle[34]^2\langle56\rangle\langle1|2+4|3]^2}+$$

$$\frac{3\langle16\rangle\langle6|1+5|4][23]^2}{[34]^2\langle56\rangle\langle1|2+4|3]^2}+$$

$$\frac{-45/4\langle16\rangle\langle6|1+5|2][23]}{[34]\langle56\rangle\langle1|2+4|3]^2}+$$

$$\frac{\langle26\rangle[23](-3[45]\langle24\rangle\langle14\rangle[24]-3/2\langle2|3[13]\langle23\rangle[23])}{\langle12\rangle\langle24\rangle[34]^2\langle56\rangle[56]\langle1|2+4|3]}+$$

$$\frac{93/4[45]\langle14\rangle\langle46\rangle[12]\langle12\rangle\ldots\langle\!\langle9\,\text{terms}\rangle\!\rangle\ldots-81/4[25]\langle46\rangle\langle24\rangle[24]\langle12\rangle}{\langle12\rangle\langle24\rangle[34]\langle56\rangle[56]\langle1|2+4|3]}+$$

$$\frac{\langle46\rangle\langle34\rangle(3/2[45]\langle14\rangle+3/2[25]\langle12\rangle)}{\langle12\rangle\langle24\rangle\langle56\rangle[56]\langle1|2+4|3]}$$