

The group G is isomorphic to the group labelled by [24, 6] in the Small Groups library.

Ordinary character table of $G \cong \text{D24}$:

	1a	12a	6a	4a	3a	12b	2a	2b	2c
χ_1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	1	-1	-1
χ_3	1	-1	1	-1	1	-1	1	1	-1
χ_4	1	-1	1	-1	1	-1	1	-1	1
χ_5	2	$-E(12)^7 + E(12)^{11}$	1	0	-1	$E(12)^7 - E(12)^{11}$	-2	0	0
χ_6	2	1	-1	-2	-1	1	2	0	0
χ_7	2	0	-2	0	2	0	-2	0	0
χ_8	2	-1	-1	2	-1	-1	2	0	0
χ_9	2	$E(12)^7 - E(12)^{11}$	1	0	-1	$-E(12)^7 + E(12)^{11}$	-2	0	0

Trivial source character table of $G \cong \text{D24}$ at $p = 3$:

Normalisers N_i	N_1					N_2				
p -subgroups of G up to conjugacy in G	P_1					P_2				
Representatives $n_j \in N_i$	1a	2b	4a	2a	2c	1a	4a	2a	2c	2b
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	3	1	3	3	1	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	3	-1	3	3	-1	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	3	1	-3	3	-1	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	3	-1	-3	3	1	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$	6	0	0	-6	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	1	-1	1	1	-1	1	1	-1	-1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	1	1	-1	1	-1	1	-1	1	-1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	1	-1	-1	1	1	1	-1	-1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	2	0	0	-2	0	2	0	0	0	-2

$$P_1 = \text{Group}([()]) \cong 1$$

$$P_2 = \text{Group}([(1, 12, 5)(2, 16, 8)(3, 18, 10)(4, 19, 11)(6, 21, 14)(7, 22, 15)(9, 23, 17)(13, 24, 20)]) \cong \text{C3}$$

$$N_1 = \text{Group}([(1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{D24}$$

$$N_2 = \text{Group}([(1, 12, 5)(2, 16, 8)(3, 18, 10)(4, 19, 11)(6, 21, 14)(7, 22, 15)(9, 23, 17)(13, 24, 20), (1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24)]) \cong \text{D24}$$