

The group G is isomorphic to the group labelled by [336, 114] in the Small Groups library.
 Ordinary character table of $G \cong \text{SL}(2,7)$:

	1a	2a	4a	3a	6a	8a	8b	7a	14a	7b	14b
χ_1	1	1	1	1	1	1	1	1	1	1	1
χ_2	3	3	-1	0	0	1	1	$E(7) + E(7)^2 + E(7)^4$	$E(7) + E(7)^2 + E(7)^4$	$E(7)^3 + E(7)^5 + E(7)^6$	$E(7)^3 + E(7)^5 + E(7)^6$
χ_3	3	3	-1	0	0	1	1	$E(7)^3 + E(7)^5 + E(7)^6$	$E(7)^3 + E(7)^5 + E(7)^6$	$E(7) + E(7)^2 + E(7)^4$	$E(7) + E(7)^2 + E(7)^4$
χ_4	6	6	2	0	0	0	0	-1	-1	-1	-1
χ_5	7	7	-1	1	1	-1	-1	0	0	0	0
χ_6	8	8	0	-1	-1	0	0	1	1	1	1
χ_7	4	-4	0	1	-1	0	0	$-E(7) - E(7)^2 - E(7)^4$	$E(7) + E(7)^2 + E(7)^4$	$-E(7)^3 - E(7)^5 - E(7)^6$	$E(7)^3 + E(7)^5 + E(7)^6$
χ_8	4	-4	0	1	-1	0	0	$-E(7)^3 - E(7)^5 - E(7)^6$	$E(7)^3 + E(7)^5 + E(7)^6$	$-E(7) - E(7)^2 - E(7)^4$	$E(7) + E(7)^2 + E(7)^4$
χ_9	6	-6	0	0	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	-1	1	-1	1
χ_{10}	6	-6	0	0	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	-1	1	-1	1
χ_{11}	8	-8	0	-1	1	0	0	1	-1	1	-1

Trivial source character table of $G \cong \text{SL}(2,7)$ at $p = 2$:

Normalisers N_i	N_1						N_2						N_3	N_4	N_5	N_6	N_7	
p -subgroups of G up to conjugacy in G	P_1						P_2						P_3	P_4	P_5	P_6	P_7	
Representatives $n_j \in N_i$	1a	3a	7a		7b		1a	3a	7a		7b		1a	1a	3a	1a	3a	1a
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	16	4	2		2		0	0	0		0		0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11}$	32	2	$4 * E(7) + 4 * E(7)^2 + 2 * E(7)^3 + 4 * E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		$2 * E(7) + 2 * E(7)^2 + 4 * E(7)^3 + 2 * E(7)^4 + 4 * E(7)^5 + 4 * E(7)^6$		0	0	0		0		0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11}$	32	2	$2 * E(7) + 2 * E(7)^2 + 4 * E(7)^3 + 2 * E(7)^4 + 4 * E(7)^5 + 4 * E(7)^6$		$4 * E(7) + 4 * E(7)^2 + 2 * E(7)^3 + 4 * E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		0	0	0		0		0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11}$	16	-2	2		2		0	0	0		0		0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	8	2	1		1		8	2	1		1		0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	16	1	$2 * E(7) + 2 * E(7)^2 + E(7)^3 + 2 * E(7)^4 + E(7)^5 + E(7)^6$		$E(7) + E(7)^2 + 2 * E(7)^3 + E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		16	1	$2 * E(7) + 2 * E(7)^2 + E(7)^3 + 2 * E(7)^4 + E(7)^5 + E(7)^6$		$E(7) + E(7)^2 + 2 * E(7)^3 + E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	16	1	$E(7) + E(7)^2 + 2 * E(7)^3 + E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		$2 * E(7) + 2 * E(7)^2 + E(7)^3 + 2 * E(7)^4 + E(7)^5 + E(7)^6$		16	1	$E(7) + E(7)^2 + 2 * E(7)^3 + E(7)^4 + 2 * E(7)^5 + 2 * E(7)^6$		$2 * E(7) + 2 * E(7)^2 + E(7)^3 + 2 * E(7)^4 + E(7)^5 + E(7)^6$		0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	8	-1	1		1		8	-1	1		1		0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 2 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	20	2	-1		-1		20	2	-1		-1		4	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	14	2	0		0		14	2	0		0		2	2	2	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	6	0	-1		-1		6	0	-1		-1		2	2	-1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	14	2	0		0		14	2	0		0		2	0	0	2	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	6	0	-1		-1		6	0	-1		-1		2	0	0	2	-1	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 2 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	26	2	-2		-2		26	2	-2		-2		2	0	0	0	0	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	1	1	1		1		1	1	1		1		1	1	1	1	1	1

- $P_1 = \text{Group}([\{\}]) \cong 1$
- $P_2 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16)]) \cong \text{C}2$
- $P_3 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14)]) \cong \text{C}4$
- $P_4 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 13, 4, 15)(2, 14, 3, 16)(5, 6, 7, 8)(9, 12, 10, 11)]) \cong \text{Q}8$
- $P_5 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 7, 4, 5)(2, 9, 3, 10)(6, 16, 8, 14)(11, 13, 12, 15)]) \cong \text{Q}8$
- $P_6 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 12, 2, 6, 4, 11, 3, 8)(5, 16, 9, 15, 7, 14, 10, 13)]) \cong \text{C}8$
- $P_7 = \text{Group}([(1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 13, 4, 15)(2, 14, 3, 16)(5, 6, 7, 8)(9, 12, 10, 11), (1, 7, 4, 5)(2, 9, 3, 10)(6, 16, 8, 14)(11, 13, 12, 15)]) \cong \text{Q}16$

- $N_1 = \text{Group}([(1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (2, 5, 6)(3, 7, 8)(9, 13, 14)(10, 15, 16)]) \cong \text{SL}(2,7)$
- $N_2 = \text{Group}([(1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (2, 5, 6)(3, 7, 8)(9, 13, 14)(10, 15, 16)]) \cong \text{SL}(2,7)$
- $N_3 = \text{Group}([(1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 5, 4, 7)(2, 10, 3, 9)(6, 14, 8, 16)(11, 15, 12, 13), (1, 6, 3, 12, 4, 8, 2, 11)(5, 15, 10, 16, 7, 13, 9, 14)]) \cong \text{Q}16$
- $N_4 = \text{Group}([(1, 13, 4, 15)(2, 14, 3, 16)(5, 6, 7, 8)(9, 12, 10, 11), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (2, 13, 14)(3, 15, 16)(6, 12, 9)(8, 11, 10), (1, 5, 4, 7)(2, 8, 3, 6)(9, 13, 10, 15)(11, 16, 12, 14)]) \cong \text{C}2 \cdot \text{S}4 = \text{SL}(2,3) \cdot \text{C}2$
- $N_5 = \text{Group}([(1, 7, 4, 5)(2, 9, 3, 10)(6, 16, 8, 14)(11, 13, 12, 15), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (2, 5, 9)(3, 7, 10)(6, 14, 12)(8, 16, 11), (1, 6, 3, 12, 4, 8, 2, 11)(5, 15, 10, 16, 7, 13, 9, 14)]) \cong \text{C}2 \cdot \text{S}4 = \text{SL}(2,3) \cdot \text{C}2$
- $N_6 = \text{Group}([(1, 12, 2, 6, 4, 11, 3, 8)(5, 16, 9, 15, 7, 14, 10, 13), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16), (1, 5, 4, 7)(2, 10, 3, 9)(6, 14, 8, 16)(11, 15, 12, 13)]) \cong \text{Q}16$
- $N_7 = \text{Group}([(1, 7, 4, 5)(2, 9, 3, 10)(6, 16, 8, 14)(11, 13, 12, 15), (1, 13, 4, 15)(2, 14, 3, 16)(5, 6, 7, 8)(9, 12, 10, 11), (1, 2, 4, 3)(5, 9, 7, 10)(6, 11, 8, 12)(13, 16, 15, 14), (1, 4)(2, 3)(5, 7)(6, 8)(9, 10)(11, 12)(13, 15)(14, 16)]) \cong \text{Q}16$