The group G is isomorphic to the group labelled by [336, 114] in the Small Groups library.

Ordinary character table of $G \cong \mathrm{SL}(2,7)$:

χ	$1a$	$2a$	$4a$	$3a$	$6a$	$8a$	$8b$	$7a$	$14a$	$7b$	$14b$
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 $G \cong \mathrm{SL}(2,7)$ at $p = 3$:

Normalisers N_i									N_1				N_2			
p-subgroups of G up to conjugacy in G									P_1				P_2			
Representatives $n_j \in N_i$	$1a$	$7a$	$7b$	$4a$	$8a$	$8b$	$14a$	$14b$	$2a$	$1a$	$4a$	$2a$	$4b$
---	---	---	---	---	---	---	---	---	---	---	---	---	---
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	9	2	2	1	1	1	2	2	9	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	3	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$	-1	1	1	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$	3	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	3	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$	-1	1	1	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$	3	0	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	-1	-1	2	0	0	-1	-1	6	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	15	1	1	-1	-1	-1	1	1	15	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11}$	12	$-2*E(7)-2*E(7)^2-E(7)^3-2*E(7)^4-E(7)^5-E(7)^6$	$-E(7)-E(7)^2-2*E(7)^3-E(7)^4-2*E(7)^5-2*E(7)^6$	0	0	0	$2*E(7)+2*E(7)^2+E(7)^3+2*E(7)^4+E(7)^5+E(7)^6$	$E(7)+E(7)^2+2*E(7)^3+E(7)^4+2*E(7)^5+2*E(7)^6$	-12	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11}$	12	$-E(7)-E(7)^2-2*E(7)^3-E(7)^4-2*E(7)^5-2*E(7)^6$	$-2*E(7)-2*E(7)^2-E(7)^3-2*E(7)^4-E(7)^5-E(7)^6$	0	0	0	$E(7)+E(7)^2+2*E(7)^3+E(7)^4+2*E(7)^5+2*E(7)^6$	$2*E(7)+2*E(7)^2+E(7)^3+2*E(7)^4+E(7)^5+E(7)^6$	-12	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	6	-1	-1	0	$E(8)-E(8)^3$	$-E(8)+E(8)^3$	1	1	-6	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11}$	6	-1	-1	0	$-E(8)+E(8)^3$	$E(8)-E(8)^3$	1	1	-6	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	1	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	7	0	0	-1	-1	-1	0	0	7	1	-1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	4	$-E(7)-E(7)^2-E(7)^4$	$-E(7)^3-E(7)^5-E(7)^6$	0	0	0	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$	-4	1	$E(4)$	-1	$-E(4)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	4	$-E(7)^3-E(7)^5-E(7)^6$	$-E(7)-E(7)^2-E(7)^4$	0	0	0	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$	-4	1	$-E(4)$	-1	$E(4)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(5,14,12)(6,13,9)(7,16,11)(8,15,10)]) \cong \mathrm{C3}$

$N_1 = Group([(1,2,4,3)(5,9,7,10)(6,11,8,12)(13,16,15,14), (2,5,6)(3,7,8)(9,13,14)(10,15,16)]) \cong \mathrm{SL}(2,7)$
$N_2 = Group([(5,14,12)(6,13,9)(7,16,11)(8,15,10), (1,2,4,3)(5,6,7,8)(9,16,10,14)(11,15,12,13)]) \cong \mathrm{C3 : C4}$