The group G is isomorphic to the alternating group A7.
Ordinary character table of $G \cong$ A7:

	$1a$	$2a$	$3a$	$3b$	$4a$	$5a$	$6a$	$7a$	$7b$
χ_1	1	1	1	1	1	1	1	1	1
χ_2	6	2	3	0	0	1	-1	-1	-1
χ_3	10	-2	1	1	0	0	1	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$
χ_4	10	-2	1	1	0	0	1	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$
χ_5	14	2	2	-1	0	-1	2	0	0
χ_6	14	2	-1	2	0	-1	-1	0	0
χ_7	15	-1	3	0	-1	0	-1	1	1
χ_8	21	1	-3	0	-1	1	1	0	0
χ_9	35	-1	-1	-1	1	0	-1	0	0

Trivial source character table of $G \cong$ A7 at $p = 3$:

Normalisers N_i	N_1						N_2				N_3		N_4			
p-subgroups of G up to conjugacy in G	P_1						P_2				P_3		P_4			
Representatives $n_j \in N_i$	$1a$	$2a$	$4a$	$5a$	$7a$	$7b$	$1a$	$2a$	$2b$	$4a$	$1a$	$2a$	$1a$	$4a$	$2a$	$4b$
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9$	63	3	1	-2	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9$	36	0	-2	1	1	1	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9$	45	-3	1	0	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9$	45	-3	1	0	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9$	27	3	-1	2	-1	-1	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+2\cdot\chi_9$	99	3	3	-1	1	1	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	6	2	0	1	-1	-1	3	1	-1	-1	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	15	-1	-1	0	1	1	3	-1	-1	1	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9$	69	-3	1	-1	-1	-1	3	-1	3	-1	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	15	3	1	0	1	1	3	1	3	1	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9$	69	-3	1	-1	-1	-1	0	0	0	0	3	-1	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	15	3	1	0	1	1	0	0	0	0	3	1	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	1	1	1	1	1	1
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	28	4	0	-2	0	0	1	1	1	1	1	1	1	-1	1	-1
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	10	-2	0	0	$E(7)+E(7)^2+E(7)^4$	$E(7)^3+E(7)^5+E(7)^6$	1	-1	1	-1	1	-1	1	$-E(4)$	-1	$E(4)$
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	10	-2	0	0	$E(7)^3+E(7)^5+E(7)^6$	$E(7)+E(7)^2+E(7)^4$	1	-1	1	-1	1	-1	1	$E(4)$	-1	$-E(4)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(3,4,5)]) \cong$ C3
$P_3 = Group([(1,6,7)(3,4,5)]) \cong$ C3
$P_4 = Group([(3,4,5),(1,6,7)]) \cong$ C3 x C3

$N_1 = AlternatingGroup([1..7]) \cong$ A7
$N_2 = Group([(1,6)(2,7),(2,6,7),(3,4,5),(1,2,6,7)(4,5)]) \cong$ (C3 x A4) : C2
$N_3 = Group([(1,6,7)(3,4,5),(3,4,5),(3,5)(6,7)]) \cong$ (C3 x C3) : C2
$N_4 = Group([(1,6,7),(3,4,5),(3,5)(6,7),(1,3,6,5)(4,7)]) \cong$ (C3 x C3) : C4