

The group G is isomorphic to the projective special unitary group PSU(3,3).
Ordinary character table of $G \cong$ PSU(3,3):

	1a	2a	3a	3b	4a	4b	4c	6a	7a	7b	8a	8b	12a	12b
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	6	-2	-3	0	-2	-2	2	1	-1	-1	0	0	1	1
χ_3	7	-1	-2	1	3	3	-1	2	0	0	-1	-1	0	0
χ_4	7	3	-2	1	$-1+2 * E(4)$	$-1-2 * E(4)$	1	0	0	0	$E(4)$	$-E(4)$	$-1+E(4)$	$-1-E(4)$
χ_5	7	3	-2	1	$-1-2 * E(4)$	$-1+2 * E(4)$	1	0	0	0	$-E(4)$	$E(4)$	$-1-E(4)$	$-1+E(4)$
χ_6	14	-2	5	-1	2	2	2	1	0	0	0	0	-1	-1
χ_7	21	5	3	0	1	1	1	-1	0	0	-1	-1	1	1
χ_8	21	1	3	0	$-3+2 * E(4)$	$-3-2 * E(4)$	-1	1	0	0	$-E(4)$	$E(4)$	$E(4)$	$-E(4)$
χ_9	21	1	3	0	$-3-2 * E(4)$	$-3+2 * E(4)$	-1	1	0	0	$E(4)$	$-E(4)$	$-E(4)$	$E(4)$
χ_{10}	27	3	0	0	3	3	-1	0	-1	-1	1	1	0	0
χ_{11}	28	-4	1	1	$4 * E(4)$	$-4 * E(4)$	0	-1	0	0	0	0	$-E(4)$	$E(4)$
χ_{12}	28	-4	1	1	$-4 * E(4)$	$4 * E(4)$	0	-1	0	0	0	0	$E(4)$	$-E(4)$
χ_{13}	32	0	-4	-1	0	0	0	0	$-E(7)^{\frown}3-E(7)^{\frown}5-E(7)^{\frown}6$	$-E(7)-E(7)^{\frown}2-E(7)^{\frown}4$	0	0	0	0
χ_{14}	32	0	-4	-1	0	0	0	0	$-E(7)-E(7)^{\frown}2-E(7)^{\frown}4$	$-E(7)^{\frown}3-E(7)^{\frown}5-E(7)^{\frown}6$	0	0	0	0

Trivial source character table of $G \cong$ PSU(3,3) at $p=2$

<i>Normalisers</i> N_i	N_1						N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_{10}	N_{11}	N_{12}	N_{13}
<i>p</i> – subgroups of <i>G</i> up to conjugacy in <i>G</i>	P_1						P_2	P_3	P_4	P_5	P_6	P_7	P_8	P_9	P_{10}	P_{11}	P_{12}	P_{13}
<i>Representatives</i> $n_j \in N_i$	1a	3a	3b	7a	7b		1a	3a	1a	3b	1a	3a	1a	3a	1a	1a	3a	1a
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	224	8	8	0	0		0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 2 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	256	4	7	-3	-3		0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	160	16	1	-1	-1		0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	32	-4	-1	$-E(7)^{\frown}3-E(7)^{\frown}5-E(7)^{\frown}6$	$-E(7)-E(7)^{\frown}2-E(7)^{\frown}4$		0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14}$	32	-4	-1	$-E(7)-E(7)^{\frown}2-E(7)^{\frown}4$	$-E(7)^{\frown}3-E(7)^{\frown}5-E(7)^{\frown}6$		0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	112	4	4	0	0		16	4	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 2 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	208	10	4	-2	-2		16	-2	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 2 \cdot \chi_4 + 2 \cdot \chi_5 + 0 \cdot \chi_6 + 3 \cdot \chi_7 + 2 \cdot \chi_8 + 2 \cdot \chi_9 + 3 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	376	16	10	-2	-2		24	0	8	2	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	152	8	2	-2	-2		24	0	8	-1	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 2 \cdot \chi_2 + 1 \cdot \chi_3 + 3 \cdot \chi_4 + 3 \cdot \chi_5 + 2 \cdot \chi_6 + 5 \cdot \chi_7 + 3 \cdot \chi_8 + 3 \cdot \chi_9 + 5 \cdot \chi_{10} + 4 \cdot \chi_{11} + 4 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	680	32	14	-6	-6		24	0	0	0	8	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	56	2	2	0	0		8	2	0	0	0	8	2	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 3 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	312	15	6	-3	-3		8	-1	0	0	0	8	-1	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	28	1	1	0	0		4	1	0	0	0	4	1	2	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 2 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	92	20	-1	1	1		4	4	0	0	4	0	4	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	124	-2	4	-2	-2		4	-2	0	0	4	0	-2	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	36	0	3	1	1		12	0	8	2	4	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 2 \cdot \chi_4 + 2 \cdot \chi_5 + 2 \cdot \chi_6 + 5 \cdot \chi_7 + 2 \cdot \chi_8 + 2 \cdot \chi_9 + 5 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	500	32	8	-4	-4		36	0	12	0	4	12	0	0	0	4	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	126	18	0	0	0		14	2	6	0	2	2	2	0	2	2	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	62	-1	2	-1	-1		14	-1	6	0	2	2	-1	2	2	2	-1	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	126	0	6	0	0		6	0	2	2	2	6	0	0	0	0	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	62	8	-1	-1	-1		6	0	2	-1	2	6	0	0	0	0	2	-1
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 3 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	250	16	4	-2	-2		18	0	6	0	2	6	0	2	0	0	0	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1

$P_1 = Group([(1)]) \cong 1$

$P_2 = Group([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27)]) \cong C2$

$P_3 = Group([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong C2 \times C2$

$P_4 = Group([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27)]) \cong C4$

$P_5 = Group([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,14,6,10)(2,26,28,22)(3,18,24,7)(8,13,21,23)(9,12,11,16)(15,25,20,27)]) \cong C4$

$P_6 = Group([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,14,6,10)(2,26,28,22)(3,18,24,7)(8,13,21,23)(9,12,11,16)(15,25,20,27),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong C8$

$P_7 = Group([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,24,6,3)(2,9,28,11)(4,17)(5,19)(7,10,18,14)(8,13,21,23)(12,22,16,26)(15,27,20,25)]) \cong Q8$

$P_8 = Group([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong D8$

$P_9 = Group([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong C4 \times C2$

$P_{10} = Group([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong (C4 \times C2) : C2$

$P_{11} = Group([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong C4 \times C4$

$P_{12} = Group([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong C8 : C2$

$P_{13} = Group([(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong (C4 \times C4) : C2$

$N_1 = Group([(2,3)(4,6)(5,8)(7,11)(9,13)(10,15)(12,14)(16,20)(17,22)(18,23)(24,27)(25,28),(1,2,4,7,12,17)(3,5,9,14,19,22)(6,10,13,18,24,23)(8,11,16,21,26,28)(20,25,27)]) \cong PSU(3,3)$

$N_2 = Group([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,2,14,26,6,28,10,22)(3,9,18,12,24,11,7,16)(5,19)(8,27,13,15,21,25,23,20),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(1,10,6,14)(2,25,11,13)(3,24)(4,17,19,5)(7,18)(8,22,15,12)(9,23,28,27)(16,21,26,20)]) \cong SL(2,3) : C4$

$N_3 = Group([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,6)(2,21,9,15)(3,7,24,18)(4,5,19,17)(8,11,20,28)(10,$