The group G is isomorphic to the group labelled by [240, 90] in the Small Groups library.
Ordinary character table of $G \cong \mathrm{SL}(2,5) : \mathrm{C2}$:

	1a	2a	4a	3a	6a	5a	10a	2b	8a	8b	6b	6c
χ_1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	1	−1	−1	−1	−1	−1
χ_3	6	6	−2	0	0	1	1	0	0	0	0	0
χ_4	4	4	0	1	1	−1	−1	2	0	0	−1	−1
χ_5	4	4	0	1	1	−1	−1	−2	0	0	1	1
χ_6	5	5	1	−1	−1	0	0	1	−1	−1	1	1
χ_7	5	5	1	−1	−1	0	0	−1	1	1	−1	−1
χ_8	4	−4	0	−2	2	−1	1	0	0	0	0	0
χ_9	4	−4	0	1	−1	−1	1	0	0	0	$E(3)-E(3)^2$	$-E(3)+E(3)^2$
χ_{10}	4	−4	0	1	−1	−1	1	0	0	0	$-E(3)+E(3)^2$	$E(3)-E(3)^2$
χ_{11}	6	−6	0	0	0	1	−1	0	$E(8)+E(8)^3$	$-E(8)-E(8)^3$	0	0
χ_{12}	6	−6	0	0	0	1	−1	0	$-E(8)-E(8)^3$	$E(8)+E(8)^3$	0	0

Trivial source character table of $G \cong \mathrm{SL}(2,5) : \mathrm{C2}$ at $p = 2$:

Normalisers N_i	N_1			N_2			N_3			N_4		N_5	N_6	N_7	N_8	N_9
p-subgroups of G up to conjugacy in G	P_1			P_2			P_3			P_4		P_5	P_6	P_7	P_8	P_9
Representatives $n_j \in N_i$	1a	3a	5a	1a	3a	5a	1a	3a	3b	1a	3a	1a	1a	1a	3a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12}$	48	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	32	−4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	16	4	−4	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	24	0	4	24	0	4	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	16	−2	1	16	−2	1	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	8	2	−2	8	2	−2	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	24	0	4	0	0	0	2	2	2	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	8	2	−2	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	8	2	−2	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	12	0	2	12	0	2	2	2	2	2	2	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	4	1	−1	4	1	−1	2	−1	−1	2	−1	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	12	0	2	12	0	2	0	0	0	0	0	4	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	6	0	1	6	0	1	2	2	2	2	2	2	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	2	2	2	2	2	2	0	0	0	0	0	2	0	2	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	10	−2	0	10	−2	0	0	0	0	0	0	2	0	2	−1	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	6	0	1	6	0	1	0	0	0	0	0	2	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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

$P_2 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34)]) \cong \mathrm{C2}$

$P_3 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{C2}$

$P_4 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{C2} \times \mathrm{C2}$

$P_5 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,32,19,34)(2,28,13,8)(3,29,10,11)(4,14,24,37)(5,40,7,27)(6,20,18,38)(9,16,26,35)(12,39,30,22)(15,23,17,21)(25,36,33,31)]) \cong \mathrm{C4}$

$P_6 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,34)(2,37)(3,38)(4,8)(5,40)(6,11)(7,27)(10,20)(12,30)(13,14)(15,17)(16,35)(18,29)(19,32)(24,28)(25,36)(31,33), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{D8}$

$P_7 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,26,19,9)(2,3,13,10)(4,38,24,20)(5,30,7,12)(6,14,18,37)(8,29,28,11)(15,25,17,33)(16,34,35,32)(21,36,23,31)(22,40,39,27), (1,32,19,34)(2,28,13,8)(3,29,10,11)(4,14,24,37)(5,40,7,27)(6,20,18,38)(9,16,26,35)(12,39,30,22)(15,23,17,21)(25,36,33,31)]) \cong \mathrm{Q8}$

$P_8 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,35,34,26,19,16,32,9)(2,6,8,38,13,18,28,20)(3,24,11,14,10,4,29,37)(5,39,27,12,7,22,40,30)(15,33,21,36,17,25,23,31), (1,32,19,34)(2,28,13,8)(3,29,10,11)(4,14,24,37)(5,40,7,27)(6,20,18,38)(9,16,26,35)(12,39,30,22)(15,23,17,21)(25,36,33,31)]) \cong \mathrm{C8}$

$P_9 = Group([(1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,34)(2,37)(3,38)(4,8)(5,40)(6,11)(7,27)(10,20)(12,30)(13,14)(15,17)(16,35)(18,29)(19,32)(24,28)(25,36)(31,33), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,26,19,9)(2,3,13,10)(4,38,24,20)(5,30,7,12)(6,14,18,37)(8,29,28,11)(15,25,17,33)(16,34,35,32)(21,36,23,31)(22,40,39,27)]) \cong \mathrm{QD16}$

$N_1 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,2,5,10,19,13,7,3)(4,8,15,26,24,28,17,9)(6,11,21,30,18,29,23,12)(14,22,32,33,37,39,34,25)(16,27,36,38,35,40,31,20)]) \cong \mathrm{SL}(2,5) : \mathrm{C2}$

$N_2 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,2,5,10,19,13,7,3)(4,8,15,26,24,28,17,9)(6,11,21,30,18,29,23,12)(14,22,32,33,37,39,34,25)(16,27,36,38,35,40,31,20)]) \cong \mathrm{SL}(2,5) : \mathrm{C2}$

$N_3 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,27,36,19,40,31)(2,28,35,24,14,9)(3,11,22,18,38,30)(4,37,26,13,8,16)(5,34,25)(6,20,12,10,29,39)(7,32,33)(15,23)(17,21)]) \cong \mathrm{C6} \times \mathrm{C2}$

$N_4 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,7)(3,10)(4,24)(5,19)(8,9)(11,30)(12,29)(14,35)(16,37)(20,22)(21,23)(25,27)(26,28)(31,34)(32,36)(33,40)(38,39), (1,40,36)(2,8,35,4,14,26)(3,29,22,6,38,12)(5,32,25,7,34,33)(9,13,28,16,24,37)(10,11,39,18,20,30)(15,21)(17,23)(19,27,31)]) \cong (\mathrm{C6} \times \mathrm{C2}) : \mathrm{C2}$

$N_5 = Group([(1,32,19,34)(2,28,13,8)(3,29,10,11)(4,14,24,37)(5,40,7,27)(6,20,18,38)(9,16,26,35)(12,39,30,22)(15,23,17,21)(25,36,33,31), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{QD16}$

$N_6 = Group([(2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,34)(2,37)(3,38)(4,8)(5,40)(6,11)(7,27)(10,20)(12,30)(13,14)(15,17)(16,35)(18,29)(19,32)(24,28)(25,36)(31,33), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (1,26,19,9)(2,3,13,10)(4,38,24,20)(5,30,7,12)(6,14,18,37)(8,29,28,11)(15,25,17,33)(16,34,35,32)(21,36,23,31)(22,40,39,27)]) \cong \mathrm{QD16}$

$N_7 = Group([(1,32,19,34)(2,28,13,8)(3,29,10,11)(4,14,24,37)(5,40,7,27)(6,20,18,38)(9,16,26,35)(12,39,30,22)(15,23,17,21)(25,36,33,31), (1,26,19,9)(2,3,13,10)(4,38,24,20)(5,30,7,12)(6,14,18,37)(8,29,28,11)(15,25,17,33)(16,34,35,32)(21,36,23,31)(22,40,39,27), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{GL}(2,3)$

$N_8 = Group([(1,35,34,26,19,16,32,9)(2,6,8,38,13,18,28,20)(3,24,11,14,10,4,29,37)(5,39,27,12,7,22,40,30)(15,33,21,36,17,25,23,31), (1,34,19,32)(2,8,13,28)(3,11,10,29)(4,37,24,14)(5,7,27,40)(6,38,18,20)(9,35,26,16)(12,22,30,39)(15,21,17,23)(25,31,33,36), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(26,35)(27,40)(31,36)(32,34), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34)]) \cong \mathrm{QD16}$

$N_9 = Group([(1,26,19,9)(2,3,13,10)(4,38,24,20)(5,30,7,12)(6,14,18,37)(8,29,28,11)(15,25,17,33)(16,34,35,32)(21,36,23,31)(22,40,39,27), (2,4)(3,6)(5,7)(8,14)(9,16)(10,18)(11,20)(12,22)(13,24)(15,21)(17,23)(25,33)(26,35)(28,37)(29,38)(30,39)(32,34), (1,34)(2,37)(3,38)(4,8)(5,40)(6,11)(7,27)(10,20)(12,30)(13,14)(15,17)(16,35)(18,29)(19,32)(24,28)(25,36)(31,33), (1,19)(2,13)(3,10)(4,24)(5,7)(6,18)(8,28)(9,26)(11,29)(12,30)(14,37)(15,17)(16,35)(20,38)(21,23)(22,39)(25,33)(27,40)(31,36)(32,34)]) \cong \mathrm{QD16}$