

The group  $G$  is isomorphic to the group labelled by [ 36, 9 ] in the Small Groups library.

Ordinary character table of  $G \cong (\text{C3} \times \text{C3}) : \text{C4}$ :

	$1a$	$3a$	$3b$	$2a$	$4a$	$4b$
$\chi_1$	1	1	1	1	1	1
$\chi_2$	1	1	1	1	-1	-1
$\chi_3$	1	1	1	-1	$E(4)$	$-E(4)$
$\chi_4$	1	1	1	-1	$-E(4)$	$E(4)$
$\chi_5$	4	1	-2	0	0	0
$\chi_6$	4	-2	1	0	0	0

Trivial source character table of  $G \cong (\text{C3} \times \text{C3}) : \text{C4}$  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 $n_j \in N_i$	$1a$	$4a$	$2a$	$4b$	$1a$	$2a$	$1a$	$2a$	$1a$	$4a$	$2a$	$4b$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	1	1	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	-1	1	-1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	$E(4)$	-1	$-E(4)$	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	$-E(4)$	-1	$E(4)$	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	6	0	2	0	3	1	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	6	0	-2	0	3	-1	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	6	0	2	0	0	0	3	1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	6	0	-2	0	0	0	3	-1	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	-1	1	-1	1	1	1	1	1	-1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	$E(4)$	-1	$-E(4)$	1	-1	1	-1	1	$E(4)$	-1	$-E(4)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	$-E(4)$	-1	$E(4)$	1	-1	1	-1	1	$-E(4)$	-1	$E(4)$

$$P_1 = \text{Group}([(())]) \cong 1$$

$$P_2 = \text{Group}([(1, 22, 23)(2, 27, 28)(3, 29, 30)(4, 5, 31)(6, 32, 33)(7, 8, 34)(9, 10, 35)(11, 12, 13)(14, 15, 36)(16, 17, 18)(19, 20, 21)(24, 25, 26)]) \cong \text{C3}$$

$$P_3 = \text{Group}([(1, 12, 31)(2, 17, 34)(3, 20, 35)(4, 22, 13)(5, 23, 11)(6, 25, 36)(7, 27, 18)(8, 28, 16)(9, 29, 21)(10, 30, 19)(14, 32, 26)(15, 33, 24)]) \cong \text{C3}$$

$$P_4 = \text{Group}([(1, 22, 23)(2, 27, 28)(3, 29, 30)(4, 5, 31)(6, 32, 33)(7, 8, 34)(9, 10, 35)(11, 12, 13)(14, 15, 36)(16, 17, 18)(19, 20, 21)(24, 25, 26), (1, 11, 4)(2, 16, 7)(3, 19, 9)(5, 22, 12)(6, 24, 14)(8, 27, 17)(10, 29, 20)(13, 31, 23)(15, 32, 25)(18, 34, 28)(21, 35, 30)(26, 36, 33)]) \cong \text{C3} \times \text{C3}$$

$$N_1 = \text{Group}([(1, 2, 3, 6)(4, 28, 19, 32)(5, 34, 21, 25)(7, 30, 24, 22)(8, 35, 26, 12)(9, 33, 11, 27)(10, 36, 13, 17)(14, 23, 16, 29)(15, 31, 18, 20), (1, 3)(2, 6)(4, 19)(5, 21)(7, 24)(8, 26)(9, 11)(10, 13)(12, 35)(14, 16)(15, 18)(17, 36)(20, 31)(22, 30)(23, 29)(25, 34)(27, 33)(28, 32), (1, 4, 11)(2, 7, 16)(3, 9, 19)(5, 12, 22)(6, 14, 24)(8, 17, 27)(10, 20, 29)(13, 23, 31)(15, 25, 32)(18, 28, 34)(21, 30, 35)(26, 33, 36), (1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36)]) \cong (\text{C3} \times \text{C3}) : \text{C4}$$

$$N_2 = \text{Group}([(1, 22, 23)(2, 27, 28)(3, 29, 30)(4, 5, 31)(6, 32, 33)(7, 8, 34)(9, 10, 35)(11, 12, 13)(14, 15, 36)(16, 17, 18)(19, 20, 21)(24, 25, 26), (1, 3)(2, 6)(4, 19)(5, 21)(7, 24)(8, 26)(9, 11)(10, 13)(12, 35)(14, 16)(15, 18)(17, 36)(20, 31)(22, 30)(23, 29)(25, 34)(27, 33)(28, 32), (1, 4, 11)(2, 7, 16)(3, 9, 19)(5, 12, 22)(6, 14, 24)(8, 17, 27)(10, 20, 29)(13, 23, 31)(15, 25, 32)(18, 28, 34)(21, 30, 35)(26, 33, 36)]) \cong (\text{C3} \times \text{C3}) : \text{C2}$$

$$N_3 = \text{Group}([(1, 12, 31)(2, 17, 34)(3, 20, 35)(4, 22, 13)(5, 23, 11)(6, 25, 36)(7, 27, 18)(8, 28, 16)(9, 29, 21)(10, 30, 19)(14, 32, 26)(15, 33, 24), (1, 3)(2, 6)(4, 19)(5, 21)(7, 24)(8, 26)(9, 11)(10, 13)(12, 35)(14, 16)(15, 18)(17, 36)(20, 31)(22, 30)(23, 29)(25, 34)(27, 33)(28, 32), (1, 4, 11)(2, 7, 16)(3, 9, 19)(5, 12, 22)(6, 14, 24)(8, 17, 27)(10, 20, 29)(13, 23, 31)(15, 25, 32)(18, 28, 34)(21, 30, 35)(26, 33, 36)]) \cong (\text{C3} \times \text{C3}) : \text{C2}$$

$$N_4 = \text{Group}([(1, 11, 4)(2, 16, 7)(3, 19, 9)(5, 22, 12)(6, 24, 14)(8, 27, 17)(10, 29, 20)(13, 31, 23)(15, 32, 25)(18, 34, 28)(21, 35, 30)(26, 36, 33), (1, 2, 3, 6)(4, 28, 19, 32)(5, 34, 21, 25)(7, 30, 24, 22)(8, 35, 26, 12)(9, 33, 11, 27)(10, 36, 13, 17)(14, 23, 16, 29)(15, 31, 18, 20)]) \cong (\text{C3} \times \text{C3}) : \text{C4}$$