

The group  $G$  is isomorphic to the group labelled by [ 72, 23 ] in the Small Groups library.  
 Ordinary character table of  $G \cong (\text{C6 x S3}) : \text{C2}$ :

	1 <i>a</i>	2 <i>a</i>	2 <i>b</i>	3 <i>a</i>	6 <i>a</i>	4 <i>a</i>	2 <i>c</i>	12 <i>a</i>	12 <i>b</i>	3 <i>b</i>	6 <i>b</i>	6 <i>c</i>	6 <i>d</i>	3 <i>c</i>	6 <i>e</i>
$\chi_1$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_2$	1	1	−1	1	1	−1	1	−1	−1	1	1	−1	−1	1	1
$\chi_3$	1	1	−1	1	1	1	−1	1	1	1	1	−1	−1	1	1
$\chi_4$	1	1	1	1	1	−1	−1	−1	−1	1	1	1	1	1	1
$\chi_5$	2	2	−2	2	2	0	0	0	0	−1	−1	1	1	−1	−1
$\chi_6$	2	2	2	2	2	0	0	0	0	−1	−1	−1	−1	−1	−1
$\chi_7$	2	−2	0	2	−2	0	0	0	0	2	−2	0	0	2	−2
$\chi_8$	2	2	0	−1	−1	−2	0	1	1	2	2	0	0	−1	−1
$\chi_9$	2	2	0	−1	−1	2	0	−1	−1	2	2	0	0	−1	−1
$\chi_{10}$	2	−2	0	−1	1	0	0	$-E(12)^7 + E(12)^{11}$	$E(12)^7 - E(12)^{11}$	2	−2	0	0	−1	1
$\chi_{11}$	2	−2	0	−1	1	0	0	$E(12)^7 - E(12)^{11}$	$-E(12)^7 + E(12)^{11}$	2	−2	0	0	−1	1
$\chi_{12}$	2	−2	0	2	−2	0	0	0	0	−1	1	$-E(3) + E(3)^2$	$E(3) - E(3)^2$	−1	1
$\chi_{13}$	2	−2	0	2	−2	0	0	0	0	−1	1	$E(3) - E(3)^2$	$-E(3) + E(3)^2$	−1	1
$\chi_{14}$	4	4	0	−2	−2	0	0	0	0	−2	−2	0	0	1	1
$\chi_{15}$	4	−4	0	−2	2	0	0	0	0	−2	2	0	0	1	−1

Trivial source character table of  $G \cong (\text{C6 x S3}) : \text{C2}$  at  $p = 2$ :

Normalisers $N_i$	$N_1$				$N_2$				$N_3$			$N_4$	$N_5$			$N_6$		$N_7$	$N_8$
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$				$P_2$				$P_3$			$P_4$	$P_5$			$P_6$		$P_7$	$P_8$
Representatives $n_j \in N_i$	1 <i>a</i>	3 <i>a</i>	3 <i>b</i>	3 <i>c</i>	1 <i>a</i>	3 <i>b</i>	3 <i>a</i>	3 <i>c</i>	1 <i>a</i>	3 <i>b</i>	3 <i>a</i>	1 <i>a</i>	1 <i>a</i>	3 <i>a</i>		1 <i>a</i>	3 <i>a</i>	1 <i>a</i>	1 <i>a</i>
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 2 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	8	−4	8	−4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	8	8	−4	−4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15}$	8	−4	−4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	−2	4	−2	4	4	−2	−2	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	−2	−2	1	4	−2	−2	1	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	−2	−2	4	−2	4	−2	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	4	4	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	−2	−2	0	0	0	0	2	$2 * E(3)^2$	$2 * E(3)$	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	−2	−2	0	0	0	0	2	$2 * E(3)$	$2 * E(3)^2$	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	4	4	4	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	2	2	2	2	2	2	2	0	0	0	0	0	2	2	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	−1	2	−1	2	2	−1	−1	0	0	0	0	0	2	−1	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	2	2	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	2	−1	−1	2	−1	2	−1	2	−1	2	−1	0	0	0	2	−1	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	2	2	2	2	2	2	2	0	0	0	0	2	0	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$P_1 = Group([()]) \cong 1$   
 $P_2 = Group([(7,9)(8,10)]) \cong \text{C2}$   
 $P_3 = Group([(5,6)(7,10)(8,9)]) \cong \text{C2}$   
 $P_4 = Group([(2,3)(5,6)(7,9)]) \cong \text{C2}$   
 $P_5 = Group([(7,9)(8,10), (2,3)(7,8,9,10)]) \cong \text{C4}$   
 $P_6 = Group([(7,9)(8,10), (5,6)(7,10)(8,9)]) \cong \text{C2 x C2}$   
 $P_7 = Group([(7,9)(8,10), (2,3)(5,6)(7,9)]) \cong \text{C2 x C2}$   
 $P_8 = Group([(7,9)(8,10), (2,3)(7,8,9,10), (5,6)(7,10)(8,9)]) \cong \text{D8}$

$N_1 = Group([(5,6)(7,10)(8,9), (2,3)(7,8,9,10), (7,9)(8,10), (1,2,3), (4,5,6)]) \cong (\text{C6 x S3}) : \text{C2}$   
 $N_2 = Group([(5,6)(7,10)(8,9), (2,3)(7,8,9,10), (7,9)(8,10), (1,2,3), (4,5,6)]) \cong (\text{C6 x S3}) : \text{C2}$   
 $N_3 = Group([(5,6)(7,10)(8,9), (7,9)(8,10), (5,6)(7,8)(9,10), (1,3,2)]) \cong \text{C6 x C2}$   
 $N_4 = Group([(2,3)(5,6)(7,9), (7,9)(8,10), (2,3)(5,6)(8,10)]) \cong \text{C2 x C2}$   
 $N_5 = Group([(2,3)(7,8,9,10), (4,5,6), (5,6)(7,10)(8,9), (7,9)(8,10)]) \cong \text{D24}$   
 $N_6 = Group([(5,6)(7,10)(8,9), (1,2)(7,8,9,10), (2,3)(7,8,9,10), (7,9)(8,10)]) \cong (\text{C6 x C2}) : \text{C2}$   
 $N_7 = Group([(2,3)(5,6)(8,10), (5,6)(7,10)(8,9), (7,9)(8,10)]) \cong \text{D8}$   
 $N_8 = Group([(2,3)(5,6)(8,10), (2,3)(7,8,9,10), (7,9)(8,10)]) \cong \text{D8}$