The group G is isomorphic to the group labelled by [12, 3] in the Small Groups library.
Ordinary character table of $G \cong$ A4:

	$1a$	$2a$	$3a$	$3b$
χ_1	1	1	1	1
χ_2	1	1	$E(3)$	$E(3)^2$
χ_3	1	1	$E(3)^2$	$E(3)$
χ_4	3	-1	0	0

Trivial source character table of $G \cong$ A4 at $p = 2$:

Normalisers N_i	N_1			N_2	N_3		
p-subgroups of G up to conjugacy in G	P_1			P_2	P_3		
Representatives $n_j \in N_i$	$1a$	$3a$	$3b$	$1a$	$1a$	$3a$	$3b$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4$	4	1	1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4$	4	$E(3)$	$E(3)^2$	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4$	4	$E(3)^2$	$E(3)$	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4$	6	0	0	2	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4$	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4$	1	$E(3)$	$E(3)^2$	1	1	$E(3)$	$E(3)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4$	1	$E(3)^2$	$E(3)$	1	1	$E(3)^2$	$E(3)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,3)(2,6)(4,8)(5,9)(7,11)(10,12)]) \cong$ C2
$P_3 = Group([(1,3)(2,6)(4,8)(5,9)(7,11)(10,12),(1,8)(2,11)(3,4)(5,12)(6,7)(9,10)]) \cong$ C2 x C2

$N_1 = Group([(1,2,5)(3,7,12)(4,11,9)(6,10,8),(1,3)(2,6)(4,8)(5,9)(7,11)(10,12),(1,4)(2,7)(3,8)(5,10)(6,11)(9,12)]) \cong$ A4
$N_2 = Group([(1,3)(2,6)(4,8)(5,9)(7,11)(10,12),(1,8)(2,11)(3,4)(5,12)(6,7)(9,10)]) \cong$ C2 x C2
$N_3 = Group([(1,8)(2,11)(3,4)(5,12)(6,7)(9,10),(1,3)(2,6)(4,8)(5,9)(7,11)(10,12),(1,2,5)(3,7,12)(4,11,9)(6,10,8)]) \cong$ A4