The group G is isomorphic to the group labelled by [360, 118] in the Small Groups library.
Ordinary character table of $G \cong$ A6:

	$1a$	$2a$	$3a$	$3b$	$4a$	$5a$	$5b$
χ_1	1	1	1	1	1	1	1
χ_2	5	1	2	-1	-1	0	0
χ_3	5	1	-1	2	-1	0	0
χ_4	8	0	-1	-1	0	$-E(5)-E(5)^4$	$-E(5)^2-E(5)^3$
χ_5	8	0	-1	-1	0	$-E(5)^2-E(5)^3$	$-E(5)-E(5)^4$
χ_6	9	1	0	0	1	-1	-1
χ_7	10	-2	1	1	0	0	0

Trivial source character table of $G \cong$ A6 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 $n_j \in N_i$	$1a$	$2a$	$5a$	$5b$	$4a$	$1a$	$2a$	$1a$	$2a$	$1a$	$4a$	$2a$	$4b$
$1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7$	27	3	2	2	-1	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	18	-2	$-E(5)-E(5)^4$	$-E(5)^2-E(5)^3$	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	18	-2	$-E(5)^2-E(5)^3$	$-E(5)-E(5)^4$	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	36	0	1	1	-2	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7$	9	1	-1	-1	1	0	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7$	6	2	1	1	0	3	1	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	15	-1	0	0	-1	3	-1	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7$	6	2	1	1	0	0	0	3	1	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	15	-1	0	0	-1	0	0	3	-1	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7$	1	1	1	1	1	1	1	1	1	1	1	1	1
$0\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7$	10	2	0	0	-2	1	1	1	1	1	-1	1	-1
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	10	-2	0	0	0	1	-1	1	-1	1	$E(4)$	-1	$-E(4)$
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7$	10	-2	0	0	0	1	-1	1	-1	1	$-E(4)$	-1	$E(4)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(3,5,6)]) \cong$ C3
$P_3 = Group([(1,2,4)(3,6,5)]) \cong$ C3
$P_4 = Group([(3,5,6),(1,2,4)(3,6,5)]) \cong$ C3 x C3

$N_1 = AlternatingGroup([1..6]) \cong$ A6
$N_2 = Group([(1,2,4),(3,5,6),(1,2)(5,6)]) \cong$ (C3 x C3) : C2
$N_3 = Group([(1,2,4)(3,6,5),(3,6,5),(2,4)(3,5)]) \cong$ (C3 x C3) : C2
$N_4 = Group([(1,2,4),(3,5,6),(2,4)(3,6),(1,3,4,6)(2,5)]) \cong$ (C3 x C3) : C4