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

| | $1a$ | $2a$ | $3a$ | $3b$ | $4a$ | $5a$ | $5b$ |
|---|---|---|---|---|---|---|---|
| $\chi_1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ |
| $\chi_2$ | $5$ | $1$ | $2$ | $-1$ | $-1$ | $0$ | $0$ |
| $\chi_3$ | $5$ | $1$ | $-1$ | $2$ | $-1$ | $0$ | $0$ |
| $\chi_4$ | $8$ | $0$ | $-1$ | $-1$ | $0$ | $-E(5)-E(5)^4$ | $-E(5)^2-E(5)^3$ |
| $\chi_5$ | $8$ | $0$ | $-1$ | $-1$ | $0$ | $-E(5)^2-E(5)^3$ | $-E(5)-E(5)^4$ |
| $\chi_6$ | $9$ | $1$ | $0$ | $0$ | $1$ | $-1$ | $-1$ |
| $\chi_7$ | $10$ | $-2$ | $1$ | $1$ | $0$ | $0$ | $0$ |

Trivial source character table of $G \cong$ A6 at $p = 2$:

| Normalisers $N_i$ | $N_1$ | | | | | $N_2$ | $N_3$ | | $N_4$ | | $N_5$ | $N_6$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $p$-subgroups of $G$ up to conjugacy in $G$ | $P_1$ | | | | | $P_2$ | $P_3$ | | $P_4$ | | $P_5$ | $P_6$ |
| Representatives $n_j \in N_i$ | $1a$ | $3a$ | $5a$ | $5b$ | $3b$ | $1a$ | $1a$ | $3a$ | $1a$ | $3a$ | $1a$ | $1a$ |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 2 \cdot \chi_7$ | $40$ | $4$ | $0$ | $0$ | $4$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7$ | $24$ | $3$ | $-1$ | $-1$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7$ | $24$ | $0$ | $-1$ | $-1$ | $3$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$ | $8$ | $-1$ | $-E(5)-E(5)^4$ | $-E(5)^2-E(5)^3$ | $-1$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$ | $8$ | $-1$ | $-E(5)^2-E(5)^3$ | $-E(5)-E(5)^4$ | $-1$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$ | $20$ | $2$ | $0$ | $0$ | $2$ | $4$ | $0$ | $0$ | $0$ | $0$ | $0$ | $0$ |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$ | $6$ | $0$ | $1$ | $1$ | $3$ | $2$ | $2$ | $2$ | $0$ | $0$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$ | $14$ | $2$ | $-1$ | $-1$ | $-1$ | $2$ | $2$ | $-1$ | $0$ | $0$ | $0$ | $0$ |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$ | $6$ | $3$ | $1$ | $1$ | $0$ | $2$ | $0$ | $0$ | $2$ | $2$ | $0$ | $0$ |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$ | $14$ | $-1$ | $-1$ | $-1$ | $2$ | $2$ | $0$ | $0$ | $2$ | $-1$ | $0$ | $0$ |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$ | $10$ | $1$ | $0$ | $0$ | $1$ | $2$ | $0$ | $0$ | $0$ | $0$ | $2$ | $0$ |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ | $1$ |

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(2,4)(3,5)]) \cong$ C2
$P_3 = Group([(1,6)(3,5),(2,4)(3,5)]) \cong$ C2 x C2
$P_4 = Group([(1,5)(3,6),(1,6)(3,5)]) \cong$ C2 x C2
$P_5 = Group([(1,3,6,5)(2,4),(1,6)(3,5)]) \cong$ C4
$P_6 = Group([(1,6)(3,5),(2,4)(3,5),(1,5)(3,6)]) \cong$ D8

$N_1 = AlternatingGroup([1..6]) \cong$ A6
$N_2 = Group([(1,6)(3,5),(2,4)(3,5),(1,6)(2,5,4,3)]) \cong$ D8
$N_3 = Group([(2,4)(3,5),(1,6)(3,5),(2,5)(3,4),(1,2,5)(3,6,4)]) \cong$ S4
$N_4 = Group([(3,6,5),(1,5)(2,4)]) \cong$ S4
$N_5 = Group([(1,6)(3,5),(1,5,6,3)(2,4),(2,4)(3,5)]) \cong$ D8
$N_6 = Group([(2,4)(3,5),(1,6)(3,5),(1,3,6,5)(2,4)]) \cong$ D8