

The group G is isomorphic to the group labelled by [40, 12] in the Small Groups library.
 Ordinary character table of $G \cong C_2 \times (C_5 : C_4)$:

	$1a$	$5a$	$4a$	$2a$	$4b$	$2b$	$10a$	$4c$	$2c$	$4d$
χ_1	1	1	1	1	1	1	1	1	1	1
χ_2	1	1	$E(4)$	-1	$-E(4)$	1	1	$E(4)$	-1	$-E(4)$
χ_3	1	1	-1	1	-1	1	1	-1	1	-1
χ_4	1	1	$-E(4)$	-1	$E(4)$	1	1	$-E(4)$	-1	$E(4)$
χ_5	4	-1	0	0	0	4	-1	0	0	0
χ_6	1	1	1	1	1	-1	-1	-1	-1	-1
χ_7	1	1	$E(4)$	-1	$-E(4)$	-1	-1	$-E(4)$	1	$E(4)$
χ_8	1	1	-1	1	-1	-1	-1	1	-1	1
χ_9	1	1	$-E(4)$	-1	$E(4)$	-1	-1	$E(4)$	1	$-E(4)$
χ_{10}	4	-1	0	0	-4	1	0	0	0	0

Trivial source character table of $G \cong C_2 \times (C_5 : C_4)$ 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 $n_j \in N_i$	$1a$	$5a$	$1a$	$1a$	$5a$	$1a$	$1a$	$1a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	8	8	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10}$	8	-2	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	4	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	0	4	4	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	-1	0	4	-1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10}$	4	4	0	0	0	4	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	2	2	2	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	2	2	2	0	0	0	0	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10}$	1	1	1	1	1	1	1	1

$P_1 = \text{Group}(\{()\}) \cong 1$
 $P_2 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30)\}) \cong C_2$
 $P_3 = \text{Group}(\{(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(32, 37)(35, 39)(38, 40)\}) \cong C_2$
 $P_4 = \text{Group}(\{(1, 9)(2, 13)(3, 4)(5, 39)(6, 7)(8, 40)(10, 35)(11, 34)(12, 33)(14, 38)(15, 37)(16, 36)(17, 28)(18, 27)(19, 26)(20, 25)(21, 32)(22, 31)(23, 30)(24, 29)\}) \cong C_2$
 $P_5 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40)\}) \cong C_2 \times C_2$
 $P_6 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4$
 $P_7 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 6, 4, 13)(2, 9, 7, 3)(5, 22, 35, 36)(8, 25, 38, 26)(10, 16, 39, 31)(11, 29, 28, 30)(12, 37, 27, 21)(14, 19, 40, 20)(15, 18, 32, 33)(17, 23, 34, 24)\}) \cong C_4$
 $P_8 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$
 $N_1 = \text{Group}(\{(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_2 \times (C_5 : C_4)$
 $N_2 = \text{Group}(\{(1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$
 $N_3 = \text{Group}(\{(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_2 \times (C_5 : C_4)$
 $N_4 = \text{Group}(\{(1, 9)(2, 13)(3, 4)(5, 39)(6, 7)(8, 40)(10, 35)(11, 34)(12, 33)(14, 38)(15, 37)(16, 36)(17, 28)(18, 27)(19, 26)(20, 25)(21, 32)(22, 31)(23, 30)(24, 29)\}) \cong C_4 \times C_2$
 $N_5 = \text{Group}(\{(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$
 $N_6 = \text{Group}(\{(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$
 $N_7 = \text{Group}(\{(1, 6, 4, 13)(2, 9, 7, 3)(5, 22, 35, 36)(8, 25, 38, 26)(10, 16, 39, 31)(11, 29, 28, 30)(12, 37, 27, 21)(14, 19, 40, 20)(15, 18, 32, 33)(17, 23, 34, 24), (1, 4)(2, 7)(3, 9)(5, 35)(6, 13)(8, 38)(10, 39)(11, 28)(12, 27)(14, 40)(15, 32)(16, 31)(17, 34)(18, 33)(19, 20)(21, 37)(22, 36)(23, 24)(25, 26)(29, 30), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$
 $N_8 = \text{Group}(\{(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 35, 31)(8, 19, 38, 20)(10, 22, 39, 36)(11, 23, 28, 24)(12, 32, 27, 15)(14, 25, 40, 26)(17, 29, 34, 30)(18, 37, 33, 21)\}) \cong C_4 \times C_2$