The group G is isomorphic to the group labelled by [8,3] in the Small Groups library. Ordinary character table of  $G \cong D8$ :

	1a	2a	4a	2b	2c
$\chi_1$	1	1	1	1	1
$\chi_2$	1	1	1	-1	-1
$\chi_3$	1	1	-1	1	-1
$\chi_4$	1	1	-1	-1	1
$\chi_5$	2	-2	0	0	0

Trivial source character table of  $G \cong D8$  at p = 2:

 $P_1 = Group([()]) \cong 1$ 

 $P_2 = Group([(1,4)(2,6)(3,7)(5,8)]) \cong C2$ 

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 $G$		$P_2$	$P_3$	$P_4$	$P_5$	$P_6$	$P_7$	$P_8$
Representatives $n_j \in N_i$		1a						
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 2 \cdot \chi_5$		0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5$		4	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5$	4	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5$		0	0	2	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$	2	2	2	0	2	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5$		2	0	2	0	2	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$		2	0	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$		1	1	1	1	1	1	1

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\begin{array}{l} P_3 = Group([(1,3)(2,5)(4,7)(6,8)]) \cong C2 \\ P_4 = Group([(1,2)(3,8)(4,6)(5,7)]) \cong C2 \\ P_5 = Group([(1,4)(2,6)(3,7)(5,8),(1,3)(2,5)(4,7)(6,8)]) \cong C2 \times C2 \\ P_6 = Group([(1,4)(2,6)(3,7)(5,8),(1,2)(3,8)(4,6)(5,7)]) \cong C2 \times C2 \\ P_7 = Group([(1,4)(2,6)(3,7)(5,8),(1,8,4,5)(2,7,6,3)]) \cong C4 \\ P_8 = Group([(1,4)(2,6)(3,7)(5,8),(1,3)(2,5)(4,7)(6,8),(1,2)(3,8)(4,6)(5,7)]) \cong D8 \\ N_1 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_2 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_3 = Group([(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong C2 \times C2 \\ N_4 = Group([(1,2)(3,8)(4,6)(5,7),(1,6)(2,4)(3,5)(7,8)]) \cong C2 \times C2 \\ N_5 = Group([(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8),(1,2)(3,8)(4,6)(5,7)]) \cong D8 \\ N_6 = Group([(1,2)(3,8)(4,6)(5,7),(1,4)(2,6)(3,7)(5,8),(1,2)(3,8)(4,6)(5,7)]) \cong D8 \\ N_7 = Group([(1,8,4,5)(2,7,6,3),(1,4)(2,6)(3,7)(5,8),(1,2)(3,8)(4,6)(5,7)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8),(1,2)(3,8)(4,6)(5,7)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(4,7)(6,8),(1,4)(2,6)(3,7)(5,8)]) \cong D8 \\ N_8 = Group([(1,2)(3,8)(4,6)(5,7),(1,3)(2,5)(
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