The group G is isomorphic to the group labelled by [40, 1] in the Small Groups library. Ordinary character table of $G \cong C5$: C8:

	$\overline{1a}$	8 <i>a</i>	4a	2a	5a	8b	8 <i>c</i>	4b	20a	10a	5b	8 <i>d</i>	20b	20c	10b	20 <i>d</i>
χ1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	1	1	1	-1	-1	1	1	1	1	-1	1	1	1	1
χ_3	1	-E(4)	-1	1	1	E(4)	-E(4)	-1	-1	1	1	E(4)	-1	-1	1	-1
χ_4	1	E(4)	-1	1	1	-E(4)	E(4)	-1	-1	1	1	-E(4)	-1	-1	1	-1
χ_5	1	-E(8)	E(4)	-1	1	$-E(8)^{3}$	E(8)	-E(4)	E(4)	-1	1	$E(8)^{3}$	-E(4)	E(4)	-1	-E(4)
χ_6	1	$-E(8)^3$	-E(4)	-1	1	-E(8)	$E(8)^{3}$	E(4)	-E(4)	-1	1	E(8)	E(4)	-E(4)	-1	E(4)
χ_7	1	$E(8)^{3}$	-E(4)	-1	1	E(8)	$-E(8)^{3}$	E(4)	-E(4)	-1	1	-E(8)	E(4)	-E(4)	-1	E(4)
χ_8	1	E(8)	E(4)	-1	1	$E(8)^{3}$	-E(8)	-E(4)	E(4)	-1	1	$-E(8)^3$	-E(4)	E(4)	-1	-E(4)
χ_9	2	0	-2	2	$E(5)^2 + E(5)^3$	0	0	-2	$-E(5)^2 - E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$-E(5)^2 - E(5)^3$	$-E(5) - E(5)^4$	$E(5) + E(5)^4$	$-E(5) - E(5)^4$
χ_{10}	2	0	-2	2	$E(5) + E(5)^4$	0	0	-2	$-E(5) - E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$	$E(5)^2 + E(5)^3$	$-E(5)^2 - E(5)^3$
χ_{11}	2	0	2	2	$E(5)^2 + E(5)^3$	0	0	2	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
χ_{12}	2	0	2	2	$E(5) + E(5)^4$	0	0	2	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$
χ_{13}	2	0	-2 * E(4)	-2	$E(5)^2 + E(5)^3$	0	0	2 * E(4)	$-E(20)^{13} - E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	0	$E(20)^{13} + E(20)^{17}$	$-E(20) - E(20)^9$	$-E(5) - E(5)^4$	$E(20) + E(20)^9$
χ_{14}	2	0	-2*E(4)	-2	$E(5) + E(5)^4$	0	0	2 * E(4)	$-E(20) - E(20)^9$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(20) + E(20)^9$	$-E(20)^{13} - E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(20)^{13} + E(20)^{17}$
χ_{15}	2	0	2 * E(4)	-2	$E(5)^2 + E(5)^3$	0	0	-2 * E(4)	$E(20)^{13} + E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	0	$-E(20)^{13} - E(20)^{17}$	$E(20) + E(20)^9$	$-E(5) - E(5)^4$	$-E(20) - E(20)^9$
χ_{16}	2	0	2 * E(4)	-2	$E(5) + E(5)^4$	0	0	-2*E(4)	$E(20) + E(20)^9$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	0	$-E(20) - E(20)^9$	$E(20)^{13} + E(20)^{17}$	$-E(5)^2 - E(5)^3$	$-E(20)^{13}-E(20)^{17}$

Trivial source character table of $G \cong C5$: C8 at p = 5:

Normalisers N_i		N_1								N_2							
p-subgroups of G up to conjugacy in G		P_1							P_2								
Representatives $n_j \in N_i$	1a	8a	4a	2a	8b	8c	4b	8d	1a	8a	4a	2a	8b	8c	4b	8d	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	5	5	1	1	5	1	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	-1	5	5	-1	-1	5	-1	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	-E(4)	-5	5	E(4)	-E(4)	-5	E(4)	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	E(4)	-5	5	-E(4)	E(4)	-5	-E(4)	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	-E(8)	5 * E(4)	-5	$-E(8)^{3}$	E(8)	-5 * E(4)	$E(8)^{3}$	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	$-E(8)^{3}$	-5 * E(4)	-5	-E(8)	$E(8)^{3}$	5 * E(4)	E(8)	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	$E(8)^{3}$	-5 * E(4)	-5	E(8)	$-E(8)^{3}$	5 * E(4)	-E(8)	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	E(8)	5 * E(4)	-5	$E(8)^{3}$	-E(8)	-5 * E(4)	$-E(8)^3$	0	0	0	0	0	0	0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-E(4)	-1	1	E(4)	-E(4)	-1	E(4)	1	-E(4)	-1	1	E(4)	-E(4)	-1	E(4)	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	E(4)	-1	1	-E(4)	E(4)	-1	-E(4)	1	E(4)	-1	1	-E(4)	E(4)	-1	-E(4)	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	$E(8)^{3}$	-E(4)	-1	E(8)	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^{3}$	-E(4)	-1	E(8)	$-E(8)^3$	E(4)	-E(8)	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	$-E(8)^{3}$	-E(4)	-1	-E(8)	$E(8)^{3}$	E(4)	E(8)	1	$-E(8)^3$	-E(4)	-1	-E(8)	$E(8)^{3}$	E(4)	E(8)	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	E(8)	E(4)	-1	$E(8)^{3}$	-E(8)	-E(4)	$-E(8)^3$	1	E(8)	E(4)	-1	$E(8)^{3}$	-E(8)	-E(4)	$-E(8)^{3}$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-E(8)	E(4)	-1	$-E(8)^3$	E(8)	-E(4)	$E(8)^{3}$	1	-E(8)	E(4)	-1	$-E(8)^3$	E(8)	-E(4)	$E(8)^{3}$	

 $P_1 = Group([()]) \cong 1 \\ P_2 = Group([(1, 20, 5, 28, 12)(2, 24, 8, 32, 16)(3, 26, 10, 34, 18)(4, 27, 11, 35, 19)(6, 30, 14, 37, 22)(7, 31, 15, 38, 23)(9, 33, 17, 39, 25)(13, 36, 21, 40, 29)]) \cong C5$

 $N_1 = Group([(1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20), (1,3,4,9)(2,6,7,13)(5,10,11,17)(8,14,15,21)(12,18,19,25)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,35,39)(32,37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(28,34,35,39)(32,37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(28,34,35)(30,36)(32,38)(34,39)(37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(24,36,36$