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:

	1	0 ~	4 ~	2.0	E	01	9.0	11	20.~	10.0	E L	0.1	201	20.0	101	20.1
	1a	8a	4a	2a	5a	86	8c	40	20a	10a	5 <i>b</i>	8 <i>d</i>	20b	20c	10b	20d
χ_1	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	$-E(20) - E(20)^9$	$E(20)^{13} + E(20)^{17}$	$-E(5)^2 - E(5)^3$	$-E(20)^{13} - E(20)^{17}$

This is a sum of share start table of $C \sim C^{2}$. C^{2} of C^{2}

Trivial source character table of $G \cong C5$: C8 at $p=2$:										
Normalisers N_i		N_1		N_2				N_3		
p-subgroups of G up to conjugacy in G	P_1				P_2			P_3		P_4
Representatives $n_j \in N_i$	1 <i>a</i>	5a	5b	1a	5a	5b	1 <i>a</i>	5a	5b	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	8	8	8	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$	8	$4 * E(5)^2 + 4 * E(5)^3$	$4*E(5) + 4*E(5)^4$	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$	8	$4*E(5) + 4*E(5)^4$	$4 * E(5)^2 + 4 * E(5)^3$	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	4	4	4	4	4	4	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	4	$2*E(5)^2 + 2*E(5)^3$	$2*E(5) + 2*E(5)^4$	4	$2*E(5)^2 + 2*E(5)^3$	$2*E(5) + 2*E(5)^4$	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 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} $	4	$2*E(5) + 2*E(5)^4$	$2*E(5)^2 + 2*E(5)^3$	4	$2*E(5) + 2*E(5)^4$	$2*E(5)^2 + 2*E(5)^3$	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	2	2	2	2	2	2	2	2	2	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 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} $	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	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 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} $	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	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

 $P_4 = Group([(1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,40), \\ (1,3,4,9)(2,6,7,13)(5,10,11,17)(8,14,15,21)(12,18,19,25)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,35,39)(32,37,38,40), \\ (1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20)]) \cong C8$

 $N_1 = Group([(1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20), (1,3,4,9)(2,6,7,13)(5,10,11,17)(8,14,15,21)(12,18,19,25)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,39,37)(7,15,23,31,38)(9,17,25,33,39)(13,21,29,36,40)]) \\ \cong C5: C8$ $N_2 = Group([(1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,35,39)(37,40), (1,5,12,20,28)(2,8,16,24,32)(3,10,18,26,34)(4,11,19,27,35)(6,14,22,30,37)(7,15,23,31,38)(9,17,25,33,39)(13,21,29,36,40)]) \\ \cong C5: C8$ $N_3 = Group([(1,3,4,9)(2,6,7,13)(5,10,11,17)(8,14,15,21)(12,18,19,25)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,35,39)(32,37,38,40), \\ (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,40), \\ (1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20), \\ (1,5,12,20,28)(2,3,13,36)(28,34,35,39)(32,37,38,40), \\ (1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20), \\ (1,5,12,20,28)(24,31)(26,33)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(28,35)(30,36)(32,36$ $N_4 = Group([(1,2,3,6,4,7,9,13)(5,32,10,37,11,38,17,40)(8,34,14,35,15,39,21,28)(12,24,18,30,19,31,25,36)(16,26,22,27,23,33,29,20), (1,3,4,9)(2,6,7,13)(5,10,11,17)(8,14,15,21)(12,18,19,25)(16,22,23,29)(20,26,27,33)(24,30,31,36)(28,34,35,39)(32,37,38,40), (1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,40)] \\ \cong C_{10}(1,2,3,6,4,7,9,13)(24,30,31,36)(28,34,35,39)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(2,7)(3,9)(32,37,38,40), (1,4)(32$