

The group G is isomorphic to the group labelled by [21, 1] in the Small Groups library.

Ordinary character table of $G \cong C7 : C3$:

| | 1a | 7a | 7b | 3a | 3b |
|----------|----|----------------------------|----------------------------|----------|----------|
| χ_1 | 1 | 1 | 1 | 1 | 1 |
| χ_2 | 1 | 1 | 1 | $E(3)$ | $E(3)^2$ |
| χ_3 | 1 | 1 | 1 | $E(3)^2$ | $E(3)$ |
| χ_4 | 3 | $E(7) + E(7)^2 + E(7)^4$ | $E(7)^3 + E(7)^5 + E(7)^6$ | 0 | 0 |
| χ_5 | 3 | $E(7)^3 + E(7)^5 + E(7)^6$ | $E(7) + E(7)^2 + E(7)^4$ | 0 | 0 |

Trivial source character table of $G \cong C7 : C3$ at $p = 3$:

| 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 | 7a | 7b | 1a |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5$ | 3 | 3 | 3 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5$ | 3 | $E(7) + E(7)^2 + E(7)^4$ | $E(7)^3 + E(7)^5 + E(7)^6$ | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5$ | 3 | $E(7)^3 + E(7)^5 + E(7)^6$ | $E(7) + E(7)^2 + E(7)^4$ | 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 |

$$P_1 = \text{Group}([(())]) \cong 1$$

$$P_2 = \text{Group}([(1, 2, 4)(3, 8, 16)(5, 10, 12)(6, 14, 7)(9, 20, 19)(11, 21, 15)(13, 18, 17)]) \cong C3$$

$$N_1 = \text{Group}([(1, 2, 4)(3, 8, 16)(5, 10, 12)(6, 14, 7)(9, 20, 19)(11, 21, 15)(13, 18, 17), (1, 3, 6, 9, 12, 15, 18)(2, 5, 8, 11, 14, 17, 20)(4, 7, 10, 13, 16, 19, 21)]) \cong C7 : C3$$

$$N_2 = \text{Group}([(1, 2, 4)(3, 8, 16)(5, 10, 12)(6, 14, 7)(9, 20, 19)(11, 21, 15)(13, 18, 17)]) \cong C3$$