The group multiplication table:

	E	C_3	C_3^2	σ_0	σ_1	σ_2
E	E	C_3	C_3^2	σ_0	σ_1	σ_2
C_3	C_3	C_3^2	E	σ_2	σ_0	σ_1
C_3^2	C_3^2	E	C_3	σ_1	σ_2	σ_0
σ_0	σ_0	σ_1	σ_2	E	C_3	C_3^2
σ_1	σ_1	σ_2	σ_0	C_3^2	E	C_3
σ_2	σ_2	σ_0	σ_1	C_3	C_3^2	E

Classes of conjugated elements:

$\{ E\}$,$\{ C_3\ C_3^2\}$,$\{ \sigma_0\ \sigma_1\ \sigma_2\}$

Character table:

		E	$2C_3$	$3\sigma_v$
	A_1	1	1	1
C_{3v}	A_2	1	1	-1
	E	2	-1	0
	A_1	1	1	1
	A_2	1	1	-1
T_d	E	2	-1	0
	T_1	3	0	-1
	T_2	3	0	1

$$A_1(T_d) = A_1(C_{3v})$$
$$A_2(T_d) = A_2(C_{3v})$$
$$E(T_d) = E(C_{3v})$$
$$T_1(T_d) = E(C_{3v}) + A_2(C_{3v})$$
$$T_2(T_d) = E(C_{3v}) + A_1(C_{3v})$$

		E	$2C_3$	$3\sigma_v$
C_{3v}	A_1	1	1	1
	A_2	1	1	-1
	E	2	-1	0
T_d	A_1	1	1	1
	A_2	1	1	-1
	E	2	-1	0
	T_1	3	0	-1
	T_2	3	0	1