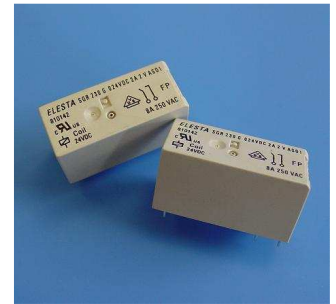
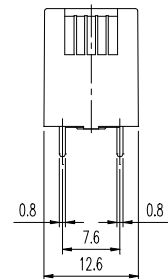
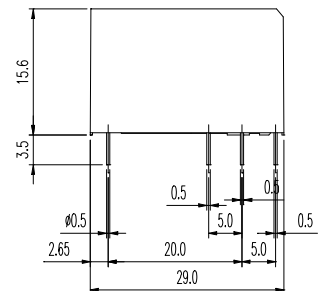


**PCB-Relay                      Power – PCB-Relay**  
**SGR 230G ... 2            2 pole 8A                      5,0 mm**

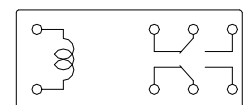
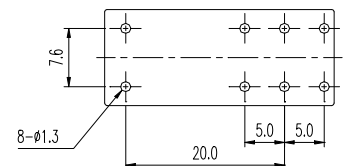
**ELESTA**



**Dimension Diagram**



**Schematic Diagram**



View on circuit points. All measure in mm.

**Technical Data**

| Contact Data                           |          |                         |
|--|----------|-------------------------|
| Type of Contact                        |          | Single Contact          |
| No. of Contacts                        |          | 2C / 2A                 |
| Rated Voltage / Max. Switching Voltage | VAC      | 250                     |
| Rated Current                          | A        | 8                       |
| Rated Breaking Capacity (cos φ = 1)    | VA       | 2.000                   |
| Switching Load (Min.)                  | VDC / mA | 5 / 10                  |
| Contact Material                       |          | AgNi, AgNi + htv, AgSnO |

| General Data                                      |                           |                      |
|---|---------------------------|----------------------|
| Mechanical Life                                   | > Operations              | 10 x 10 <sup>6</sup> |
| Electrical Life at Rated Voltage                  | > Operations              | 1 x 10 <sup>5</sup>  |
| Max. Switching Frequency                          | Operations / h            | 1.800                |
| Operate Time / Release Time                       | approx. in ms             | 12 / 8               |
| Test Voltage Contact / Coil                       | ≥ VAC <sub>eff</sub>      | 5.000                |
| Test Voltage Contact Open                         | ≥ VAC <sub>eff</sub>      | 1.000                |
| Test Voltage Contact Poles                        | ≥ VAC <sub>eff</sub>      | 2.500                |
| Creeping-/Leakage Distance                        | mm                        | > 10 / 10            |
| Insulation IEC 60664                              | - Rated Voltage (VAC)     | 250                  |
|   | - Degree of Pollutin      | 3                    |
|   | - Excess Voltage Category | III                  |
| Insulation Group / Rated Voltage (VDE 0110b 2/79) |                           | C / 250              |
| Ambient Temperature                               | °C                        | - 40...+ 85          |
| Approvals   |                           | VDE, C-UL, TÜV       |
| Weight  | gr.                       | 15                   |

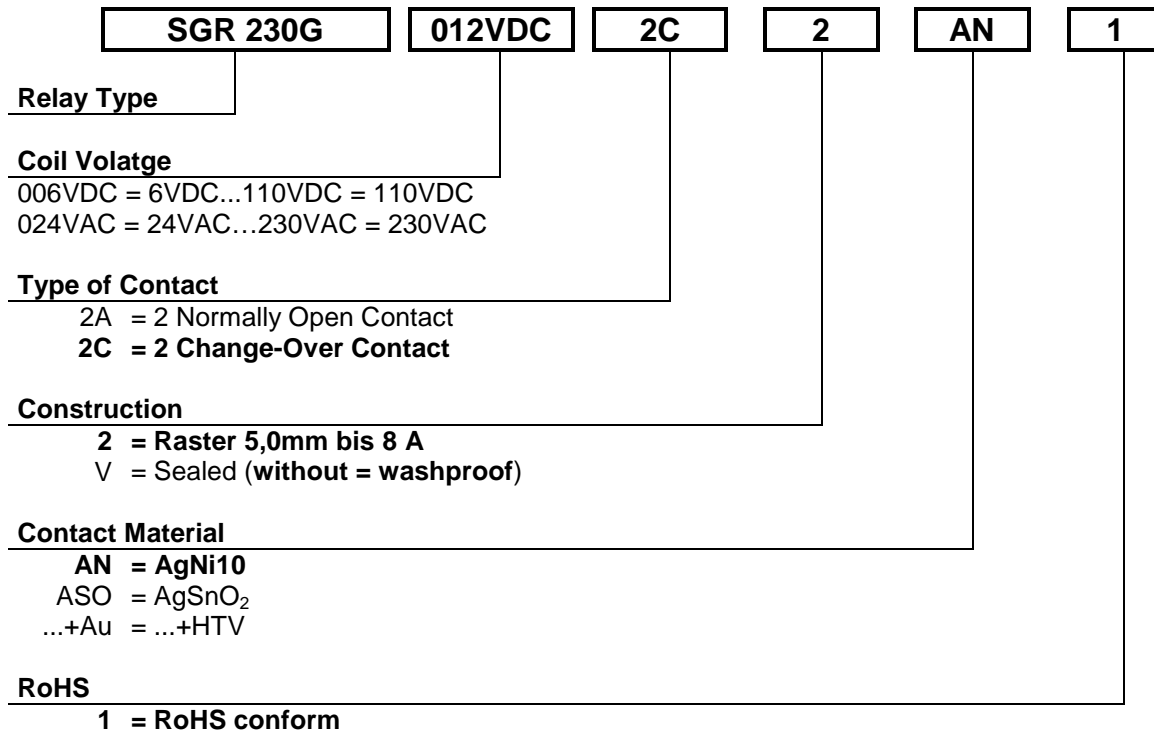
| Coil at + 20°C                          |            |                       |
|---|------------|-----------------------|
| Rated Voltage                           | VDC        | 6...110               |
| Rated Voltage                           | VAC        | 24...230              |
| Power Consumption (DC - Coil)           | approx. W  | 0,4                   |
| Power Consumption (AC - Coil)           | approx. VA | 0,75                  |
| Max. Actuation Voltage (+ 85°C, 2 x 8A) | VDC        | 1,45 x U <sub>N</sub> |

| DC-Coil (0,4 W)    |              |                     |                     |                     |
|--------------------|--------------|---------------------|---------------------|---------------------|
| U <sub>N</sub> (V) | R (Ohm)      | U <sub>AN</sub> (V) | U <sub>AB</sub> (V) | I <sub>N</sub> (mA) |
| 6                  | 90 ± 10%     | ≤ 4,8               | ≥ 0,3               | 66,7                |
| 12                 | 360 ± 10%    | ≤ 9,6               | ≥ 0,6               | 33,3                |
| 24                 | 1.440 ± 10%  | ≤ 19,2              | ≥ 1,2               | 16,7                |
| 48                 | 5.520 ± 10%  | ≤ 38,4              | ≥ 2,4               | 8,7                 |
| 60                 | 7.340 ± 10%  | ≤ 78,0              | ≥ 3,0               | 8,2                 |
| 110                | 26.530 ± 10% | ≤ 88,8              | ≥ 5,5               | 4,1                 |

| AC-Coil (0,75 VA)  |              |                     |                     |                     |
|--------------------|--------------|---------------------|---------------------|---------------------|
| U <sub>N</sub> (V) | R (Ohm)      | U <sub>AN</sub> (V) | U <sub>AB</sub> (V) | I <sub>N</sub> (mA) |
| 24                 | 350 ± 10%    | ≤ 19,2              | ≥ 7,2               | 29,75               |
| 115                | 8.100 ± 10%  | ≤ 92,0              | ≥ 34,5              | 7,65                |
| 230                | 32.500 ± 10% | ≤ 184,0             | ≥ 69,0              | 3,42                |

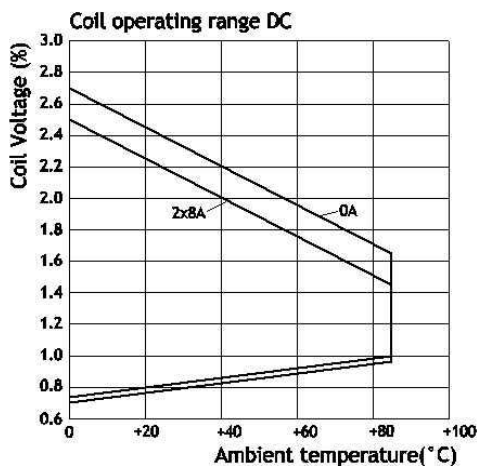
Other coil tensions on request.

**Order Type**



**Electrical Specification**

Operation Voltage Range DC



Direct Current – Burden Limit

