



## Main

|                           |                                      |
|---------------------------|--------------------------------------|
| Range                     | TeSys                                |
| Product name              | TeSys GC                             |
| Product or component type | Modular contactor                    |
| Device short name         | GC16                                 |
| Contactor application     | Heating<br>Lighting<br>Motor control |

## Complementary

|   |   |
|---|---|
| Utilisation category                        | AC-7B<br>AC-7A  |
| Poles description                           | 2P  |
| Power pole contact composition              | 1 NO + 1 NC   |
| [Ue] rated operational voltage              | $\leq 250$ V AC   |
| [Ie] rated operational current              | 16 A AC-7A<br>5 A AC-7B   |
| Operating position                          | 30°/vertical  |
| Control circuit type                        | AC at 50 Hz   |
| [Uc] control circuit voltage                | 24 V AC 50 Hz   |
| [Uimp] rated impulse withstand voltage      | 4 kV  |
| [Ith] conventional free air thermal current | 16 A (at 50 °C) for power circuit   |
| Irms rated making capacity                  | 40 A at 400 V AC for power circuit conforming to IEC 61095                  |
| Rated breaking capacity                     | 40 A at 400 V for power circuit conforming to IEC 61095                     |
| [Icw] rated short-time withstand current    | 128 A 40 °C - 10 s for power circuit<br>40 A 40 °C - 30 s for power circuit |
| Associated fuse rating                      | 16 A gL at $\leq 440$ V for power circuit                                   |
| Average impedance                           | 2.5 mOhm - Ith 16 A 50 Hz for power circuit                                 |
| [Ui] rated insulation voltage               | 500 V conforming to IEC 61095   |

500 V conforming to VDE 0110

|                                 |  |
|---------------------------------|--|
| Electrical durability           | AC-7A: 100000 cycles<br>AC-7B: 100000 cycles   |
| Power dissipation per pole      | 0.65 W   |
| Control type                    | Remote control   |
| Mounting mode                   | Clip-on  |
| Mounting support                | DIN rail   |
| Standards                       | IEC 60947-5<br>IEC 61095   |
| Connections - terminals         | Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1.5 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> solid without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> solid without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> solid without cable end |
| Tightening torque               | Control circuit: 0.8 N.m - on screw clamp terminals<br>Power circuit: 0.8 N.m - on screw clamp terminals   |
| Operating time                  | 10...25 ms opening<br>10...30 ms closing   |
| Mechanical durability           | 1000000 cycles   |
| Maximum operating rate          | 300 cyc/h 50 °C  |
| Control circuit voltage limits  | Drop-out: 0.2...0.75 U <sub>c</sub> at 50 Hz (at <50 °C)<br>Operational: 0.85...1.1 U <sub>c</sub> at 50 Hz (at <50 °C)  |
| Inrush power in VA              | 15 VA 50 Hz (at 20 °C)   |
| Hold-in power consumption in VA | 3.8 VA 50 Hz (at 20 °C)  |
| Heat dissipation                | 1.3 W at 50/60 Hz  |

## Environment

|                                       |  |
|---------------------------------------|--|
| IP degree of protection               | IP40 conforming to VDE 0106 (in enclosure)<br>IP20 conforming to VDE 0106  |
| Protective treatment                  | TC   |
| Ambient air temperature for operation | -5...50 °C   |
| Ambient air temperature for storage   | -40...70 °C  |
| Operating altitude                    | <= 3000 m  |
| Mechanical robustness                 | Shocks contactor open: 10 Gn for 11 ms<br>Shocks contactor closed: 15 Gn for 11 ms<br>Vibrations contactor open: 2 Gn, 5...300 Hz<br>Vibrations contactor closed: 3 Gn, 5...300 Hz |
| Total number of 18 mm modules         | 1  |
| Height                                | 81 mm  |
| Width                                 | 17.5 mm  |
| Depth                                 | 62.5 mm  |
| Net weight                            | 0.11 kg  |
| Quantity per set                      | Set of 12  |
| Colour                                | White  |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product                            |
| REACH Regulation           | <a href="#">REACH Declaration</a>                |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>                              |

|                                 |   |
|---------------------------------|---|
| China RoHS Regulation           | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure        | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile             | No need of specific recycling operations  |
| WEEE                            | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| <br><b>Contractual warranty</b> |   |
| Warranty                        | 18 months   |