

# Product datasheet

Specifications



## TeSys GC - modular contactor - 16 A - 4 NO - coil 220...240 V AC

Local distributor code: 402714745    GC1640M5

### Main

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

### Complementary

|   |   |
|---|---|
| Utilisation category                        | AC-7A<br>AC-7B  |
| Poles description                           | 4P  |
| Power pole contact composition              | 4 NO  |
| [Ue] rated operational voltage              | <= 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                | 220...240 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 <= 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<br>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 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 2.5 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1.5 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²solid without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm²flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 4 mm²flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm²flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 6 mm²solid without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 4 mm²solid 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 Uc at 50 Hz (at <50 °C)<br>Operational: 0.85...1.1 Uc at 50 Hz (at <50 °C)  |
| Inrush power in VA              | 34 VA 50 Hz (at 20 °C)   |
| Hold-in power consumption in VA | 4.6 VA 50 Hz (at 20 °C)  |
| Heat dissipation                | 1.6 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         | 2  |
| Height                                | 85 mm  |
| Width                                 | 36 mm  |
| Depth                                 | 62.5 mm  |
| Net weight                            | 0.23 kg  |
| Quantity per set                      | Set of 6   |
| Colour                                | White  |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 212.0 g |

|                              |           |
|------------------------------|-----------|
| Package 1 Height             | 10 cm     |
| Package 1 width              | 7 cm      |
| Package 1 Length             | 23 cm     |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 48        |
| Package 2 Weight             | 10.782 kg |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Unit Type of Package 3       | BB1       |
| Number of Units in Package 3 | 6         |
| Package 3 Weight             | 1.273 kg  |
| Package 3 Height             | 2.93 cm   |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 20 cm     |

### 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>   |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|