# Product datasheet

Specifications




## TeSys GC - modular contactor - 16 A - 1 NO - coil 220...240 V AC

GC1610M5

## Main

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

## Complementary

| | |
|---|---|
| **Utilisation category** | AC-7B<br>AC-7A |
| **Poles description** | 1P |
| **power pole contact composition** | 1 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 |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **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** | 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 |

# Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 8.3 cm |
| **Package 1 Width** | 9.5 cm |

| | |
|---|---|
| **Package 1 Length** | 23.0 cm |
| **Package 1 Weight** | 114.0 g |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 8.3 cm |
| **Package 2 Width** | 9.5 cm |
| **Package 2 Length** | 23.0 cm |
| **Package 2 Weight** | 1.372 kg |
| **Unit Type of Package 3** | S03 |
| **Number of Units in Package 3** | 96 |
| **Package 3 Height** | 30.0 cm |
| **Package 3 Width** | 30.0 cm |
| **Package 3 Length** | 40.0 cm |
| **Package 3 Weight** | 11.512 kg |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **18 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **0.7 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **17 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.2 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **22b41634-57b5-448e-ae71-e445adac0d9e** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| Halogen-free status | **Halogen free plastic parts product** |

## Use Again

### Repack and remanufacture

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|---|---|
| Recyclability potential, in % | **62** |
| End of life manual availability | **No need of specific recycling operations** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |