# Product data sheet
## Characteristics

# GC4022M5

TeSys GC - modular contactor - 40 A - 2 NO + 2 NC - coil 220...240 V AC

Green Premium™

## Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys GC |
| Product or component type | Modular contactor |
| Device short name | GC40 |
| Contactor application | Lighting
Motor control
Heating |

## Complementary

| | |
|---|---|
| Utilisation category | AC-7A
AC-7B |
| Poles description | 4P |
| Power pole contact composition | 2 NO + 2 NC |
| [Ue] rated operational voltage | <= 250 V AC |
| [Ie] rated operational current | 40 A AC-7A
15 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 | 40 A (at 50 °C) for power circuit |
| Irms rated making capacity | 120 A at 400 V AC for power circuit conforming to IEC 61095 |
| Rated breaking capacity | 120 A at 400 V for power circuit conforming to IEC 61095 |
| [Icw] rated short-time withstand current | 320 A 40 °C - 10 s for power circuit
100 A 40 °C - 30 s for power circuit |
| Associated fuse rating | 40 A gL at <= 440 V for power circuit |
| Average impedance | 2 mOhm - Ith 40 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
AC-7B: 100000 cycles |
| Power dissipation per pole | 3.2 W |
| Control type | Remote control |
| Mounting mode | Clip-on |
| Mounting support | DIN rail |
| Standards | IEC 61095
IEC 60947-5 |

| | |
|---|---|
| Connections - terminals | Control circuit: screw clamp terminals 1 cable(s) 2.5 mm²flexible without cable end |
| | Control circuit: screw clamp terminals 2 cable(s) 2.5 mm²flexible without cable end |
| | Control circuit: screw clamp terminals 1 cable(s) 2.5 mm²flexible with cable end |
| | Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end |
| | Control circuit: screw clamp terminals 1 cable(s) 1.5 mm²solid without cable end |
| | Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²solid without cable end |
| | Power circuit: screw clamp terminals 1 cable(s) 25 mm²flexible without cable end |
| | Power circuit: screw clamp terminals 2 cable(s) 16 mm²flexible without cable end |
| | Power circuit: screw clamp terminals 1 cable(s) 16 mm²flexible with cable end |
| | Power circuit: screw clamp terminals 2 cable(s) 4 mm²flexible with cable end |
| | Power circuit: screw clamp terminals 1 cable(s) 25 mm²solid without cable end |
| | Power circuit: screw clamp terminals 2 cable(s) 6 mm²solid without cable end |
| Tightening torque | Control circuit: 0.8 N.m - on screw clamp terminals |
| | Power circuit: 2 N.m - on screw clamp terminals |
| Operating time | 10...25 ms opening |
| | 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) |
| | Operational: 0.85...1.1 Uc at 50 Hz (at <50 °C) |
| Inrush power in VA | 53 VA 50 Hz (at 20 °C) |
| Hold-in power consumption in VA | 6.5 VA 50 Hz (at 20 °C) |
| Heat dissipation | 2.1 W at 50/60 Hz |

## Environment

| | |
|---|---|
| IP degree of protection | IP40 conforming to VDE 0106 (in enclosure) |
| | 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 |
| | Shocks contactor closed: 15 Gn for 11 ms |
| | Vibrations contactor open: 2 Gn, 5...300 Hz |
| | Vibrations contactor closed: 3 Gn, 5...300 Hz |
| Total number of 18 mm modules | 3 |
| Height | 85 mm |
| Width | 54 mm |
| Depth | 62.5 mm |
| Net weight | 0.39 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 | 340 g |
| Package 1 Height | 8 cm |
| Package 1 width | 9.5 cm |
| Package 1 Length | 23 cm |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |

| RoHS exemption information | Yes |
| --- | --- |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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