



## Main

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

## Complementary

|                                             |                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------|
| Utilisation category                        | AC-7B<br>AC-7A                                                               |
| Poles description                           | 3P                                                                           |
| Power pole contact composition              | 3 NO                                                                         |
| [Ue] rated operational voltage              | $\leq 250$ V AC                                                              |
| [Ie] rated operational current              | 40 A AC-7A<br>15 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 | 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<br>100 A 40 °C - 30 s for power circuit |
| Associated fuse rating                      | 40 A gL at $\leq 440$ 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

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability           | AC-7A: 100000 cycles<br>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 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) 25 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 16 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 16 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 25 mm <sup>2</sup> solid without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 6 mm <sup>2</sup> solid without cable end |
| Tightening torque               | Control circuit: 0.8 N.m - on screw clamp terminals<br>Power circuit: 2 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              | 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)<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         | 3                                                                                                                                                                                  |
| Height                                | 85 mm                                                                                                                                                                              |
| Width                                 | 54 mm                                                                                                                                                                              |
| Depth                                 | 62.5 mm                                                                                                                                                                            |
| Quantity per set                      | Set of 4                                                                                                                                                                           |
| Colour                                | White                                                                                                                                                                              |

## Offer Sustainability

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| Sustainable offer status | Green Premium product                            |
| REACH Regulation         | <a href="#">REACH Declaration</a>                |
| REACH free of SVHC       | Yes                                              |
| EU RoHS Directive        | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free   | Yes                                              |
| Mercury free             | Yes                                              |

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| 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 |

### Contractual warranty

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