

# Product datasheet

Specifications



## TeSys GC - modular contactor - 25 A - 2 NO - coil 24 V AC

Local distributor code: 23049080 GC2520B5

### Main

|                           |                                      |
|---------------------------|--------------------------------------|
| Range                     | TeSys                                |
| Product name              | TeSys GC                             |
| Product or component type | Modular contactor                    |
| Device short name         | GC25                                 |
| Contactor application     | Motor control<br>Heating<br>Lighting |

### Complementary

|                                             |                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------|
| Utilisation category                        | AC-7B<br>AC-7A                                                              |
| Poles description                           | 2P                                                                          |
| Power pole contact composition              | 2 NO                                                                        |
| [Ue] rated operational voltage              | $\leq 250$ V AC                                                             |
| [Ie] rated operational current              | 25 A AC-7A<br>8.5 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 | 25 A (at 50 °C) for power circuit                                           |
| Irms rated making capacity                  | 68 A at 400 V AC for power circuit conforming to IEC 61095                  |
| Rated breaking capacity                     | 68 A at 400 V for power circuit conforming to IEC 61095                     |
| [Icw] rated short-time withstand current    | 200 A 40 °C - 10 s for power circuit<br>62 A 40 °C - 30 s for power circuit |
| Associated fuse rating                      | 25 A gL at $\leq 440$ V for power circuit                                   |
| Average impedance                           | 2.5 mOhm - Ith 25 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                  | 1.6 W                                                                       |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control type</b>                    | Remote control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Mounting mode</b>                   | Clip-on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mounting support</b>                | DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Standards</b>                       | IEC 61095<br>IEC 60947-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Connections - terminals</b>         | 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 |
| <b>Tightening torque</b>               | Control circuit: 0.8 N.m - on screw clamp terminals<br>Power circuit: 0.8 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Operating time</b>                  | 10...25 ms opening<br>10...30 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mechanical durability</b>           | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Maximum operating rate</b>          | 300 cyc/h 50 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Control circuit voltage limits</b>  | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Inrush power in VA</b>              | 15 VA 50 Hz (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hold-in power consumption in VA</b> | 3.8 VA 50 Hz (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Heat dissipation</b>                | 1.3 W at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                              |                                                                                                                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IP degree of protection</b>               | IP40 conforming to VDE 0106 (in enclosure)<br>IP20 conforming to VDE 0106                                                                                                          |
| <b>Protective treatment</b>                  | TC                                                                                                                                                                                 |
| <b>Ambient air temperature for operation</b> | -5...50 °C                                                                                                                                                                         |
| <b>Ambient air temperature for storage</b>   | -40...70 °C                                                                                                                                                                        |
| <b>Operating altitude</b>                    | <= 3000 m                                                                                                                                                                          |
| <b>Mechanical robustness</b>                 | 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 |
| <b>Total number of 18 mm modules</b>         | 1                                                                                                                                                                                  |
| <b>Height</b>                                | 81 mm                                                                                                                                                                              |
| <b>Width</b>                                 | 17.5 mm                                                                                                                                                                            |
| <b>Depth</b>                                 | 62.5 mm                                                                                                                                                                            |
| <b>Net weight</b>                            | 0.11 kg                                                                                                                                                                            |
| <b>Quantity per set</b>                      | Set of 12                                                                                                                                                                          |
| <b>Colour</b>                                | White                                                                                                                                                                              |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 1</b>       | PCE     |
| <b>Number of Units in Package 1</b> | 1       |
| <b>Package 1 Weight</b>             | 116.0 g |

|                              |           |
|------------------------------|-----------|
| Package 1 Height             | 8.1 cm    |
| Package 1 width              | 9.6 cm    |
| Package 1 Length             | 23 cm     |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 12        |
| Package 2 Weight             | 1.451 kg  |
| Package 2 Height             | 8.1 cm    |
| Package 2 width              | 9.6 cm    |
| Package 2 Length             | 23 cm     |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 96        |
| Package 3 Weight             | 12.082 kg |
| Package 3 Height             | 30 cm     |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 40 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 |
|----------|-----------|