

Product datasheet

Specifications



TeSys GC - modular contactor - 16 A - 3 NO - coil 24 V AC

GC1630B5

⚠ Discontinued on: 11 May 2020

⚠ Discontinued

Main

| | |
|---------------------------|--------------------------------------|
| Range | TeSys |
| Product Name | TeSys GC |
| Product Or Component Type | Modular contactor |
| Device Short Name | GC16 |
| Contactor Application | Heating Motor control Lighting |

Complementary

| | |
|---|---|
| Utilisation Category | AC-7B AC-7A |
| Poles Description | 3P |
| Power Pole Contact Composition | 3 NO |
| [Ue] Rated Operational Voltage | <= 250 V AC |
| [Ie] Rated Operational Current | 16 A AC-7A 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 | 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 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 500 V conforming to VDE 0110 |
| Electrical Durability | AC-7A: 100000 cycles AC-7B: 100000 cycles |
| Power Dissipation Per Pole | 0.65 W |
| Control Type | Remote control |

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

| | |
|---------------------------------|--|
| 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) 6 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm²solid without cable end 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 Power circuit: 0.8 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 | 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

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|---------------------------------------|--|
| 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 | 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

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|------------------------------|-----|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

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|------------------|-------|
| Package 1 Height | 9 cm |
| Package 1 Width | 23 cm |
| Package 1 Length | 8 cm |
| Package 1 Weight | 230 g |

Contractual warranty

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| Warranty | 18 months |
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Sustainability



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)

Well-being performance

| | |
|--|---|
|  Mercury Free | |
|  Rohs Exemption Information | Yes |
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |