GV2ME32
Motor circuit breaker, TeSys GV2, 3P, 24-32 A, thermal magnetic, screw clamp terminals

Main
Range TeSys
Product name TeSys GV2
Device short name GV2ME
Device application Motor
Trip unit technology Thermal-magnetic

Complementary
Poles description 3P
Network type AC
Utilisation category AC-3 conforming to IEC 60947-4-1
Category A conforming to IEC 60947-2
Network frequency 50/60 Hz conforming to IEC 60947-4-1
Fixing mode 35 mm symmetrical DIN rail: clipped
Panel: screwed (with adaptor plate)
Operating position Any position
Motor power kW
15 kW at 400/415 V AC 50/60 Hz
18.5 kW at 500 V AC 50/60 Hz
22 kW at 690 V AC 50/60 Hz

Breaking capacity
3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
50 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
6 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
4 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2
10 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2

[Ics] rated service short-circuit breaking capacity
100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2
50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2

Control type Push-button
(In) rated current 32 A
Thermal protection adjustment range 24…32 A
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic tripping current</td>
<td>416 A</td>
</tr>
<tr>
<td>[Ue] rated operational voltage</td>
<td>690 V AC 50/60 Hz conforming to IEC 60947-2</td>
</tr>
<tr>
<td>[Ui] rated insulation voltage</td>
<td>690 V AC 50/60 Hz conforming to IEC 60947-2</td>
</tr>
<tr>
<td>[Ith] conventional free air thermal current</td>
<td>32 A conforming to IEC 60947-4-1</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</td>
<td>IEC 60947-2 6 kV</td>
</tr>
<tr>
<td>Power dissipation per pole</td>
<td>2.5 W</td>
</tr>
<tr>
<td>Mechanical durability</td>
<td>100000 cycles</td>
</tr>
<tr>
<td>Electrical durability</td>
<td>100000 cycles for AC-3 at 440 V</td>
</tr>
<tr>
<td>Maximum operating rate</td>
<td>25 cyc/h</td>
</tr>
<tr>
<td>Rated duty</td>
<td>Continuous conforming to IEC 60947-4-1</td>
</tr>
<tr>
<td>Connections - terminals</td>
<td>Screw clamp terminals 2 cable(s) 1…6 mm² solid</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 2 cable(s) 1.5…6 mm² flexible without cable end</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 2 cable(s) 1…4 mm² flexible with cable end</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>1.7 N.m on screw clamp terminals</td>
</tr>
<tr>
<td>Suitability for isolation</td>
<td>Yes conforming to IEC 60947-1</td>
</tr>
<tr>
<td>Phase failure sensitivity</td>
<td>Yes conforming to IEC 60947-4-1</td>
</tr>
<tr>
<td>Height</td>
<td>89 mm</td>
</tr>
<tr>
<td>Width</td>
<td>45 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>78.5 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.26 kg</td>
</tr>
</tbody>
</table>

**Environment**

- **Standards**
  - EN/IEC 60947-2
  - EN/IEC 60947-4-1
  - CSA C22.2 No 60947-4-1
  - UL 60947-4-1
- **Product certifications**
  - IECEE CB Scheme
  - UL
  - CSA
  - CCC
  - EAC
  - ATEX
  - BV
  - LROS (Lloyds register of shipping)
  - DNV-GL
  - RINA
- **Protective treatment**
  - TH
- **IP degree of protection**
  - IP20 conforming to IEC 60529
- **IK degree of protection**
  - IK04
- **Ambient air temperature for operation**
  - -20…60 °C
- **Ambient air temperature for storage**
  - -40…80 °C
- **Fire resistance**
  - 960 °C conforming to IEC 60695-2-1
- **Operating altitude**
  - 2000 m

**Offer Sustainability**

- **Sustainable offer status**
  - Green Premium product
- **REACH Regulation**
  - REACH Declaration
- **EU RoHS Directive**
  - Compliant
  - EU RoHS Declaration
- **Mercury free**
  - Yes
- **RoHS exemption information**
  - Yes
- **China RoHS Regulation**
  - China RoHS declaration
  - Product out of China RoHS scope. Substance declaration for your information
- **Environmental Disclosure**
  - Product Environmental Profile
- **Circularity Profile**
  - No need of specific recycling operations
<table>
<thead>
<tr>
<th>WEEE</th>
<th>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</th>
</tr>
</thead>
</table>

**Contractual warranty**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>18 months</th>
</tr>
</thead>
</table>
Thermal-Magnetic Tripping Curves for GV2ME and GV2P
Average Operating Times at 20 °C Related to Multiples of the Setting Current

Current Limitation on Short-Circuit for GV2ME and GV2P (3-Phase 400/415 V))
Dynamic Stress
I peak = f (prospective Isc) at 1.05 Ue = 435 V
1. Maximum peak current
2. 24-32 A
3. 20-25 A
4. 17-23 A
5. 13-18 A
6. 9-14 A
7. 6-10 A
8. 4-6.3 A
9. 2.5-4 A
10. 1.6-2.5 A
11. 1-1.6 A

**Thermal Limit on Short-Circuit for GV2ME**

Thermal Limit in kA²s in the Magnetic Operating Zone

Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V
1  24-32 A  
2  20-25 A  
3  17-23 A  
4  13-18 A  
5  9-14 A  
6  6-10 A  
7  4-6.3 A  
8  2.5-4 A  
9  1.6-2.5 A  
10  1-1.6 A  

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### Dimension

**GV2ME**

![Diagram of GV2ME dimension]

(1) Maximum X1 Electrical clearance = 40 mm for Ue ≤ 690 V

<table>
<thead>
<tr>
<th></th>
<th>b</th>
</tr>
</thead>
<tbody>
<tr>
<td>GV2ME</td>
<td>89</td>
</tr>
<tr>
<td>GV2ME+</td>
<td>101</td>
</tr>
</tbody>
</table>

### Mounting

**GV2ME**

- On 35 mm rail
  - c = 78.5 on AM1 DP200 (35 x 7.5)
  - c = 86 on AM1 DE200, ED200 (35 x 15)
- On panel with adapter plate GV2AF02
- On pre-slotted plate AM1 PA
- On rails DZ5 MB201
GV2AF01
Combination GV2ME + TeSys k contactor

GV2AF3
Combination GV2ME + TeSys d contactor

<table>
<thead>
<tr>
<th></th>
<th>LC1D09…D18</th>
<th>LC1D25 and D32</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>176.4</td>
<td>186.8</td>
</tr>
<tr>
<td>c1</td>
<td>94.1</td>
<td>100.4</td>
</tr>
<tr>
<td>c</td>
<td>99.6</td>
<td>105.9</td>
</tr>
</tbody>
</table>

GV2AF4 + LAD311
Combination GV2ME + TeSys d contactor

<table>
<thead>
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<th>LC1D25 and D32</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>176.4</td>
<td>186.8</td>
</tr>
<tr>
<td>c1</td>
<td>103.1</td>
<td>136.4</td>
</tr>
<tr>
<td>c</td>
<td>135.6</td>
<td>141.9</td>
</tr>
<tr>
<td>d1</td>
<td>107</td>
<td>107</td>
</tr>
<tr>
<td>d</td>
<td>112.5</td>
<td>112.5</td>
</tr>
</tbody>
</table>

GV2ME + GV1L3 (Current Limiter)
X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V
GV2ME•• and GV2RT

Connection of Undervoltage Trip for Dangerous Machines (Conforming to INRS) on GV2ME Only