## Main

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>TeSys GV3</td>
</tr>
<tr>
<td>Device short name</td>
<td>GV3L</td>
</tr>
<tr>
<td>Device application</td>
<td>Motor</td>
</tr>
<tr>
<td>Poles description</td>
<td>3P</td>
</tr>
<tr>
<td>Network type</td>
<td>AC</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1</td>
</tr>
<tr>
<td>Network frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Breaking capacity</td>
<td>100 kA Icu at 230/240 V AC 50/60 Hz</td>
</tr>
<tr>
<td>50 kA Icu at 440 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>12 kA Icu at 500 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>6 kA Icu at 690 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>50 kA Icu at 400/415 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>[Ics] rated service short-circuit breaking capacity</td>
<td>100 % at 230/240 V AC 50/60 Hz</td>
</tr>
<tr>
<td>100 % at 400/415 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>100 % at 440 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>50 % at 500 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>50 % at 690 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Trip unit technology</td>
<td>Magnetic</td>
</tr>
<tr>
<td>Magnetic tripping current</td>
<td>560 A</td>
</tr>
</tbody>
</table>

## Complementary

<table>
<thead>
<tr>
<th>Fixing mode</th>
<th>35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating position</td>
<td>Any position</td>
</tr>
<tr>
<td>Motor power kW</td>
<td>18.5 kW at 400/415 V AC 50/60 Hz</td>
</tr>
<tr>
<td>22 kW at 500 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>37 kW at 690 V AC 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Control type</td>
<td>Rotary knob</td>
</tr>
<tr>
<td>[Ue] rated operational voltage</td>
<td>690 V AC 50/60 Hz conforming to IEC 60947-2</td>
</tr>
</tbody>
</table>

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.
**[UI]** rated insulation voltage 690 V AC 50/60 Hz conforming to IEC 60947-2

**[Uimp]** rated impulse withstand voltage IEC 60947-2 6 kV

**Mechanical durability**
50000 cycles

**Electrical durability**
50000 cycles for AC-3 at 415 V

**Maximum operating rate**
25 cych

**Connections - terminals**
- EverLink BTR screw connectors 1 cable(s) 1…35 mm² solid
- EverLink BTR screw connectors 2 cable(s) 1…25 mm² solid
- EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible without cable end
- EverLink BTR screw connectors 2 cable(s) 1…25 mm² flexible without cable end
- EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible with cable end
- EverLink BTR screw connectors 2 cable(s) 1…25 mm² flexible with cable end

**Tightening torque**
- 5 N.m on EverLink BTR screw connectors for cable 25 mm²
- 8 N.m on EverLink BTR screw connectors for cable 35 mm²

**Mechanical robustness**
- Shocks: 15 Gα for 11 ms closed conforming to IEC 60068-2-27
- Shocks: 30 Gα for 11 ms opened conforming to IEC 60068-2-27
- Vibrations: 4 Gα, 5…300 Hz conforming to IEC 60068-2-6

**Suitability for isolation**
Yes conforming to IEC 60947-1

**Dimensions**
- **Height**
  132 mm
- **Width**
  55 mm
- **Depth**
  136 mm
- **Net weight**
  0.96 kg

### 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
- ABS
- LROS (Lloyds register of shipping)
- DNV-GL
- BV

**Protective treatment**
TH

**IP degree of protection**
IP20 conforming to IEC 60529

**IK degree of protection**
IK09

**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**
0...3000 m

### Offer Sustainability

**Sustainable offer status**
Green Premium product

**REACH Regulation**
REACH Declaration

**EU RoHS Directive**
Compliant

**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
End of Life Information

**WEEE**
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
**Contractual warranty**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>18 months</th>
</tr>
</thead>
</table>
Tripping Curves for GV3L Combined with Thermal Overload Relay LRD33

Average Operating time at 20 °C without Prior Current Flow

1. 3 poles from cold state
2. 2 poles from cold state
3. 3 poles from hot state
A. Thermal overload relay protection zone
B. GV3L protection zone

Current Limitation on Short-Circuit for GV3L (3-Phase 400/415 V)

Dynamic Stress

\[ I_{\text{peak}} = f(\text{prospective Isc}) \text{ at } 1.05 \; U_e = 435 \; V \]
Thermal Limit on Short-Circuit for GV3L

Thermal Limit in A²s

Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V
1. GV3L73 - GV3L80
2. GV3L65
3. GV3L50
4. GV3L40
5. GV3L32
6. GV3L25
GV3L, GV3P

Dimensions

(1) Blocks GVAN, GVAD, and GVAM11.
(2) Blocks GV3AU and GV3AS.

X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

Mounting with Tesys contactor LC1D40A…D80A and relay LR3D313…380

(1) Mountings with c.b. up to GV3L73, GV3P73.
(2) For GV3L80, GV3P80 use cable between components for dissipating heat. Consult online datasheets for values.
(3) S-shape busbar system suitable up to 73 A.

Side by side mounting with Tesys contactor LC1D40A…D73A (S-shape busbar system GV3S)

Mounting on Rail AM1 DE200 or AM1 ED201

Panel Mounting, using M4 Screws
Mounting on Pre-Slotted Plate AM1 PA

Mounting of External Operator GV3APN01, GV3APN02 or GV3APN04 for Motor Circuit Breakers GV3L

Door cut-out

(1) For IP65 only.

Mounting of External Operator GVAPH03 for Motor Circuit Breakers GV3L

<table>
<thead>
<tr>
<th></th>
<th>b</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>GV3APN... + GVAPH03</td>
<td>200</td>
</tr>
<tr>
<td>GV3APN... + GVAPH03 + GVAPK12</td>
<td>300</td>
</tr>
</tbody>
</table>
Door cut-out

For IP65 only.

(1)