GV2P05
Motor circuit breaker, TeSys GV2, 3P, 0.63-1 A, thermal magnetic, screw clamp terminals

Product availability: Stock - Normally stocked in distribution facility

Price**: 233.00 USD

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**Main**

- **Range**: TeSys
- **Product name**: TeSys GV2
- **Device short name**: GV2P
- **Device application**: Motor
- **Trip unit technology**: Thermal-magnetic

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**Complementary**

- **Poles description**: 3P
- **Network type**: AC
- **Utilisation category**: AC-3 IEC 60947-4-1
  Category A IEC 60947-2
- **Network frequency**: 50/60 Hz IEC 60947-4-1
- **Fixing mode**: 35 mm symmetrical DIN rail clipped
  Panel screwed with 2 x M4 screws)
- **Operating position**: Any position
- **Motor power kW**: 0.25 kW 400/415 V AC 50/60 Hz
  0.55 kW 690 V AC 50/60 Hz
- **Breaking capacity**: 100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2
  100 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2
  100 kA Icu 440 V AC 50/60 Hz IEC 60947-2
  100 kA Icu 500 V AC 50/60 Hz IEC 60947-2
  100 kA Icu 690 V AC 50/60 Hz IEC 60947-2
- **[Ics] rated service short-circuit breaking capacity**: 100 % 690 V AC 50/60 Hz IEC 60947-2
  100 % 500 V AC 50/60 Hz IEC 60947-2
  100 % 230/240 V AC 50/60 Hz IEC 60947-2
  100 % 440 V AC 50/60 Hz IEC 60947-2
  100 % 400/415 V AC 50/60 Hz IEC 60947-2
- **Control type**: Rotary knob
- **Line Rated Current**: 1 A

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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.
| **Thermal protection adjustment range** | 0.63…1 A |
| **Magnetic tripping current** | 13 A |
| **[Ue] rated operational voltage** | 690 V AC 50/60 Hz IEC 60947-2 |
| **[Ui] rated insulation voltage** | 690 V AC 50/60 Hz IEC 60947-2 |
| **[Ith] conventional free air thermal current** | 1 A IEC 60947-4-1 |
| **[Uimp] rated impulse withstand voltage** | 6 kV IEC 60947-2 |
| **Power dissipation per pole** | 2.5 W |
| **Mechanical durability** | 100000 cycles |
| **Electrical durability** | 100000 cycles AC-3 440 V |
| **Maximum operating rate** | 25 cyc/h |
| **Rated duty** | Continuous IEC 60947-4-1 |
| **Connections - terminals** | screw clamp terminals 2 0.00…0.01 in² (1…6 mm²) solid |
|  | screw clamp terminals 2 0.00…0.01 in² (1.5…6 mm²) flexible without cable end |
|  | screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) flexible with cable end |
| **Tightening torque** | 15.05 lbf.in (1.7 N.m) screw clamp terminals |
| **Suitability for isolation** | Yes IEC 60947-1 |
| **Phase failure sensitivity** | Yes IEC 60947-4-1 |
| **Height** | 3.50 in (89 mm) |
| **Width** | 1.77 in (45 mm) |
| **Depth** | 3.82 in (97 mm) |

**Environment**

**Standards**
- EN/IEC 60947-2
- EN/IEC 60947-4-1
- UL 60947-4-1
- CSA C22.2 No 60947-4-1

**Product certifications**
- IECCE CB Scheme
- UL
- CSA
- CCC
- EAC
- ATEX
- BV
- LROS (Lloyds register of shipping)
- DNV-GL
- RINA

**Protective treatment**
- TH

**IP degree of protection**
- IP20 IEC 60529

**IK degree of protection**
- IK04

**Ambient air temperature for operation**
- -4…140 °F (-20…60 °C)

**Ambient air temperature for storage**
- -40…176 °F (-40…80 °C)

**Fire resistance**
- 1760 °F (960 °C) IEC 60695-2-1

**Operating altitude**
- 6561.68 ft (2000 m)

**Ordering and shipping details**

**Category**
- 22367 - MANUAL STR PROTECTOR - GV2

**Discount Schedule**
- I11

**GTIN**
- 00785901832874

**Package weight(Lbs)**
- 0.29 kg (0.63 lb(US))

**Returnability**
- Yes

**Country of origin**
- TH

**Offer Sustainability**

**Sustainable offer status**
- Green Premium product

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

**Contractual warranty**

Warranty 18 months
Thermal-Magnetic Tripping Curves for GV2ME and GV2P

Average Operating Times at 20 °C Related to Multiples of the Setting Current

1 3 poles from cold state
2 2 poles from cold state
3 3 poles from hot state

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
12  Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

**Thermal Limit on Short-Circuit for GV2P**

Thermal Limit in kA$^2$s 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
GV2P
On rail AM1 DE200, ED200 (35 x 15)

Panel mounted

On pre-slotted plate AM1 PA

Adapter plate GK2AF01

Combination GV2P + TeSys d contactor

<table>
<thead>
<tr>
<th>GV2P +</th>
<th>LC1D09…D18</th>
<th>LC1D25 and D32</th>
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</thead>
<tbody>
<tr>
<td>b</td>
<td>176.4</td>
<td>186.8</td>
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<tr>
<td>c1</td>
<td>100.1</td>
<td>106.4</td>
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</table>
**Mounting**

Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2P

<table>
<thead>
<tr>
<th>GV2P +</th>
<th>LC1D09…D18</th>
<th>LC1D25 and D32</th>
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<tbody>
<tr>
<td>c</td>
<td>105.6</td>
<td>111.9</td>
</tr>
<tr>
<td>d1</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>d</td>
<td>100.5</td>
<td>100.5</td>
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</tbody>
</table>

**Door cut-out**

For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P

**Table:**

<table>
<thead>
<tr>
<th></th>
<th>a</th>
<th>b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>Maximum</td>
<td>Minimum</td>
</tr>
<tr>
<td>GV2APN⁻⁻⁻⁻⁻⁻⁻⁻</td>
<td>140</td>
<td>250</td>
</tr>
<tr>
<td>GV2APN⁻⁻⁻⁻⁻⁻⁻⁻ + GVAPH02</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>GV2APN⁻⁻⁻⁻⁻⁻⁻⁻ + GVAPK11</td>
<td>250</td>
<td>434</td>
</tr>
<tr>
<td>GV2APN⁻⁻⁻⁻⁻⁻⁻⁻ + GVAPH02 + GVAPK11</td>
<td>–</td>
<td>–</td>
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</tbody>
</table>

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