**Product data sheet**

**GV2ME06**

TeSys GV2 Manual Starter and Protector, thermal magnetic circuit protector, push buttons, 1 to 1.6 A, screw clamp

Product availability: Stock - Normally stocked in distribution facility

Price**: 180.00 USD

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### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>TeSys GV2</td>
</tr>
<tr>
<td>Device short name</td>
<td>GV2ME</td>
</tr>
<tr>
<td>Device application</td>
<td>Motor</td>
</tr>
<tr>
<td>Trip unit technology</td>
<td>Thermal-magnetic</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Poles description</th>
<th>3P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network type</td>
<td>AC</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>AC-3 IEC 60947-4-1</td>
</tr>
<tr>
<td></td>
<td>Category A IEC 60947-2</td>
</tr>
<tr>
<td>Network frequency</td>
<td>50/60 Hz IEC 60947-4-1</td>
</tr>
<tr>
<td>Fixing mode</td>
<td>35 mm symmetrical DIN rail clipped</td>
</tr>
<tr>
<td></td>
<td>Panel screwed with adaptor plate)</td>
</tr>
<tr>
<td>Operating position</td>
<td>Any position</td>
</tr>
<tr>
<td>Motor power kW</td>
<td>0.37 kW 400/415 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.37 kW 500 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.75 kW 690 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.55 kW 400/415 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.55 kW 500 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.75 kW 500 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>1.1 kW 690 V AC 50/60 Hz</td>
</tr>
</tbody>
</table>

| 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 |

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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.
### Control type
- Push-button

### Line Rated Current
- 1.6 A

### Thermal protection adjustment range
- 1…1.6 A

### Magnetic tripping current
- 22.5 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
- 1.6 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
- 3.09 in (78.5 mm)

### Net weight
- 0.57 lb(US) (0.26 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
- 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
- 00785901211938

#### Package weight(Lbs)
- 0.26 kg (0.57 lb(US))

#### Returnability
- Yes
<table>
<thead>
<tr>
<th><strong>Country of origin</strong></th>
<th>TH</th>
</tr>
</thead>
</table>

### Offer Sustainability

<table>
<thead>
<tr>
<th>Sustainable offer status</th>
<th>Green Premium product</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACh Regulation</td>
<td>REACh Declaration</td>
</tr>
<tr>
<td>EU RoHS Directive</td>
<td>Compliant</td>
</tr>
<tr>
<td></td>
<td>EU RoHS Declaration</td>
</tr>
<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>
</tr>
</tbody>
</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

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

Thermal Limit in kA²·s in the Magnetic Operating Zone

Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V
**Product data sheet**

**Dimensions Drawings**

### GV2ME06

#### Dimension

**GV2ME**

- 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 3</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>GV2ME +</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>
<tr>
<th>GV2ME +</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>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