

# Bảng thông số sản phẩm

Thông số kỹ thuật



## Motor circuit breaker, TeSys Deca frame 3, 3P, 9-13A, thermal magnetic, EverLink terminals

GV3P13

### Main

|                           |                       |
|---------------------------|-----------------------|
| Range                     | TeSys Deca            |
| Product name              | TeSys GV3             |
| Product or component type | Motor circuit breaker |
| Device short name         | GV3P                  |
| Device application        | Motor protection      |
| Trip unit technology      | Thermal-magnetic      |

### Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description                                   | 3P                                                                                                                                                                                                                                                                                                                |
| Network type                                        | AC                                                                                                                                                                                                                                                                                                                |
| Utilisation category                                | Category A conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1                                                                                                                                                                                                                                          |
| Network frequency                                   | 50/60 Hz conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                              |
| Motor power kW                                      | 5.5 kW at 400/415 V AC 50/60 Hz<br>7.5 kW at 500 V AC 50/60 Hz<br>11 kW at 690 V AC 50/60 Hz                                                                                                                                                                                                                      |
| Breaking capacity                                   | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>12 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>6 kA Icu at 690 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<br>100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 690 V AC 50/60 Hz conforming to IEC 60947-2                        |
| Control type                                        | Rotary handle                                                                                                                                                                                                                                                                                                     |
| [In] rated current                                  | 13 A                                                                                                                                                                                                                                                                                                              |
| Thermal protection adjustment range                 | 9...13 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                              |
| Magnetic tripping current                           | 182 A                                                                                                                                                                                                                                                                                                             |
| [Ith] conventional free air thermal current         | 13 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                  |
| [Ue] rated operational voltage                      | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                       |
| [Ui] rated insulation voltage                       | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage              | 6 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                    |
| Phase failure sensitivity                           | Yes conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                   |
| Suitability for isolation                           | Yes conforming to IEC 60947-1                                                                                                                                                                                                                                                                                     |

Miễn trừ trách nhiệm: Tài liệu này không nhằm thay thế và không được sử dụng để xác định tính phù hợp hoặc độ tin cậy của các sản phẩm này cho các ứng dụng người dùng cụ thể

|                            |                                                                            |
|----------------------------|----------------------------------------------------------------------------|
| Power dissipation per pole | 8 W                                                                        |
| Mechanical durability      | 50000 cycles                                                               |
| Electrical durability      | 50000 cycles for AC-3 at 415 V In                                          |
| Rated duty                 | Continuous conforming to IEC 60947-4-1                                     |
| Tightening torque          | 5 N.m - on screw clamp terminal                                            |
| Fixing mode                | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with 3 x M4 screws) |
| Mounting position          | Horizontal<br>Vertical                                                     |
| Width                      | 55 mm                                                                      |
| Height                     | 132 mm                                                                     |
| Depth                      | 136 mm                                                                     |
| Net weight                 | 0.96 kg                                                                    |
| Colour                     | Dark grey                                                                  |

## Environment

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>IEC/EN 60335-1:Clause 30.2<br>IEC/EN 60335-2-40:Annex JJ |
| Product certifications                | CCC<br>UL<br>CSA<br>EAC<br>ATEX<br>LROS (Lloyds register of shipping)<br>BV<br>ABS<br>DNV-GL<br>UKCA                                     |
| IK degree of protection               | IK09 enclosure                                                                                                                           |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                                                             |
| Climatic withstand                    | conforming to IACS E10                                                                                                                   |
| Ambient air temperature for storage   | -40...80 °C                                                                                                                              |
| Fire resistance                       | 960 °C conforming to IEC 60695-2-11                                                                                                      |
| Ambient air temperature for operation | -20...60 °C                                                                                                                              |
| Mechanical robustness                 | Shocks: 15 Gn for 11 ms contactor open<br>Shocks: 30 Gn for 11 ms contactor closed<br>Vibrations: 4 Gn, 5...300 Hz                       |
| Operating altitude                    | 3000 m                                                                                                                                   |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 15.500 cm |
| Package 1 Width              | 6.500 cm  |
| Package 1 Length             | 14.500 cm |
| Package 1 Weight             | 982.000 g |

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 60        |
| Package 2 Height             | 75.000 cm |
| Package 2 Width              | 60.000 cm |
| Package 2 Length             | 80.000 cm |
| Package 2 Weight             | 71.920 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Environmental Data

Schneider Electric nhắm đến việc đạt được vị trí Net Zero vào năm 2050 thông qua các quan hệ đối tác chuỗi cung ứng, giảm vật liệu tác động và sự tuần hoàn thông qua chiến dịch "Use Better, Use Longer, Use Again" đang diễn ra của chúng tôi để kéo dài tuổi thọ sản phẩm và khả năng tái chế.

Dữ liệu môi trường đã giải thích >

Cách chúng tôi đánh giá tính bền vững của sản phẩm >

## Ảnh hưởng môi trường

|                                                       |    |
|-------------------------------------------------------|----|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 30 |
|-------------------------------------------------------|----|

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
|--------------------------|-----------------------------------------------|

## Use Better

### Vật liệu và Bao bì

|                                        |     |
|----------------------------------------|-----|
| Packaging made with recycled cardboard | Yes |
|----------------------------------------|-----|

|                                      |     |
|--------------------------------------|-----|
| Packaging without single use plastic | Yes |
|--------------------------------------|-----|

|                   |                           |
|-------------------|---------------------------|
| EU RoHS Directive | Compliant with Exemptions |
|-------------------|---------------------------|

|             |                                      |
|-------------|--------------------------------------|
| SCIP Number | 2057c252-f956-4ac1-a3d9-75119bc8a000 |
|-------------|--------------------------------------|

|                  |                                   |
|------------------|-----------------------------------|
| REACH Regulation | <a href="#">REACH Declaration</a> |
|------------------|-----------------------------------|

|                       |                                        |
|-----------------------|----------------------------------------|
| China RoHS Regulation | <a href="#">China RoHS declaration</a> |
|-----------------------|----------------------------------------|

## Use Again

### Đóng gói lại và tái sản xuất

|                     |                                         |
|---------------------|-----------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a> |
|---------------------|-----------------------------------------|

WEEE

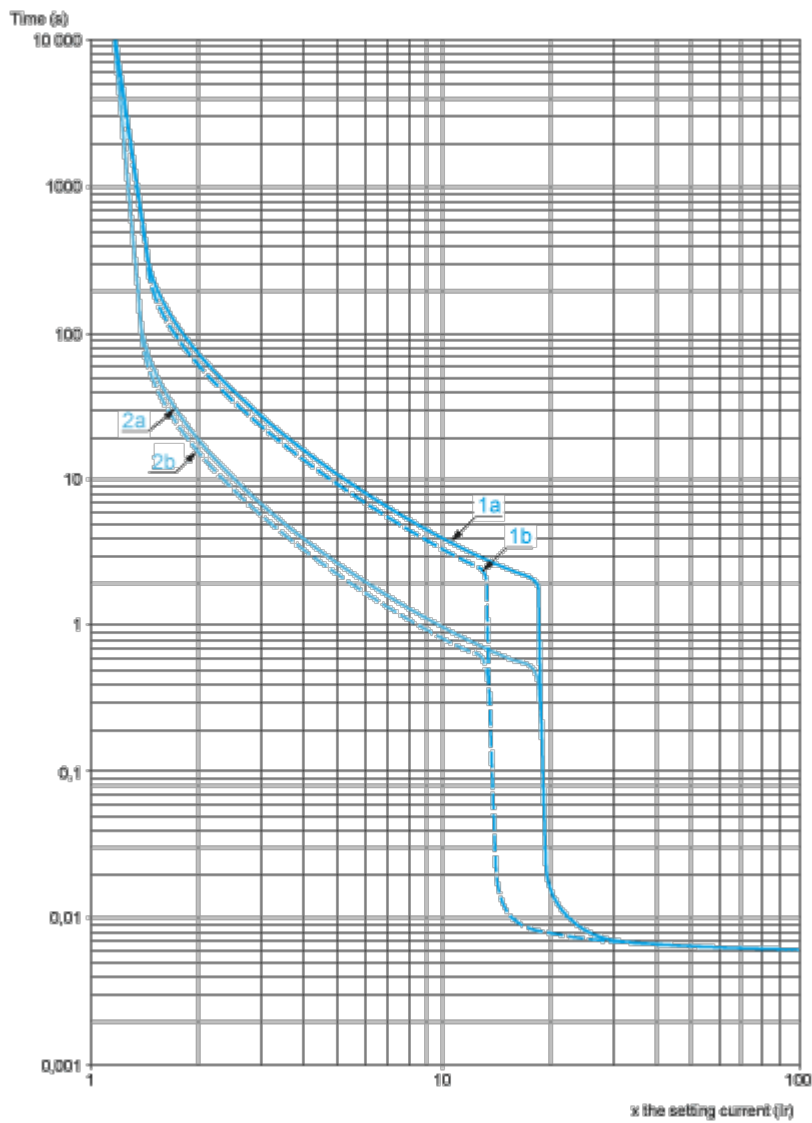


The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

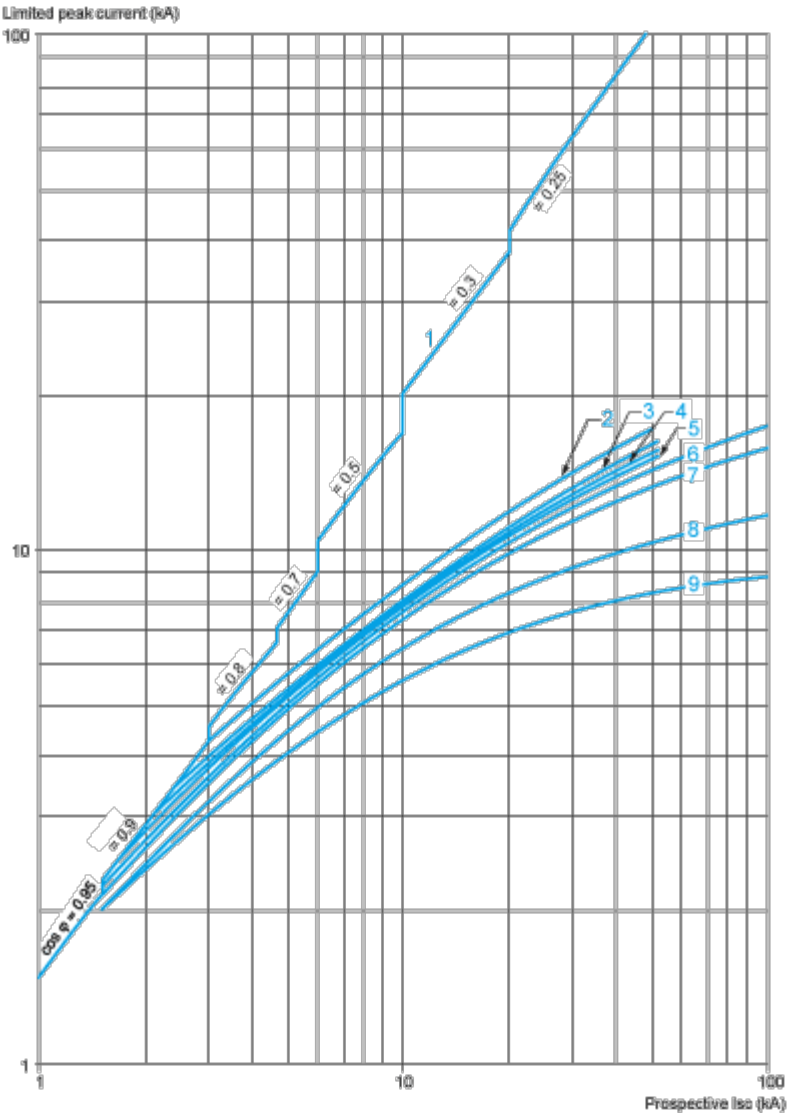
No

Thermal-Magnetic Tripping Curves  
Average Operating Times at 20 °C Related to Multiples of the Setting Current



- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

Current Limitation on Short-Circuit (3-Phase 400/415 V)  
Dynamic Stress  
 $I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$

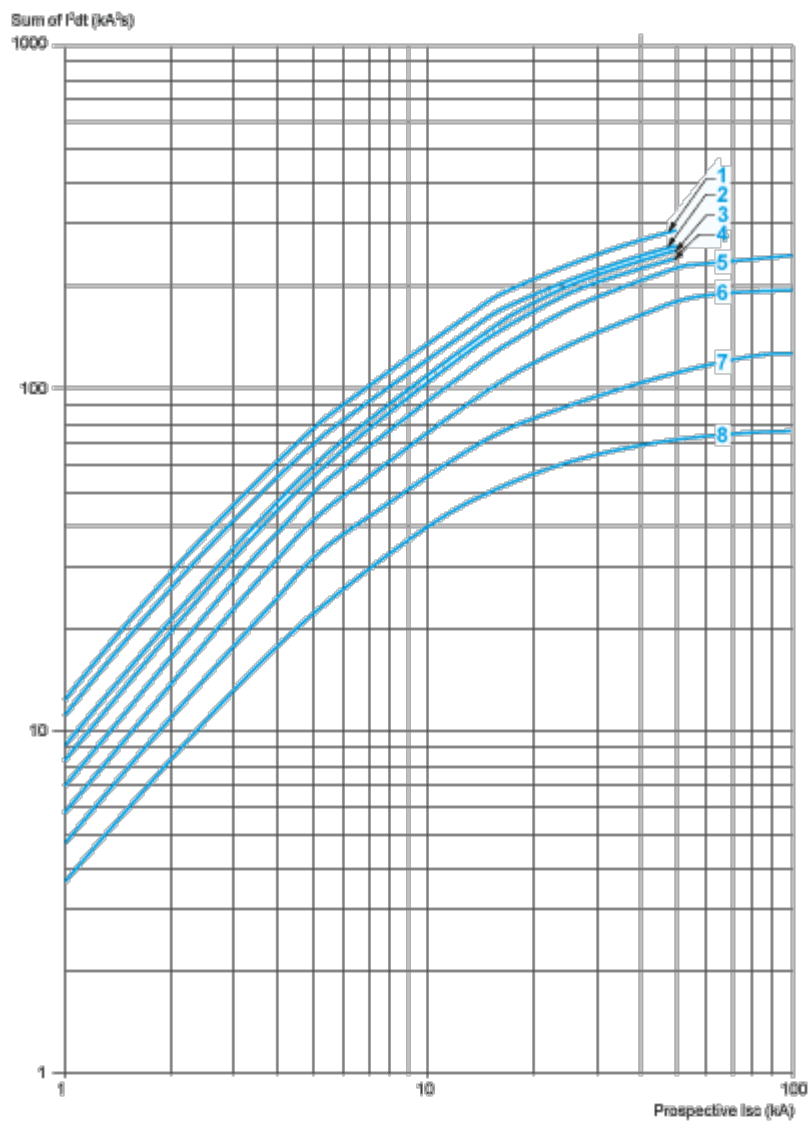


- 1    Maximum peak current
- 2    70-80 A (GV3P80), 62-73 A (GV3P73)
- 3    48-65 A (GV3P65)
- 4    37-50 A (GV3P50)
- 5    30-40 A (GV3P40)
- 6    23-32 A (GV3P32)
- 7    17-25 A (GV3P25)
- 8    12-18 A (GV3P18)
- 9    9-13 A (GV3P13)

**Maximum Thermal Limit on Short-Circuit**

**Thermal Limit in kA<sup>2</sup>s in the Magnetic Operating Zone**

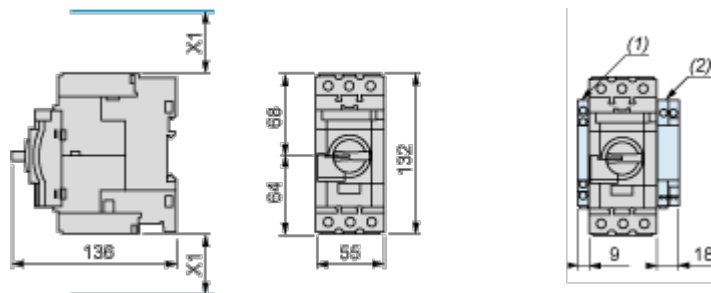
Sum of I<sup>2</sup>dt = f (prospective Isc) at 1.05 Ue = 435 V



- 1 70-80 (GV3P80) - 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

GV13L, GV3P

Dimensions

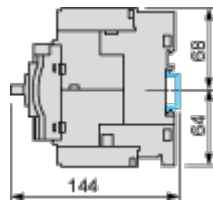


- (1) Blocks GVAN... , GVAD... and GVAM11.
- (2) Blocks GV3AU... and GV3AS... .

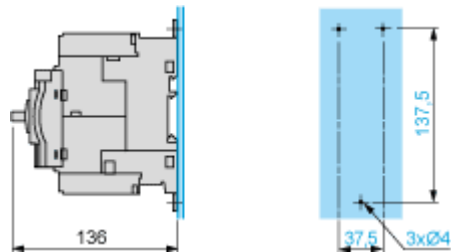
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

**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.

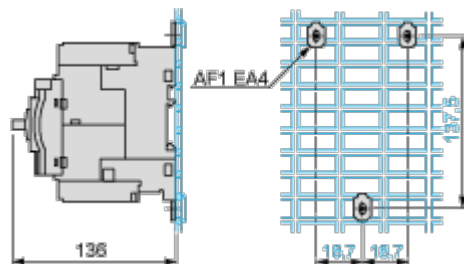
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws

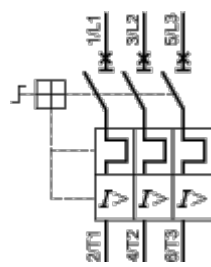


Mounting on Pre-Slotted Plate AM1 PA





GV3P••



Product benefits / Features

TeSys Deca

Motor Circuit Breakers



Operation and maintenance

Digital customer experience for technical documents and maintenance guide via EcoStruxure™ Facility Expert



Build and commissioning

Easier to install and operate with multi-standard screws, safe and long-lasting power connection with EverLink terminals.



Universal Integration

Can be used for all type of applications across industry, infrastructure and buildings.





Offer Marketing Illustration

Product benefits / Features



### TeSys Deca Motor Circuit Breakers

Range Accessories



Auxiliary contact blocks



Comb busbar



Current limiter



Energy Sensor



Large spacing cover



Terminal block



Combination block



Extended rotary handle

Image of product / Alternate images

Alternative

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