

# Product data sheet

Specifications



## TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary knob, 37 to 50 A, EverLink BTR

GV3P50

Product availability: Stock - Normally stocked in distribution facility

Price\*: 504.00 USD

### Main

Range	TeSys Deca
Product Name	TeSys GV3 TeSys Deca
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	AC-3 IEC 60947-4-1
Network Frequency	50/60 Hz IEC 60947-4-1
Fixing Mode	35 mm symmetrical DIN rail clipped Panel screwed with 3 x M4 screws)
Motor Power Kw	22 kW 400/415 V AC 50/60 Hz 30 kW 500 V AC 50/60 Hz 45 kW 690 V AC 50/60 Hz
Breaking Capacity	100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 50 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 50 kA Icu 440 V AC 50/60 Hz IEC 60947-2 12 kA Icu 500 V AC 50/60 Hz IEC 60947-2 6 kA Icu 690 V AC 50/60 Hz IEC 60947-2
[Ics] Rated Service Short-Circuit Breaking Capacity	100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 50 % 500 V AC 50/60 Hz IEC 60947-2 50 % 690 V AC 50/60 Hz IEC 60947-2
Control Type	Rotary handle
Line Rated Current	50 A
Thermal Protection Adjustment Range	37...50 A IEC 60947-4-1
Magnetic Tripping Current	700 A
[Ith] Conventional Free Air Thermal Current	50 A IEC 60947-4-1
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz IEC 60947-2

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>[Ui] Rated Insulation Voltage</b>	690 V AC 50/60 Hz IEC 60947-2
<b>[Uimp] Rated Impulse Withstand Voltage</b>	6 kV IEC 60947-2
<b>Phase Failure Sensitivity</b>	Yes IEC 60947-4-1
<b>Suitability For Isolation</b>	Yes IEC 60947-1
<b>Power Dissipation Per Pole</b>	8 W
<b>Mechanical Durability</b>	50000 cycles
<b>Electrical Durability</b>	50000 cycles AC-3 415 V In
<b>Rated Duty</b>	Continuous IEC 60947-4-1
<b>Tightening Torque</b>	44.25 lbf.in (5 N.m) screw clamp terminal
<b>Width</b>	2.17 in (55 mm)
<b>Height</b>	5.20 in (132 mm)
<b>Depth</b>	5.35 in (136 mm)
<b>Net Weight</b>	2.12 lb(US) (0.96 kg)
<b>Color</b>	Dark grey

## Environment

<b>Standards</b>	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
<b>Product Certifications</b>	CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV ABS DNV-GL UKCA
<b>Ik Degree Of Protection</b>	IK09 enclosure
<b>Ip Degree Of Protection</b>	IP20 IEC 60529
<b>Climatic Withstand</b>	IACS E10
<b>Ambient Air Temperature For Storage</b>	-40...176 °F (-40...80 °C)
<b>Fire Resistance</b>	1760 °F (960 °C) IEC 60695-2-11
<b>Ambient Air Temperature For Operation</b>	-4...140 °F (-20...60 °C)
<b>Mechanical Robustness</b>	Shocks 15 Gn for 11 ms contactor open Shocks 30 Gn for 11 ms contactor closed Vibrations 4 Gn, 5...300 Hz
<b>Operating Altitude</b>	9842.52 ft (3000 m)

## Ordering and shipping details

<b>Category</b>	US10I1122366
<b>Discount Schedule</b>	0111
<b>Gtin</b>	3389119405409
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	US

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.30 in (16.000 cm)
Package 1 Width	2.56 in (6.500 cm)
Package 1 Length	5.71 in (14.500 cm)
Package 1 Weight	2.22 lb(US) (1.008 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	120
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	301.95 lb(US) (136.960 kg)

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information.

Environmental Disclosure [Product Environmental Profile](#)

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

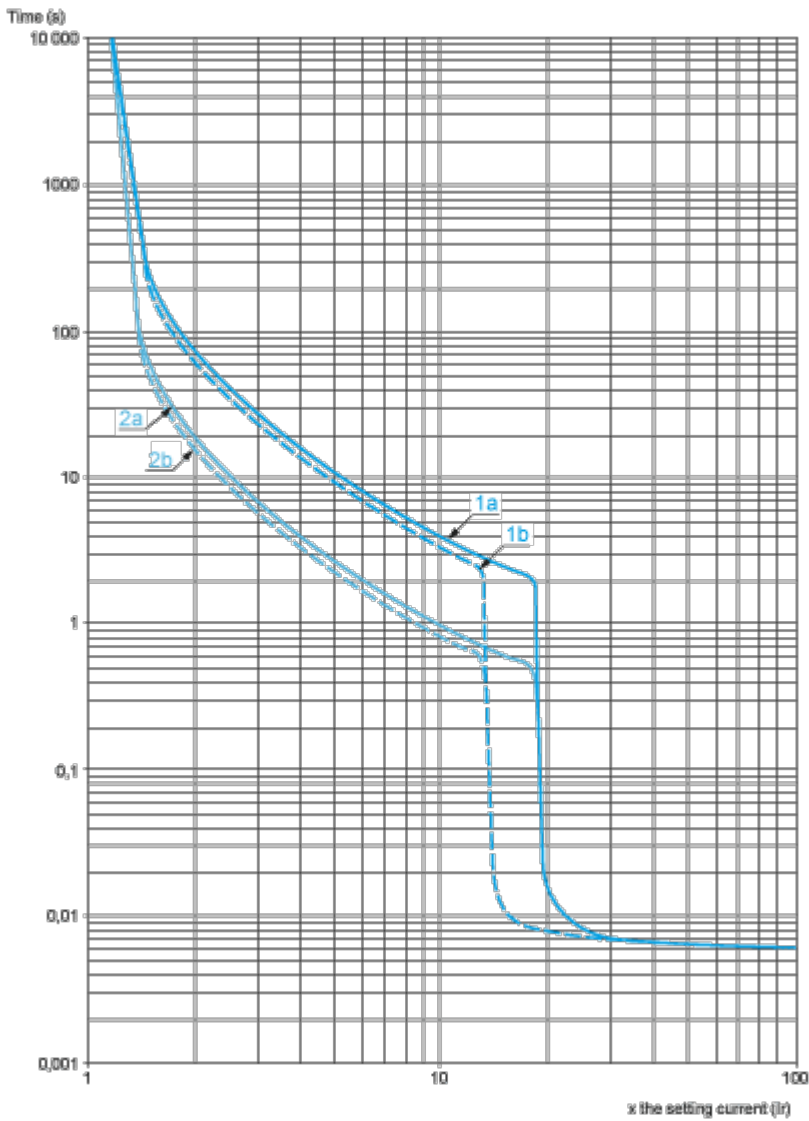
Circularity Profile [End of Life Information](#)

California Proposition 65 WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Performance Curves

**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

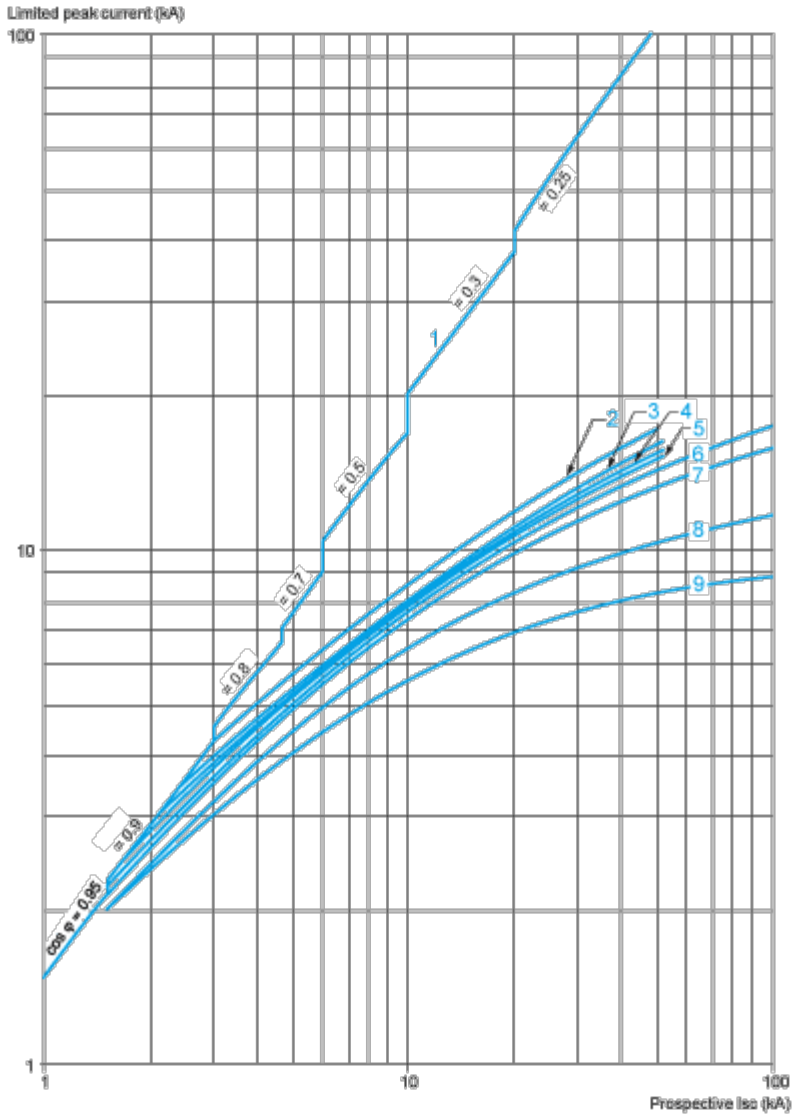
2a 3 poles from hot state (Ir minimum): GV3P

2b 3 poles from hot state (Ir maximum): GV3P

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

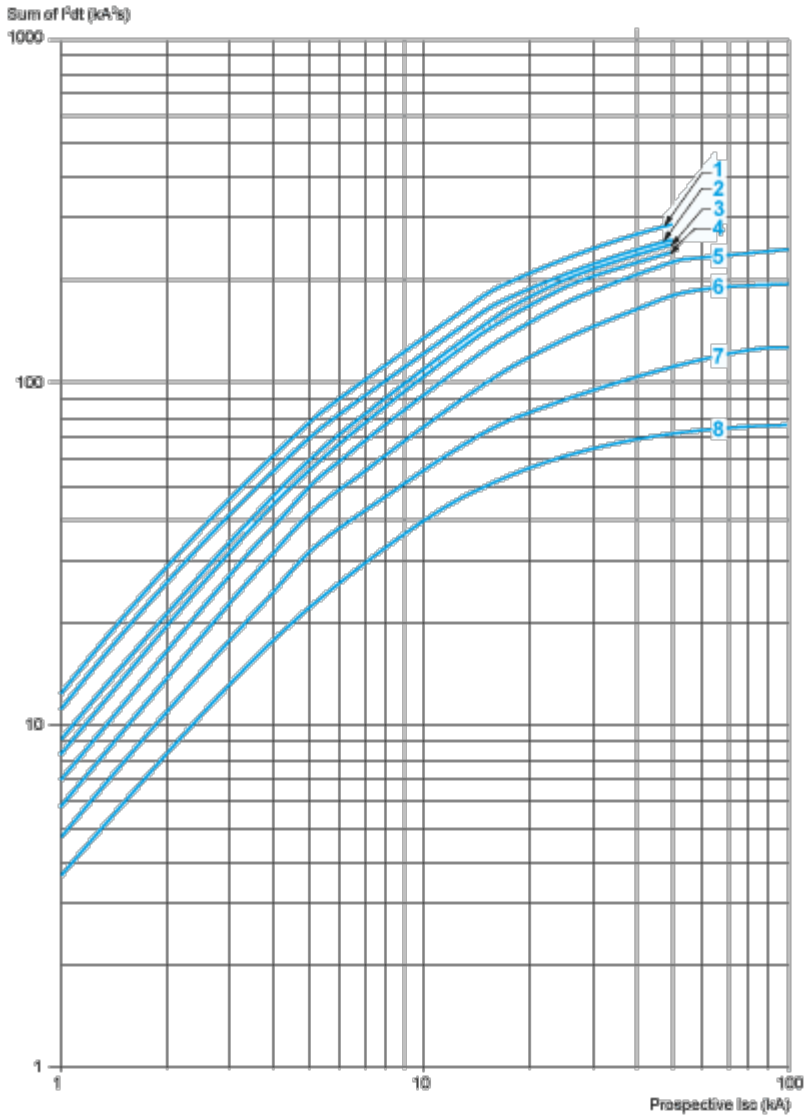
**Dynamic Stress**

$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$



- 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  $kA^2s$  in the Magnetic Operating Zone**  
 Sum of  $I^2dt = f$  (prospective Isc) at 1.05 Ue = 435 V

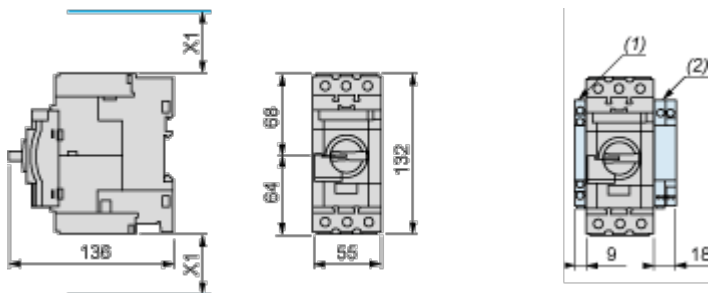


- 1 70-80 (GV3P80) - 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

Dimensions Drawings

GV13L, GV3P

Dimensions



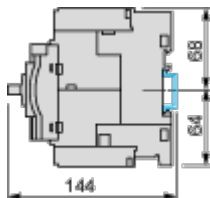
(1) Blocks GVAN<sub>..</sub>, GVAD<sub>..</sub> and GVAM11.

(2) Blocks GV3AU<sub>..</sub> and GV3AS<sub>..</sub>.

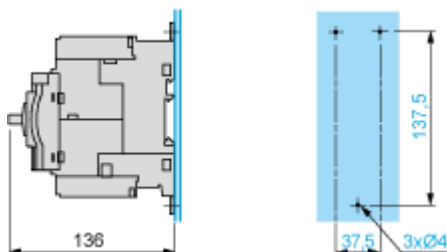
X1 = Electrical clearance (ISC max) 40 mm for U<sub>e</sub> ≤ 500 V, 50 mm for U<sub>e</sub> ≤ 690 V

**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.

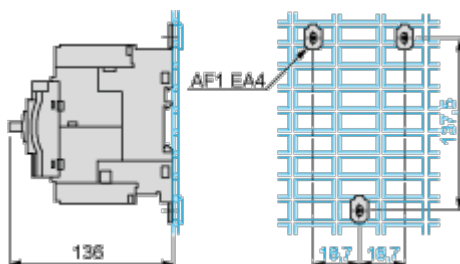
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws



Mounting on Pre-Slotted Plate AM1 PA







Connections and Schema

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GV3P••

