# **Product datasheet**





# Motor circuit breaker, TeSys GV3, 3P, 37-50 A, thermal magnetic, **EverLink terminals**

GV3P50

# 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

Complementary	
poles description	3P
Network type	AC
Utilisation category	AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws)
Motor power kW	22 kW at 400/415 V AC 50/60 Hz 30 kW at 500 V AC 50/60 Hz 45 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 50 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 12 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 6 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
[lcs] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Rotary handle
[In] rated current	50 A
Thermal protection adjustment range	3750 A conforming to IEC 60947-4-1
Magnetic tripping current	700 A
[Ith] conventional free air thermal current	50 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

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Suitability for isolation	Yes conforming to IEC 60947-1	
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	
Width	55 mm	
Height	132 mm	
Depth	136 mm	
net weight	0.96 kg	
Colour	Dark grey	

# **Environment**

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1	
Product certifications	CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV ABS DNV-GL 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	-4080 °C	
Fire resistance	960 °C conforming to IEC 60695-2-11	
Ambient air temperature for operation	-2060 °C	
Mechanical robustness	Shocks: 15 Gn for 11 ms contactor open Shocks: 30 Gn for 11 ms contactor closed Vibrations: 4 Gn, 5300 Hz	
Operating altitude	3000 m	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.000 cm
Package 1 Width	6.500 cm
Package 1 Length	14.500 cm
Package 1 Weight	1.008 kg
Unit Type of Package 2	P06
Number of Units in Package 2	120
Package 2 Height	75.000 cm

Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	136 960 kg

# **Contractual warranty**

Warranty 18 months

# Sustainability Screen Premium\*

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass 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

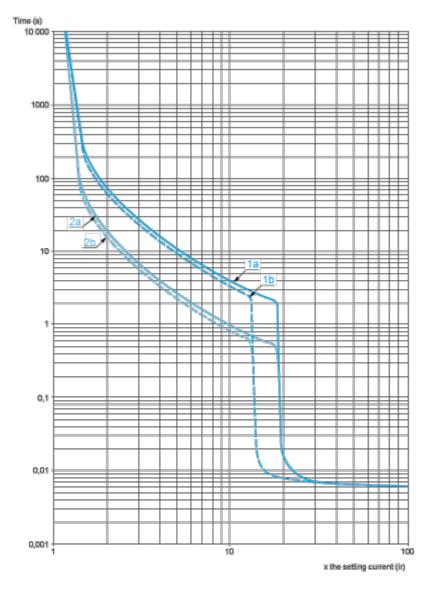
# **Certifications & Standards**

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

#### **Performance Curves**

#### **Thermal-Magnetic Tripping Curves**

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

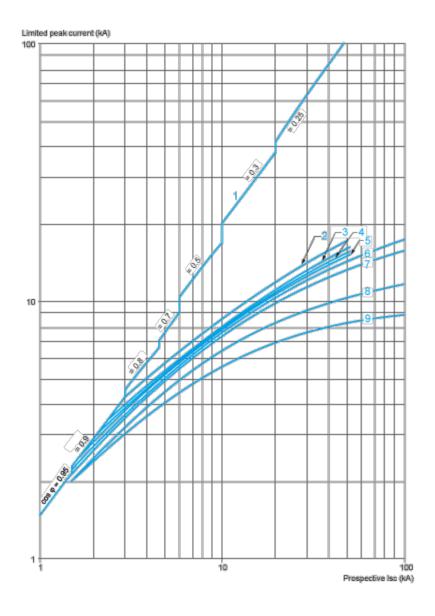


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

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

#### **Dynamic Stress**

I peak = f (prospective Isc) at 1.05 Ue = 435 V



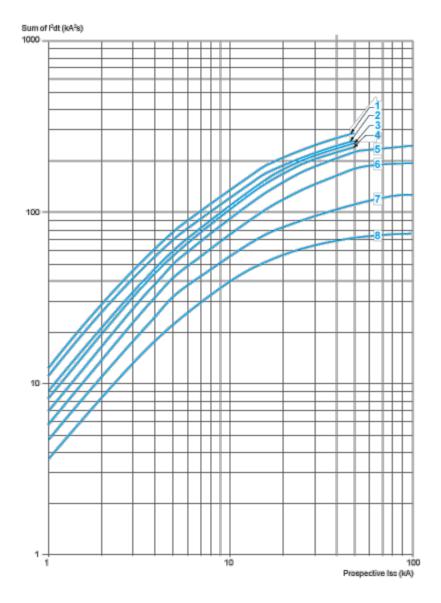
- 1 Maximum peak current
- 2 70-80 A (GV3P80), 62-73 A (GV3P73)
- 3 48-65 A (GV3P65)
- 4 37-50 A (GV3P50)
- 5 30-40 A (GV3P40)
- 6 23-32 A (GV3P32)
- 7 17-25 A (GV3P25)
- 8 12-18 A (GV3P18)
- 9 9-13 A (GV3P13)

### **Maximum Thermal Limit on Short-Circuit**

Thermal Limit in  ${\rm kA}^2{\rm s}$  in the Magnetic Operating Zone

Sum of  $I^2$ dt = f (prospective lsc) at 1.05 Ue = 435 V

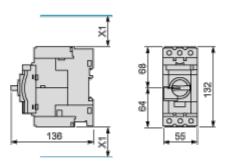
# **GV3P50**

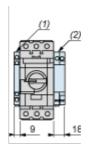


- 1 70-80 (GV3P80) 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

### **Dimensions Drawings**

#### GVI3L, GV3P Dimensions



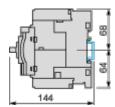


- (1) Blocks  $\text{GVAN}_{\bullet \bullet}$ ,  $\text{GVAD}_{\bullet \bullet}$  and GVAM11.
- (2) Blocks GV3AU and GV3AS and GV3AS.

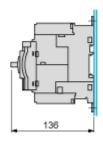
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

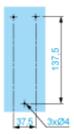
**NOTE:** Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

#### Mounting on Rail AM1 DE200 or AM1 ED201

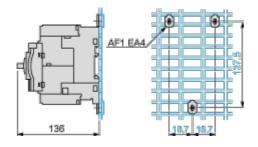


#### Panel Mounting, using M4 Screws





### Mounting on Pre-Slotted Plate AM1 PA



# Connections and Schema

GV3P••

