

Product datasheet

Specifications



Motor circuit breaker, TeSys GV3, 3P, 70-80 A, thermal magnetic, EverLink terminals

GV3P80

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 conforming to IEC 60947-4-1
Network Frequency	50/60 Hz
Fixing Mode	35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws)
Motor Power Kw	45 kW at 400/415 V AC 50/60 Hz maximum peak current 750 A 45 kW at 500 V AC 50/60 Hz maximum peak current 750 A 55 kW at 690 V AC 50/60 Hz maximum peak current 750 A
Breaking Capacity	65 kA Icu at 230/240 V AC 50/60 Hz 50 kA Icu at 400/415 V AC 50/60 Hz 50 kA Icu at 440 V AC 50/60 Hz 12 kA Icu at 500 V AC 50/60 Hz 6 kA Icu at 690 V AC 50/60 Hz
[Ics] Rated Service Short-Circuit Breaking Capacity	100 % at 230/240 V AC 50/60 Hz 60 % at 400/415 V AC 50/60 Hz 60 % at 440 V AC 50/60 Hz 50 % at 500 V AC 50/60 Hz 50 % at 690 V AC 50/60 Hz
Control Type	Rotary handle
[In] Rated Current	80 A
Thermal Protection Adjustment Range	70...80 A conforming to IEC 60947-4-1
Magnetic Tripping Current	1120 A
[Ith] Conventional Free Air Thermal Current	80 A conforming to IEC 60947-4-1
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz
[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
Power Dissipation Per Pole	8 W
Mechanical Durability	50000 cycles
Electrical Durability	20000 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 CSA C22.2 No 60947-4-1
Product Certifications	CCC 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	-40...80 °C
Fire Resistance	960 °C conforming to IEC 60695-2-11
Ambient Air Temperature For Operation	-20...60 °C
Mechanical Robustness	Shocks: 5 Gn for 11 ms contactor open Shocks: 30 Gn for 11 ms contactor closed 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	6.500 cm
Package 1 Width	14.500 cm
Package 1 Length	16.000 cm
Package 1 Weight	1.020 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
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Package 2 Weight	135.500 kg
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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-CO₂ 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

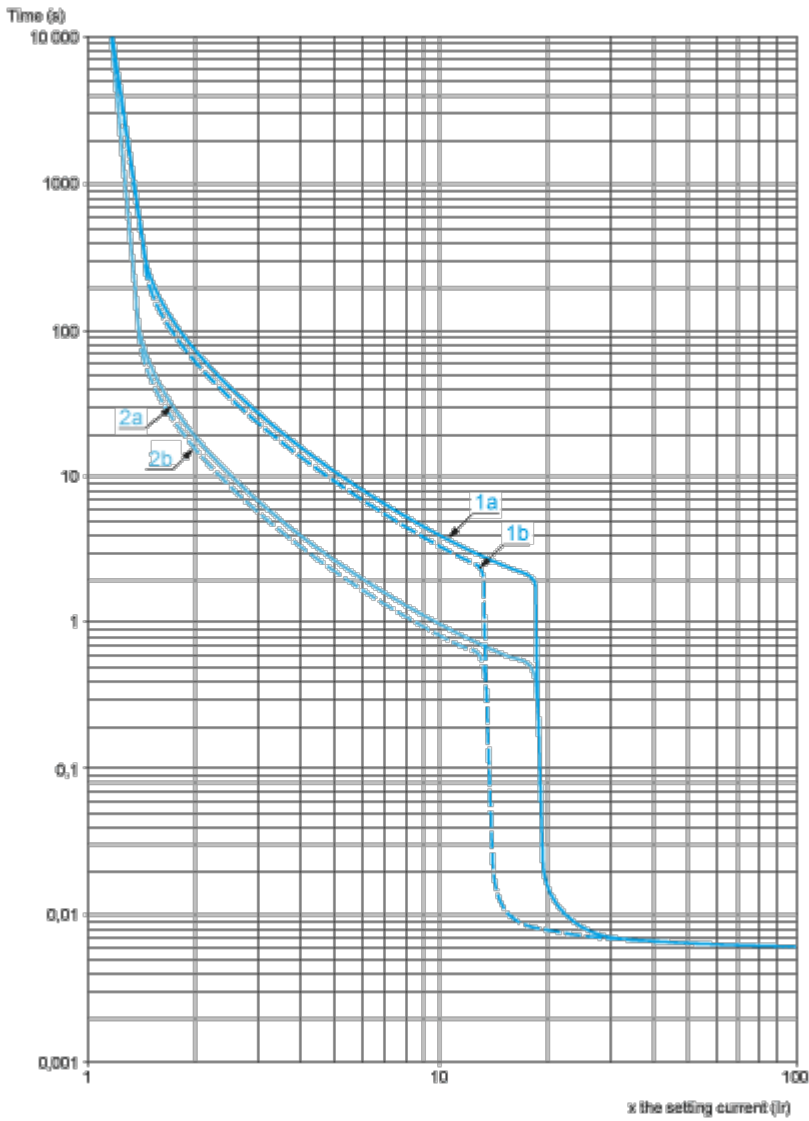
Environmental Disclosure [Product Environmental Profile](#)

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](#)

Thermal-Magnetic Tripping Curves

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

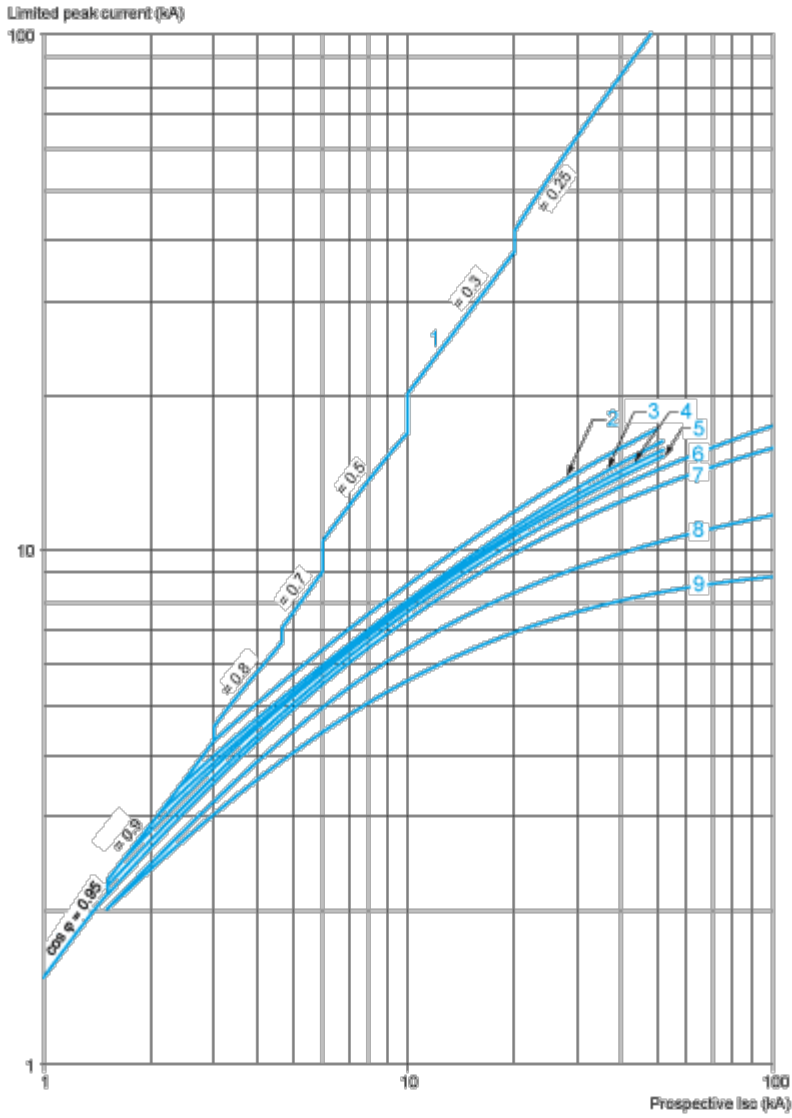


- 1a 3 poles from cold state (I_r minimum): GV3P
- 1b 3 poles from cold state (I_r maximum): GV3P
- 2a 3 poles from hot state (I_r minimum): GV3P
- 2b 3 poles from hot state (I_r maximum): GV3P

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

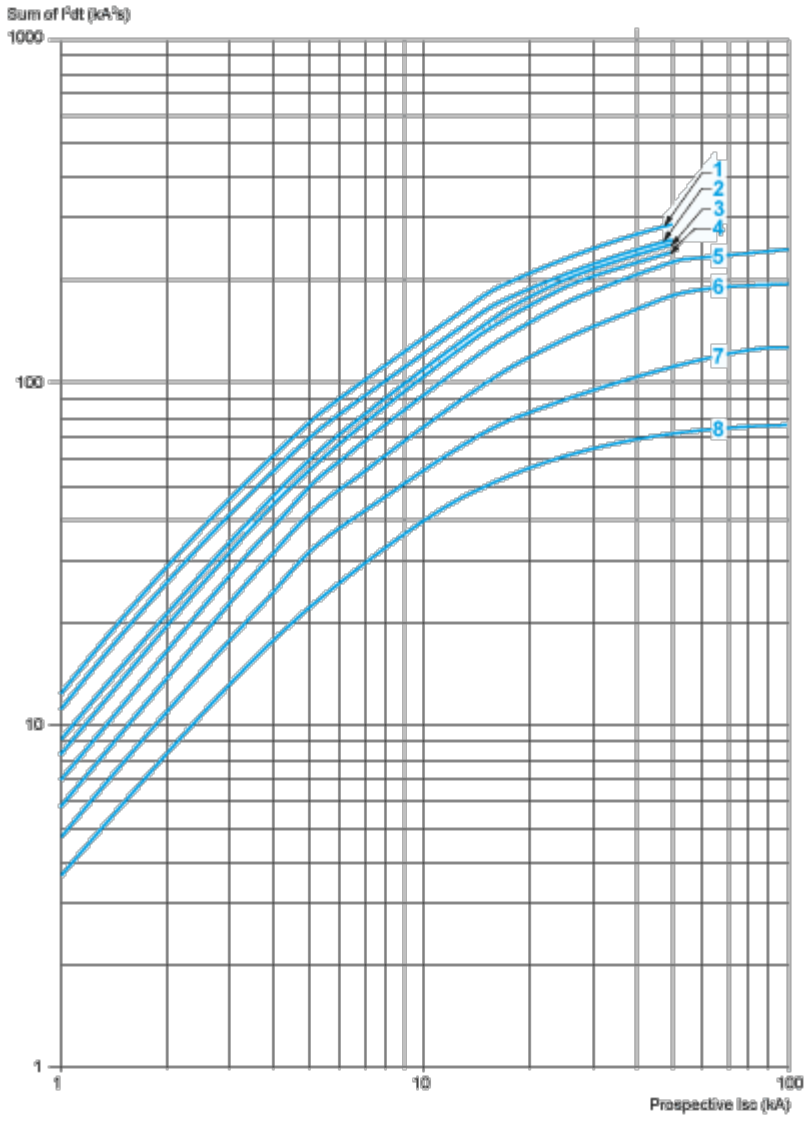
Dynamic Stress

I_{peak} = f (prospective I_{sc}) at 1.05 U_e = 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)

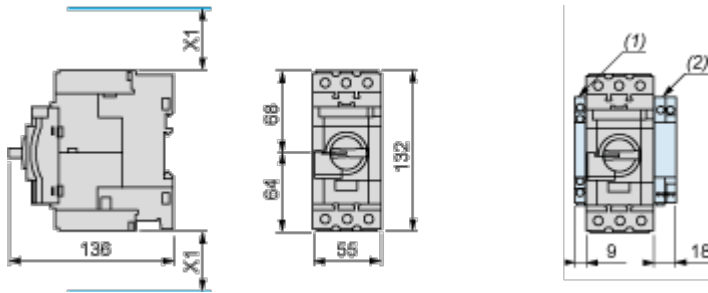
Maximum Thermal Limit on Short-Circuit
Thermal Limit in kA^2s in the Magnetic Operating Zone
 Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V



- 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)

GV13L, GV3P

Dimensions



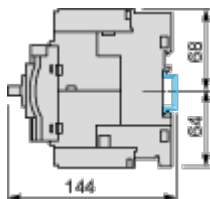
(1) Blocks GVAN_{..}, GVAD_{..} and GVAM11.

(2) Blocks GV3AU_{..} and GV3AS_{..}.

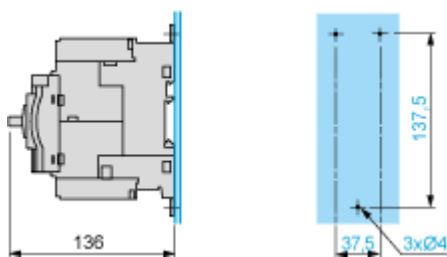
X1 = Electrical clearance (ISC max) 40 mm for $U_e \leq 500$ V, 50 mm for $U_e \leq 690$ V

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.

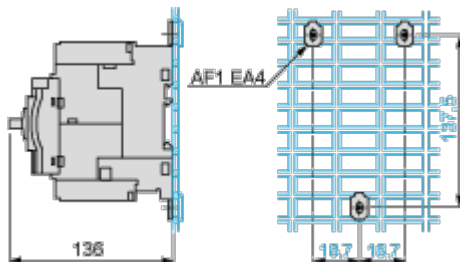
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws



Mounting on Pre-Slotted Plate AM1 PA



GV3P**

