

Product data sheet

Specifications



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

GV3P80

Product availability: Stock - Normally stocked in distribution facility

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 IEC 60947-2 AC-3 IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-2
Motor power kW	45 kW 400/415 V AC 50/60 Hz maximum peak current 750 A 45 kW 500 V AC 50/60 Hz maximum peak current 750 A 55 kW 690 V AC 50/60 Hz maximum peak current 750 A
Breaking capacity	65 kA Icu 230/240 V AC 50/60 Hz 50 kA Icu 400/415 V AC 50/60 Hz 50 kA Icu 440 V AC 50/60 Hz 12 kA Icu 500 V AC 50/60 Hz 6 kA Icu 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	100 % 230/240 V AC 50/60 Hz 60 % 400/415 V AC 50/60 Hz 60 % 440 V AC 50/60 Hz 50 % 500 V AC 50/60 Hz 50 % 690 V AC 50/60 Hz
Control Type	Rotary handle
Line Rated Current	80 A
Thermal protection adjustment range	70...80 A IEC 60947-2
Magnetic tripping current	1120 A
[Ith] conventional free air thermal current	80 A IEC 60947-2
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Ui] rated insulation voltage	690 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Phase failure sensitivity	Yes IEC 60947-4-1
Suitability for isolation	Yes IEC 60947-1

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

Power dissipation per pole	8 W
Mechanical durability	50000 cycles
Electrical durability	20000 cycles AC-3 415 V In
Rated duty	Uninterrupted IEC 60947-4-1
Tightening torque	44.3 lbf.in (5 N.m) screw clamp terminal
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with 3 x M4 screws)
Mounting position	Horizontal Vertical
Width	2.2 in (55 mm)
Height	5.2 in (132 mm)
Depth	5.4 in (136 mm)
Product Weight	2.12 lb(US) (0.96 kg)
color	Dark grey

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 IEC/EN 60335-1:Clause 30.2 IEC/EN 60335-2-40:Annex JJ
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 IEC 60529
Climatic withstand	IACS E10
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-11
Ambient air temperature for operation	-4...140 °F (-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	9842.52 ft (3000 m)

Ordering and shipping details

Category	US10I1122366
Discount Schedule	0111
GTIN	3606481304568
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	2.56 in (6.500 cm)
Package 1 Width	5.71 in (14.500 cm)
Package 1 Length	6.30 in (16.000 cm)
Package weight(Lbs)	2.249 lb(US) (1.020 kg)
Unit Type of Package 2	S06
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	298.727 lb(US) (135.500 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) **30**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

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 [REACH Declaration](#)

Use Again

Repack and remanufacture

Circularity Profile [End of Life Information](#)

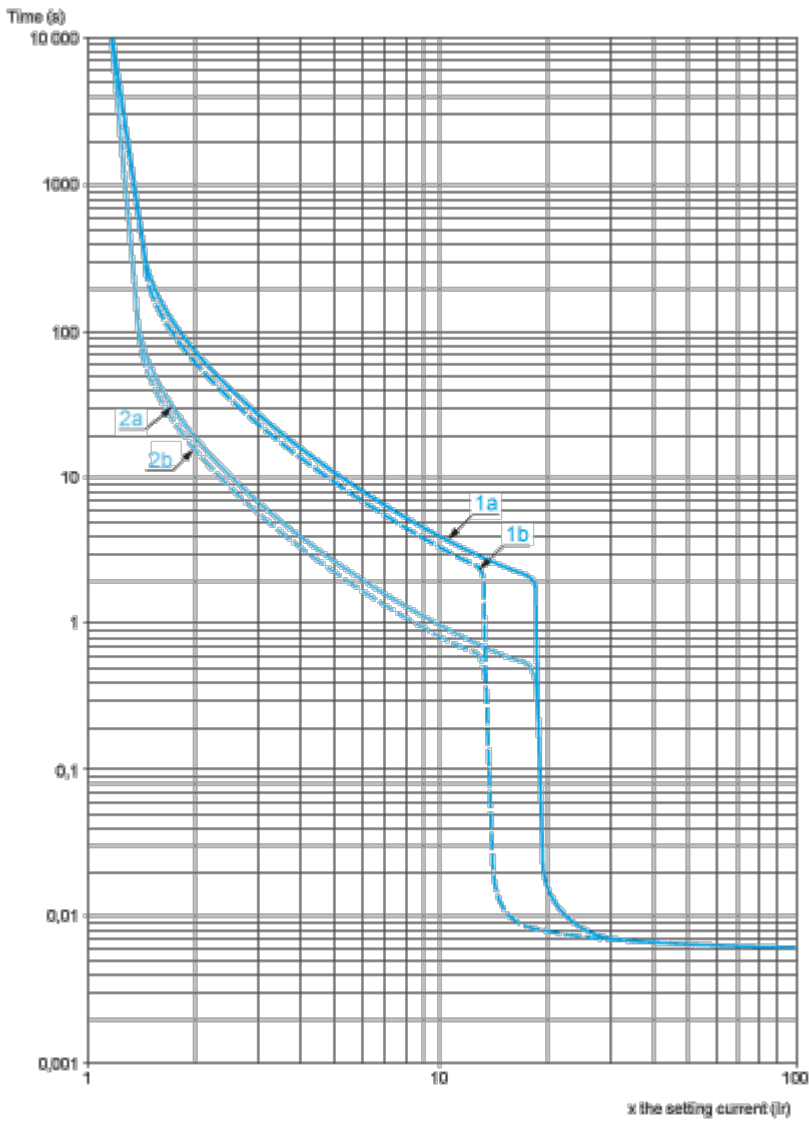
Take-back **No**

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

Performance Curves

Thermal-Magnetic Tripping Curves

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

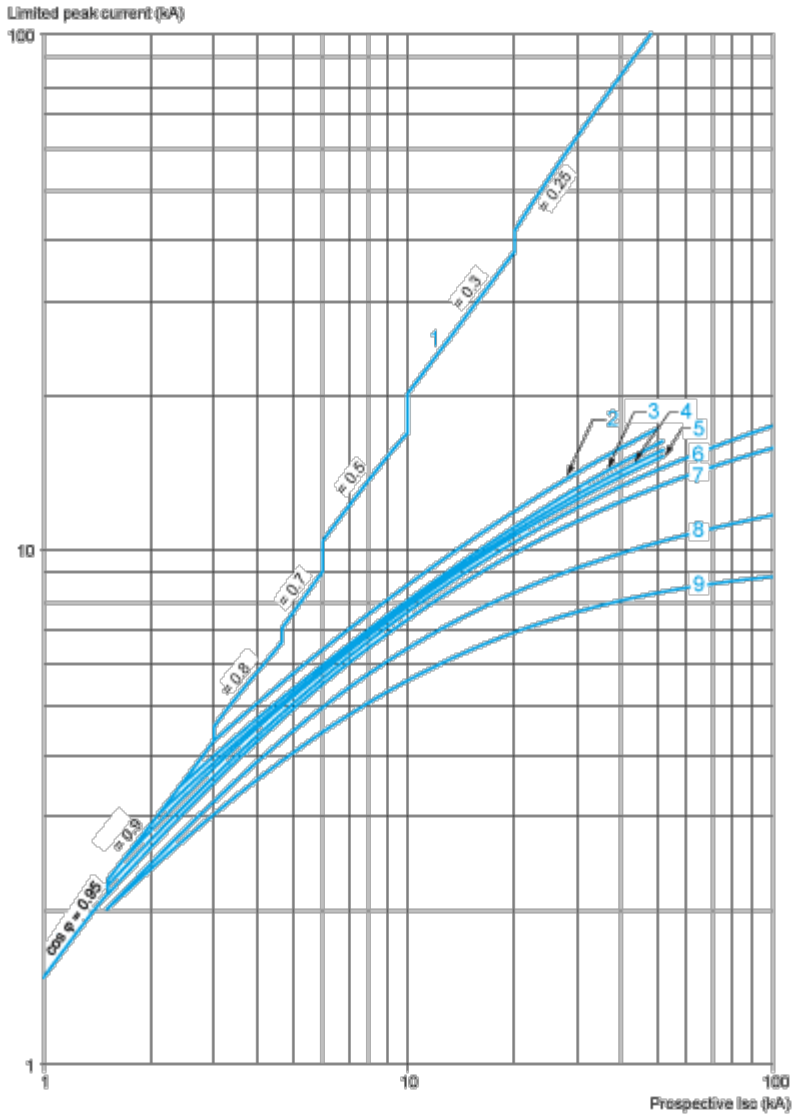


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

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

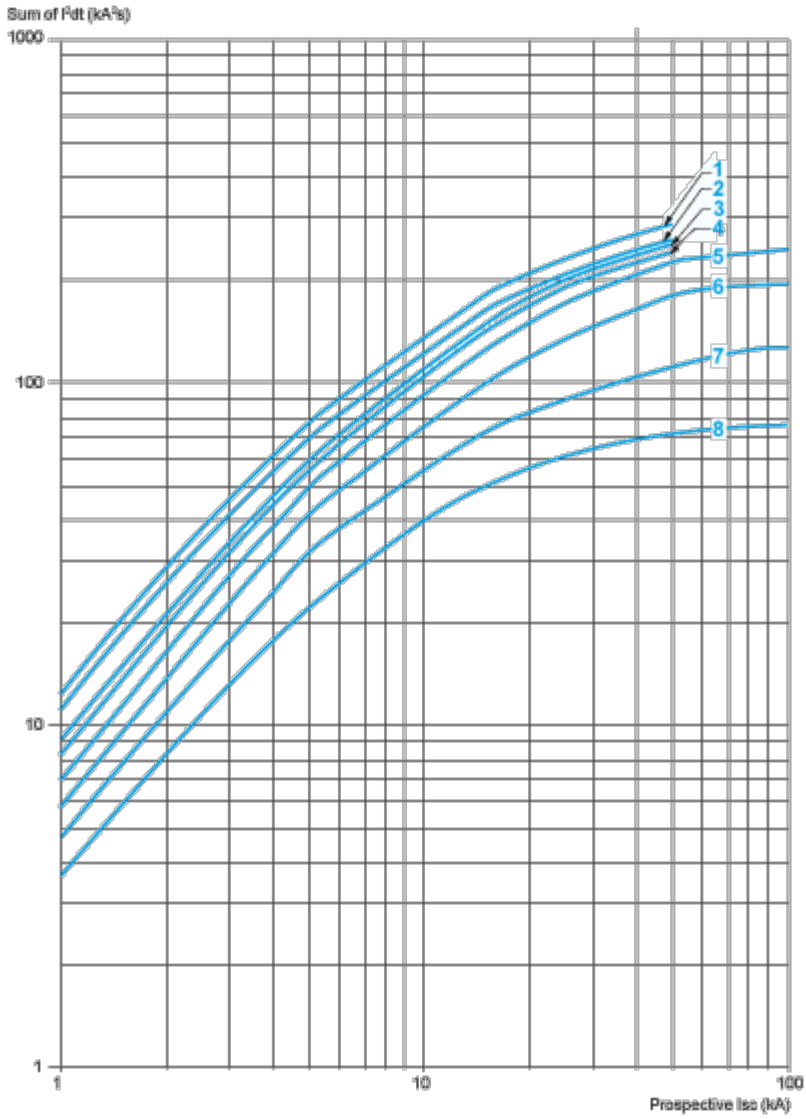
Dynamic Stress

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



- 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

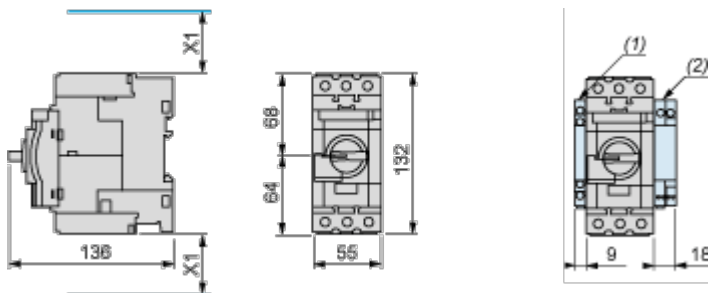


- 1 70-80 (GV3P80) - 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

Dimensions Drawings

GV13L, GV3P

Dimensions



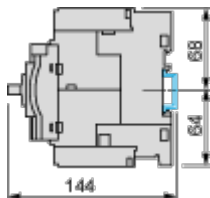
(1) Blocks GVAN_{..}, GVAD_{..} and GVAM11.

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

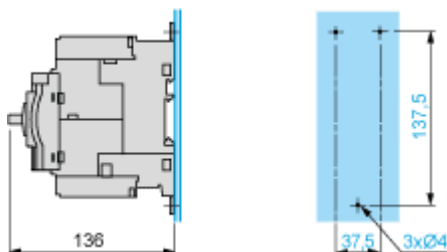
X1 = Electrical clearance (ISC max) 40 mm for U_e ≤ 500 V, 50 mm for U_e ≤ 690 V

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.

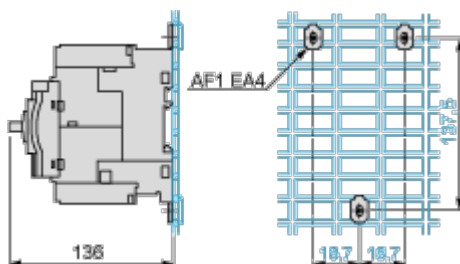
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws

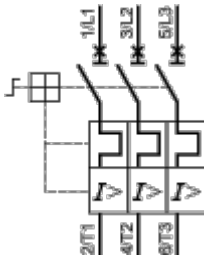


Mounting on Pre-Slotted Plate AM1 PA



Connections and Schema

GV3P••



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

The image displays a collection of accessories for TeSys Deca Motor Circuit Breakers. At the top left is a large black motor circuit breaker. Below it, eight different accessories are arranged in two rows of four. Each accessory is accompanied by a small image and a text label. The accessories include auxiliary contact blocks, a comb busbar, a current limiter, an energy sensor, a large spacing cover, a terminal block, a combination block, and an extended rotary handle.

Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a green rotary handle and a green label. It is mounted on a DIN rail. The device has three main terminals on top and three on the bottom. The label on the front face includes the Schneider logo and the model number GV3P80.

TeSys Deca Motor Circuit Breakers

Technical Benefits

- Easily integrated within multiple configurations, thanks to its 55 mm standard width and mounting on DIN rail.
- 9 ratings in total
- Magnetic and thermal overload protection, covers 9 to 80 A, 7.5 to 40 hp motor with 65 kA / 480 Y Type F
- Sturdy and long-lasting power connection with EverLink terminals
- Three-position (Start/Stop/Tripped) rotary handle, front face padlocking and other accessories
- Operating temperature from -20° C to +60° C open operation

Offer Marketing Illustration

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.



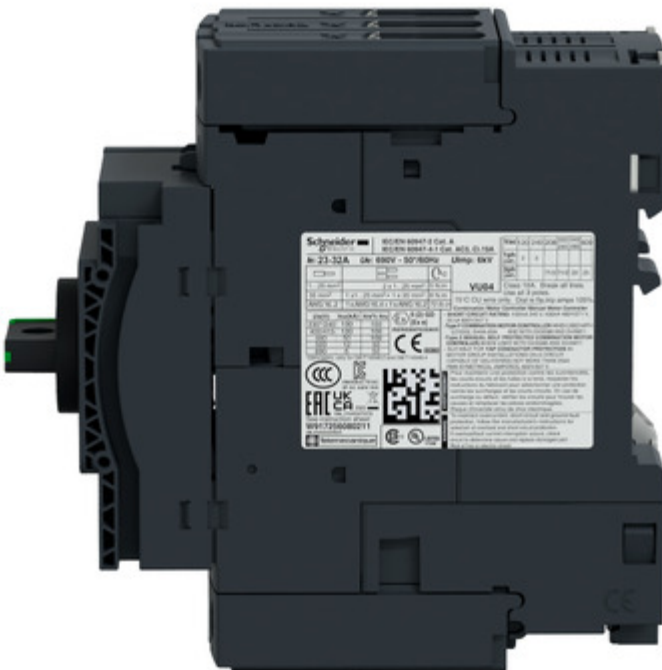
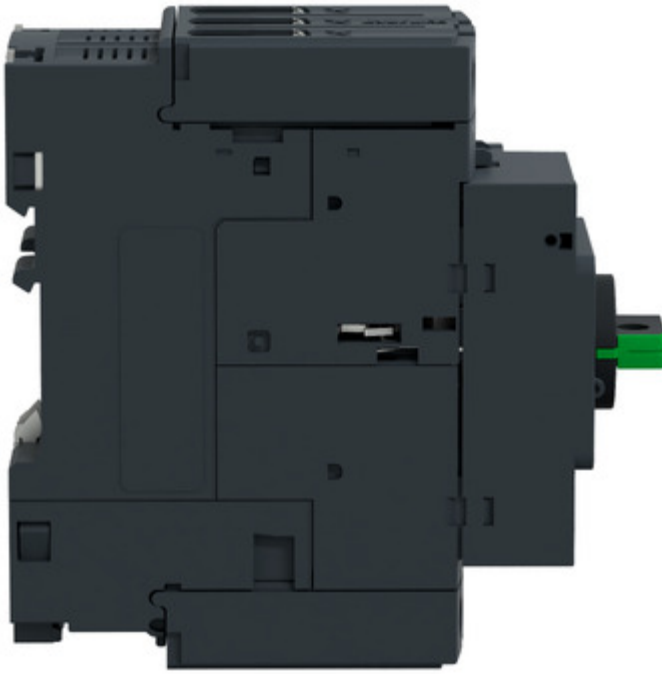
Universal Integration

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



Image of product / Alternate images

Alternative





Technical Illustration

Assembly's dimensions

