

# Bảng thông số sản phẩm

Thông số kỹ thuật



## TeSys GV3L magnetic motor circuit breaker 73A EverLink

GV3L73

### Main

Range	TeSys Deca
Product name	TeSys GV3
Product or component type	Motor circuit breaker
Device short name	GV3L
Device application	Motor protection
Trip unit technology	Magnetic

### Complementary

Poles description	3P
Network type	AC
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz
Motor power kW	37 kW at 400/415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz
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	73 A
Magnetic tripping current	1120 A
[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
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

<b>Tightening torque</b>	5 N.m - on screw clamp terminal
<b>Fixing mode</b>	35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws)
<b>Mounting position</b>	Horizontal Vertical
<b>Width</b>	55 mm
<b>Height</b>	132 mm
<b>Depth</b>	136 mm
<b>Net weight</b>	0.96 kg
<b>Colour</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 IEC/EN 60335-1:Clause 30.2 IEC/EN 60335-2-40:Annex JJ
<b>Product certifications</b>	CCC UL CSA EAC LROS (Lloyds register of shipping) BV ABS DNV-GL UKCA
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Climatic withstand</b>	conforming to IACS E10
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Fire resistance</b>	960 °C conforming to IEC 60695-2-11
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Mechanical robustness</b>	Shocks: 5 Gn for 11 ms contactor open Shocks: 30 Gn for 11 ms contactor closed Vibrations: 4 Gn, 5...300 Hz
<b>Operating altitude</b>	3000 m

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6.800 cm
<b>Package 1 Width</b>	14.700 cm
<b>Package 1 Length</b>	15.900 cm
<b>Package 1 Weight</b>	1.012 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	120
<b>Package 2 Height</b>	73.500 cm
<b>Package 2 Width</b>	60.000 cm
<b>Package 2 Length</b>	80.000 cm

---

Package 2 Weight 134.920 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

[Product Environmental Profile](#)

## 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

[End of Life Information](#)

WEEE



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

---

Take-back

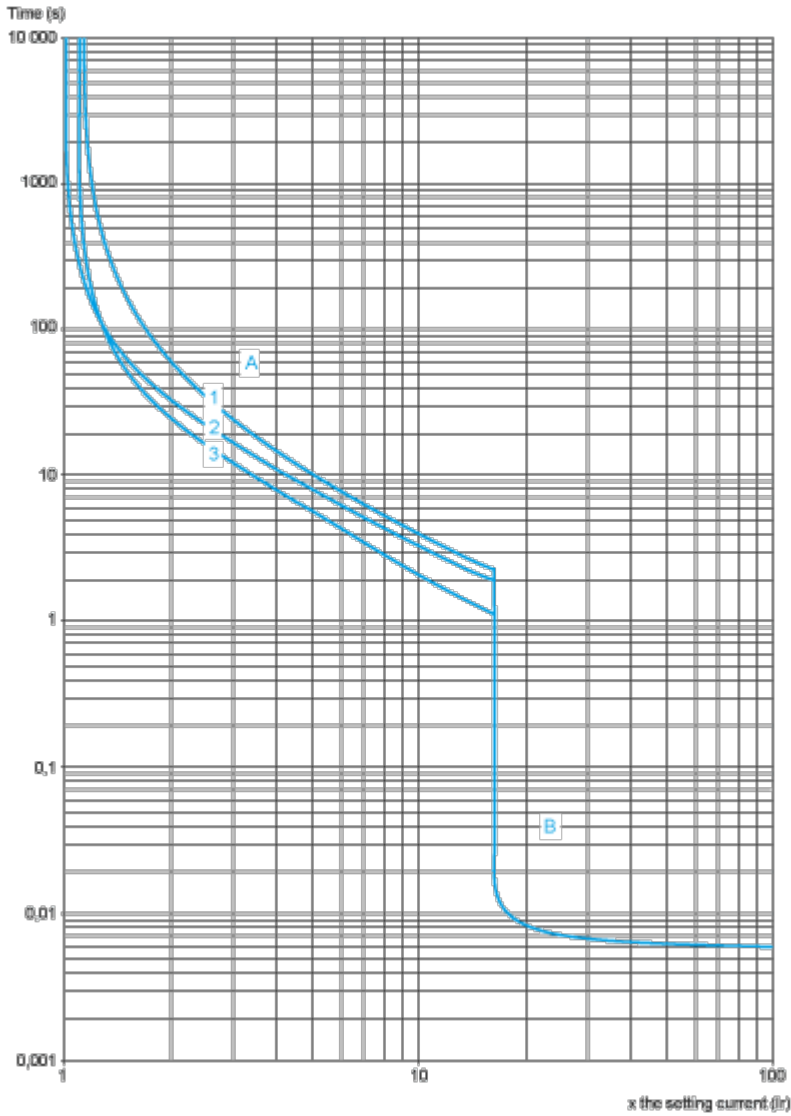
No

---

## Performance Curves

### Tripping Curves for GV3L Combined with Thermal Overload Relay LRD33

Average Operating time at 20 °C without Prior Current Flow

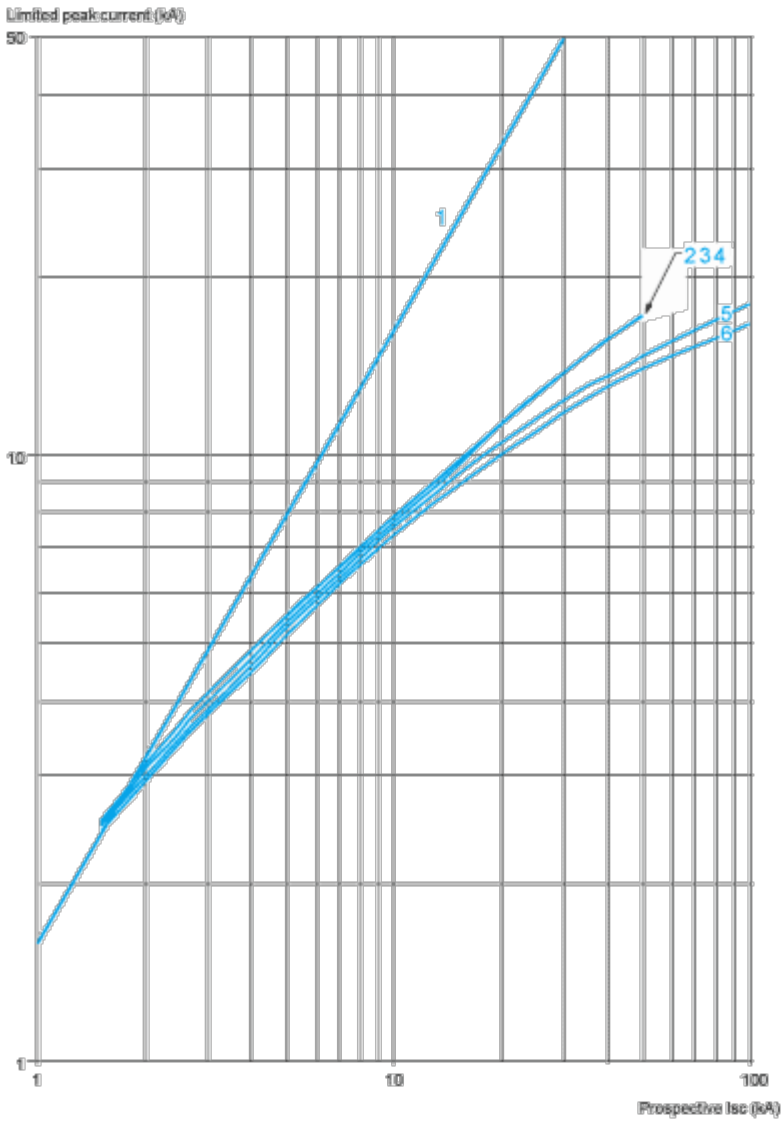


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- A Thermal overload relay protection zone
- B GV3L protection zone

### Current Limitation on Short-Circuit for GV3L (3-Phase 400/415 V)

#### Dynamic Stress

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

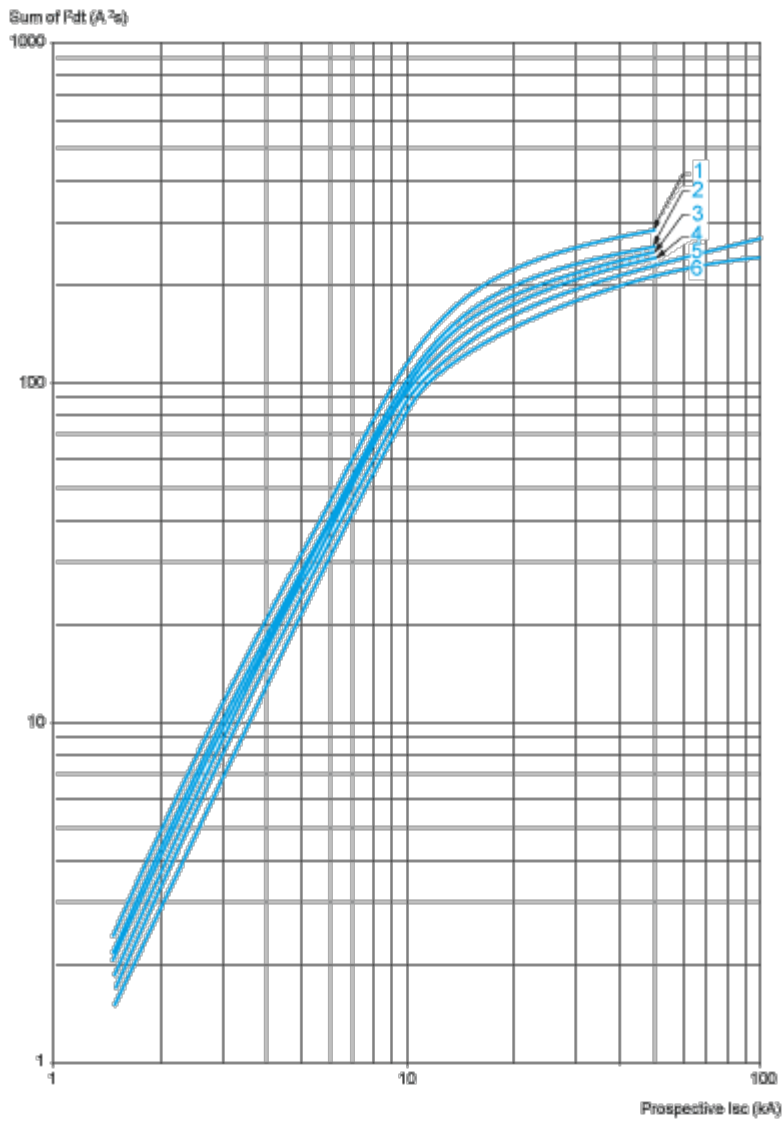


- 1 Maximum peak current
- 2 GV3L80 - GV3L73 - GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25

**Thermal Limit on Short-Circuit for GV3L**

Thermal Limit in A<sup>2</sup>s

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



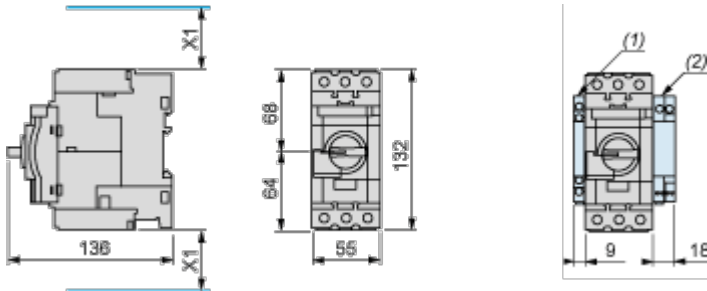
- 1 GV3L73 - GV3L80
- 2 GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25



## Dimensions Drawings

### GV3L, GV3P

#### Dimensions

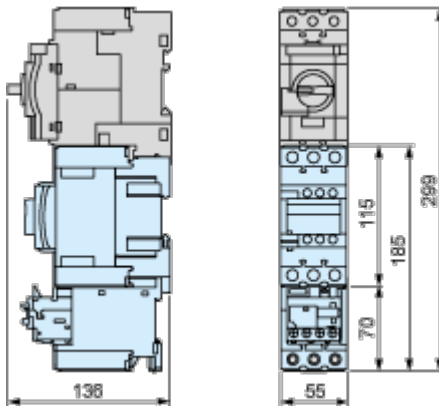


- (1) Blocks GVAN<sub>●●</sub>, GVAD<sub>●●</sub> and GVAM11.
- (2) Blocks GV3AU<sub>●●</sub> and GV3AS<sub>●●</sub>.

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

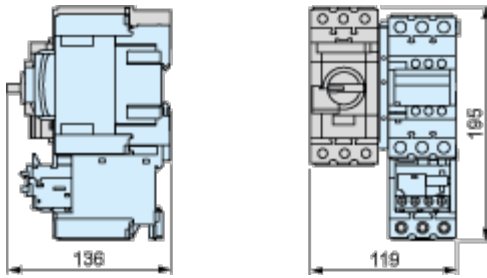
**NOTE:** Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

#### Mounting with Tesys contactor LC1D40A...D80A and relay LR3D313...380 (1)(2)(3)



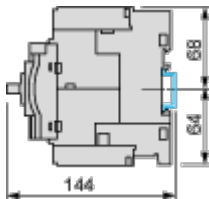
- (1) Mountings with c.b. up to GV3L73, GV3P73.
- (2) For GV3L80, GV3P80 use cable between components for dissipating heat. Consult online datasheets for values.
- (3) S-shape busbar system suitable up to 73 A.

#### Side by side mounting with Tesys contactor LC1D40A...D73A (S-shape busbar system GV3S<sup>(1)</sup>)

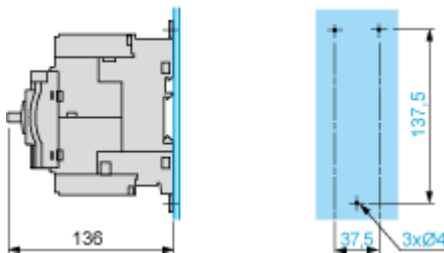


(1) Mountings with c.b. up to GV3L73, GV3P73.

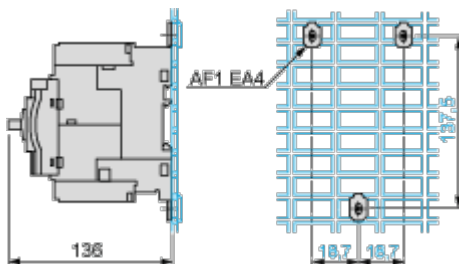
**Mounting on Rail AM1 DE200 or AM1 ED201**



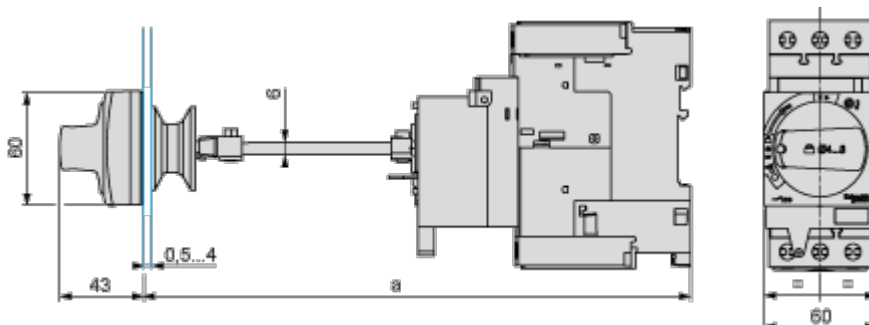
**Panel Mounting, using M4 Screws**



**Mounting on Pre-Slotted Plate AM1 PA**



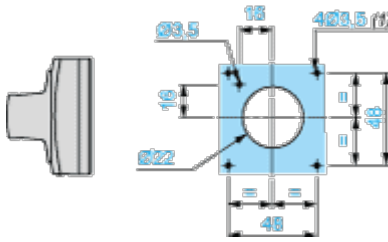
**Mounting of External Operator GV3APN01, GV3APN02 or GV3APN04 for Motor Circuit Breakers GV3L**



# Bảng thông số sản phẩm

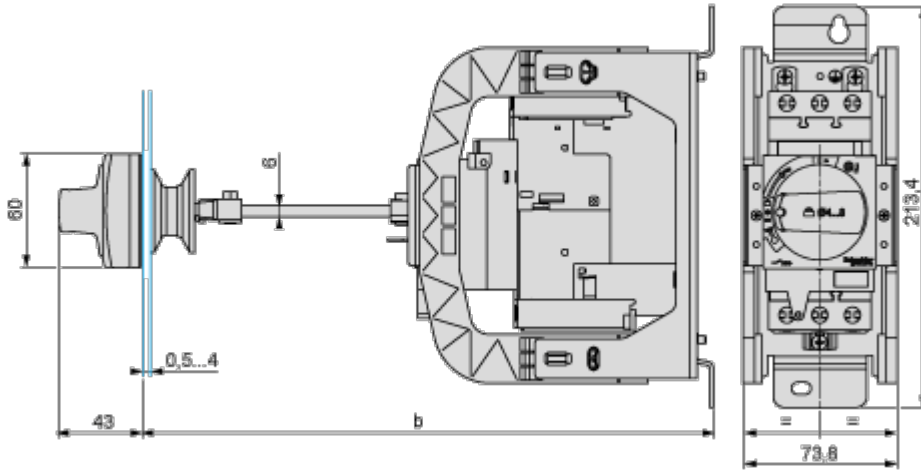
# GV3L73

Door cut-out



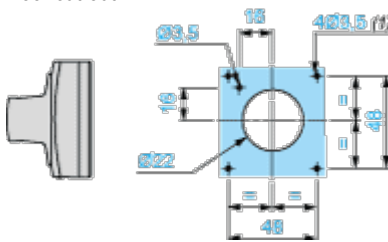
(1) For IP65 only.

## Mounting of External Operator GVAPH03 for Motor Circuit Breakers GV3L



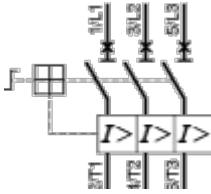
	b	
	Minimum	Maximum
GV3APN <sub>..</sub> + GVAPH03	200	300
GV3APN <sub>..</sub> + GVAPH03 + GVAPK12	300	492

Door cut-out



(1) For IP65 only.

GV3L••



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.

The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a green handle and terminal block. It is positioned on a green circular graphic element.

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**

---



**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

Image of product / Alternate images

Alternative

---



